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James Doyle Sell Mining Collection

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**TAB**

COSTS 1976

EXPLORATION AUTHORIZATION NO. 0010-10  
 SUPERIOR EAST PROJECT  
 PINAL COUNTY, ARIZONA

TUCSON OFFICE

January - 1976

| ACCOUNT NO. | Item                                    | This Month        | This Year         | Total To Date       |
|-------------|---|-------------------|-------------------|---------------------|
| 521-10      | Surface Drilling - Salaries             | \$ 222 00         | \$ 222 00         | \$ 2308 53          |
| 521-20      | - Supplies                              | 13 02             | 13 02             | 113 76              |
| 521-25      | - Services                              |                   |                   | 132867 32           |
| 521-29      | - Traveling                             |                   |                   | 258 30              |
| 521-35      | - Add. Labor                            | 48 83             | 48 83             | 423 41              |
| 521-40      | - Taxes                                 |                   |                   | 100 81              |
| 530-10      | Geology - Salaries                      | 931 00            | 931 00            | 2593 00             |
| 530-29      | - Traveling                             |                   |                   | 103 12              |
| 530-35      | - Add. Labor                            | 204 80            | 204 80            | 452 91              |
| 540-10      | Sampling, Assaying, Lab. - Salaries     |                   |                   | 274 00              |
| 540-25      | - Services                              |                   |                   | 715 22              |
| 540-35      | - Add. Labor                            |                   |                   | 41 43               |
| 570-10      | Engineering - Salaries                  | 721 66            | 721 66            | 721 66              |
| 570-20      | - Supplies                              | 6 98              | 6 98              | 6 98                |
| 570-29      | - Traveling                             | 3 55              | 3 55              | 3 55                |
| 570-35      | - Add. Labor                            | 158 74            | 158 74            | 158 74              |
| 570-40      | - Taxes                                 | 42 1              | 42                | 42                  |
| 610-10      | Field Administration - Salaries         |                   |                   | 48 88               |
| 610-20      | - Supplies                              |                   |                   | 1 32                |
| 610-25      | - Services                              | 214 15            | 214 15            | 668 47              |
| 610-30      | - Communications                        | 41 99             | 41 99             | 159 44              |
| 610-35      | - Add. Labor                            |                   |                   | 10 07               |
| 610-40      | - Taxes                                 |                   |                   |                     |
| 620-10      | General Administration - Salaries       | 186 00            | 186 00            | 423 00              |
| 620-20      | - Supplies                              | 27 59             | 27 59             | 63 24               |
| 620-35      | - Add. Labor                            | 40 91             | 40 91             | 85 14               |
| 620-40      | - Taxes                                 | 1 66              | 1 66              | 21 71               |
| 620-48      | - Other                                 |                   |                   | 6 00                |
| 641-20      | Distributable Accounts Autos - Supplies | 118 52            | 118 52            | 1344 62             |
| 641-40      | - Taxes                                 | 194 1             | 194               | 19 1                |
|             |   | <u>\$ 2943 76</u> | <u>\$ 2943 76</u> | <u>\$ 143977 31</u> |

Authorized  
 Expended

\$ 110 000 00  
 143 977 31

Balance Unexpended

\$ (33977 31)

Orig: TCOsborne  
 cc: RR, NV, RBM, TES, FTG, File-2

2/13/76

To: WLK

From: JDS

Major Expenditures from EA  
request of April 30, 1975.  
Area of hole A-3  
Superior East Project  
Pinal County, Az

CMX Company cleaning rotary hole & casing \$ 8,805.61

Tonto mobilization, cleaning cement to bottom 9,179.26

Original Braid mud shipment 2,351.24

Budget improvement of road to A-3 1,298.00

Budget road work to new site SE of A2 4,734.21

Tonto Footage includes drilling, hourly, material,  
water truck & third party charges incurred  
through Tonto )

Tonto Footage 1940 - 4950 feet 77,205.63

Tonto Footage 4950 - 6008 feet (T.D.) 65,864.27

Mollen-Hauer Surveying Company 1,379.50

JDS

WLC  
copy attached

E-10-16

JDS

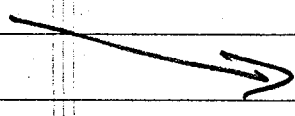
Sup East

Can you work up a schedule of expenses last 90 round (balance of funds in EA's plus additional requested)

We were to check A-3 and A-5 with budget and actually only did A-3.

I will have to call Dick Brown in case the advisory committee questions here only one hole (with overrun) got drilled when two budgeted!

please



JDS-

Clean out case \_\_\_\_\_

Into getting to bottom \_\_\_\_\_

Round A-3 \_\_\_\_\_

" other \_\_\_\_\_

Footage (total project)  
1949-4950

Footage (total project)  
4950-6000 \_\_\_\_\_

cl. FTG

Cleaning rotary hole & casing

|   |                 |
|---|-----------------|
| Jan 17, 1975 NPW<br>polylation, &<br>Tonto cleaning cement, & getting to bottom | 8,805.61        |
| Invoice 774A (p. 2 & 3)   | 9,179.26        |
| Road to A-3 improvement (Budget)  | 1,298.00        |
| Road to site off of A-2   | 4,734.21        |
| Original Baroid mud.  | 2,351.24        |
| <u>Mollenhausen Seining Co</u>  | <u>1,379.50</u> |

|  |                  |
|--|------------------|
| Tonto Footage include <sup>drilling, hourly, material, fluid loss, chaser</sup> <del>direct, mud, (water truck) etc.</del> |                  |
| Tonto Footage Invoice 774A, p. 3 (1940-2331)   | 7,602.25         |
| " " " 777A <sup>(total)</sup> p. 203 (2331-3381)   | 22,845.46        |
| " " " 779A, <sup>(total)</sup> (3381-4253)   | 24,403.89        |
| " " " 781A <sup>(partial)</sup> (4253-4950)  | <u>22,354.03</u> |
|  | 77,205.63        |

|  |                  |
|--|------------------|
| Tonto Footage Invoice 781A (partial) (4950-5405) | 17,395.00        |
| " " " 783A (total) (5405-5976)                   | 26,171.50        |
| " " " 786A (total) (5976-6008)                   | <u>22,297.77</u> |
|  | 65,864.27        |

Budget Const. #5973, Oct 29, 1975 (171,917.72)  
 Cleaning mud pit *[Signature]*

AARL 450.00, 289.00

Other items include AARL, water supplies, housing & office rent, salary & distribution.

To: WLK

JOS

1975 Overrun areas on SE Project.

When appropriation EA-0010-10 was requested and approved on May 14, 1975, we had requested \$110,000<sup>00</sup> to go with our balance of EA-0010-08 of \$450,000<sup>00</sup>, for a grand total of \$560,000<sup>00</sup>. Of this, \$120,000<sup>00</sup> was earmarked to clean out, case, and deepen rotary drill hole A-3 from 1949 feet to 4950 feet by diamond drilling; and \$40,000<sup>00</sup> was to ~~go~~ deepen rotary drill hole A-5 from 345 feet to 4645 feet by diamond drilling.

From April to September some \$18,000<sup>00</sup> was spent out of this with the major costs being \$10,000<sup>00</sup> for cleaning & casing the hole with a rotary rig and nearly \$5,000<sup>00</sup> used in constructing a road to a tentative drill site southeast of hole A-2. This road work was terminated when in April when our work areas were clarified for the year, but of course had been ~~not~~ taken from the EA and spent.

When the Tonto rig finally arrived it was found necessary to better prepare the road entry and some \$1,500<sup>00</sup> was expended in this extra road work.

Tonto, on entering the cased hole, found cement inside the casing and some \$15,000<sup>00</sup> was expended in getting to the bottom of the casing.

As noted, the hole was originally scheduled to bottom at 4950 feet. However, at that point we were still in Whitetail and had passed several buff marble beds which in holes A-4 and A-7 had ~~under~~ shown better values below.

these marker beds. The decision to continue to core was terminated at 6000 feet and we were still in Whitetail Conglomerate although one slide block of diorite had been encountered. The extra 1050 feet of coring cost an estimated \$45,800<sup>00</sup>.

Other items which cost more than anticipated at the time of the authorization request include mud material unit price increases, third party truck rental costs, extra help on the rig expenses, and a higher basic cost per foot contract.

~~The total cost of the hole was some \$14,200<sup>00</sup> or \$9,400<sup>00</sup> more than originally estimated, which~~

All these above items overran the costs of the original estimates, and the extra drilling eliminated the amount set aside in the authorization for drilling in hole A-5.

JPSell 2/12/76



EXPLORATION AUTHORIZATION NO. 0010-10  
 SUPERIOR EAST PROJECT  
 PINAL COUNTY, ARIZONA

TUCSON OFFICE

February - 1976

*Transfer to 0010-11*

| ACCOUNT NO. | Item                                    | This Month   | This Year    | Total To Date |
|-------------|---|--------------|--------------|---------------|
| 521-10      | Surface Drilling - Salaries             | \$ (987.53)  | \$ (765.53)  | \$ 1321.00    |
| 521-20      | - Supplies                              | ( 24.68)     | ( 11.66)     | 89.28         |
| 521-25      | - Services                              | ( 27,902.90) | ( 27,902.90) | 104,964.43    |
| 521-29      | - Traveling                             | ( 106.15)    | ( 106.15)    | 152.15        |
| 521-35      | - Add. Labor                            | ( 192.57)    | ( 143.74)    | 230.84        |
| 521-40      | - Taxes                                 | ( 21.12)     | ( 21.12)     | 79.69         |
| 530-10      | Geology - Salaries                      | ( 1753.00)   | ( 822.00)    | 840.00        |
| 530-29      | - Traveling                             | ( 42.00)     | ( 42.00)     | 61.10         |
| 530-35      | - Add. Labor                            | ( 329.08)    | ( 124.28)    | 123.83        |
| 540-10      | Sampling, Assaying, Lab. - Salaries     | ( 274.00)    | ( 274.00)    |               |
| 540-25      | - Services                              | ( 283.22)    | ( 283.22)    | 432.00        |
| 540-35      | - Add. Labor                            | ( 41.43)     | ( 41.43)     |               |
| 570-10      | Engineering - Salaries                  | ( 721.66)    |              |               |
| 570-20      | - Supplies                              | ( 6.98)      |              |               |
| 570-29      | - Traveling                             | ( 3.55)      |              |               |
| 570-35      | - Add. Labor                            | ( 158.74)    |              |               |
| 570-40      | - Taxes                                 | ( 42)        |              |               |
| 610-10      | Field Administration - Salaries         |              |              | 4888          |
| 610-20      | - Supplies                              | ( 1.38)      | ( 1.38)      |               |
| 610-25      | - Services                              | ( 435.07)    | ( 220.92)    | 23340         |
| 610-30      | - Communications                        | ( 109.89)    | ( 67.90)     | 4955          |
| 610-35      | - Add. Labor                            |              |              | 10.07         |
| 610-40      | - Taxes                                 |              |              |               |
| 620-10      | General Administration - Salaries       | ( 335.00)    | ( 149.00)    | 88.00         |
| 620-20      | - Supplies                              | ( 42.69)     | ( 15.10)     | 20.55         |
| 620-35      | - Add. Labor                            | ( 72.16)     | ( 31.25)     | 12.98         |
| 620-40      | - Taxes                                 | ( 11.63)     | ( 9.97)      | 10.08         |
| 620-48      | - Other                                 |              |              | 6.00          |
| 641-20      | Distributable Accounts Autos - Supplies | ( 118.52)    |              | 1226.17       |
| 641-40      | - Taxes                                 | ( 1.94)      |              |               |

\$ (33977.31) \$ (31033.55) \$ 110,000.00

Authorized  
 Expended

\$ 110,000.00  
 110,000.00

Balance Unexpended

\$           

Orig: TCOsborne  
 cc: RR, NV, RBM, TES, FTG, File-2

EXPLORATION AUTHORIZATION NO. 0010-11  
 SUPERIOR EAST PROJECT  
 PINAL COUNTY, ARIZONA

TUCSON OFFICE  
 February - 1976

*February  
 Actually  
 Spent*

*Catchup exp from  
 deficit from 1974*

| Account No. | Item                                   |                            | This Month      | <sup>Same</sup> ← This Year | Total To Date |
|-------------|--|----------------------------|-----------------|-----------------------------|---------------|
| 521-10      | Surface Drilling - Salaries            | 81.00                      | \$ 1068         | 53 \$ 1068                  | 53 \$         |
| 521-15      | - Wages                                |                            |                 |                             |               |
| 521-20      | - Supplies                             | 13.02                      | \$ 37           | 70 37                       | 70            |
| 521-25      | - Services                             | <del>2,391.38</del> Credit | <del>2551</del> | 52 2551                     | 52            |
| 521-29      | - Traveling                            |                            | 106             | 15 106                      | 15            |
| 521-35      | - Add. Labor                           | 1732                       | 203             | 81 203                      | 81            |
| 521-40      | - Taxes                                |                            | 27              | 20 27                       | 20            |
| 530-10      | Geology - Salaries                     | (398.00)                   | 2151            | 00 2151                     | 00            |
| 530-29      | - Traveling                            | (20.20)                    | 62              | 20 62                       | 20            |
| 530-35      | - Add. Labor                           | (78.52)                    | 407             | 60 407                      | 60            |
| 540-10      | Sampling, Assaying, Lab - Salaries     |                            | 274             | 00 274                      | 00            |
| 540-20      | - Supplies                             |                            |                 |                             |               |
| 540-25      | - Services                             |                            | 283             | 22 283                      | 22            |
| 540-29      | - Traveling                            |                            |                 |                             |               |
| 540-35      | - Add. Labor                           |                            | 41              | 43 41                       | 43            |
| 540-40      | - Taxes                                |                            |                 |                             |               |
| 550-10      | Geophysics - Salaries                  | (500.90)                   | 500             | 90 500                      | 90            |
| 550-29      | - Traveling                            | (69.85)                    | 69              | 85 69                       | 85            |
| 550-35      | - Add. Labor                           | (107.09)                   | 107             | 09 107                      | 09            |
| 570-10      | Engineering - Salaries                 |                            | 721             | 66 721                      | 66            |
| 570-20      | - Supplies                             |                            | 6               | 98 6                        | 98            |
| 570-29      | - Traveling                            |                            | 3               | 55 3                        | 55            |
| 570-35      | - Add. Labor                           |                            | 158             | 74 158                      | 74            |
| 570-40      | - Taxes                                |                            |                 | 42 42                       | 42            |
| 610-20      | Field Administration - Supplies        |                            | 1               | 38 1                        | 38            |
| 610-25      | - Services                             | (212.08)                   | 647             | 15 647                      | 15            |
| 610-30      | - Communications                       | (27.39)                    | 137             | 28 137                      | 28            |
| 620-10      | Administration, General - Salaries     | (217.00)                   | 552             | 00 552                      | 00            |
| 620-15      | - Wages                                |                            |                 |                             |               |
| 620-20      | - Supplies                             | 14.22                      | 56              | 91 56                       | 91            |
| 620-25      | - Services                             |                            |                 |                             |               |
| 620-35      | - Add. Labor                           | 44.68                      | 116             | 84 116                      | 84            |
| 620-40      | - Taxes                                | 0.85                       | 12              | 48 12                       | 48            |
| 641-20      | Distributable Accounts Auto - Supplies | 171.50                     | 290             | 02 290                      | 02            |
| 641-40      | - Taxes                                | 0.20                       | 2               | 14 2                        | 14            |
|             |  | <u>417.56 credit</u>       | <u>\$33559</u>  | <u>75 \$33559</u>           | <u>75 \$</u>  |

Authorized Expended \$ 45,000.00  
 33,559.75  
 Balance Unexpended \$ 11,440.25

Orig:  
 cc:

EXPLORATION AUTHORIZATION NO. 0010-11  
 SUPERIOR EAST PROJECT  
 PINAL COUNTY, ARIZONA

TUCSON OFFICE

March - 1976

| Account No. | Item                                   | This Month | This Year   | Total To Date |
|-------------|--|------------|-------------|---------------|
| 521-10      | Surface Drilling - Salaries            | \$         | \$ 1068 53  | \$            |
| 521-15      | - Wages                                |            |             |               |
| 521-20      | - Supplies                             | 19 64      | 57 34       |               |
| 521-25      | - Services                             |            | 2551 52     |               |
| 521-29      | - Traveling                            |            | 106 15      |               |
| 521-35      | - Add. Labor                           |            | 203 81      |               |
| 521-40      | - Taxes                                |            | 27 20       |               |
| 530-10      | Geology - Salaries                     |            | 2151 00     |               |
| 530-29      | - Traveling                            | 13 30      | 75 50       |               |
| 530-35      | - Add. Labor                           |            | 407 60      |               |
| 540-10      | Sampling, Assaying, Lab. - Salaries    |            | 274 00      |               |
| 540-20      | - Supplies                             |            |             |               |
| 540-25      | - Services                             |            | 283 22      |               |
| 540-29      | - Traveling                            |            |             |               |
| 540-35      | - Add. Labor                           |            | 41 43       |               |
| 540-40      | - Taxes                                |            |             |               |
| 550-10      | Geophysics - Salaries                  |            | 500 90      |               |
| 550-29      | - Traveling                            |            | 69 85       |               |
| 550-35      | - Add. Labor                           |            | 107 09      |               |
| 570-10      | Engineering - Salaries                 | 370 37     | 1092 03     |               |
| 570-20      | - Supplies                             |            | 6 98        |               |
| 570-29      | - Traveling                            | 43 45      | 47 00       |               |
| 570-35      | - Add. Labor                           | 79 38      | 238 12      |               |
| 570-40      | - Taxes                                |            | 42          |               |
| 610-20      | Field Administration - Supplies        |            | 1 38        |               |
| 610-25      | - Services                             | 229 02     | 876 17      |               |
| 610-30      | - Communications                       | 35 29      | 172 57      |               |
| 620-10      | Administration, General - Salaries     | 328 00     | 880 00      |               |
| 620-15      | - Wages                                |            |             |               |
| 620-20      | - Supplies                             | 2 71       | 59 62       |               |
| 620-25      | - Services                             | 4 00       | 4 00        |               |
| 620-35      | - Add. Labor                           | 67 34      | 184 18      |               |
| 620-40      | - Taxes                                | 17         | 12 65       |               |
| 641-20      | Distributable Accounts Auto - Supplies | 81 68      | 371 70      |               |
| 641-40      | - Taxes                                | 03         | 2 17        |               |
|             |  | \$ 1691 48 | \$ 35251 23 | \$            |

*all  
 P 100  
 GP  
 except  
 not  
 trans-  
 in*

Authorized Expended \$ 45 000 00  
 35251 23  
 Balance Unexpended \$ 9748 77

Orig: TCOsborne  
 cc: RR, NV, RBM, TES, FTG, File-2  
 Staking Claims - Wages  
 - Traveling  
 - Add. Labor

291.25 291.25  
 104.00 104.00  
 21.85 21.85

EXPLORATION AUTHORIZATION NO. 0010-10  
 SUPERIOR EAST PROJECT  
 PINAL COUNTY, ARIZONA

TUCSON OFFICE

March 1976

| ACCOUNT NO. | Item                                    | This Month | This Year   | Total To Date |
|-------------|---|------------|-------------|---------------|
| 521-10      | Surface Drilling - Salaries             | \$ -       | \$ (765.53) | \$ 1321.00    |
| 521-20      | - Supplies                              | -          | ( 11.66)    | 89.28         |
| 521-25      | - Services                              | -          | (27902.90)  | 104,964.43    |
| 521-29      | - Traveling                             | -          | ( 106.15)   | 152.15        |
| 521-35      | - Add. Labor                            | -          | ( 143.74)   | 230.84        |
| 521-40      | - Taxes                                 | -          | ( 21.12)    | 79.69         |
| 530-10      | Geology - Salaries                      | -          | ( 822.00)   | 840.00        |
| 530-29      | - Traveling                             | -          | ( 42.00)    | 61.10         |
| 530-35      | - Add. Labor                            | -          | (1242.8)    | 123.83        |
| 540-10      | Sampling, Assaying, Lab. - Salaries     | -          | (274.00)    |               |
| 540-25      | - Services                              | -          | (283.22)    | 432.00        |
| 540-35      | - Add. Labor                            | -          | ( 41.43)    |               |
| 570-10      | Engineering - Salaries                  | -          |             |               |
| 570-20      | - Supplies                              | -          |             |               |
| 570-29      | - Traveling                             | -          |             |               |
| 570-35      | - Add. Labor                            | -          |             |               |
| 570-40      | - Taxes                                 | -          |             |               |
| 610-10      | Field Administration - Salaries         | -          |             | 48.88         |
| 610-20      | - Supplies                              | -          | ( 1.38)     |               |
| 610-25      | - Services                              | -          | (220.92)    | 233.40        |
| 610-30      | - Communications                        | -          | ( 67.90)    | 49.55         |
| 610-35      | - Add. Labor                            | -          | -           | 10.07         |
| 610-40      | - Taxes                                 | -          |             |               |
| 620-10      | General Administration - Salaries       | -          | (149.00)    | 88.00         |
| 620-20      | - Supplies                              | -          | ( 15.10)    | 20.55         |
| 620-35      | - Add. Labor                            | -          | ( 31.25)    | 12.98         |
| 620-40      | - Taxes                                 | -          | ( 9.97)     | 10.08         |
| 620-48      | - Other                                 | -          | -           | 6.00          |
| 641-20      | Distributable Accounts Autos - Supplies | -          | -           | 1226.17       |
| 641-40      | - Taxes                                 | -          | -           |               |

\$            \$ 31033.55 \$ 110,000.00

Authorized  
 Expended

\$ 110,000.00  
110,000.00

Balance Unexpended

\$           

Orig: TCOsborne  
 cc: RR, NV, RBM, TES, FTG, File-2

| Account No. | Item                                   | This Month       | This Year          | Total To Date |
|-------------|--|------------------|--------------------|---------------|
| 521-10      | Surface Drilling - Salaries            |                  | \$ 1068 53         |               |
| 521-15      | - Wages                                |                  |                    |               |
| 521-20      | - Supplies                             | 14 36            | 71 70              |               |
| 521-25      | - Services                             |                  | 2551 52            |               |
| 521-29      | - Traveling                            |                  | 106 15             |               |
| 521-35      | - Add. Labor                           |                  | 203 81             |               |
| 521-40      | - Taxes                                |                  | 27 20              |               |
| 530-10      | Geology - Salaries                     |                  | 2151 00            |               |
| 530-29      | - Traveling                            |                  | 75 50              |               |
| 530-35      | - Add. Labor                           |                  | 407 60             |               |
| 540-10      | Sampling, Assaying, Lab. - Salaries    |                  | 274 00             |               |
| 540-20      | - Supplies                             |                  |                    |               |
| 540-25      | - Services                             |                  | 283 22             |               |
| 540-29      | - Traveling                            |                  |                    |               |
| 540-35      | - Add. Labor                           |                  | 41 43              |               |
| 540-40      | - Taxes                                |                  |                    |               |
| 550-10      | Geophysics - Salaries                  |                  | 500 90             |               |
| 550-29      | - Traveling                            |                  | 69 85              |               |
| 550-35      | - Add. Labor                           |                  | 107 09             |               |
| 570-10      | Engineering - Salaries                 | 167 73           | 1259 76            |               |
| 570-20      | - Supplies                             |                  | 6 98               |               |
| 570-29      | - Traveling                            |                  | 47 00              |               |
| 570-35      | - Add. Labor                           | 32 80            | 270 92             |               |
| 570-40      | - Taxes                                |                  | 42                 |               |
| 610-20      | Field Administration - Supplies        |                  | 1 38               |               |
| 610-25      | - Services                             | 246 91           | 1123 08            |               |
| 610-30      | - Communications                       | 48 70            | 221 27             |               |
| 620-10      | Administration, General - Salaries     | 178 00           | 1058 00            |               |
| 620-15      | - Wages                                |                  |                    |               |
| 620-20      | - Supplies                             | 40 16            | 99 78              |               |
| 620-25      | - Services                             | 20 00            | 24 00              |               |
| 620-35      | - Add. Labor                           | 34 82            | 219 00             |               |
| 620-40      | - Taxes                                | 2 42             | 15 07              |               |
| 641-20      | Distributable Accounts Auto - Supplies | 88 48            | 460 18             |               |
| 641-40      | - Taxes                                | 60               | 2 77               |               |
|             |  | <u>\$ 928 72</u> | <u>\$ 36179 95</u> |               |

Authorized Expended \$ 45,000.00  
 Expended \$ 36,179.95  
 Balance Unexpended \$ 8,820.05

Orig: TCOsborne  
 cc: RR, NV, RBM, TES, FTG, File-2  
 507-15 Staking Claims - Wages  
 507-29 - Traveling  
 507-35 - Add. Labor

50.00 341.25  
 - 104.00  
 3.74 25.59

May - 19 76

| Account No. | Item                                   | This Month | This Year  | Total To Date |
|-------------|--|------------|------------|---------------|
| 501-48      | Outright Purchases - Other             |            |            |               |
| 507-15      | Staking Claims - Wages                 |            | 341 25     |               |
| 507-20      | - Supplies                             |            |            |               |
| 507-29      | - Traveling                            |            | 104 00     |               |
| 507-35      | - Add. Labor                           |            | 25 59      |               |
| 507-40      | - Taxes                                |            |            |               |
| 521-10      | Surface Drilling - Salaries            |            | 1068 53    |               |
| 521-15      | - Wages                                |            |            |               |
| 521-20      | - Supplies                             |            |            |               |
| 521-25      | - Services                             | 14 36      | 86 06      |               |
| 521-29      | - Traveling                            |            | 2551 52    |               |
| 521-30      | - Communications                       |            | 106 15     |               |
| 521-35      | - Add. Labor                           |            |            |               |
| 521-40      | - Taxes                                |            | 203 81     |               |
| 530-10      | Geology - Salaries                     |            | 27 20      |               |
| 530-29      | - Traveling                            | 542 00     | 2693 00    |               |
| 530-35      | - Add. Labor                           | 42 40      | 117 90     |               |
| 540-10      | Sampling, Assaying, Lab. - Salaries    | 103 97     | 511 57     |               |
| 540-15      | - Wages                                |            | 274 00     |               |
| 540-20      | - Supplies                             |            |            |               |
| 540-25      | - Services                             |            | 283 22     |               |
| 540-29      | - Traveling                            |            |            |               |
| 540-30      | - Communications                       |            |            |               |
| 540-34      | - Freight                              |            |            |               |
| 540-35      | - Add. Labor                           |            | 41 43      |               |
| 540-40      | - Taxes                                |            |            |               |
| 550-10      | Geophysics - Salaries                  |            | 500 90     |               |
| 550-29      | - Traveling                            |            | 69 85      |               |
| 550-35      | - Add. Labor                           |            | 107 09     |               |
| 560-20      | Geochemistry - Supplies                |            |            |               |
| 560-40      | - Taxes                                |            |            |               |
| 570-10      | Engineering - Salaries                 |            | 1259 76    |               |
| 570-20      | - Supplies                             |            | 6 98       |               |
| 570-25      | - Services                             |            |            |               |
| 570-29      | - Traveling                            |            | 47 00      |               |
| 570-35      | - Add. Labor                           |            | 270 92     |               |
| 570-40      | - Taxes                                |            | 42         |               |
| 580-10      | Construction (Temporary) - Salaries    |            |            |               |
| 580-25      | - Services                             |            |            |               |
| 580-29      | - Traveling                            |            |            |               |
| 580-35      | - Add. Labor                           |            |            |               |
| 610-10      | Field Administration - Salaries        | 564 00     | 564 00     |               |
| 610-20      | - Supplies                             | 74 50      | 75 88      |               |
| 610-25      | - Services                             | 222 91     | 3352 49    |               |
| 610-29      | - Traveling                            | 58 35      | 58 35      |               |
| 610-30      | - Communications                       | 33 05      | 254 32     |               |
| 610-35      | - Add. Labor                           | 108 18     | 108 18     |               |
| 610-40      | - Taxes                                |            |            |               |
| 620-10      | General Administration - Salaries      | 195 00     | 1253 00    |               |
| 620-15      | - Wages                                |            |            |               |
| 620-20      | - Supplies                             |            | 99 78      |               |
| 620-25      | - Services                             | 70 00      | 94 00      |               |
| 620-29      | - Traveling                            |            |            |               |
| 620-30      | - Communications                       |            |            |               |
| 620-34      | - Freight                              |            |            |               |
| 620-35      | - Add. Labor                           | 37 41      | 256 41     |               |
| 620-40      | - Taxes                                |            | 15 07      |               |
| 620-48      | - Other                                |            |            |               |
| 641-20      | Distributable Accounts Auto - Supplies | 329 74     | 789 92     |               |
| 641-40      | - Taxes                                | 19         | 2 96       |               |
|             |  | \$4402 56  | \$40582 51 |               |

Authorized Expended \$ 45000 00  
 Balance Unexpended \$ 40582 51  
 Orig: TC0sborne \$ 4417 49

June - 1976

| Account No. | Item                                   | This Month | This Year   | Total To Date |
|-------------|--|------------|-------------|---------------|
| 501-48      | Outright Purchases - Other             |            |             |               |
| 507-15      | Staking Claims - Wages                 |            | 341 25      |               |
| 507-20      | - Supplies                             |            |             |               |
| 507-29      | - Traveling                            |            | 104 00      |               |
| 507-35      | - Add. Labor                           |            | 25 59       |               |
| 507-40      | - Taxes                                |            |             |               |
| 521-10      | Surface Drilling - Salaries            |            | 1068 53     |               |
| 521-15      | - Wages                                |            |             |               |
| 521-20      | - Supplies                             |            | 86 06       |               |
| 521-25      | - Services                             | 195 00     | 25706 52    |               |
| 521-29      | - Traveling                            |            | 106 15      |               |
| 521-30      | - Communications                       |            |             |               |
| 521-35      | - Add. Labor                           |            | 203 81      |               |
| 521-40      | - Taxes                                | 7 80       | 35 00       |               |
| 530-10      | Geology - Salaries                     |            | 2693 00     |               |
| 530-29      | - Traveling                            |            | 117 90      |               |
| 530-35      | - Add. Labor                           |            | 511 57      |               |
| 540-10      | Sampling, Assaying, Lab. - Salaries    |            | 274 00      |               |
| 540-15      | - Wages                                |            |             |               |
| 540-20      | - Supplies                             |            |             |               |
| 540-25      | - Services                             |            | 283 22      |               |
| 540-29      | - Traveling                            |            |             |               |
| 540-30      | - Communications                       |            |             |               |
| 540-34      | - Freight                              |            |             |               |
| 540-35      | - Add. Labor                           |            | 41 43       |               |
| 540-40      | - Taxes                                |            |             |               |
| 550-10      | Geophysics - Salaries                  |            | 500 90      |               |
| 550-29      | - Traveling                            |            | 69 85       |               |
| 550-35      | - Add. Labor                           |            | 107 09      |               |
| 560-20      | Geochemistry - Supplies                |            |             |               |
| 560-40      | - Taxes                                |            |             |               |
| 570-10      | Engineering - Salaries                 |            | 1259 76     |               |
| 570-20      | - Supplies                             |            | 6 98        |               |
| 570-25      | - Services                             |            |             |               |
| 570-29      | - Traveling                            |            | 47 00       |               |
| 570-35      | - Add. Labor                           |            | 270 92      |               |
| 570-40      | - Taxes                                |            | 42          |               |
| 580-10      | Construction (Temporary) - Salaries    |            |             |               |
| 580-25      | - Services                             |            |             |               |
| 580-29      | - Traveling                            |            |             |               |
| 580-35      | - Add. Labor                           |            |             |               |
| 610-10      | Field Administration - Salaries        |            | 564 00      |               |
| 610-20      | - Supplies                             | 1233 93    | 1309 81     |               |
| 610-25      | - Services                             | 2494 06    | 5846 55     |               |
| 610-29      | - Traveling                            | 200 60     | 258 95      |               |
| 610-30      | - Communications                       | 82 25      | 336 57      |               |
| 610-35      | - Add. Labor                           |            | 108 18      |               |
| 610-40      | - Taxes                                | 8 85       | 8 85        |               |
| 620-10      | General Administration - Salaries      |            | 1253 00     |               |
| 620-15      | - Wages                                |            |             |               |
| 620-20      | - Supplies                             |            | 99 78       |               |
| 620-25      | - Services                             | 195 00     | 289 00      |               |
| 620-29      | - Traveling                            |            |             |               |
| 620-30      | - Communications                       |            |             |               |
| 620-34      | - Freight                              |            |             |               |
| 620-35      | - Add. Labor                           |            | 256 41      |               |
| 620-40      | - Taxes                                |            | 15 07       |               |
| 620-48      | - Other                                |            |             |               |
| 641-20      | Distributable Accounts Auto - Supplies |            | 789 92      |               |
| 641-40      | - Taxes                                |            | 296         |               |
|             |  | \$ 4417 49 | \$ 45000 00 | \$            |

A-3  
 come  
 down to clean  
 record

Office  
 approved

Office

Dept

Authorized Expended

\$ 45000 00  
 45000 00

Balance Unexpended

\$

Orig: TCOsborne

cc: RR, NV, RBM, TES, FTG, File-2

EXPLORATION AUTHORIZATION NO. 0010-12  
 SUPERIOR EAST PROJECT  
 PINAL COUNTY, ARIZONA

TUCSON OFFICE

June

- 1976

| Account No. | Item                                   | This Month        | This Year         | Total To Date |
|-------------|--|-------------------|-------------------|---------------|
| 521-10      | Surface Drilling - Salaries            | \$ 74.00          | \$ 74.00          |               |
| 521-15      | - Wages                                |                   |                   |               |
| 521-20      | - Supplies                             |                   |                   |               |
| 521-25      | - Services                             |                   |                   |               |
| 521-34      | - Freight                              |                   |                   |               |
| 521-35      | - Add. Labor                           | 14.12             | 14.12             |               |
| 521-40      | - Taxes                                |                   |                   |               |
| 530-10      | Geology - Salaries                     |                   |                   |               |
| 530-29      | - Traveling                            |                   |                   |               |
| 530-35      | - Add. Labor                           |                   |                   |               |
| 540-10      | Sampling, Assaying, Lab. - Salaries    |                   |                   |               |
| 540-20      | - Supplies                             |                   |                   |               |
| 540-25      | - Services                             |                   |                   |               |
| 540-29      | - Traveling                            |                   |                   |               |
| 540-35      | - Add. Labor                           |                   |                   |               |
| 540-40      | - Taxes                                |                   |                   |               |
| 550-10      | Geophysics - Salaries                  |                   |                   |               |
| 550-29      | - Traveling                            |                   |                   |               |
| 610-10      | Field Administration - Salaries        | 935.62            | 935.62            |               |
| 610-15      | - Wages                                | 15.00             | 15.00             |               |
| 610-20      | - Supplies                             | 606.35            | 606.35            |               |
| 610-25      | - Services                             | 1732.50           | 1732.50           |               |
| 610-29      | - Traveling                            |                   |                   |               |
| 610-30      | - Communications                       |                   |                   |               |
| 610-34      | - Freight                              |                   |                   |               |
| 610-35      | - Add. Labor                           | 179.32            | 179.32            |               |
| 610-40      | - Taxes                                | 100.20            | 100.20            |               |
| 620-10      | Administration, General - Salaries     | 230.00            | 230.00            |               |
| 620-15      | - Wages                                |                   |                   |               |
| 620-20      | - Supplies                             |                   |                   |               |
| 620-25      | - Services                             |                   |                   |               |
| 620-35      | - Add. Labor                           | 43.87             | 43.87             |               |
| 620-40      | - Taxes                                |                   |                   |               |
| 641-20      | Distributable Accounts Auto - Supplies | 420.67            | 420.67            |               |
| 641-40      | - Taxes                                | 6.37              | 6.37              |               |
|             |  | <u>\$ 4358.02</u> | <u>\$ 4358.02</u> | \$            |

Authorized Expended \$ 120000.00  
 4358.02  
 Balance Unexpended \$ 115641.98

Orig: TCOsborne  
 cc: RR, NV, RBM, TES, FTG, File-2



FROM: F. T. GRAYBEAL

6/29/76

To: WLK ✓  
JDS ✓

SUPERIOR E

I vaguely remember a verbal estimate of \$1500 to fix new core shack at Miami and move the core.

With work virtually complete it has cost \$5400!!! I guess this is my induction to Superior E, since we are now a \$1500 in red.

# BRYANT CONSTRUCTION CO.

GENERAL CONTRACTORS — LIC. NO. A-43332

843 SPRAY STREET

SUPERIOR, ARIZONA 85273

PHONE 689-2627

1760

Sold To

ASARCO Incorporated

Box 5747

Tucson, Arizona 85703

W. G. K.

Shipped To

Move Claypool Office to New Location

JUL 2 1976

International 2 ton flat-bed with two men @ \$26.25 hour

DATE

June 30, 1976

CUSTOMER'S ORDER

T-76-211

SALESMAN

TERMS

F.O.B.

SHIPPED VIA

|        |  |    |     |         |    |
|--------|--|----|-----|---------|----|
| May 22 | clean & haul trash from behind new Miami office. | 6  | hrs |         |    |
| June 8 | haul trash & move core                           | 8  |     |         |    |
| 9      | move core to new office building                 | 8  |     |         |    |
| 10     | " " " " "  | 8  |     |         |    |
| 11     | " " " " "  | 8  |     |         |    |
| 14     | " " " " "  | 8  |     |         |    |
| 15     | " " " " "  | 8  |     |         |    |
| 16     | " " " " "  | 8  |     |         |    |
| 17     | " " " " "  | 4  |     |         |    |
|        |  | 66 | hrs | \$1,732 | 50 |
|        | 4% State Tax                                     |    |     |         | 30 |
|        | Total  |    |     | \$1,801 | 80 |

APPROVED FOR PAYMENT

By:

*James H. Sell*  
(Signature)

*Superior East Storage Bldg.*

Rediform

7S 737

Poly Pak (50 sets) 7P737

INVOICE

**BRYANT CONSTRUCTION CO.**  
GENERAL CONTRACTORS — LIC. NO. A-43332  
843 SPRAY STREET  
SUPERIOR, ARIZONA 85273  
PHONE 689-2627

now  
7-2-76

1761

DATE  
June 30, 1976

CUSTOMER'S ORDER

T-76-250 ✓  
SALESMAN

TERMS

F.O.B.

SHIPPED VIA

Sold To ASARCO Incorporated  
Box 5747  
Tucson, Arizona 85703

W. G. K.

Shipped To Reclamation Work on Drill Site A-3 JUL 2 1976  
2½ Yd. Hough rubber tired loader @ \$32.50 hour

|         |  |       |       |    |
|---------|--|-------|-------|----|
| June 10 | clean trash and fill in trash pit              |       |       |    |
|         | fill mud pits and level drill site for seeding | 6 hrs | \$195 | 00 |
|         | 4% State Tax                                   |       | 7     | 80 |
|         | Total  |       | \$202 | 80 |

**SUPERIOR EAST**  
APPROVED FOR PAYMENT

By: N. P. Whaley  
(Signature)  
7-2-76

Rediform

7S 737  
Poly Pak (50 sets) 7P737

**INVOICE**

MONTHLY COST SUMMARY

SUPERIOR EAST

Project, PINAL  
(County)

ARZ.  
(State)

A. DIRECT DRILLING (Acct. 521-)

CONTRACTORS' CHARGES

Invoiced during month covering current month's work

Contractors' Services

Statement Amt.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

X

Estimated balance of contractors' charges covering work through end of current month

Contractors' Services

Estimated Cost

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

X

Supplies and Freight

\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

X

Field Trailer Rental

\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

X

Water Purchases (Drilling)

\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

X

B. SITE PREPARATION (Acct. 580-)

CONTRACTORS' CHARGES

Invoiced during month covering current month's work

Contractors' Services

Statement Amt.

BRYANT CONSTRUCTION Co. (RECLAMATION  
OF A-3 SITE)

\$ 202.80

\$ 202.80

Estimated balance of contractors' charges covering work through end of current month

Contractors' Services

Estimated Cost

BRYANT CONSTRUCTION Co. (CONSTRUCTION  
OF ACCESS RD AND SITE FOR A-8)

\$ 6,300.00

\$ 6,300.00

Supplies and Freight

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

X

C. SAMPLERS, SAMPLING, SAMPLE PREPARATION, ASSAYING (Acct. 540-)

Wages (Temporary Help)

| <u>Name</u> | <u>No. of Straight Time Hours During Month</u> | <u>No. of Overtime Hours During Month</u> |   |
|-------------|--|---|---|
| _____       | _____  | _____                                     | X |
| _____       | _____  | _____                                     |   |

Assaying

| <u>Assayer</u> | <u>Charge or Estimated Expense for Assaying Performed During Month</u> |   |
|----------------|--|---|
| _____          | _____  | X |
| _____          | _____  |   |

D. CLAIM STAKING, VALIDATION (Acct. 507-)

Invoiced during month covering current month's work

| <u>Contractors' Services</u> | <u>Statement Amt.</u> |   |
|------------------------------|-----------------------|---|
| _____                        | _____                 | X |
| _____                        | _____                 |   |

Estimated balance of contractors' charges covering work through end of current month

| <u>Contractors' Services</u> | <u>Estimated Cost</u> |   |
|------------------------------|-----------------------|---|
| _____                        | _____                 | X |
| _____                        | _____                 |   |

Wages

| <u>Name</u> | <u>No. of Straight Time Hours During Month</u> | <u>No. of Overtime Hours During Month</u> |   |
|-------------|--|---|---|
| _____       | _____  | _____                                     | X |
| _____       | _____  | _____                                     |   |

E. OTHER (Itemize any other major expenses not covered above or by invoice.)

| <u>Item</u> | <u>Cost</u> |   |
|-------------|-------------|---|
| _____       | _____       |   |
| _____       | _____       |   |
| _____       | _____       |   |
| _____       | _____       | X |

TOTAL = \$6,502.80

*ND*  
7-28-76

MONTHLY COST SUMMARY

Project, Percol  
(County)

Ariz  
(State) JWS

Superior East

DIRECT DRILLING (Acct. 521-)

CONTRACTORS' CHARGES

Invoiced during month covering current month's work.

Contractors' Services

Statement Amt.

Estimated balance of contractors' charges covering work through end of current month

Contractors' Services

Estimated Cost

Supplies and Freight

Field Trailer Rental

Water Purchases (Drilling)

SITE PREPARATION (Acct. 580-)

CONTRACTORS' CHARGES

Invoiced during month covering current month's work.

Contractors' Services

Statement Amt.

Estimated balance of contractors' charges covering work through end of current month

Contractors' Services

Estimated Cost

Paul Bryant Contracting (ad's site to A-8)

6100<sup>00</sup>

Supplies and Freight



July 76

2000 199.23



EXPLORATION AUTHORIZATION NO. 0010-11  
 SUPERIOR EAST PROJECT  
 PINAL COUNTY, ARIZONA

TUCSON OFFICE

July - 1976

| Account No. | Item                                   | This Month | This Year   | Total To Date |
|-------------|--|------------|-------------|---------------|
| 501-48      | Outright Purchases - Other             | \$         | \$          | \$            |
| 507-15      | Staking Claims - Wages                 |            | 341 25      |               |
| 507-20      | - Supplies                             |            |             |               |
| 507-29      | - Traveling                            |            | 104 00      |               |
| 507-35      | - Add. Labor                           |            | 25 59       |               |
| 507-40      | - Taxes                                |            |             |               |
| 521-10      | Surface Drilling - Salaries            |            | 1 068 53    |               |
| 521-15      | - Wages                                |            |             |               |
| 521-20      | - Supplies                             |            | 86 06       |               |
| 521-25      | - Services                             |            | 25 706 52   |               |
| 521-29      | - Traveling                            |            | 106 15      |               |
| 521-30      | - Communications                       |            |             |               |
| 521-35      | - Add. Labor                           |            | 203 81      |               |
| 521-40      | - Taxes                                |            | 35 00       |               |
| 530-10      | Geology - Salaries                     |            | 2 693 00    |               |
| 530-29      | - Traveling                            |            | 117 90      |               |
| 530-35      | - Add. Labor                           |            | 511 57      |               |
| 540-10      | Sampling, Assaying, Lab. - Salaries    |            | 274 00      |               |
| 540-15      | - Wages                                |            |             |               |
| 540-20      | - Supplies                             |            |             |               |
| 540-25      | - Services                             |            | 283 22      |               |
| 540-29      | - Traveling                            |            |             |               |
| 540-30      | - Communications                       |            |             |               |
| 540-34      | - Freight                              |            |             |               |
| 540-35      | - Add. Labor                           |            | 41 43       |               |
| 540-40      | - Taxes                                |            |             |               |
| 550-10      | Geophysics - Salaries                  |            | 500 90      |               |
| 550-29      | - Traveling                            |            | 69 85       |               |
| 550-35      | - Add. Labor                           |            | 107 09      |               |
| 560-20      | Geochemistry - Supplies                |            |             |               |
| 560-40      | - Taxes                                |            |             |               |
| 570-10      | Engineering - Salaries                 |            | 1 259 76    |               |
| 570-20      | - Supplies                             |            | 698         |               |
| 570-25      | - Services                             |            |             |               |
| 570-29      | - Traveling                            |            | 47 00       |               |
| 570-35      | - Add. Labor                           |            | 270 92      |               |
| 570-40      | - Taxes                                |            | 42          |               |
| 580-10      | Construction (Temporary) - Salaries    |            |             |               |
| 580-25      | - Services                             |            |             |               |
| 580-29      | - Traveling                            |            |             |               |
| 580-35      | - Add. Labor                           |            |             |               |
| 610-10      | Field Administration - Salaries        |            | 564 00      |               |
| 610-20      | - Supplies                             |            | 1 309 81    |               |
| 610-25      | - Services                             |            | 5846 55     |               |
| 610-29      | - Traveling                            |            | 258 95      |               |
| 610-30      | - Communications                       |            | 336 57      |               |
| 610-35      | - Add. Labor                           |            | 108 18      |               |
| 610-40      | - Taxes                                |            | 8 85        |               |
| 620-10      | General Administration - Salaries      |            | 1 253 00    |               |
| 620-15      | - Wages                                |            |             |               |
| 620-20      | - Supplies                             |            | 99 78       |               |
| 620-25      | - Services                             |            | 289 00      |               |
| 620-29      | - Traveling                            |            |             |               |
| 620-30      | - Communications                       |            |             |               |
| 620-34      | - Freight                              |            |             |               |
| 620-35      | - Add. Labor                           |            | 256 41      |               |
| 620-40      | - Taxes                                |            | 15 07       |               |
| 620-48      | - Other                                |            |             |               |
| 641-20      | Distributable Accounts Auto - Supplies |            | 789 92      |               |
| 641-40      | - Taxes                                |            | 296         |               |
|             |  | \$         | \$45 000 00 | \$            |

Authorized Expended \$ 45000 00  
 Balance Unexpended \$ 45000 00

Orig: TCOsborne  
 cc: RR, NV, RBM, TES, FTG, File-2

# BRYANT CONSTRUCTION CO.

GENERAL CONTRACTORS — LIC. NO. A-43332  
 843 SPRAY STREET  
 SUPERIOR, ARIZONA 85273  
 PHONE 689-2627

SUPERIOR EAST

W. G. K.

JUL 30 1976

1772

*7-30-76  
NPLW*

Sold To ASARCO Incorporated  
Box 5747  
Tucson, Arizona 85703

|                  |               |
|------------------|---------------|
| DATE             | July 28, 1976 |
| CUSTOMER'S ORDER | A-8 T-76-251  |
| SALESMAN         |               |
| TERMS            |               |
| F.O.B.           |               |
| SHIPPED VIA      |               |

Shipped To Devils Canyon Project:

Men & Equipment @ \$430.00 per day

|         |   |        |         |    |
|---------|---|--------|---------|----|
| Jul. 1  | drilling on drill site  | 8 hrs  |         |    |
| 2       | drilling on drill site  | 8      |         |    |
| 3       | drilling & blasting road to drill site & drill site.          | 8      |         |    |
| 4       | drilling & blasting ledge on road by old Coffey drill site    | 8      |         |    |
| 5       | drilling & Blasting ledge on road by old Coffey drill site    | 10     |         |    |
| 6       | drilling & blasting ledge on road by old Coffey drill site    | 8      |         |    |
| 7       | drilling & blasting ledge on road by old Coffey drill site    | 8      |         |    |
| 8       | drill & blast road from Coffey drill site east to top of hill | 4      |         |    |
| 9       | drill & blast road from Coffey drill site east to top of hill | 8      |         |    |
|         |   | 70 hrs | \$3,762 | 50 |
|         | 10 Wheel Dump Truck @ \$25.00 Hour                            |        |         |    |
| Jul. 10 | haul fines from dirt tank & spread on road above Coffey site  | 4 hrs  | 100     | 00 |
|         | D8H Dozer & Ripper @ \$42.50 Hour                             |        |         |    |
| Jul. 3  | repair road from Hwy. 60-7- to Coffey drill site              | 8 hrs  |         |    |
| 4       | repair road from Hwy. 60-7- to Coffey drill site              | 6      |         |    |
| 5       | level shot on drill site                                      | 4      |         |    |
| 6       | repair road from pond north to Y                              | 3      |         |    |
| 6       | new road from pond to drill                                   | 2      |         |    |
| 7       | new road from pond to drill                                   | 2      |         |    |
| 8       | new road from pond to drill                                   | 2      |         |    |

Rediform

75 737  
 Poly Pak (50 sets) 7P737

## INVOICE

**BRYANT CONSTRUCTION CO.**  
 GENERAL CONTRACTORS — LIC. NO. A-43332  
 843 SPRAY STREET  
 SUPERIOR, ARIZONA 85273  
 PHONE 689-2627

W. G. K.

JUL 30 1976

1773

DATE  
 July 28, 1976

CUSTOMER'S ORDER

A-8 T-76-251

SALESMAN

TERMS

F.O.B.

SHIPPED VIA

Sold To

ASARCO Incorporated

Box 5747

Tucson, Arizona 85703

Shipped To

Devils Canyon Project:

D8H Dozer & Ripper @ \$42.50 Hour

|        |  |        |         |        |
|--------|--|--------|---------|--------|
| Jul. 8 | mud pits at drill site                                 | 1 hr   |         |        |
| 10     | road repair from Coffey drill site to top of hill east | 4      |         |        |
|        |  | 32 hrs | \$1,360 | 00     |
|        | Total  |        | \$5,222 | 50     |
|        | 4% State Tax   |        |         | 208 90 |
|        | Blasting Supplies                                      |        |         | 615 89 |
|        | Mobilization on dozer                                  |        |         | 210 00 |
|        | Total  |        | \$6,257 | 29     |

ACCESS RD. AND  
SITE FOR A-8

**SUPERIOR EAST**

APPROVED FOR PAYMENT

By: N. P. Whaley  
 (Signature) 7-30-76

APPROVED FOR PAYMENT

By: \_\_\_\_\_  
 (Signature)

A-8, road from pond to site  $\approx$  2595.00  
 Project road repair Hwy-pond  $\approx$  3662.29  
 \$ 6,257.29

Rediform

7S 737

Poly Pak (50 sets) 7P737

INVOICE

EXPLORATION AUTHORIZATION NO. 0010-12  
 SUPERIOR EAST PROJECT  
 PINAL COUNTY, ARIZONA

207.00  
 14.25  
 24.96  
 82.74  
 3924.827 = 82.74

TUCSON OFFICE  
 July - 1976

| Account No.         | Item                                   | This Month | This Year   | Total To Date |
|---------------------|--|------------|-------------|---------------|
| 521-10              | Surface Drilling - Salaries            | \$ 74.00   | 148.00      |               |
| 521-15              | - Wages                                |            |             |               |
| 521-20              | - Supplies                             |            |             |               |
| 521-25              | - Services                             | 1072.50    | 1072.50     |               |
| 521-34              | - Freight                              |            |             |               |
| 521-35              | - Add. Labor                           | 13.97      | 28.08       |               |
| 521-40              | - Taxes                                | 42.90      | 42.90       |               |
| 530-10              | Geology - Salaries                     | 207.00     | 207.00      |               |
| 530-29              | - Traveling                            | 14.25      | 14.25       |               |
| 530-35              | - Add. Labor                           | 26.96      | 26.96       |               |
| 540-10              | Sampling, Assaying, Lab. - Salaries    |            |             |               |
| 540-20              | - Supplies                             |            |             |               |
| 540-25              | - Services                             |            |             |               |
| 540-29              | - Traveling                            |            |             |               |
| 580-20              | Construction (Temporary) - Supplies    | 1.58       | 1.58        |               |
| 580-25              | - Services                             | 4975.89    | 4975.89     |               |
| 580-35              | - Add. Labor                           |            |             |               |
| 580-40              | - Taxes                                | 166.08     | 166.08      |               |
| 610-10              | Field Administration - Salaries        |            |             |               |
| 610-15              | - Wages                                |            |             |               |
| 610-20              | - Supplies                             |            |             |               |
| 610-25              | - Services                             |            |             |               |
| 610-29              | - Traveling                            |            |             |               |
| 610-30              | - Communications                       | 76.15      | 76.15       |               |
| 610-34              | - Freight                              |            |             |               |
| 610-35              | - Add. Labor                           |            |             |               |
| 610-40              | - Taxes                                |            |             |               |
| 620-10              | Administration, General - Salaries     |            |             |               |
| 620-15              | - Wages                                |            |             |               |
| 620-20              | - Supplies                             | 1.09       | 1.09        |               |
| 620-25              | - Services                             | 3.50       | 3.50        |               |
| 620-35              | - Add. Labor                           |            |             |               |
| 620-40              | - Taxes                                |            |             |               |
| 641-20              | Distributable Accounts Auto - Supplies | 40.14      | 460.81      |               |
| 641-40              | - Taxes                                | 0.1        | 6.38        |               |
| 506-48              | Rental Payments - Other                | 548.28     | 548.28      |               |
|                     | Stab Lease A-3                         |            |             |               |
|                     |  | \$ 7156.41 | \$ 11514.43 |               |
| Authorized Expended |  | 4358.02    |             | \$ 120000.00  |
| Balance Unexpended  |  |            |             | \$ 11514.43   |
|                     |  |            |             | \$ 108485.57  |

Orig: TC Osborne  
 cc: RR, NV, RBM, TES, FTG, File-2  
 20-48 Administration, General - Other

25.00) 25.00

A-8 rd & site preparation  
 A-8 Project Road repairs cleanup

MONTHLY COST SUMMARY

SUPERIOR EAST

Project, PINAL  
(County)

ARZ  
(State)

A. DIRECT DRILLING (Acct. 521-)

CONTRACTORS' CHARGES

Invoiced during month covering current month's work

Contractors' Services

Statement Amt.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

X

Estimated balance of contractors' charges covering work through end of current month

Contractors' Services

Estimated Cost

Joy Mfg. Co. (DRILLING A-8 FROM  
0-1334')

\$ 22,472.98

\$ 22,472.98

Supplies and Freight

\_\_\_\_\_

\_\_\_\_\_

X

Field Trailer Rental

\_\_\_\_\_

\_\_\_\_\_

X

Water Purchases (Drilling)

\_\_\_\_\_

\_\_\_\_\_

X

B. SITE PREPARATION (Acct. 580-)

CONTRACTORS' CHARGES

Invoiced during month covering current month's work

Contractors' Services

Statement Amt.

\_\_\_\_\_

\_\_\_\_\_

X

Estimated balance of contractors' charges covering work through end of current month

Contractors' Services

Estimated Cost

\_\_\_\_\_

\_\_\_\_\_

X

Supplies and Freight

\_\_\_\_\_

\_\_\_\_\_

X

EMPLERS, SAMPLING, SAMPLE PREPARATION, ASSAYING (Acct. 540-)

Jobs (Temporary Help)

| <u>Name</u> | <u>No. of Straight Time Hours During Month</u> | <u>No. of Overtime Hours During Month</u> |          |
|-------------|--|---|----------|
| _____       | _____  | _____                                     | <u>X</u> |

Assaying

| <u>Assayer</u>     | <u>Charge or Estimated Expense for Assaying Performed During Month</u> |          |
|--------------------|--|----------|
| <u>SEE JD SELL</u> | _____  | <u>?</u> |

CLAIM STAKING, VALIDATION (Acct. 507-)

Invoiced during month covering current month's work

| <u>Contractors' Services</u> | <u>Statement Amt.</u> |          |
|------------------------------|-----------------------|----------|
| _____                        | _____                 | <u>X</u> |

Estimated balance of contractors' charges covering work through end of current month

| <u>Contractors' Services</u> | <u>Estimated Cost</u> |          |
|------------------------------|-----------------------|----------|
| _____                        | _____                 | <u>X</u> |

Wages

| <u>Name</u> | <u>No. of Straight Time Hours During Month</u> | <u>No. of Overtime Hours During Month</u> |          |
|-------------|--|---|----------|
| _____       | _____  | _____                                     | <u>X</u> |

OTHER (Itemize any other major expenses not covered above or by invoice.)

| <u>Item</u>                               | <u>Cost</u>      |
|---|------------------|
| <u>U-HAUL TRAILER (ORACLE RD. RENTAL)</u> | <u>\$ 264.40</u> |
| <u>FOR PERIOD 8-9-76 TO 9-20-76</u>       | <u>\$ 264.40</u> |

**TOTAL = \$ 22,737.38**

**SAY \$ 23,000.00**

*APD*  
*8-27-76*

26th July thru  
25th August 1976

PROJECT Superior East (0010)

HOLE NO. A-8

CONTRACTOR Joy Manufacturing Co.

I. Footage:

|             |               |                |
|-------------|---------------|----------------|
| NCWL 0-500' | @ #12.40/foot | \$ 16200.00    |
| 500'-1000'  | @ 12.80/foot  | \$ 6400.00     |
| 1000'-1334' | @ 13.40/foot  | \$ 4475.00     |
| Sub-Total   |               | = \$ 17,075.00 |

II. Rig Time:

|                 |         |             |               |
|-----------------|---------|-------------|---------------|
| a) Cementing    | 65 Hrs  | @ #24.00/hr | \$ 1560.00    |
| b) Conditioning |         |             | \$            |
| c) Casing       | 0.5 Hrs | # 24.00/hr  | \$ 12.00      |
| d) Standby      | 9 Hrs   | # 18.00/hr  | \$ 162.00     |
| Sub-Total       |         |             | = \$ 1,734.00 |

III. Materials:

|              |     |            |               |
|--------------|-----|------------|---------------|
| Mud Gel      | 138 | @ \$3.00   | \$ 414.00     |
| Hy-Seal      | 1   | @ \$13.37  | \$ 13.37      |
| Cellex       | 5   | @ \$152.93 | \$ 764.65     |
| CC-16        | 3   | @ \$24.25  | \$ 72.75      |
| Con Det      | 1   | @ \$47.11  | \$ 47.11      |
| Kwik Seal    | 4   | @ \$23.72  | \$ 94.88      |
| Portland     | 2   | @ \$3.77   | \$ 7.54       |
| Cal Seal     | 17  | @ \$26.92  | \$ 457.64     |
| Dextrid      | 4   | @ \$55.24  | \$ 220.96     |
| Soda Ash     | 2   | @ \$21.23  | \$ 42.46      |
| Caustic Soda | 2   | @ \$33.03  | \$ 66.06      |
| Cement       | 5   | @ \$3.77   | \$ 18.85      |
| Q Broxin     | 1   | @ \$31.15  | \$ 31.15      |
| Driscose     | 2   | @ \$132.98 | \$ 265.96     |
| Sub-Total    |     |            | = \$ 2,517.38 |

IV. Water:

|                 |           |              |             |
|-----------------|-----------|--------------|-------------|
| a) Truck Rental | 21 days   | @ #12.00/day | \$ 252.00   |
| b) Mileage      | 912 miles | @ .40/Mile   | \$ 364.80   |
| c) Water        | 76 Loads  | @ 1.70/Load  | \$ 129.20   |
| Sub-Total       |           |              | = \$ 746.00 |

V. Miscellaneous:

|                 |           |             |
|-----------------|-----------|-------------|
| a) Mobilization | @ #400.00 | \$ 400.00   |
| b)              |           | \$          |
| c)              |           | \$          |
| Sub-Total       |           | = \$ 400.00 |

Total for Period = \$ 22,472.98



# JOY MANUFACTURING COMPANY

OLIVER BUILDING  
PITTSBURGH, PENNSYLVANIA 15222

9-10-76  
APW

PLEASE REMIT TO  
P. O. BOX 360135M  
PITTSBURGH, PA. 15250

CUSTOMER'S ORDER NO.

T-76-302

DATE

REQ. NO.

DATE

AT REC. POINT

B.O.NO.

CONTRACT

CODE

OUR  
ORD'R  
NO.

DATE

AT SHIP POINT

99 69 05 03 02 209

02250

SOLD  
TO

ASARCO Inc.  
P. O. Box 5747  
Tucson, Arz. 85703.  
Attention: Mr. N. P. Whaley

TERMS NET 30 DAYS  
NO CASH DISCOUNT

INVOICE NO. 05115958

INVOICE DATE 9/3/76

SHIPPED  
TO

Superior, AZ

PLEASE REMIT TO  
P. O. BOX 360135M  
PITTSBURGH, PA. 15250

DATE SHIPPED

SHIPPED VIA

P. O. ADDRESS

MARKS

REQUESTED ROUTING

SHIPPED FROM Michigan City, IN

| ORIGINAL QUANTITY ORDERED | PART NUMBER                      | DESCRIPTION   | CODE                    | UNIT PRICE        | QUANTITY BACK ORDERED | QUANTITY SHIPPED | AMOUNT            |  |
|---------------------------|----------------------------------|---|-------------------------|-------------------|-----------------------|------------------|-------------------|--|
|                           |                                  | 1334.1' core drilling at Superior, Arizona for period ending August 25 1976 as per agreement. |                         |                   |                       |                  |                   |  |
|                           | <u>PROSPECT NO.</u>              | <u>FROM</u>   | <u>TO</u>               | <u>TOTAL FEET</u> | <u>UNIT</u>           | <u>COST</u>      | <u>TOTAL COST</u> |  |
|                           | A-8                              | 6 1/4" RB   | 0 ✓                     | 11.               | 12                    | 40               | \$ 136.40         |  |
|                           |                                  | NC  | 11.                     | 500.              | 12                    | 40               | 6,063.60          |  |
|                           |                                  | NC  | 500.                    | 1000.             | 12                    | 80               | 6,400.00          |  |
|                           |                                  | NC  | 1000.                   | 1334. ✓           | 13                    | 40               | 4,475.60          |  |
|                           |                                  |   |                         |                   |                       |                  | 17,075.60         |  |
|                           | <u>CEMENTING AND/OR PLUGGING</u> |   |                         |                   |                       |                  |                   |  |
|                           | A-8                              | August 7  | 11 hours                |                   |                       |                  |                   |  |
|                           |                                  | August 9  | 15 hours                |                   |                       |                  |                   |  |
|                           |                                  | August 10   | 1 hour                  |                   |                       |                  |                   |  |
|                           |                                  | August 11   | 23 hours                |                   |                       |                  |                   |  |
|                           |                                  | August 12   | 5 hours                 |                   |                       |                  |                   |  |
|                           |                                  | August 13   | 14 hours                |                   |                       |                  |                   |  |
|                           |                                  | August 14   | 2 hours                 |                   |                       |                  |                   |  |
|                           |                                  |   | 71 hours @ \$24.00/hour |                   |                       |                  | 1,704.00          |  |
|                           | <u>SET AND PULL CASING</u>       |   |                         |                   |                       |                  |                   |  |
|                           | A-8                              | August 5  | 1/2 hour @ \$24.00/hour |                   |                       |                  | 12.00             |  |

F. O. B. SHIPPING POINT UNLESS OTHERWISE SPECIFIED

NO RETURNS ALLOWED UNLESS AUTHORIZED BY THIS OFFICE

09007

GOODS COVERED BY THIS INVOICE WERE PRODUCED IN COMPLIANCE WITH THE REQUIREMENTS OF THE FAIR LABOR STANDARDS ACT OF 1938, AS AMENDED, INCLUDING SECTION 12(A).





EXPLORATION AUTHORIZATION NO. 0010-12  
 SUPERIOR EAST PROJECT  
 PINAL COUNTY, ARIZONA

TUCSON OFFICE

August - 1970

| Account No. | Item                                   | This Month        | This Year         | Total To Date |
|-------------|--|-------------------|-------------------|---------------|
| 506-48      | Rental Payments - Other                | \$                | \$ 548 28         | \$            |
| 521-10      | Surface Drilling - Salaries            | 280 60            | 428 60            |               |
| 521-20      | - Supplies                             | 10 29             | 10 29             |               |
| 521-25      | - Services                             | 2263 27           | 23703 77          |               |
| 521-29      | - Traveling                            | 23 50             | 23 50             |               |
| 521-34      | - Freight                              |                   |                   |               |
| 521-35      | - Add. Labor                           | 53 45             | 81 54             |               |
| 521-40      | - Taxes                                |                   | 41                | 43 31         |
| 530-10      | Geology - Salaries                     | 879 00            | 1086 00           |               |
| 530-20      | - Supplies                             |                   |                   |               |
| 530-29      | - Traveling                            | 93 07             | 107 32            |               |
| 530-35      | - Add. Labor                           | 120 63            | 147 59            |               |
| 530-40      | - Taxes                                |                   |                   |               |
| 540-15      | Sampling, Assaying, Lab. - Wages       | 33 20             | 33 20             |               |
| 540-20      | - Supplies                             | 6 60              | 6 60              |               |
| 540-25      | - Services                             | 264 40            | 264 40            |               |
| 540-29      | - Traveling                            |                   |                   |               |
| 540-35      | - Add. Labor                           | 2 49              | 2 49              |               |
| 540-40      | - Taxes                                |                   | 40                | 40            |
| 570-10      | Engineering - Salaries                 |                   |                   |               |
| 570-20      | - Supplies                             |                   |                   |               |
| 570-35      | - Add. Labor                           | 1 93              | 1 93              |               |
| 580-20      | Construction (Temporary) - Supplies    |                   | 1 58              |               |
| 580-25      | - Services                             |                   | 49 75 89          |               |
| 580-40      | - Taxes                                |                   | 16 08             |               |
| 610-10      | Field Administration - Salaries        |                   | 935 62            |               |
| 610-15      | - Wages                                |                   | 15 00             |               |
| 610-20      | - Supplies                             | 17 21             | 623 56            |               |
| 610-25      | - Services                             | 13 19             | 1612 73           |               |
| 610-30      | - Communications                       | 29 83             | 105 98            |               |
| 610-35      | - Add. Labor                           | 8 46              | 187 78            |               |
| 610-40      | - Taxes                                |                   | 100 20            |               |
| 620-10      | General Administration - Salaries      | 93 00             | 323 00            |               |
| 620-15      | - Wages                                | 5 20              | 5 20              |               |
| 620-20      | - Supplies                             |                   | 1 09              |               |
| 620-25      | - Services                             | 9 00              | 12 50             |               |
| 620-35      | - Add. Labor                           | 16 09             | 59 96             |               |
| 620-40      | - Taxes                                |                   | 07                |               |
| 620-48      | - Other                                |                   | 25 00             |               |
| 641-20      | Distributable Accounts Auto - Supplies | 182 85            | 643 66            |               |
| 641-40      | - Taxes                                | 2 31              | 8 69              |               |
|             |  | <u>\$24778 38</u> | <u>\$36292 51</u> | \$            |

Authorized  
 Expended  
 Balance Unexpended

\$ 120000 00  
36292 81  
 \$ 83707 19

Orig: TCOsborne  
 cc: RR, NV, CWC, TES, FTG, File-2

SOUTHWESTERN EXPLORATION DIVISION

26th AUG thru  
25th SEPT, 1976

MONTHLY COST SUMMARY

SUPERIOR EAST Project, PINAL, ARZ.  
(County) (State)

A. DIRECT DRILLING (Acct. 521-)

CONTRACTORS' CHARGES

Invoiced during month covering current month's work

Contractors' Services

JOY MFG. Co. (A-B-(0-1334'))  
LESS ASARCO EST TO 8-25-76  
BALANCE DUE

Statement Amt.

\$ 22,631.27  
22,472.98  
158.29

\$ 158.29

Estimated balance of contractors' charges covering work through end of current month

Contractors' Services

JOY MFG. Co. (DRILLING A-B FR/1334'-2401')  
\_\_\_\_\_  
\_\_\_\_\_

Estimated Cost

\$ 20,000.00  
\_\_\_\_\_  
\_\_\_\_\_

\$ 20,000.00

Supplies and Freight

\_\_\_\_\_  
\_\_\_\_\_

X

Field Trailer Rental

\_\_\_\_\_  
\_\_\_\_\_

X

Water Purchases (Drilling)

\_\_\_\_\_  
\_\_\_\_\_

X

B. SITE PREPARATION (Acct. 580-)

CONTRACTORS' CHARGES

Invoiced during month covering current month's work

Contractors' Services

\_\_\_\_\_  
\_\_\_\_\_

Statement Amt.

\_\_\_\_\_  
\_\_\_\_\_

X

Estimated balance of contractors' charges covering work through end of current month

Contractors' Services

\_\_\_\_\_  
\_\_\_\_\_

Estimated Cost

\_\_\_\_\_  
\_\_\_\_\_

X

Supplies and Freight

\_\_\_\_\_  
\_\_\_\_\_

X

C. SAMPLERS, SAMPLING, SAMPLE PREPARATION, ASSAYING (Acct. 540-)

Wages (Temporary Help)

| <u>Name</u> | <u>No. of Straight Time Hours During Month</u> | <u>No. of Overtime Hours During Month</u> |
|-------------|--|---|
| _____       | _____  | _____                                     |
| _____       | _____  | _____                                     |

X

Assaying

| <u>Assayer</u>     | <u>Charge or Estimated Expense for Assaying Performed During Month</u> |
|--------------------|--|
| <u>SEE JD SELL</u> | _____  |
| _____              | _____  |

?

D. CLAIM STAKING, VALIDATION (Acct. 507-)

Invoiced during month covering current month's work

| <u>Contractors' Services</u> | <u>Statement Amt.</u> |
|------------------------------|-----------------------|
| _____                        | _____                 |
| _____                        | _____                 |

X

Estimated balance of contractors' charges covering work through end of current month

| <u>Contractors' Services</u> | <u>Estimated Cost</u> |
|------------------------------|-----------------------|
| _____                        | _____                 |
| _____                        | _____                 |

X

Wages

| <u>Name</u> | <u>No. of Straight Time Hours During Month</u> | <u>No. of Overtime Hours During Month</u> |
|-------------|--|---|
| _____       | _____  | _____                                     |
| _____       | _____  | _____                                     |

X

E. OTHER (Itemize any other major expenses not covered above or by invoice.)

| <u>Item</u>   | <u>Cost</u>      |
|---|------------------|
| <u>ORALE ROAD RENT-ALL (RENTAL OF 5'x8' U-HAUL TRAILER F/CORE REPOSITORY)</u> | <u>\$ 245.00</u> |
| _____   | _____            |
| _____   | _____            |
| _____   | <u>\$ 245.00</u> |

TOTAL = \$ 20,403.29

SAY \$ 20,500.00

NPW  
9-28-76

EXPLORATION AUTHORIZATION NO. 0010-12  
 SUPERIOR EAST PROJECT  
 PINAL COUNTY, ARIZONA

TUCSON OFFICE

SEPTEMBER - 1970

| Account No. | Item                                   | This Month        | This Year         | Total To Date |
|-------------|--|-------------------|-------------------|---------------|
| 506-48      | Rental Payments - Other                | \$                | \$ 548 28         | \$            |
| 521-10      | Surface Drilling - Salaries            | 546 00            | 974 60            |               |
| 521-20      | - Supplies                             | 39 60             | 49 89             |               |
| 521-25      | - Services                             | 1816 83           | 41872 11          |               |
| 521-29      | - Traveling                            | 24 30             | 47 80             |               |
| 521-34      | - Freight                              |                   |                   |               |
| 521-35      | - Add. Labor                           | 108 78            | 190 32            |               |
| 521-40      | - Taxes                                |                   | 43 31             |               |
| 530-10      | Geology - Salaries                     | 569 00            | 1655 00           |               |
| 530-20      | - Supplies                             |                   |                   |               |
| 530-29      | - Traveling                            | 52 66             | 159 98            |               |
| 530-35      | - Add. Labor                           | 80 08             | 227 67            |               |
| 530-40      | - Taxes                                |                   |                   |               |
| 540-15      | Sampling, Assaying, Lab. - Wages       |                   | 33 20             |               |
| 540-20      | - Supplies                             |                   | 6 60              |               |
| 540-25      | - Services                             |                   | 264 40            |               |
| 540-29      | - Traveling                            |                   |                   |               |
| 540-35      | - Add. Labor                           |                   | 249               |               |
| 540-40      | - Taxes                                |                   | 40                |               |
| 570-10      | Engineering - Salaries                 |                   |                   |               |
| 570-20      | - Supplies                             |                   |                   |               |
| 570-35      | - Add. Labor                           |                   | 193               |               |
| 580-20      | Construction (Temporary) - Supplies    |                   | 1 58              |               |
| 580-25      | - Services                             |                   | 4975 89           |               |
| 580-40      | - Taxes                                |                   | 160 08            |               |
| 610-10      | Field Administration - Salaries        |                   | 935 62            |               |
| 610-15      | - Wages                                |                   | 15 00             |               |
| 610-20      | - Supplies                             |                   | 623 56            |               |
| 610-25      | - Services                             | 13 20             | 1625 93           |               |
| 610-30      | - Communications                       | 44 50             | 150 48            |               |
| 610-35      | - Add. Labor                           |                   | 187 78            |               |
| 610-40      | - Taxes                                |                   | 100 20            |               |
| 620-10      | General Administration - Salaries      | 142 00            | 465 00            |               |
| 620-15      | - Wages                                | 106 97            | 112 17            |               |
| 620-20      | - Supplies                             | 122 26            | 123 35            |               |
| 620-25      | - Services                             | 4 00              | 16 50             |               |
| 620-35      | - Add. Labor                           | 30 95             | 90 91             |               |
| 620-40      | - Taxes                                | 1 33              | 1 40              |               |
| 620-48      | - Other                                |                   | 25 00             |               |
| 641-20      | Distributable Accounts Auto - Supplies | 778 05            | 142 71            |               |
| 641-40      | - Taxes                                | 151 54            | 160 23            |               |
|             |  | <u>\$20983 56</u> | <u>\$57276 37</u> | \$            |

Authorized  
 Expended  
 Balance Unexpended

\$ 120000 00  
 57276 37  
\$ 62723 63

Orig: TCOsborne  
 cc: RR, NV, CWC, TES, FTG, File-2

MONTHLY COST SUMMARY

Superior East EA-0010 Project, Pinal (County), A. (State)

DRILLING (Acct. 521-)

CONTRACTORS' CHARGES

Invoiced during month covering current month's work

Contractors' Services

Statement Amt.

Jay Mfg Co. A-8 (1234-2401)  
Less ADARCA Est to 9-25-76  
Credit

\$ 18,168.34  
20,000.00  
(1,831.66)

(# 1,831.66 credit)

Estimated balance of contractors' charges covering work through end of current month

Contractors' Services

Estimated Cost

Jay Mfg Co. A-8 (2401-3478)  
\_\_\_\_\_  
\_\_\_\_\_

20,261.88  
\_\_\_\_\_  
\_\_\_\_\_

20,261.88

Supplies and Freight

X

Field Trailer Rental

X

Water Purchases (Drilling)

X

SITE PREPARATION (Acct. 580-)

CONTRACTORS' CHARGES

Invoiced during month covering current month's work

Contractors' Services

Statement Amt.

\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

X

Estimated balance of contractors' charges covering work through end of current month

Contractors' Services

Estimated Cost

\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

X

Supplies and Freight

X

SAMPLERS, SAMPLING, SAMPLE PREPARATION, ASSAYING (Acct. 540-)

Wages (Temporary Help)

| <u>Name</u> | <u>No. of Straight Time Hours During Month</u> | <u>No. of Overtime Hours During Month</u> |   |
|-------------|--|---|---|
| _____       | _____  | _____                                     | X |

Assaying

| <u>Assayer</u> | <u>Charge or Estimated Expense for Assaying Performed During Month</u> |   |
|----------------|--|---|
| _____          | _____  | X |

CLAIM STAKING, VALIDATION (Acct. 507-)

Invoiced during month covering current month's work

| <u>Contractors' Services</u> | <u>Statement Amt.</u> |   |
|------------------------------|-----------------------|---|
| _____                        | _____                 | X |

Estimated balance of contractors' charges covering work through end of current month

| <u>Contractors' Services</u> | <u>Estimated Cost</u> |   |
|------------------------------|-----------------------|---|
| _____                        | _____                 | X |

Wages

| <u>Name</u> | <u>No. of Straight Time Hours During Month</u> | <u>No. of Overtime Hours During Month</u> |   |
|-------------|--|---|---|
| _____       | _____  | _____                                     | X |

OTHER (Itemize any other major expenses not covered above or by invoice.)

| <u>Item</u>  | <u>Cost</u>      |           |
|--|------------------|-----------|
| <u>Oracle Road Rent-all (Rental of 5'x8' U-Haul Trailers F/One Bedouary)</u> | <u>\$ 245.00</u> |           |
| _____  | _____            |           |
| _____  | _____            | \$ 245.00 |

Total = \$ 18,675.22

Say \$20,000<sup>00</sup>

10/26/76

3

26<sup>th</sup> SEPTEMBER THRU  
1<sup>st</sup> OCTOBER, 1976

HOLE NUMBER A-8

PROJECT SUPERIOR EAST (0010)

CONTRACTOR JOY MANUFACTURING Co.

### DATA FR/DAILY DRILL REPORT

| DESCRIPTION:            | 2401' ← SEPTEMBER → NXE 796' @ 1970 13.70 = 1,356.30 3177' → ← 3197' → 3478' →<br>1970 14.90 = 7,450.00 3211.10 OCTOBER BX 281' @ 16.00 = 4,496.00 |                |    |    |    |    |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | TOTAL | PRICE | AMOUNT |    |      |    |           |        |                |        |    |    |    |    |    |       |       |
|-------------------------|--|----------------|----|----|----|----|----|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------|-------|--------|----|------|----|-----------|--------|----------------|--------|----|----|----|----|----|-------|-------|
|                         | 26   | 27             | 28 | 29 | 30 | 1  | 2  | 3 | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |       |       |        | 21 | 22   | 23 | 24        | 25     |                |        |    |    |    |    |    |       |       |
| FEET DRILLED            |  | 45             | 60 | 95 | 79 | 60 | 70 |   | 38 | 72 | 65 | 45 | 48 | 53 |    | 31 | 35 | 0  | 0  | 5  | 10 |    | 47 | 46 | 20 | 47    | 31    | 33     | 38 | 1073 |    | 16,513.40 |        |                |        |    |    |    |    |    |       |       |
| CEMENTING (FEET) HRS    |  |                |    |    |    |    |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |        |    |      |    |           |        |                |        |    |    |    |    |    |       |       |
| CONDITIONING + Plugging |  | 11             |    |    |    |    |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |        |    |      |    | 11 hrs    | 24.00  | 264.00         |        |    |    |    |    |    |       |       |
| CASING                  |  |                |    |    |    |    |    |   |    |    |    |    |    |    |    | 4  | 15 |    | 5  |    |    |    |    |    |    |       |       |        |    |      |    |           | 24 hrs | 24.00          | 576.00 |    |    |    |    |    |       |       |
| DELAY                   |  |                |    |    |    |    |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |        |    |      |    |           | 15     | Not Applicable |        |    |    |    |    |    |       |       |
| Con Det 5gal            |  |                |    |    |    |    |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |        |    |      |    |           | 1      | 52.76          | 52.76  |    |    |    |    |    |       |       |
| Dextrod                 |  | 1              |    | 1  | 1  | 1  |    |   |    |    |    | 2  |    |    |    |    |    |    |    |    |    |    |    |    |    | 1     |       | 1      |    |      |    |           | 9      | 23.53          | 571.77 |    |    |    |    |    |       |       |
| Mud Gel                 |  | 11             | 8  | 7  | 5  | 6  | 4  |   | 5  | 4  | 4  | 5  | 4  | 5  |    | 6  | 8  |    |    |    |    |    |    |    | 2  | 5     | 6     | 2      | 6  | 2    | 3  | 6         | 114    | 3.00           | 342.00 |    |    |    |    |    |       |       |
| Kwik Seal 40"           |  | 1              |    | 1  |    |    |    |   | 1  |    | 1  |    |    |    |    |    |    |    | 1  |    |    |    |    |    |    |       |       |        |    |      | 1  |           | 6      | 23.72          | 142.32 |    |    |    |    |    |       |       |
| CC-110                  |  | No Circulation |    |    |    |    |    |   |    | 1  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |        |    |      |    |           | 3      | 24.25          | 72.75  |    |    |    |    |    |       |       |
| Caustic Soda            |  | 1              |    |    |    |    |    |   |    |    |    |    | 1  |    |    |    |    |    |    |    |    |    |    |    |    |       |       |        |    |      |    |           | 2      | 33.03          | 66.06  |    |    |    |    |    |       |       |
| Soda Ash 100"           |  | 1              |    |    |    |    |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |        |    |      |    |           | 4      | 21.23          | 84.92  |    |    |    |    |    |       |       |
| Cellex                  |  | 1              |    | 1  |    |    |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 1     |       |        |    |      |    |           | 6      | 152.93         | 917.58 |    |    |    |    |    |       |       |
| Tororo Trim 5gal        |  |                |    |    |    |    |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |        |    |      |    |           | 2      | 68.90          | 137.80 |    |    |    |    |    |       |       |
| Fiscal                  |  |                |    |    |    |    |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |        |    |      |    |           | 3      | 23.00          | 69.00  |    |    |    |    |    |       |       |
| Hysal                   |  |                |    |    |    |    |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |        |    |      |    |           | 1      | 16.30          | 16.30  |    |    |    |    |    |       |       |
| Quick Seal              |  |                |    |    |    |    |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |        |    |      |    |           | 1      | 23.72          | 23.72  |    |    |    |    |    |       |       |
| Soluble Oil 25gal       |  |                |    |    |    |    |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |        |    |      |    |           | 1      | 1.50           | 1.50   |    |    |    |    |    |       |       |
| LOADS OF WATER          |  | 3p             | 4p | 3p | 2p | 4p | 3p |   | 3p | 2p | 1p | 2p | 2p | 2p |    | 2p | 1c |    |    |    |    |    |    |    |    |       |       |        |    |      |    |           | 2c     | 2c             | 1c     | 2c | 1p | 1p | 2p | 5c | 17.00 | 10.00 |
| TOTAL                   |  |                |    |    |    |    |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |        |    |      |    |           | (39p)  |                |        |    |    |    |    |    |       |       |

Truck rental at 300<sup>00</sup>/mo 4080/mo (100) = 4080 + 360 = 4440

20, 24, 1.88





# JOY MANUFACTURING COMPANY

OLIVER BUILDING  
PITTSBURGH, PENNSYLVANIA 15222

PLEASE REMIT TO  
P. O. BOX 360135M  
PITTSBURGH, PA. 15250

|                      |      |          |      |               |         |
|----------------------|------|----------|------|---------------|---------|
| CUSTOMER'S ORDER NO. | DATE | REQ. NO. | DATE | AT REC. POINT | B.O.NO. |
| T-76-302<br>CONTRACT |      |          |      |               |         |
| 99                   | 69   | 05       | 03   | 02            | 209     |

W.G.R.  
10/6/76

02250  
SOLD TO  
Asarco, Inc.  
P.O. Box 5747  
Tucson, Arizona 85705  
Attn: Mr. N. P. Whaley

TERMS NET 30 DAYS  
NO CASH DISCOUNT

INVOICE NO. 05116015

INVOICE DATE 9/30/76

SHIPPED TO  
Superior, Arizona

PLEASE REMIT TO  
P. O. BOX 360135M  
PITTSBURGH, PA. 15250

DATE SHIPPED

SHIPPED VIA

P. O. ADDRESS

MARKS

REQUESTED ROUTING

SHIPPED FROM Michigan City, Indiana

| ORIGINAL QUANTITY ORDERED   | PART NUMBER | DESCRIPTION                      | CODE    | UNIT PRICE | QUANTITY BACK ORDERED | QUANTITY SHIPPED | AMOUNT   |
|---|-------------|----------------------------------|---------|------------|-----------------------|------------------|----------|
| To 1067'. Core Drilling at Superior, Arizona for Period Ending September 25, 1976 as Per Agreement. |             |                                  |         |            |                       |                  |          |
| PROSPECT #  |             | FROM                             | TO      | TOTAL FEET | UNIT COST             | TOTAL COST       |          |
| A-8   | NC          | 1334. ✓                          | 1500.   | 166. ✓     | 13.40 ✓               | 2224.40 ✓        |          |
|   | NC          | 1500.                            | 1971.   | 471. ✓     | 14.20 ✓               | 6688.20 ✓        |          |
|   | NX          | 1971.                            | 2000.   | 29. ✓      | 12.70 ✓               | 368.30 ✓         |          |
|   | NX          | 2000.                            | 2401. ✓ | 401. ✓     | 13.70 ✓               | 5493.70 ✓        |          |
| SET & PULL CASING   |             |                                  |         |            |                       |                  |          |
| A-8   | Sept. 15    | 8 Hr.                            |         |            |                       |                  |          |
|   | Sept. 16    | 5 Hr.                            |         |            |                       |                  |          |
|   |             | 13 ✓ Hr. @ 24.00/Hr.             |         |            |                       |                  | 312.00 ✓ |
| MUD & ADDITIVES USED  |             |                                  |         |            |                       |                  |          |
| A-8   | 175 → 177   | 50# Bags Drilling Mud @ 3.00/Bag |         |            |                       |                  | 531.00 ✓ |
|   |             | 3 ✓ 50# Bags CC-16 @ 24.25       |         |            |                       |                  | 72.75 ✓  |
|   |             | 6 ✓ 50# Bags Cellex @ 152.93     |         |            |                       |                  | 917.58 ✓ |
|   |             | 1 ✓ 5 Gal Can Con Det @ 52.76    |         |            |                       |                  | 52.76 ✓  |
|   |             | 6 ✓ 50# Bags Dextrid @ 63.53     |         |            |                       |                  | 381.18 ✓ |
|   |             | 2 ✓ 40# Bags Kwikseal @ 23.72    |         |            |                       |                  | 47.44 ✓  |
|   |             | 1 ✓ 100# Bag Soda Ash @ 21.23    |         |            |                       |                  | 21.23 ✓  |
|   |             | 1 ✓ 5 Gal Can Torg Trim @ 68.90  |         |            |                       |                  | 68.90 ✓  |
|   |             | 15 ✓ Gals Soluble Oil @ 1.50/Gal |         |            |                       |                  | 22.50 ✓  |
| WATER TRUCK RENTAL  |             |                                  |         |            |                       |                  |          |
|   | ?           | Aug. 26th Thru Sept. 25th        |         |            |                       |                  |          |
|   |             | 1 Truck @ 360.00/Mo              |         |            |                       |                  | 360.00 ✓ |
|   |             | 1516 Miles @ .40/Mile            |         |            |                       |                  | 606.40 ✓ |

**SUPERIOR EAST**  
APPROVED FOR PAYMENT

By: N. P. Whaley  
(Signature) 10-6-76

APPROVED FOR PAYMENT  
By: A. T. Whaley  
(Signature)

18,168.34

PURCHASE ORDER

Lester R Cox Drilling Contractors  
 RT1. Box 739, Miami az - 85539

No. 7953      Req. No. \_\_\_\_\_      Date 11-27 1976

To AS+R. Jim Sell      For Bid on Drill hole -  
 Address P.O. Box 5747      Sutter Summit area  
 Date Required \_\_\_\_\_

Ship To Tucson az - 85703      How Ship \_\_\_\_\_

Address \_\_\_\_\_      Terms \_\_\_\_\_

| QUANTITY ORDERED | QUANTITY RECEIVED | PLEASE SUPPLY ITEMS LISTED BELOW               | PRICE  | UNIT |
|------------------|-------------------|--|--------|------|
| 1                |                   | our Bid on approx 800 foot hole Drilled in     |        |      |
| 2                |                   | Daysete formation Sutter Summit area.          |        |      |
| 3                |                   | Mobilization + Demobilization -                | 300.   | 00   |
| 4                |                   | Drilling 5 1/2" hole -                         |        |      |
| 5                |                   |  |        |      |
| 6                |                   |  |        |      |
| 7                |                   | Rental on water Truck, 100, <sup>u</sup>       | 100    |      |
| 8                |                   | Based on Rate of 350. <sup>00</sup> a month.   |        |      |
| 9                |                   | Cementing in Drifpipe,                         | 50.    | 00   |
| 10               |                   |  |        |      |
| 11               |                   | Rental of 750 - C.F.M. + 250. PSI air          | 2,750. | 00   |
| 12               |                   | Compressor & R Equipment.                      |        |      |
| 13               |                   | Freight up here from Phoenix                   | 250.   | 00   |
| 14               |                   | Freight Back to Phoenix                        | 250.   | 00   |
| 15               |                   |  |        |      |
| 16               |                   | Drilling 5 1/2" hole with Down the hole hammer |        |      |
| 17               |                   | 7.00 a foot. for approx 800 feet.              | 5,600. | 00   |
| 18               |                   | I appreciate the chance to Bid on this job     |        |      |
| 19               |                   | Lester R Cox.                                  |        |      |
| 20               |                   |  |        |      |
| 21               |                   |  |        |      |
| 22               |                   |  |        |      |

**IMPORTANT**

OUR ORDER NUMBER MUST APPEAR ON ALL VOICES, PACKAGES, ETC.

PLEASE NOTIFY US IMMEDIATELY IF YOU ARE UNABLE TO SHIP COMPLETE ORDER BY DATE SPECIFIED.

Please Send \_\_\_\_\_ Copies Of Your Invoice With Original Bill Of Lading

Purchasing Agent

EXPLORATION AUTHORIZATION NO. 0010-12  
 SUPERIOR EAST PROJECT  
 PINAL COUNTY, ARIZONA

TUCSON OFFICE

*Oelster*  
 OCTOBER - 1970

| Account No. | Item                                   | This Month        | This Year         | Total To Date |
|-------------|--|-------------------|-------------------|---------------|
| 506-48      | Rental Payments - Other                | \$                | \$ 548 28         | \$            |
| 521-10      | Surface Drilling - Salaries            | 222 00            | 1191 60           |               |
| 521-20      | - Supplies                             | 338 16            | 388 05            |               |
| 521-25      | - Services                             | 2079 113          | 6216 54           |               |
| 521-29      | - Traveling                            | 15 62             | 63 42             |               |
| 521-34      | - Freight                              |                   |                   |               |
| 521-35      | - Add. Labor                           | 42 80             | 233 12            |               |
| 521-40      | - Taxes                                |                   | 43 31             |               |
| 530-10      | Geology - Salaries                     | 150 00            | 2305 00           |               |
| 530-20      | - Supplies                             |                   |                   |               |
| 530-29      | - Traveling                            | 92 07             | 252 05            |               |
| 530-35      | - Add. Labor                           | 87 27             | 314 96            |               |
| 530-40      | - Taxes                                |                   |                   |               |
| 540-15      | Sampling, Assaying, Lab. - Wages       |                   | 33 20             |               |
| 540-20      | - Supplies                             |                   | 6 60              |               |
| 540-25      | - Services                             | 161 33            | 425 73            |               |
| 540-29      | - Traveling                            |                   |                   |               |
| 540-35      | - Add. Labor                           |                   | 249               |               |
| 540-40      | - Taxes                                | 9 68              | 10 02             |               |
| 570-10      | Engineering - Salaries                 |                   |                   |               |
| 570-20      | - Supplies                             |                   |                   |               |
| 570-35      | - Add. Labor                           |                   | 193               |               |
| 580-20      | Construction (Temporary) - Supplies    |                   | 158               |               |
| 580-25      | - Services                             |                   | 497 82            |               |
| 580-40      | - Taxes                                |                   | 162 08            |               |
| 610-10      | Field Administration - Salaries        |                   | 935 62            |               |
| 610-15      | - Wages                                |                   | 15 00             |               |
| 610-20      | - Supplies                             |                   | 623 56            |               |
| 610-25      | - Services                             | 13 19             | 1639 12           |               |
| 610-30      | - Communications                       | 44 60             | 195 08            |               |
| 610-35      | - Add. Labor                           |                   | 187 78            |               |
| 610-40      | - Taxes                                |                   | 100 20            |               |
| 620-10      | General Administration - Salaries      | 93 00             | 558 00            |               |
| 620-15      | - Wages                                |                   | 112 17            |               |
| 620-20      | - Supplies                             |                   | 123 35            |               |
| 620-25      | - Services                             |                   | 16 50             |               |
| 620-35      | - Add. Labor                           | 12 09             | 103 00            |               |
| 620-40      | - Taxes                                |                   | 1 40              |               |
| 620-48      | - Other                                |                   | 25 00             |               |
| 641-20      | Distributable Accounts Auto - Supplies | 211 75            | 1233 46           |               |
| 641-40      | - Taxes                                | 34                | 160 57            |               |
|             |  | <u>\$22290 25</u> | <u>\$79546 72</u> | \$            |

Authorized  
 Expended  
 Balance Unexpended

\$ 12000 00  
 77566 72  
 \$ 40433 72

Orig: TCOsborne  
 cc: RR, NV, CWC, TES, FTG, File-2

JDS

SOUTHWESTERN EXPLORATION DIVISION

26th OCT thru  
25th Nov, 1976

MONTHLY COST SUMMARY

SUPERIOR EAST

Project, PINAL  
(County)

ARZ.  
(State)

A. DIRECT DRILLING (Acct. 521-)

CONTRACTORS' CHARGES

Invoiced during month covering current month's work

Contractors' Services

Statement Amt.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

X

Estimated balance of contractors' charges covering work through end of current month

Contractors' Services

Estimated Cost

Joy Mfg. Co. (DRILLING A-B: 3478'-4346')

\$ 20,000.00

\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

\$ 20,000.00

Supplies and Freight

ssa

\_\_\_\_\_

\_\_\_\_\_

X

Field Trailer Rental

\_\_\_\_\_

\_\_\_\_\_

X

Water Purchases (Drilling)

\_\_\_\_\_

\_\_\_\_\_

X

B. SITE PREPARATION (Acct. 580-)

CONTRACTORS' CHARGES

Invoiced during month covering current month's work

Contractors' Services

Statement Amt.

\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

X

Estimated balance of contractors' charges covering work through end of current month

Contractors' Services

Estimated Cost

\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

X

Supplies and Freight

Na

\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

X

C. SAMPLERS, SAMPLING, SAMPLE PREPARATION, ASSAYING (Acct. 540-)

Wages (Temporary Help)

| <u>Name</u> | <u>No. of Straight Time Hours During Month</u> | <u>No. of Overtime Hours During Month</u> |
|-------------|--|---|
| _____       | _____  | _____                                     |

X

Assaying

| <u>Assayer</u> | <u>Charge or Estimated Expense for Assaying Performed During Month</u> |
|----------------|--|
| SEE JD SELL    | _____  |

?

D. CLAIM STAKING, VALIDATION (Acct. 507-)

Invoiced during month covering current month's work

| <u>Contractors' Services</u> | <u>Statement Amt.</u> |
|------------------------------|-----------------------|
| _____                        | _____                 |

X

Estimated balance of contractors' charges covering work through end of current month

| <u>Contractors' Services</u> | <u>Estimated Cost</u> |
|------------------------------|-----------------------|
| _____                        | _____                 |

X

Wages

| <u>Name</u> | <u>No. of Straight Time Hours During Month</u> | <u>No. of Overtime Hours During Month</u> |
|-------------|--|---|
| _____       | _____  | _____                                     |

X

E. OTHER (Itemize any other major expenses not covered above or by invoice.)

| <u>Item</u>   | <u>Cost</u> |
|---|-------------|
| ORACLE ROAD RENT-ALL (U-HAUL TRAILER<br>10-21-76 THRU 11-10-76) | \$ 115.79   |
| _____   | _____       |
| _____   | _____       |
| _____   | _____       |

\$ 115.79

TOTAL = \$ 20,115.79

SAY \$ 20,200.00

NLD  
11-29-76



EXPLORATION AUTHORIZATION NO. 0010-12

TUCSON OFFICE

SUPERIOR EAST PROJECT

PINAL COUNTY, ARIZONA

November - 1970

| Account No. | Item                                   | This Month         | This Year          | Total To Date |
|-------------|--|--------------------|--------------------|---------------|
| 506-48      | Rental Payments - Other                | \$                 | \$ 548.28          | \$            |
| 521-10      | Surface Drilling - Salaries            | 129 00             | 1325 60            |               |
| 521-20      | - Supplies                             |                    | 388 05             |               |
| 521-25      | - Services                             | 20 00 00           | 821 68 54          |               |
| 521-29      | - Traveling                            | 10 50              | 73 92              |               |
| 521-34      | - Freight                              |                    |                    |               |
| 521-35      | - Add. Labor                           | 20 84              | 253 96             |               |
| 521-40      | - Taxes                                |                    | 43 31              |               |
| 530-10      | Geology - Salaries                     | 1 00 00            | 330 60 00          |               |
| 530-20      | - Supplies                             |                    |                    |               |
| 530-29      | - Traveling                            | 178 87             | 430 92             |               |
| 530-35      | - Add. Labor                           | 135 41             | 450 37             |               |
| 530-40      | - Taxes                                |                    |                    |               |
| 540-15      | Sampling, Assaying, Lab. - Wages       |                    | 33 20              |               |
| 540-20      | - Supplies                             |                    | 6 67               |               |
| 540-25      | - Services                             | 108 66             | 534 39             |               |
| 540-29      | - Traveling                            |                    |                    |               |
| 540-35      | - Add. Labor                           |                    | 2 49               |               |
| 540-40      | - Taxes                                | 7 13               | 17 21              |               |
| 570-10      | Engineering - Salaries                 |                    |                    |               |
| 570-20      | - Supplies                             |                    |                    |               |
| 570-35      | - Add. Labor                           |                    | 1 93               |               |
| 580-20      | Construction (Temporary) - Supplies    |                    | 1 58               |               |
| 580-25      | - Services                             |                    | 497 87             |               |
| 580-40      | - Taxes                                |                    | 160 08             |               |
| 610-10      | Field Administration - Salaries        |                    | 935 62             |               |
| 610-15      | - Wages                                |                    | 15 00              |               |
| 610-20      | - Supplies                             |                    | 623 56             |               |
| 610-25      | - Services                             | 13 28              | 1652 40            |               |
| 610-30      | - Communications                       | 24 08              | 219 16             |               |
| 610-35      | - Add. Labor                           |                    | 187 78             |               |
| 610-40      | - Taxes                                |                    | 100 20             |               |
| 620-10      | General Administration - Salaries      | 186 20             | 744 00             |               |
| 620-15      | - Wages                                |                    | 112 17             |               |
| 620-20      | - Supplies                             |                    | 123 35             |               |
| 620-25      | - Services                             |                    | 16 50              |               |
| 620-35      | - Add. Labor                           | 25 16              | 128 16             |               |
| 620-40      | - Taxes                                |                    | 1 40               |               |
| 620-48      | - Other                                |                    | 25 00              |               |
| 641-20      | Distributable Accounts Auto - Supplies | 291 41             | 1924 87            |               |
| 641-40      | - Taxes                                | 92                 | 161 49             |               |
|             |  | <u>\$22 132 26</u> | <u>\$101698 98</u> | \$            |

Authorized  
Expended  
Balance Unexpended

\$ 120000 00  
101698 98  
\$ 18301 02

Orig: TCOsborne  
cc: RR, NV, CWC, TES, FTG, File-2

JDS

SOUTHWESTERN EXPLORATION DIVISION

26th Nov. thru  
25th DEC., 1976

MONTHLY COST SUMMARY

6 SUPERIOR EAST

Project, PINAL  
(County)

ARZ.  
(State)

A. DIRECT DRILLING (Acct. 521-)

CONTRACTORS' CHARGES

Invoiced during month covering current month's work

| <u>Contractors' Services</u> | <u>Statement Amt.</u> |          |
|------------------------------|-----------------------|----------|
| _____                        | _____                 |          |
| _____                        | _____                 |          |
| _____                        | _____                 | <u>X</u> |

Estimated balance of contractors' charges covering work through end of current month

| <u>Contractors' Services</u>               | <u>Estimated Cost</u> |                     |
|--|-----------------------|---------------------|
| <u>Joy Mfg. Co. (Drilling A-8 from</u>     |                       |                     |
| <u>4366' - 4950') EST'D BOTTOM FOOTAGE</u> | <u>\$ 17,000.00</u>   |                     |
| _____                                      | _____                 | <u>\$ 17,000.00</u> |
| _____                                      | _____                 |                     |

Supplies and Freight

|       |       |          |
|-------|-------|----------|
| _____ | _____ | <u>X</u> |
|-------|-------|----------|

Field Trailer Rental

|       |       |          |
|-------|-------|----------|
| _____ | _____ | <u>X</u> |
|-------|-------|----------|

Water Purchases (Drilling)

|       |       |          |
|-------|-------|----------|
| _____ | _____ | <u>X</u> |
|-------|-------|----------|

B. SITE PREPARATION (Acct. 580-)

CONTRACTORS' CHARGES

Invoiced during month covering current month's work

| <u>Contractors' Services</u> | <u>Statement Amt.</u> |          |
|------------------------------|-----------------------|----------|
| _____                        | _____                 |          |
| _____                        | _____                 | <u>X</u> |

Estimated balance of contractors' charges covering work through end of current month

| <u>Contractors' Services</u>                 | <u>Estimated Cost</u> |                    |
|--|-----------------------|--------------------|
| <u>BRYANT CONSTRUCTION Co.</u>               |                       |                    |
| <u>ACCESS TO A-8 WORK IN NOV. (11-7-76)</u>  | <u>\$ 472.00</u>      | <u>\$ 2,700.00</u> |
| <u>WORK ON SITE TO EAST OF A-8 -&gt; A-9</u> | <u>\$ 2,200.00</u>    |                    |
| _____  | _____                 |                    |

Supplies and Freight

|       |       |          |
|-------|-------|----------|
| _____ | _____ | <u>X</u> |
|-------|-------|----------|



C. SAMPLERS, SAMPLING, SAMPLE PREPARATION, ASSAYING (Acct. 540-)

Wages (Temporary Help)

| <u>Name</u> | <u>No. of Straight Time Hours During Month</u> | <u>No. of Overtime Hours During Month</u> |
|-------------|--|---|
| _____       | _____  | _____                                     |
| _____       | _____  | _____                                     |

\_\_\_\_\_ X

Assaying

| <u>Assayer</u>     | <u>Charge or Estimated Expense for Assaying Performed During Month</u> |
|--------------------|--|
| <u>SEE JD SELL</u> | _____  |
| _____              | _____  |

\_\_\_\_\_ ?

D. CLAIM STAKING, VALIDATION (Acct. 507-)

Invoiced during month covering current month's work

| <u>Contractors' Services</u> | <u>Statement Amt.</u> |
|------------------------------|-----------------------|
| _____                        | _____                 |
| _____                        | _____                 |

\_\_\_\_\_ X

Estimated balance of contractors' charges covering work through end of current month

| <u>Contractors' Services</u> | <u>Estimated Cost</u> |
|------------------------------|-----------------------|
| _____                        | _____                 |
| _____                        | _____                 |

\_\_\_\_\_ X

Wages

| <u>Name</u> | <u>No. of Straight Time Hours During Month</u> | <u>No. of Overtime Hours During Month</u> |
|-------------|--|---|
| _____       | _____  | _____                                     |
| _____       | _____  | _____                                     |

\_\_\_\_\_ X

E. OTHER (Itemize any other major expenses not covered above or by invoice.)

| <u>Item</u>   | <u>Cost</u>        |
|---|--------------------|
| <u>MOLLEN-HAUER SURVEYING Co. (DIRECTIONAL SURVEY &amp; TEMPERATURE LOG HOLE A-8)</u> | <u>\$ 1,149.70</u> |
| _____   | _____              |
| _____   | _____              |

\_\_\_\_\_ \$ 1,149.70

TOTAL = \$ 20,849.70

SAY \$ 21,000.00  
 NPLD  
 12-23-76

MONTHLY COST SUMMARY

Superior East EA-0010 Project, Pinal (County), AZ (State)

A. DIRECT DRILLING (Acct. 521-)

CONTRACTORS' CHARGES

Invoiced during month covering current month's work

Contractors' Services

Statement Amt.

*See NPW*

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Estimated balance of contractors' charges covering work through end of current month

Contractors' Services

Estimated Cost

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Supplies and Freight

\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

Field Trailer Rental

Water Purchases (Drilling)

B. SITE PREPARATION (Acct. 580-)

CONTRACTORS' CHARGES

Invoiced during month covering current month's work

Contractors' Services

Statement Amt.

\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

Estimated balance of contractors' charges covering work through end of current month

Contractors' Services

Estimated Cost

*See NPW for Budget Cost estimate.*

\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

Supplies and Freight

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Wages (Temporary Help)

| <u>Name</u> | <u>No. of Straight Time Hours During Month</u> | <u>No. of Overtime Hours During Month</u> |
|-------------|--|---|
| _____       | _____  | _____                                     |
| _____       | _____  | _____                                     |

Assaying

| <u>Assayer</u>              | <u>Charge or Estimated Expense for Assaying Performed During Month</u> |
|-----------------------------|--|
| AARL Inv. #14342 - \$366.50 | \$ 665.00  |
| 14347 - 54.00               |  |
| 14361 - 244.50              |  |
| _____                       | \$ 665.00  |
| _____                       | _____  |

665.00

D. CLAIM STAKING, VALIDATION (Acct. 507-)

Invoiced during month covering current month's work

| <u>Contractors' Services</u> | <u>Statement Amt.</u> |
|------------------------------|-----------------------|
| _____                        | _____                 |
| _____                        | _____                 |

Estimated balance of contractors' charges covering work through end of current month

| <u>Contractors' Services</u> | <u>Estimated Cost</u> |
|------------------------------|-----------------------|
| _____                        | _____                 |
| _____                        | _____                 |

Wages

| <u>Name</u> | <u>No. of Straight Time Hours During Month</u> | <u>No. of Overtime Hours During Month</u> |
|-------------|--|---|
| _____       | _____  | _____                                     |
| _____       | _____  | _____                                     |

E. OTHER (Itemize any other major expenses not covered above or by invoice.)

| <u>Item</u>                    | <u>Cost</u> |
|--------------------------------|-------------|
| Western Petrochemicals 76,1015 | 66.25       |
| _____                          | _____       |
| _____                          | _____       |
| _____                          | _____       |
| _____                          | _____       |

3441 East Milber

INVOICE  
No. 14342

Phone 889-5787

AMERICAN ANALYTICAL and RESEARCH LABORATORIES

ASSAYERS - CHEMISTS - METALLURGISTS

TUCSON, ARIZONA 85714

DATE Dec. 11, 1976

SAMPLE SUBMITTED BY ASARCO, Inc.  
Mr. James D. Sell

| SAMPLE MARKED    | ANALYSIS                           | CHARGES   |
|------------------|------------------------------------|-----------|
| A-8-1 -- A-8-25  | 23-Geo-Chem Cu, Pb, Zn, Mo         | \$ 168.00 |
| 25 Samples       | 1-Geo-Chem Pb, Zn, Mo              |           |
|                  | 1-Geo-Chem Cu, Mo                  | 18.75     |
|                  | Preparation                        |           |
| A-8-26 -- A-8-29 | 12-Geo-Chem Cu, 10-Geo-Chem Pb, Zn | 95.50     |
| A-8-35 -- A-8-49 | 19-Geo-Chem Mo                     | 14.25     |
| 19 Samples       | Preparation                        |           |
| (Over 2000PPM)   |                                    |           |
| A-8-8            |                                    |           |
| A-8-12 -- A-8-22 |                                    |           |
| A-8-24 -- A-8-26 |                                    |           |
| A-8-28 -- A-8-29 |                                    |           |
| A-8-35 -- A-8-37 |                                    |           |
| A-8-46 -- A-8-49 | Cu (18-AA Cu, 6-Long Iodide Cu)    | 51.00     |
| A-8-23           |                                    |           |
| A-8-38           |                                    |           |
| A-8-39           |                                    |           |
| A-8-40 -- A-8-44 | Cu (2-AA Cu, 6-Long Iodide Cu)     | 19.00     |
|                  | TOTAL                              | \$366.50  |
|                  | HAPPINESS IS...                    |           |
|                  | HAVING YOU AS OUR CUSTOMER...      |           |

*OK for Payment  
Superior East  
James D. Sell*

|        |       |    |    |     |
|--------|-------|----|----|-----|
| A-8-17 | 2000+ | 17 | 14 | 8   |
| A-8-18 | 2000+ | 24 | 23 | 133 |
| A-8-19 | 2000+ | 19 | 15 | 16  |
| A-8-20 | 2000+ | 22 | 19 | 14  |
| A-8-21 | 2000+ | 23 | 24 | 10  |
| A-8-22 | 2000+ | 35 | 27 | 22  |
| A-8-23 | 2000+ | 33 | 18 | 163 |
| A-8-24 | 2000+ | 25 | 18 | 204 |
| A-8-25 | 2000+ | 32 | 36 | 16  |
|        |       |    |    | 14  |

Invoice # 14342 Anal. \$ 173.50

Prep. 18.75

CHARGES \$ 192.25

ASSAYER - CHEMIST

3441 East Milber

INVOICE  
No. 14347

Phone 889-5787

# AMERICAN ANALYTICAL and RESEARCH LABORATORIES

ASSAYERS · CHEMISTS · METALLURGISTS

TUCSON, ARIZONA 85714

DATE Dec. 14, 1976

SAMPLE SUBMITTED BY ASARCO, Inc.  
Mr. James D. Sell

| SAMPLE MARKED    | ANALYSIS | CHARGES |
|------------------|----------|---------|
| A-8-22 -- A-8-44 | Au, Ag   | \$54.00 |

*OK for payment  
sup. East  
EA-0010*

*James D. Sell*

THANK YOU MUCH...  
WE APPRECIATE YOUR BUSINESS...

Invoice # 14347

CHARGES \$ 54.00

*James D. Sell*  
12/14/76  
ASSAYER · CHEMIST

3441 East Milber

INVOICE  
No. 14361

Phone 889-5787

# AMERICAN ANALYTICAL and RESEARCH LABORATORIES

ASSAYERS - CHEMISTS - METALLURGISTS

TUCSON, ARIZONA 85714

SAMPLE SUBMITTED BY ASARCO, Inc.  
Mr. James D. Sell

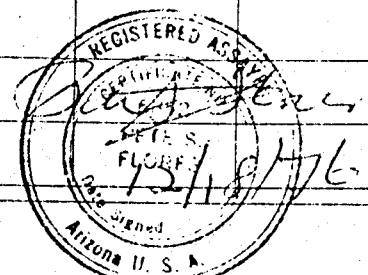
DATE Dec. 18, 1976

| SAMPLE MARKED                                      | ANALYSIS  | CHARGES           |
|--|---|-------------------|
| A-8-30 -- A-8-34<br>A-8-50 -- A-8-69<br>25 Samples | Geo-Chem Cu, Mo, 1-Geo-Chem Pb, Zn<br>Preparation | \$103.00<br>18.75 |
| A-8-70 -- A-8-80<br>11 Samples                     | Geo-Chem Cu, Mo, 2-Geo-Chem Pb, Zn<br>Preparation | 50.00<br>8.25     |
| <u>OVER 2000 PPM</u>                               |   |                   |
| A-8-30 -- A-8-34                                   |   |                   |
| A-8-50 -- A-8-57                                   |   |                   |
| A-8-59 -- A-8-70                                   | 20-AA Cu, 5-Long Iodide Cu                        | 52.50             |
| A-8-71 -- A-8-76                                   | 6-AA Cu   | 12.00             |
|  | <b>TOTAL</b>                                      | <b>\$244.50</b>   |

*OK for payment  
James D. Sell  
Sup East EA-0010*

"WE WISH YOU A MERRY CHRISTMAS!"

|        |          |       |
|--------|----------|-------|
| 60     | 2000+    | 42    |
| 61     | 2000+    | 6     |
| 62     | 2000+    | 12    |
| 63     | 2000+ 10 | 56 23 |
| 64     | 2000+    | 31    |
| 65     | 2000+    | 181   |
| 66     | 2000+    | 29    |
| 67     | 2000+    | 16    |
| 68     | 2000+    | 19    |
| A-8-69 | 2000+    | 12    |



Invoice # 14361 Anal. \$103.00  
 Prep. 18.75  
**CHARGES \$ 121.75**

INVOICE

**WESTERN PETROGRAPHIC**

20 West Flores  
Tucson, Arizona 85705

W. G. K.  
DEC 8, 1976

INVOICE NO. 761015

INVOICE DATE December 7, 1976

ASARCO  
SOLD P. O. Box 5747  
TO Tucson, Arizona 85703

SHIPPED TO J. D. Sell

|                         |                |                      |                                  |                              |
|-------------------------|----------------|----------------------|----------------------------------|------------------------------|
| OUR ORDER NO.<br>761015 | YOUR ORDER NO. | TERMS<br>Net 30 days | SHIPPED VIA<br>Personal delivery | SURPLUS MATERIAL<br>Returned |
|-------------------------|----------------|----------------------|----------------------------------|------------------------------|

| QUANTITY | UNIT | DESCRIPTION                         | UNIT PRICE | AMOUNT  |
|----------|------|-------------------------------------|------------|---------|
| 5        | ea   | Standard petrographic thin sections | \$3.75     | \$22.50 |
| 1        | ea   | K-feldspar stain slab only          | .75        | 3.75    |
| 2        | ea   | Polished sections                   | 5.00       | 10.00   |
| 3        | ea   | Polished thin sections              | 8.00       | 24.00   |
| 6        | ea   | Impregnation with epoxy             | .50        | 3.00    |
| 6        | ea   | Grinding in oil                     | .50        | 3.00    |
| Total    |      |                                     |            | \$66.25 |

APPROVED FOR PAYMENT

By: *James D. Sell*  
(Signature)

EA-0010  
*Sy E.*

EXPLORATION AUTHORIZATION NO. 0010-12  
 SUPERIOR EAST PROJECT  
 PINAL COUNTY, ARIZONA

TUCSON OFFICE  
 December - 1976

| Account No. | Item                                   | This Month        | This Year          | Total To Date      |
|-------------|--|-------------------|--------------------|--------------------|
| 506-48      | Rental Payments - Other                | \$ -              | \$ 548.28          | \$ 548.28          |
| 521-10      | Surface Drilling - Salaries            | 266.00            | 1591.60            | 1591.60            |
| 521-20      | - Supplies                             | 155.00            | 543.05             | 543.05             |
| 521-25      | - Services                             | 20798.18          | 102966.72          | 102966.72          |
| 521-29      | - Traveling                            | -                 | 73.92              | 73.92              |
| 521-35      | - Add. Labor                           | 35.48             | 289.44             | 289.44             |
| 521-40      | - Taxes                                | 8.97              | 52.28              | 52.28              |
| 530-10      | Geology - Salaries                     | 758.00            | 4064.00            | 4064.00            |
| 530-29      | - Traveling                            | 156.22            | 587.14             | 587.14             |
| 530-35      | - Add. Labor                           | 101.10            | 551.47             | 551.47             |
| 540-10      | Sampling, Assaying, Lab. - Salaries    | 1085.00           | 1085.00            | 1085.00            |
| 540-15      | - Wages                                | 91.00             | 124.20             | 124.20             |
| 540-20      | - Supplies                             | 1.19              | 7.79               | 7.79               |
| 540-25      | - Services                             | 955.61            | 1490.00            | 1490.00            |
| 540-29      | - Traveling                            | 226.37            | 226.37             | 226.37             |
| 540-35      | - Add. Labor                           | 175.06            | 177.55             | 177.55             |
| 540-40      | - Taxes                                | .06               | 17.27              | 17.27              |
| 570-35      | Engineering - Add. Labor               | -                 | 1.93               | 1.93               |
| 580-20      | Construction (Temporary) - Supplies    | -                 | 1.58               | 1.58               |
| 580-25      | - Services                             | -                 | 4975.89            | 4975.89            |
| 580-40      | - Taxes                                | -                 | 166.08             | 166.08             |
| 610-10      | Field Administration - Salaries        | -                 | 935.62             | 935.62             |
| 610-15      | - Wages                                | -                 | 15.00              | 15.00              |
| 610-20      | - Supplies                             | 217.54            | 841.10             | 841.10             |
| 610-25      | - Services                             | 10.33             | 1662.73            | 1662.73            |
| 610-30      | - Communications                       | 21.51             | 240.67             | 240.67             |
| 610-35      | - Add. Labor                           | -                 | 187.78             | 187.78             |
| 610-40      | - Taxes                                | 6.22              | 106.42             | 106.42             |
| 620-10      | General Administration - Salaries      | 141.00            | 885.00             | 885.00             |
| 620-15      | - Wages                                | 10.40             | 122.57             | 122.57             |
| 620-20      | - Supplies                             | -                 | 123.35             | 123.35             |
| 620-25      | - Services                             | -                 | 16.50              | 16.50              |
| 620-35      | - Add. Labor                           | 22.65             | 150.81             | 150.81             |
| 620-40      | - Taxes                                | -                 | 1.40               | 1.40               |
| 620-48      | - Other                                | -                 | 25.00              | 25.00              |
| 641-20      | Distributable Accounts Auto - Supplies | 378.10            | 2302.97            | 2302.97            |
| 641-40      | - Taxes                                | .43               | 161.92             | 161.92             |
|             |  | <u>\$25621.42</u> | <u>\$127320.40</u> | <u>\$127320.40</u> |

Authorized \$120000.00  
 Expended 127320.40  
 Balance Unexpended \$( 7320.40)

Orig: TCOsborne  
 cc: RR, NV, CWC, TES, FTG, File-2



**TAB**

PAST 1977

Revised 11/1/77

| Cost Center | Item  |
|-------------|---|
| 501         | Mineral Property, Outright Purchases                                |
| 502         | Mineral Property, Option Payments                                   |
| 503         | Mineral Property, Bonus Payments                                    |
| 504         | Mineral Property, Deductible Minimum Royalties                      |
| 505         | Mineral Property, Non-deductible Minimum Royalties                  |
| 506         | Mineral Property, Rental Payments                                   |
| 507         | Staking Claims (Validation Drilling)                                |
| 511         | Surface Excavating  |
| 512         | Underground Excavating  |
| 521         | Surface Drilling (Includes site preparation, mud pits)              |
| 522         | Underground Drilling  |
| 530         | Geology   |
| 540         | Sampling Assaying, Laboratory                                       |
| 550         | Geophysics  |
| 560         | Geochemistry  |
| 570         | Engineering (Surveying)   |
| 580         | Construction - Temporary (Roads to drill sites)                     |
| 590         | Construction - Permanent  |
| 610         | Administration - Field Offices and Camps                            |
| 620         | Administration - General  |
| 641         | Distributable Accounts - Autos and Vehicles (Includes depreciation) |
| 642         | Distributable Accounts - Aircraft and Boats                         |

Expenses

Expenses - Old Numbers prior to 1/1/77

|     |   |    |                          |
|-----|---|----|--------------------------|
| 100 | Salaries  | 10 | Salaries                 |
| 150 | Labor - Wages   | 15 | Wages                    |
| 200 | Additional Labor  | 20 | Materials & Supplies     |
| 350 | Equipment Rental  | 25 | Fees, Rental, Services   |
| 390 | Repairs and Maintenance (To Equip. & Bldgs.)  | 29 | Traveling                |
| 400 | Materials and Supplies (Tools, Maps, Office Supp.,<br>drill bits, casing, explosives) | 30 | Communications           |
| 440 | Office Equipment and Furnishings (Desks, calculators)                                 | 34 | Freight                  |
| 500 | Communications Tel. & Tel.  | 35 | Additional Labor Expense |
| 530 | Postage, P. O. Box  | 40 | Taxes                    |
| 550 | Freight and Express   | 45 | Depreciation             |
| 600 | Traveling   | 48 | Other                    |
| 660 | Depreciation  |    |                          |
| 680 | Insurance   |    |                          |
| 710 | Membership - Dues   |    |                          |
| 720 | Newspapers, Periodicals, etc.   |    |                          |
| 750 | Outside Professional Expenses   |    |                          |
| 780 | Fuel, Power, Water  |    |                          |
| 790 | Rent  |    |                          |
| 800 | Taxes   |    |                          |
| 870 | Dropped Projects  |    |                          |
| 880 | Exchange  |    |                          |
| 890 | Commissions   |    |                          |
| 950 | Other   |    |                          |
| 970 | Distributions from Other Centers  |    |                          |

*JW*

MONTHLY COST SUMMARY

Superior East EA-0010 Project, Pinal (County), Az (State)

A. DIRECT DRILLING (Acct. 521-)

CONTRACTORS' CHARGES

Invoiced during month covering current month's work

| Contractors' Services  | Statement Amt.    |                    |
|--|-------------------|--------------------|
| <u>Joy Mfg Co. (Drilling A-8 Run 4366-4907 T.D.)</u>                     | <u>14,647.09</u>  |                    |
| <u>(Estimate in Nov-Dec of \$17,000<sup>00</sup> - license credit of</u> | <u>2,352.91))</u> | <u>Credit</u>      |
|  |                   | <u>-(2,352.91)</u> |

Estimated balance of contractors' charges covering work through end of current month

| Contractors' Services                                   | Estimated Cost   |                                |
|---|------------------|--------------------------------|
| <u>Joy Mfg Co. A-8 (Casing etc.) say</u>                | <u>6,000.00</u>  |                                |
| <u>Joy Mfg Co. A-9 (Mobil drilling, cement etc. say</u> | <u>10,000.00</u> |                                |
|   |                  | <u>16,000<sup>00</sup> EST</u> |

Supplies and Freight

Field Trailer Rental

Water Purchases (Drilling)

B. SITE PREPARATION (Acct. 580-)

CONTRACTORS' CHARGES

Invoiced during month covering current month's work

| Contractors' Services  | Statement Amt.     |                   |
|--|--------------------|-------------------|
| <u>#1801 Bryant Construct. Invoices of \$490.88, est last month 472<sup>00</sup></u> | <u>= +18.88</u>    |                   |
| <u>#1800 Bryant Construct. Inv. of \$3,721.90, est last month 2,200<sup>00</sup></u> | <u>= +1,521.90</u> | <u># 1,540.78</u> |

Estimated balance of contractors' charges covering work through end of current month

| Contractors' Services         | Estimated Cost  |                               |
|-------------------------------|-----------------|-------------------------------|
| <u>Bryant Const. ESTIMATE</u> | <u>3,623.82</u> | <u>3,623<sup>82</sup> EST</u> |

Supplies and Freight

|    |         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|----|---------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 38 |         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 39 |         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 40 |         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 41 |         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 42 |         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 43 |         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 44 |         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 45 |         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 46 |         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 47 |         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 48 |         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 49 |         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 50 | A-84835 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|    | TOTALS  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

*pick up in Feb. 1977*

*1/19/77*

*msch*

*1/19/77*

SAMPLERS, SAMPLING, SAMPLE PREPARATION, ASSAYING (Acct. 540-)

Wages (Temporary Help)

| <u>Name</u> | <u>No. of Straight Time Hours During Month</u> | <u>No. of Overtime Hours During Month</u> |
|-------------|--|---|
| _____       | _____  | _____                                     |
| _____       | _____  | _____                                     |

Assaying

| <u>Assayer</u>                                   | <u>Charge or Estimated Expense for Assaying Performed During Month</u> |
|--|--|
| <u>Western Petrographic Div. 741106 (1/5/77)</u> | <u>13.25</u>   |
| _____  | <u>13.25</u>   |

D. CLAIM STAKING, VALIDATION (Acct. 507-)

Invoiced during month covering current month's work

| <u>Contractors' Services</u> | <u>Statement Amt.</u> |
|------------------------------|-----------------------|
| _____                        | _____                 |
| _____                        | _____                 |

Estimated balance of contractors' charges covering work through end of current month

| <u>Contractors' Services</u> | <u>Estimated Cost</u> |
|------------------------------|-----------------------|
| _____                        | _____                 |
| _____                        | _____                 |

Wages

| <u>Name</u> | <u>No. of Straight Time Hours During Month</u> | <u>No. of Overtime Hours During Month</u> |
|-------------|--|---|
| _____       | _____  | _____                                     |
| _____       | _____  | _____                                     |

E. OTHER (Itemize any other major expenses not covered above or by invoice.)

| <u>Item</u>                         | <u>Cost</u>       |
|-------------------------------------|-------------------|
| <u>Ray Hall's Electric ESTIMATE</u> | <u>360.00</u>     |
| _____                               | _____             |
| _____                               | _____             |
| _____                               | _____             |
| _____                               | <u>360.00 EST</u> |



# JOY MANUFACTURING COMPANY

OLIVER BUILDING  
PITTSBURGH, PENNSYLVANIA 15222

PLEASE REMIT TO  
P. O. BOX 360135M  
PITTSBURGH, PA. 15250

|                                  |      |                    |               |      |               |         |                       |
|----------------------------------|------|--------------------|---------------|------|---------------|---------|-----------------------|
| CUSTOMER'S ORDER NO.<br>T-76-302 | DATE | REQ. NO.           | OUR ORD'R NO. | DATE | AT REC. POINT | B.O.NO. | W.G.K.<br>JAN 14 1977 |
| CONTRACT                         | CODE | 99 69 05 03 02 209 |               | DATE | AT SHIP POINT |         |                       |

02250

SOLD TO

Asarco, Inc.  
P. O. Box 5747  
Tucson, Arizona 85703  
Attn: Mr. N. P. Whaley

TERMS NET 30 DAYS  
NO CASH DISCOUNT

INVOICE NO. 05116180

INVOICE DATE 1/6/77

SHIPPED TO

Superior, AZ

PLEASE REMIT TO  
P. O. BOX 360135M  
PITTSBURGH, PA. 15250

DATE SHIPPED

SHIPPED VIA

**COPY**

P. O. ADDRESS

MARKS

REQUESTED ROUTING

SHIPPED FROM Michigan City, IN

| ORIGINAL QUANTITY ORDERED | PART NUMBER                                       | DESCRIPTION  | CODE | UNIT PRICE | QUANTITY BACK ORDERED | QUANTITY SHIPPED | AMOUNT      |
|---------------------------|---|--|------|------------|-----------------------|------------------|-------------|
|                           |   | To 541.1 core drilling at Superior, AZ for period ending Dec. 25, 1976 as per agreement. |      |            |                       |                  |             |
|                           | PROSPECT NO. NO.                                  | FROM TO  |      | TOTAL FEET | UNIT                  | COST             | TOTAL COST  |
|                           | A-8   | BX 4366. ✓ 4500. ✓   |      | 134.       | 20.20 ✓               |                  | \$ 2,706.80 |
|                           |   | BX 4500. 4907. (TO)  |      | 407.       | 22.60 ✓               |                  | 9,198.20    |
|                           |   |  |      |            |                       |                  | 11,905.00   |
|                           | MUD AND ADDITIVES USED                            |  |      |            |                       |                  |             |
|                           | 95  | 50# bags drilling mud @ \$3.00   |      |            |                       |                  | 285.00      |
|                           | 2   | 50# bags CC-16 @ \$24.25   |      |            |                       |                  | 48.50       |
|                           | 3   | 50# bags caustic soda @ \$33.03  |      |            |                       |                  | 99.09       |
|                           | 4   | 50# bags Cellex @ \$152.93   |      |            |                       |                  | 611.72      |
|                           | 8   | 50# bags Dextrid @ \$63.53   |      |            |                       |                  | 508.24      |
|                           | 3   | 100# bags soda ash @ \$21.23   |      |            |                       |                  | 63.69       |
|                           | 21  | 15 gal. can EZ Spot @ \$212.13   |      |            |                       |                  | 212.13      |
|                           | 200   | gals. diesel fuel @ \$.50  |      |            |                       |                  | 100.00      |
|                           | MUD AND ADDITIVES USED IN NOVEMBER AND NOT BILLED |  |      |            |                       |                  |             |
|                           | 2   | 50# bags mud @ \$3.00  |      |            |                       |                  | 6.00        |
|                           | 1   | 40# bag Kwikseal @ \$23.72   |      |            |                       |                  | 23.72       |

09007

F. O. B. SHIPPING POINT UNLESS OTHERWISE SPECIFIED

NO RETURNS ALLOWED UNLESS AUTHORIZED BY THIS OFFICE

GOODS COVERED BY THIS INVOICE WERE PRODUCED IN COMPLIANCE WITH THE REQUIREMENTS OF THE FAIR LABOR STANDARDS ACT OF 1938, AS AMENDED, INCLUDING SECTION 12(A).

# JOY MANUFACTURING COMPANY

# COPY

PAGE NO. 2

**SOLD**

Asarco, Inc.

|                     |               |               |          |                             |
|---------------------|---------------|---------------|----------|-----------------------------|
| OUR<br>ORDER<br>NO. | AT REC. POINT | AT SHIP POINT | B.O. NO. | INVOICE NO.<br><br>05116180 |
|---------------------|---------------|---------------|----------|-----------------------------|

| ORIGINAL<br>QUANTITY<br>ORDERED | UNIT | PART NUMBER | DESCRIPTION   | CODE | UNIT PRICE | QUANTITY<br>BACK<br>ORDERED | QUANTITY<br>SHIPPED | AMOUNT                          |
|---------------------------------|------|-------------|---|------|------------|-----------------------------|---------------------|---------------------------------|
|                                 |      |             | <u>WATER TRUCK RENTAL</u><br><br>November 26 thru December 25<br>1 truck @ \$360.00/month<br>100 miles @ \$.40/mile |      |            |                             |                     | 360.00 ✓<br>40.00 ✓             |
|                                 |      |             | <u>SURVEY TIME AND STUCK RODS AFTER SURVEY</u><br><br>December 3      16 hours @ \$24.00/hour                       |      |            |                             |                     | 384.00 ✓<br><hr/> \$14,647.09 ✓ |
|                                 | A-8  |             |   |      |            |                             |                     |                                 |

*SUPERIOR EAST*


APPROVED FOR PAYMENT

By: *NLO*  
 (Signature) 1-21-77

APPROVED FOR PAYMENT

By: \_\_\_\_\_  
 (Signature)

~~1783320~~  
~~421705~~  
2352.91


 Estimate for Jan. 1977  
 Jay Manuf. Co.

Casing left in A-8

|   |     |               |
|---|-----|---------------|
| 11' Surface 4" casing @ 4 <sup>00</sup> /ft | =   | 44.00         |
| 523' of NX @ 6.80 x 0.70                    | =   | 2,459.48      |
| 697' of BX @ 5.50 x 0.70                    | =   | 2,683.45      |
| Demobilization                              |     | <u>400.00</u> |
|   |     | 5,416.93      |
|   | Say | \$ 6,000.00   |

A-9

|  |     |              |
|--|-----|--------------|
| Mobilization                                   | =   | 400.00       |
| NC Core 0 - 400 ft @ 12.40/ft                  | =   | 4,960.00     |
| Cement time 22 hr @ 24 <sup>00</sup> /hr       | =   | 528.00       |
| " " 88 hr @ 24 <sup>00</sup> /hr               | =   | 2,112.00     |
| sample core " (?) 50 hr @ 24 <sup>00</sup> /hr | =   | 1,200.00     |
| 30 sacks mud & cement @ 3 <sup>00</sup> /sack  | =   | 90.00        |
| Water Truck rental                             | =   | 360.00       |
| " " mileage 100 miles @ 0.40/mile              | =   | <u>40.00</u> |
|  |     | 9,690.00     |
|  | Say | \$ 10,000.00 |





# BRYANT CONSTRUCTION CO.

GENERAL CONTRACTORS — LIC. NO. A-43332  
 843 SPRAY STREET  
 SUPERIOR, ARIZONA 85273  
 PHONE 689-2627

1-21-77  
 NPW

1800

DATE  
 Jan. 18, 1977  
 CUSTOMER'S ORDER

Sold To ASARCO Inc.  
Box 5747  
Tucson, Arizona

SALESMAN

TERMS

F.O.B.

Shipped To P.O. No. T-16-522  
Devils Canyon Project

SHIPPED VIA

|         |   | Total Hrs |    |            |
|---------|---|-----------|----|------------|
|         | D&H Dozer & Ripper @ \$42.50 Hour   |           |    |            |
| Dec. 20 | move dozer from Hwy. to drill site. Clean off drill site so we could start drilling             | 4 hrs     |    |            |
| 24      | level drill site after blasting   | 4         |    |            |
| 29      | level drill site after blasting   | 3         |    |            |
| 31      | clean out south end of stock tank before storm started so we could use material for road repair | 2         | 13 | \$ 552 50  |
|         | Drilling & Blasting Equipment & Crew @ \$430.00 per 8 Hr. Shift                                 |           |    |            |
| Dec. 20 | drilling drill site   | 2 hrs     |    |            |
| 21      | drilling drill site   | 8         |    |            |
| 22      | drilling drill site   | 8         |    |            |
| 23      | drilling drill site   | 9         | 27 | \$1,451 25 |
|         | Compressor, Loader & 3 men @ \$350.00 per 8 Hr. Shift   |           |    |            |
|         | drilling & blasting rock off road from Hwy. 60-7- to big stock tank by new drill site           |           |    |            |
| Dec. 27 | drilling & blasting road  | 8 hrs     |    |            |
| 28      | drilling & blasting road  | 8         |    |            |
| 29      | drilling & blasting road  | 8         |    |            |
| 30      | drilling & blasting road  | 8         |    |            |
| 31      | drilling & blasting road (rained out at noon)   | 4         | 36 | \$1,575 00 |
|         | 4% State Tax \$143.15   |           |    |            |
|         | Total   |           |    | \$3,721 90 |

APPROVED FOR PAYMENT

By: James D. Bell  
 (Signature)

EA-0010

A-9

INVOICE

Rediform

7S 737  
 Poly Pak (50 sets) 7P737

1575  
 2140.00

Paul Bryant Contracting  
January Estimate

A-9 Site area: 2 hours/ loader on  
pump @ \$35.00/hr = 70.00

A-10 Road-Site area: 3 hrs drilling @ \$520.00/day  
(ie <sup>65.33/hr</sup> \$173/hr) = 2,340.00

6 hrs dozer @ \$55.00/hr = 330.00

~~10 hrs~~ subtotal = 2,740.00

4% tax = 109.60

Blasting supplies, power, fuel, etc. = 774.22

Total = 3,623.82

INVOICE

**WESTERN PETROGRAPHIC**

20 West Flores  
Tucson, Arizona 85705

INVOICE NO. 761106

INVOICE DATE January 5, 1977

SOLD TO ASARCO INC.  
P. O. Box 5747  
Tucson, Arizona 85703

SHIPPED TO J.D. Sell

W. G. K.

JAN 5 1977

|                         |                |                      |                                  |                              |
|-------------------------|----------------|----------------------|----------------------------------|------------------------------|
| OUR ORDER NO.<br>761106 | YOUR ORDER NO. | TERMS<br>Net 30 days | SHIPPED VIA<br>Personal delivery | SURPLUS MATERIAL<br>Returned |
|-------------------------|----------------|----------------------|----------------------------------|------------------------------|

| QUANTITY | UNIT | DESCRIPTION                         | UNIT PRICE | AMOUNT      |
|----------|------|-------------------------------------|------------|-------------|
| 1        | ea   | Standard petrographic thin sections | \$3.75     | \$3.75      |
| 2        | ea   | K-feldspar stain slabs              | .75        | 1.50        |
| 1        | ea   | Polished thin section               | 8.00       | <u>8.00</u> |
| Total    |      |                                     |            | \$13.25     |

APPROVED FOR PAYMENT

By: James H. Sell  
(Signature) EA-0010  
A-8

Ray Hall's Electric  
Claypool Area

Est. of elect. work on Jan 22, 1977

|            |              |               |
|------------|--------------|---------------|
| Contract - | 315.00       | (220 v lines) |
| hours -    | <u>45.00</u> | (110 v boxes) |
|            | \$360.00     |               |

include labor, supplies, etc.

EXPLORATION AUTHORIZATION NO. 0010-12  
 SUPERIOR EAST PROJECT  
 PINAL COUNTY, ARIZONA

TUCSON OFFICE

January - 1977

| Account No.        | Item                                   | This Month          | This Year           | Total To Date       |
|--------------------|--|---------------------|---------------------|---------------------|
| 506-48             | Rental Payments - Other                | \$                  | \$                  | \$ 548.28           |
| 521-10             | Surface Drilling - Salaries            |                     |                     | 1591.60             |
| 521-20             | - Supplies                             |                     |                     | 543.05              |
| 521-25             | - Services                             | (7320.40)           | (7320.40)           | 95246.32            |
| 521-29             | - Traveling                            |                     |                     | 73.92               |
| 521-35             | - Add. Labor                           |                     |                     | 289.44              |
| 521-40             | - Taxes                                |                     |                     | 52.28               |
| 530-10             | Geology - Salaries                     |                     |                     | 4064.00             |
| 530-29             | - Traveling                            |                     |                     | 587.14              |
| 530-35             | - Add. Labor                           |                     |                     | 551.47              |
| 540-10             | Sampling, Assaying, Lab. - Salaries    |                     |                     | 1085.00             |
| 540-15             | - Wages                                |                     |                     | 124.20              |
| 540-20             | - Supplies                             |                     |                     | 7.79                |
| 540-25             | - Services                             |                     |                     | 1490.00             |
| 540-29             | - Traveling                            |                     |                     | 226.37              |
| 540-35             | - Add. Labor                           |                     |                     | 177.55              |
| 540-40             | - Taxes                                |                     |                     | 17.27               |
| 570-35             | Engineering - Add. Labor               |                     |                     | 1.93                |
| 580-20             | Construction (Temporary) - Supplies    |                     |                     | 1.58                |
| 580-25             | - Services                             |                     |                     | 4975.89             |
| 580-40             | - Taxes                                |                     |                     | 166.08              |
| 610-10             | Field Administration - Salaries        |                     |                     | 935.62              |
| 610-15             | - Wages                                |                     |                     | 15.00               |
| 610-20             | - Supplies                             |                     |                     | 841.10              |
| 610-25             | - Services                             |                     |                     | 1662.73             |
| 610-30             | - Communications                       |                     |                     | 240.67              |
| 610-35             | - Add. Labor                           |                     |                     | 187.78              |
| 610-40             | - Taxes                                |                     |                     | 106.42              |
| 620-10             | General Administration - Salaries      |                     |                     | 885.00              |
| 620-15             | - Wages                                |                     |                     | 122.57              |
| 620-20             | - Supplies                             |                     |                     | 123.35              |
| 620-25             | - Services                             |                     |                     | 16.50               |
| 620-35             | - Add. Labor                           |                     |                     | 150.81              |
| 620-40             | - Taxes                                |                     |                     | 1.40                |
| 620-48             | - Other                                |                     |                     | 25.00               |
| 641-20             | Distributable Accounts Auto - Supplies |                     |                     | 2302.97             |
| 641-40             | - Taxes                                |                     |                     | 161.92              |
|                    |  | <u>\$ (7320.40)</u> | <u>\$ (7320.40)</u> | <u>\$ 120000.00</u> |
| Authorized         |  |                     |                     | \$120000.00         |
| Expended           |  |                     |                     | <u>120000.00</u>    |
| Balance Unexpended |  |                     |                     | <u>\$ - )</u>       |

Orig: TCOsborne  
 cc: RR, NV, CWC, TES, FTG, File-2

January, 1977

A-8  
 A-9

| Account No. |  | This Month        | This Year         | Total to Date |
|-------------|--|-------------------|-------------------|---------------|
| 506-950     | Rental Payments - Other                | \$                | \$                | \$            |
| 521-100     | Surface Drilling - Salaries            | 1027.00           | 1027.00           |               |
| 521-200     | - Add. Labor                           | 213.97            | 213.97            |               |
| 521-400     | - Supplies                             |                   |                   |               |
| 521-600     | - Traveling                            | 156.05            | 156.05            |               |
| 521-750     | - Services                             | 31377.30          | 31377.30          |               |
| 521-800     | - Taxes                                | 80.15             | 80.15             |               |
| 530-100     | Geology - Salaries                     | 1074.00           | 1074.00           |               |
| 530-200     | - Add. Labor                           | 223.75            | 223.75            |               |
| 530-600     | - Traveling                            | 60.38             | 60.38             |               |
| 540-100     | Sampling, Assaying, Lab. - Salaries    |                   |                   |               |
| 540-150     | - Wages                                | 371.80            | 371.80            |               |
| 540-200     | - Add. Labor                           | 31.87             | 31.87             |               |
| 540-400     | - Supplies                             | 856.95            | 856.95            |               |
| 540-600     | - Traveling                            | 203.38            | 203.38            |               |
| 540-750     | - Services                             | 106.55            | 106.55            |               |
| 540-800     | - Taxes                                | 34.92             | 34.92             |               |
| 570-200     | Engineering - Add. Labor               |                   |                   |               |
| 580-400     | Temporary Construction - Supplies      | 6.35              | 6.35              |               |
| 580-750     | - Services                             | 2047.00           | 2047.00           |               |
| 580-800     | - Taxes                                | 82.20             | 82.20             |               |
| 610-100     | Field Administration - Salaries        |                   |                   |               |
| 610-150     | - Wages                                |                   |                   |               |
| 610-200     | - Add. Labor                           |                   |                   |               |
| 610-400     | - Supplies                             | 2.80              | 2.80              |               |
| 610-500     | - Communications                       | 38.58             | 38.58             |               |
| 610-750     | - Fuel, Power, Water                   | 13.33             | 13.33             |               |
| 610-800     | - Taxes                                | .76               | .76               |               |
| 620-100     | General Administration - Salaries      | 778.00            | 778.00            |               |
| 620-150     | - Wages                                | 147.55            | 147.55            |               |
| 620-200     | - Add. Labor                           | 174.54            | 174.54            |               |
| 620-400     | - Supplies                             | 110.12            | 110.12            |               |
| 620-750     | - Services                             |                   |                   |               |
| 620-800     | - Taxes                                | 6.60              | 6.60              |               |
| 620-950     | - Other                                |                   |                   |               |
| 641-400     | Distributable Accounts Auto - Supplies | 531.33            | 531.33            |               |
| 641-800     | - Taxes                                | 12.71             | 12.71             |               |
| 530-400     | - Supplies                             | 50.50             | 50.50             |               |
| 530-800     | - Taxes                                | .37               | .37               |               |
| 610-390     | - Repairs                              | 448.89            | 448.89            |               |
|             |  | <u>\$40269.70</u> | <u>\$40269.70</u> |               |

Authorized Expended \$ 150000.00  
 40269.70  
 Balance Unexpended \$ 109730.30

Orig:  
 cc:

JDS



FOR YOUR INFORMATION 2-23-77  
NPW

# tonto drilling inc.

1215 West 7th Ave.  
Vancouver, B.C. V6H 1B7

IN ACCOUNT WITH:

ASARCO INCORPORATED  
P.O. Box 5747  
Tucson, Arizona 85703

CREDIT INVOICE NUMBER: 827A

DATE: Feb. 10, 1977

PROPERTY: Patagonia

FROM:

TO:

FORM 103

| DATE     | HOLE NO. |  | UNIT PRICE | SUB TOTAL | TOTAL         |
|----------|----------|--|------------|-----------|---------------|
|          |          | TO CREDIT YOUR ACCOUNT FOR: Partial consumption of diamond products invoiced on 776A Oct. 1975 EA 0010 |            |           | (435.22)      |
| 16/12/76 |          | To Credit for overcharge on hours on invoice 826A EA 0040  | 16.50      | 165.00    | (660.00)      |
| 17/12/76 |          | 10 man hrs.  |            |           |               |
|          |          | 30 man hrs.  | 16.50      | 495.00    |               |
|          |          | To Credit for overcharge on Third Party Charge invoice 826A  |            |           |               |
|          |          | Aero Rentals 110400  |            | 99.15     |               |
|          |          | Plus 10% EA 0040   |            | 9.92      | (109.07)      |
|          |          | TOTAL CREDIT   |            |           | \$ (1,204.29) |

CREDIT TO SUPERIOR EAST, ITEM USED DURING DRILLING OF HOLE A-3

APPROVED FOR PAYMENT

By: NPW  
(Signature) 2-23-77



SOUTHWESTERN EXPLORATION DIVISION

26th JAN thru  
25th FEB, 1977

JDS

MONTHLY COST SUMMARY

SUPERIOR EAST Project, PINAL (County), ARZ. (State)

A. DIRECT DRILLING (Acct. 521-)

CONTRACTORS' CHARGES

Invoiced during month ~~covering current month's work~~

| <u>Contractors' Services</u>                          | <u>Statement Amt.</u> |          |
|---|-----------------------|----------|
| Joy Mfg. Co. (INVOICE FOR PERIOD 12-26-76 TO 1-25-77) | \$ 20,806.06          |          |
| LESS ASARCO EST. FOR SAME PERIOD                      | 16,000.00             |          |
| BALANCE DUE   | \$ 4,806.06           | \$ 4,800 |

Estimated balance of contractors' charges covering work through end of current month

| <u>Contractors' Services</u>                   | <u>Estimated Cost</u> |           |
|--|-----------------------|-----------|
| Joy Mfg. Co. (DRILLING A-9 FROM 596' TO 2902') | \$ 33,860             |           |
| _____  | _____                 |           |
| _____  | _____                 | \$ 33,860 |

Supplies and Freight

\_\_\_\_\_ X

Field Trailer Rental

\_\_\_\_\_ X

Water Purchases (Drilling)

\_\_\_\_\_ X

B. SITE PREPARATION (Acct. 580-)

CONTRACTORS' CHARGES

Invoiced during month ~~covering current month's work~~

| <u>Contractors' Services</u>                          | <u>Statement Amt.</u> |          |
|---|-----------------------|----------|
| BRYANT CONST. CO. (A-9 WATER SUPPLY & A-10 RD & SITE) | \$ 5,193.42           |          |
| LESS ASARCO EST. FOR PERIOD                           | 3,628.82              |          |
| BALANCE DUE =   | \$ 1,564.60           | \$ 1,600 |

Estimated balance of contractors' charges covering work through end of current month

| <u>Contractors' Services</u>   | <u>Estimated Cost</u> |           |
|--|-----------------------|-----------|
| BRYANT CONST. CO. (RD & SITE A-10: GEN. ROAD MAINTENANCE & HOV GATE) | \$ 12,600             | \$ 12,600 |

Supplies and Freight

\_\_\_\_\_ X

SAMPLERS, SAMPLING, SAMPLE PREPARATION, ASSAYING (Acct. 540-)

Wages (Temporary Help)

| <u>Name</u> | <u>No. of Straight Time Hours During Month</u> | <u>No. of Overtime Hours During Month</u> |
|-------------|--|---|
| _____       | _____  | _____                                     |
| _____       | _____  | _____                                     |

X

Assaying

| <u>Assayer</u> | <u>Charge or Estimated Expense for Assaying Performed During Month</u> |
|----------------|--|
| SEE JD SELL    | _____  |
| _____          | _____  |

?

D. CLAIM STAKING, VALIDATION (Acct. 507-)

Invoiced during month covering current month's work

| <u>Contractors' Services</u> | <u>Statement Amt.</u> |
|------------------------------|-----------------------|
| _____                        | _____                 |
| _____                        | _____                 |

X

Estimated balance of contractors' charges covering work through end of current month

| <u>Contractors' Services</u> | <u>Estimated Cost</u> |
|------------------------------|-----------------------|
| _____                        | _____                 |
| _____                        | _____                 |

X

Wages

| <u>Name</u> | <u>No. of Straight Time Hours During Month</u> | <u>No. of Overtime Hours During Month</u> |
|-------------|--|---|
| _____       | _____  | _____                                     |
| _____       | _____  | _____                                     |

X

E. OTHER (Itemize any other major expenses not covered above or by invoice.)

| <u>Item</u>  | <u>Cost</u>     |
|--|-----------------|
| TONTO DRILLING INC. (CREDIT INVOICE 827A, PARTIAL CONSUMPTION DIAMOND PRODUCTS INVOICED ON 776A, OCT. 1975.) | \$ 435.22 (CR.) |
| _____  | _____           |
| _____  | _____           |

435.22 (CR)

TOTAL = \$ 52,425.00

APW  
2-28-77



# JOY MANUFACTURING COMPANY

OLIVER BUILDING  
PITTSBURGH, PENNSYLVANIA 15222

W. G. K.

PLEASE REMIT TO  
P. O. BOX 360135M  
PITTSBURGH, PA. 15250

FEB 8 1977

|                      |                    |               |      |               |          |
|----------------------|--------------------|---------------|------|---------------|----------|
| CUSTOMER'S ORDER NO. | DATE               | REQ. NO.      | DATE | AT REC. POINT | B.O. NO. |
| CONTRACT             | CODE               | OUR ORD'R NO. | DATE | AT SHIP POINT |          |
| T-76-302             | 99 69 05 03 02 209 |               |      |               |          |

**COPY**

02250 ASARCO, Inc.  
P. O. Box 5747  
Tucson, Arizona 85703  
Attention: Mr. N. P. Whaley

SOLD TO

TERMS NET 30 DAYS  
NO CASH DISCOUNT

INVOICE NO. 05116229

INVOICE DATE 2/3/77

SHIPPED TO

Superior, AZ

PLEASE REMIT TO  
P. O. BOX 360135M  
PITTSBURGH, PA. 15250

DATE SHIPPED

SHIPPED VIA

P. O. ADDRESS

MARKS

REQUESTED ROUTING

SHIPPED FROM Michigan City, IN

| ORIGINAL QUANTITY ORDERED | PART NUMBER   | DESCRIPTION | CODE                    | UNIT PRICE        | QUANTITY BACK ORDERED | QUANTITY SHIPPED  | AMOUNT   |
|---------------------------|---|-------------|-------------------------|-------------------|-----------------------|-------------------|----------|
|                           | To 596.' core drilling at Superior, Arizona for period ending January 25, as per agreement. |             |                         |                   |                       |                   |          |
|                           | <u>PROSPECT NO.</u>   | <u>FROM</u> | <u>TO</u>               | <u>TOTAL FEET</u> | <u>UNIT COST</u>      | <u>TOTAL COST</u> |          |
|                           | A9  | NC 0. ✓     | 500.                    | 500.              | 12.40 ✓               | \$6,200.00        |          |
|                           |   | NC 500.     | 596. ✓                  | 96.               | 12.80 ✓               | 1,228.80          |          |
|                           |   |             |                         |                   |                       |                   | 7,428.80 |
|                           | <u>CASING TIME</u>  |             |                         |                   |                       |                   |          |
|                           | A8  | December 29 | 8 hours ✓               |                   |                       |                   |          |
|                           |   | December 30 | 24 hours ✓              |                   |                       |                   |          |
|                           |   | January 3   | 14 hours ✓              |                   |                       |                   |          |
|                           |   | January 4   | 16 hours ✓              |                   |                       |                   |          |
|                           |   | January 5   | 16 hours ✓              |                   |                       |                   |          |
|                           |   | January 6   | 13 hours ✓              |                   |                       |                   |          |
|                           |   |             | 91 hours @ \$24.00/hour |                   |                       |                   | 2,184.00 |
|                           | <u>CASING LEFT</u>  |             |                         |                   |                       |                   |          |
|                           | A8  | 11' ✓       | 4" pipe @ \$4.00/foot   |                   |                       |                   | 44.00    |
|                           |   | 523' ✓      | NX casing @ \$6.80/ft.  | 3,556.40 ✓        |                       |                   |          |
|                           |   | 697' ✓      | BX casing @ \$5.50/ft.  | 3,833.50 ✓        |                       |                   |          |
|                           |   |             |                         | 7,389.90 ✓        |                       |                   |          |
|                           |   |             | Less 30%                | 2,216.97 ✓        |                       |                   | 5,172.93 |

F. O. B. SHIPPING POINT UNLESS OTHERWISE SPECIFIED  
NO RETURNS ALLOWED UNLESS AUTHORIZED BY THIS OFFICE

FEB 8 1977

SOLD TO ASARCO, Inc.

|               |               |               |          |                  |
|---------------|---------------|---------------|----------|------------------|
| OUR ORDER NO. | AT REC. POINT | AT SHIP POINT | B.O. NO. | INVOICE NO. 6229 |
|---------------|---------------|---------------|----------|------------------|

| UNIT   | PART NUMBER | DESCRIPTION                                  | SALES CODE     | UNIT PRICE | QUANTITY BACK ORDERED | QUANTITY SHIPPED | AMOUNT      |
|--|-------------|--|----------------|------------|-----------------------|------------------|-------------|
| <b>CASING LEFT (cont'd.)</b>                                 |             |  |                |            |                       |                  |             |
|  |             | 1 NX Casing Shoe - S35210-8 - on lost casing |                |            |                       |                  | 296.65      |
| <b>CEMENTING AND/OR PLUGGING</b>                             |             |  |                |            |                       |                  |             |
| A9   |             | January 10 7 hours                           | } SEE ATTACHED |            |                       |                  |             |
|  |             | January 11 11 hours                          |                |            |                       |                  |             |
|  |             | January 12 19½ hours                         |                |            |                       |                  |             |
|  |             | January 13 24 hours                          |                |            |                       |                  |             |
|  |             | January 14 24 hours                          |                |            |                       |                  |             |
|  |             | January 15 24 hours                          |                |            |                       |                  |             |
|  |             | January 17 8 hours                           |                |            |                       |                  |             |
|  |             | January 18 16 hours                          |                |            |                       |                  |             |
|  |             | January 19 16 hours                          |                |            |                       |                  |             |
|  |             | January 20 12 hours                          |                |            |                       |                  |             |
|  |             | 161½ hours @ \$24.00/hour                    |                |            |                       |                  | 3,876.00    |
| <b>MUD AND ADDITIVES USED (SEE ATTACHED F/CREDIT DETAIL)</b> |             |  |                |            |                       |                  |             |
|  | 52-66       | 50# bags drilling mud @ \$3.0                |                |            |                       |                  | 198.00      |
|  | 1-2         | 50# bags CC-16 @ \$24.25                     |                |            |                       |                  | 48.50       |
|  | 26          | 100# bags Calseal @ \$26.92                  |                |            |                       |                  | 699.92      |
|  | 1-2         | 50# bags caustic soda @ \$33.03              |                |            |                       |                  | 66.06       |
|  | 1           | 50# bag Cellex                               |                |            |                       |                  | 152.93      |
|  | 1-2         | 50# bags Dextrid @ \$63.53                   |                |            |                       |                  | 127.06      |
|  | 3           | 40# bags Kwikseal @ \$23.72                  |                |            |                       |                  | 71.16       |
|  | 1-2         | 100# bags soda ash @ \$21.23                 |                |            |                       |                  | 42.46       |
|  | 7           | 94# bags Portland cement @ \$3.77            |                |            |                       |                  | 26.39       |
|  |             | TOTAL MUD                                    |                | \$1432.48  |                       |                  |             |
|  |             | CREDIT DUE                                   |                | (-) 184.04 |                       |                  |             |
|  |             |  |                | \$1248.44  |                       |                  |             |
| <b>WATER TRUCK</b>   |             |  |                |            |                       |                  |             |
| A-9  |             | Rental - One Month                           |                |            |                       |                  | 360.00      |
|  |             | 28 miles @ \$.40/mile                        |                |            |                       |                  | 11.20       |
|  |             |  |                |            |                       |                  | \$20,806.06 |

COPY

$\frac{\$1248.44}{526'} = \$2.09/\text{FT.}$

A-8 = \$7,607.58  
 A-9 = \$13,108.48

A-9 =  $\frac{\$12,924.44}{596'}$  = \$21.69/FT.

APPROVED FOR PAYMENT  
 By: N. P. Whaley  
 (Signature) 2-23-77

APPROVED FOR PAYMENT  
 By: \_\_\_\_\_  
 (Signature)

25T  
115T



# JOY MANUFACTURING COMPANY

OLIVER BUILDING  
PITTSBURGH, PENNSYLVANIA 15222

PLEASE REMIT TO  
P. O. BOX 360135M  
PITTSBURGH, PA. 15230

|                                  |      |                    |                     |      |               |         |
|----------------------------------|------|--------------------|---------------------|------|---------------|---------|
| CUSTOMER'S ORDER NO.<br>T-76-302 | DATE | REQ. NO.           | OUR<br>ORD'R<br>NO. | DATE | AT REC. POINT | B.O.NO. |
| CONTRACT                         | CODE | 99 69 05 03 02 209 |                     | DATE | AT SHIP POINT |         |

3-8-77  
NPW

02250

SOLD TO

ASARCO, Inc.  
P. O. Box 5747  
Tucson, Arizona 85703  
Attention: Mr. N. P. Whaley

TERMS NET 30 DAYS  
NO CASH DISCOUNT

INVOICE NO. 05116268

INVOICE DATE 3/3/77

SHIPPED TO

Superior, AZ

PLEASE REMIT TO  
P.O. BOX 360135M  
PITTSBURGH, PA. 15230

DATE SHIPPED

SHIPPED VIA

P. O. ADDRESS

MARKS

REQUESTED ROUTING

SHIPPED FROM Michigan City, IN

| ORIGINAL QUANTITY ORDERED | PART NUMBER                 | DESCRIPTION   | CODE                    | UNIT PRICE        | QUANTITY BACK ORDERED | QUANTITY SHIPPED  | AMOUNT    |
|---------------------------|-----------------------------|---|-------------------------|-------------------|-----------------------|-------------------|-----------|
|                           |                             | To 2306.1 core drilling at Superior, AZ for period ending February 25, 1977 as per agreement. |                         |                   |                       |                   |           |
|                           | <u>PROSPECT NO.</u>         | <u>FROM</u>   | <u>TO</u>               | <u>TOTAL FEET</u> | <u>UNIT COST</u>      | <u>TOTAL COST</u> |           |
|                           | A-9                         | NC 596. ✓   | 1000.                   | 404. ✓            | 12.80 ✓               | \$ 5,171.20 ✓     |           |
|                           |                             | NC 1000.  | 1500.                   | 500. ✓            | 13.40 ✓               | 6,700.00 ✓        |           |
|                           |                             | NC 1500.  | 2000.                   | 500. ✓            | 14.20 ✓               | 7,100.00 ✓        |           |
|                           |                             | NC 2000.  | 2357.                   | 357. ✓            | 15.20 ✓               | 5,426.40 ✓        |           |
|                           |                             | NX 2357.  | 2500.                   | 143. ✓            | 13.70 ✓               | 1,959.10 ✓        |           |
|                           |                             | NX 2500.  | 2902. ✓                 | 402. ✓            | 14.90 ✓               | 5,989.80 ✓        |           |
|                           |                             |   |                         |                   |                       |                   | 32,346.50 |
|                           | <u>SET. AND PULL CASING</u> |   |                         |                   |                       |                   |           |
|                           | A-9                         | February 16   | 8 ✓ hours               |                   |                       |                   |           |
|                           |                             | February 17   | 12 ✓ hours              |                   |                       |                   |           |
|                           | <u>ADDITIVES USED</u>       |   | 20 hours @ \$24.00/hour |                   |                       |                   | 480.00    |
|                           |                             | 385 ✓ gals. soluble oil @ \$1.50  |                         |                   |                       |                   | 577.50    |
|                           | <u>WATER TRUCK RENTAL</u>   |   |                         |                   |                       |                   |           |
|                           |                             | January 26 thru February 25   |                         |                   |                       |                   |           |
|                           |                             | 1 truck @ \$360.00/month  |                         |                   |                       |                   | 360.00    |
|                           |                             | 19 miles @ \$.40/mile   |                         |                   |                       |                   | 7.60      |
|                           |                             |   |                         |                   |                       |                   | 33,771.60 |

F. O. B. SHIPPING POINT UNLESS OTHERWISE SPECIFIED

NO RETURNS ALLOWED UNLESS AUTHORIZED BY THIS OFFICE

09007

GOODS COVERED BY THIS INVOICE WERE PRODUCED IN COMPLIANCE WITH THE REQUIREMENTS OF THE FAIR LABOR STANDARDS ACT OF 1938, AS AMENDED, INCLUDING SECTION 12(A).

# JOY MANUFACTURING COMPANY

PAGE NO. 2

**OLD**  
ASARCO, Inc.

|               |               |               |          |                                |
|---------------|---------------|---------------|----------|--------------------------------|
| OUR ORDER NO. | AT REC. POINT | AT SHIP POINT | B.O. NO. | INVOICE NO.<br><b>05116268</b> |
|---------------|---------------|---------------|----------|--------------------------------|

| ORIGINAL QUANTITY ORDERED | UNIT        | PART NUMBER | DESCRIPTION                                    | SALES CODE | UNIT PRICE | QUANTITY BACK ORDERED | QUANTITY SHIPPED | AMOUNT      |
|---------------------------|-------------|-------------|--|------------|------------|-----------------------|------------------|-------------|
|                           | <u>LESS</u> |             | Overcharge, our Invoice #05116229 dated 2/3/77 |            |            |                       |                  |             |
|                           |             |             | 14 ✓ bags drilling mud @ \$3.00                |            | 42.00      | ✓                     |                  |             |
|                           |             |             | 1 ✓ bag CC-16 @ \$24.25                        |            | 24.25      | ✓                     |                  |             |
|                           |             |             | 1 ✓ bag caustic soda @ \$33.03                 |            | 33.03      | ✓                     |                  |             |
|                           |             |             | 1 ✓ bag Dextrid @ \$63.53                      |            | 63.53      | ✓                     |                  |             |
|                           |             |             | 1 ✓ bag soda ash @ \$21.23                     |            | 21.23      | ✓                     |                  | 184.02      |
|                           |             |             |  |            |            |                       |                  | \$33,587.56 |

**SUPERIOR EAST**  
APPROVED FOR PAYMENT  
By: N. P. Whaley  
(Signature) 3-8-77

APPROVED FOR PAYMENT  
By: \_\_\_\_\_  
(Signature)

MONTHLY COST SUMMARY

Superior East EA-0010 Project, Pinal (County), Az (State)

A. DIRECT DRILLING (Acct. 521-)

CONTRACTORS' CHARGES

Invoiced during month covering current month's work

Contractors' Services Statement Amt.

See Note to Schedule, Credit on A-3 (435,22)

See NPW

Estimated balance of contractors' charges covering work through end of current month

Contractors' Services Estimated Cost

See NPW

Supplies and Freight

Field Trailer Rental

Water Purchases (Drilling)

B. SITE PREPARATION (Acct. 580-)

CONTRACTORS' CHARGES

Invoiced during month covering current month's work

Contractors' Services Statement Amt.

See NPW

Estimated balance of contractors' charges covering work through end of current month

Contractors' Services Estimated Cost

See NPW

Supplies and Freight

ERS, SAMPLING, SAMPLE PREPARATION, ASSAYING (Acct. 540-)

Wages (Temporary Help)

| <u>Name</u> | <u>No. of Straight Time Hours During Month</u> | <u>No. of Overtime Hours During Month</u> |
|-------------|--|---|
| _____       | _____  | _____                                     |
| _____       | _____  | _____                                     |

Assaying

Assayer

Charge or Estimated Expense for Assaying Performed During Month

A-2 {  
 AARL Invoice 14 515 - \$92.50  
 AARL Invoice 14 405 - 8.75  
 Western Petrochem #77057 - 4.50

101.25  
 4.50

105.75

D. CLAIM STAKING, VALIDATION (Acct. 507-)

Invoiced during month covering current month's work

| <u>Contractors' Services</u> | <u>Statement Amt.</u> |
|------------------------------|-----------------------|
| _____                        | _____                 |
| _____                        | _____                 |

Estimated balance of contractors' charges covering work through end of current month

| <u>Contractors' Services</u> | <u>Estimated Cost</u> |
|------------------------------|-----------------------|
| _____                        | _____                 |
| _____                        | _____                 |

Wages

| <u>Name</u> | <u>No. of Straight Time Hours During Month</u> | <u>No. of Overtime Hours During Month</u> |
|-------------|--|---|
| _____       | _____  | _____                                     |
| _____       | _____  | _____                                     |

E. OTHER (Itemize any other major expenses not covered above or by invoice.)

| <u>Item</u>                      | <u>Cost</u>             |
|----------------------------------|-------------------------|
| Ray Hall's Electric              |                         |
| Invoice 9717 - \$315.00 } 439.00 | 439.00                  |
| Invoice 9719 124.00 }            | (360.00 est last month. |
|                                  | \$79.00 diff.           |
|                                  |                         |
|                                  |                         |

79.00  
 show estimate of last month.



Verbal 2/25/77

7PW

Paul Bryant Construction

ESTIMATE FEBRUARY 1977

31 Jan - 25 Feb.

|  |          |
|--|----------|
| Completion of A-8 road west & drill site | 6,188.00 |
| Mobilization                             | 125.00   |

|  |          |
|--|----------|
| Road from gate, access reexcavated & entire road resurfaced              |          |
| 37 hrs drilling & loading, moving mach, trucking, cat etc., powder et al | 5,061.63 |

|                       |        |
|-----------------------|--------|
| Gate end installation | 600.00 |
|-----------------------|--------|

|                |        |
|----------------|--------|
| Demobilization | 125.00 |
|----------------|--------|

|          |               |
|----------|---------------|
| Tax (4%) | <u>450.00</u> |
|----------|---------------|

|                |             |
|----------------|-------------|
| Total Estimate | \$12,549.63 |
|----------------|-------------|

*JBS*

3441 East Milber

Phone 889-5787

## AMERICAN ANALYTICAL and RESEARCH LABORATORIES

ASSAYERS - CHEMISTS - METALLURGISTS

TUCSON, ARIZONA 85714

SAMPLE SUBMITTED BY ASARCO, Inc.DATE Jan. 27, 1977

| SAMPLE MARKED | GOLD<br>OZ./TON | SILVER<br>OZ./TON | PPM<br>COPPER | PPM<br>LEAD | PPM<br>ZINC | PPM<br>MOLYBDENUM | Percent<br>Iron |
|---------------|-----------------|-------------------|---------------|-------------|-------------|-------------------|-----------------|
| A-8-114       |                 |                   | 1120          | 515         | 39          | 6                 |                 |
| 115           |                 |                   | 598           | 23          | 43          | 3                 |                 |
| 116           | .002            | 0.07              | 633           | 13          | 61          | 9                 | 3.25            |
| 117           |                 |                   | 251           | 14          | 20          | 43                |                 |
| 118           |                 |                   | 102           | 12          | 21          | 16                |                 |
| 119           |                 |                   | 115           | 11          | 22          | 14                |                 |
| 120           |                 |                   | 93            | 13          | 12          | 4                 |                 |
| 121           | .001            | 0.02              | 212           | 18          | 40          | 9                 | 2.92            |
| 122           |                 |                   | 279           | 19          | 13          | 264               |                 |
| 123           |                 |                   | 476           | 18          | 25          | 18                |                 |

3441 East Milber

INVOICE  
No. 14515

Phone 889-5787

## AMERICAN ANALYTICAL and RESEARCH LABORATORIES

ASSAYERS - CHEMISTS - METALLURGISTS

TUCSON, ARIZONA 85714

SAMPLE SUBMITTED BY ASARCO, Inc.DATE Jan. 27, 1977

Mr. J. D. Sell

| SAMPLE MARKED      | ANALYSIS                | CHARGES  |
|--------------------|-------------------------|----------|
| A-8-114 -- A-8-123 | Geo-Chem Cu, Pb, Zn, Mo | \$ 70.00 |
| A-8-116, A-8-121   | Au, Ag                  | 8.50     |
| A-8-116, A-8-121   | Fe                      | 6.50     |
| 10 Samples         | Preparation             | 7.50     |
|                    | TOTAL                   | \$ 92.50 |

*Mr. J. D. Sell*

3441 East Milber

Phone 889-5787

# AMERICAN ANALYTICAL and RESEARCH LABORATORIES

ASSAYERS - CHEMISTS - METALLURGISTS

TUCSON, ARIZONA 85714

SAMPLE SUBMITTED BY ASARCO, Inc.

DATE Feb. 23, 1977

| SAMPLE MARKED | GOLD<br>OZ./TON | SILVER<br>OZ./TON | PER CENT<br>COPPER | PERCENT<br>LEAD | PERCENT<br>ZINC | PERCENT<br>MOLYBDENUM | PERCENT<br>IRON |
|---------------|-----------------|-------------------|--------------------|-----------------|-----------------|-----------------------|-----------------|
| A-8-187       |                 |                   | 2.55               |                 |                 |                       |                 |
| A-8-188       |                 |                   | 1.00               |                 |                 |                       |                 |
| A-8-189       |                 |                   | 1.03               |                 |                 |                       |                 |
|               |                 |                   |                    |                 |                 |                       |                 |
|               |                 |                   |                    |                 |                 |                       |                 |

3441 East Milber

INVOICE  
No. 14605

Phone 889-5787

# AMERICAN ANALYTICAL and RESEARCH LABORATORIES

ASSAYERS - CHEMISTS - METALLURGISTS

TUCSON, ARIZONA 85714

SAMPLE SUBMITTED BY ASARCO, Inc.

DATE Feb. 23, 1977

Mr. James D. Sell

| SAMPLE MARKED      | ANALYSIS          | CHARGES |
|--------------------|-------------------|---------|
| A-8-187 -- A-8-189 | Cu, 1-Long Iodide | \$8.75  |

*OK for payment  
James D. Sell  
Superior East.*

THANK YOU MUCH..

WE APPRECIATE YOUR BUSINESS.

INVOICE

**WESTERN PETROGRAPHIC**

20 West Flores  
Tucson, Arizona 85705

W. G. K.

JAN 28 1977

INVOICE NO. 77057

INVOICE DATE January 26, 1977

SOLD TO ASARCO INC.  
P. O. Box 5747  
Tucson, Arizona 85703

SHIPPED TO J. D. Sell

Project No. A-8

|                     |                |                      |                                  |                              |
|---------------------|----------------|----------------------|----------------------------------|------------------------------|
| OUR ORDER NO.<br>77 | YOUR ORDER NO. | TERMS<br>Net 30 days | SHIPPED VIA<br>Personal delivery | SURPLUS MATERIAL<br>Returned |
|---------------------|----------------|----------------------|----------------------------------|------------------------------|

| QUANTITY | UNIT | DESCRIPTION                         | UNIT PRICE | AMOUNT |
|----------|------|-------------------------------------|------------|--------|
| 1        | ea   | Standard petrographic thin sections | \$3.75     | \$3.75 |
| 1        | ea   | K-feldspar stain slab               | .75        | .75    |
|          |      | Total                               |            | \$4.50 |

APPROVED FOR PAYMENT

By: *J. D. Sell*  
(Signature) S.E.

9719

**RAY'S REFRIGERATION & AIR CONDITIONING**

P. O. BOX 896

PHONE GA 5-6115

MIAMI, ARIZONA

W. G. K.

JAN 31 1977

Date 1-22 1977

Name ASAR Company Inc.

Address Superior East - 401 Live Oak - Miami, Oz.

| SOLD BY              |                          | CASH  | C. O. D. | CHARGE | ON ACCT. | MDSE. RETD. | PAID OUT     |
|----------------------|--------------------------|-------|----------|--------|----------|-------------|--------------|
|                      |                          |       |          |        |          |             | 10. T - 47-7 |
| QUAN.                | DESCRIPTION              | PRICE | AMOUNT   |        |          |             |              |
| 1                    | Installed 110 Volt       |       |          |        |          |             |              |
| 2                    | Circuit for plug         |       |          |        |          |             |              |
| 3                    | outlets, and repaired    |       |          |        |          |             |              |
| 4                    | light fixture.           |       |          |        |          |             |              |
| 5                    |                          |       |          |        |          |             |              |
| 6                    | As Bid                   |       | 124 00   |        |          |             |              |
| 7                    |                          |       |          |        |          |             |              |
| 8                    |                          |       |          |        |          |             |              |
| 9                    |                          |       |          |        |          |             |              |
| 10                   | Approved by:             |       |          |        |          |             |              |
| 11                   | H. M. Stone              |       |          |        |          |             |              |
| 12                   |                          |       |          |        |          |             |              |
| 13                   |                          |       |          |        |          |             |              |
| 14                   | APPROVED FOR PAYMENT     |       |          |        |          |             |              |
| 15                   | By: <u>James D. Bell</u> |       |          |        |          |             |              |
| 16                   | <u>SE</u>                |       |          |        |          |             |              |
| 17                   |                          |       |          |        |          |             |              |
| 18                   |                          |       |          |        |          |             |              |
| Customer's Order No. |                          |       |          |        | Rec'd By |             |              |

KEEP THIS SLIP FOR REFERENCE

9717

**RAY'S REFRIGERATION & AIR CONDITIONING**

P. O. BOX 896

PHONE GA 5-6115

MIAMI, ARIZONA

W. G. K.

JAN 31 1977

Date 1-22 1977

Name ASAR Company Inc.

Address Superior East - 401 Live Oak, Miami, Oz.

| SOLD BY              |                          | CASH  | C. O. D. | CHARGE | ON ACCT. | MDSE. RETD. | PAID OUT     |
|----------------------|--------------------------|-------|----------|--------|----------|-------------|--------------|
|                      |                          |       |          |        |          |             | 10. T - 47-7 |
| QUAN.                | DESCRIPTION              | PRICE | AMOUNT   |        |          |             |              |
| 1                    | Installed 220 Volt       |       |          |        |          |             |              |
| 2                    | Panel and 220 Circuits   |       |          |        |          |             |              |
| 3                    | to Electric heaters      |       |          |        |          |             |              |
| 4                    |                          |       |          |        |          |             |              |
| 5                    | As Bid                   |       | 315 00   |        |          |             |              |
| 6                    |                          |       |          |        |          |             |              |
| 7                    |                          |       |          |        |          |             |              |
| 8                    |                          |       |          |        |          |             |              |
| 9                    |                          |       |          |        |          |             |              |
| 10                   |                          |       |          |        |          |             |              |
| 11                   | Approved by:             |       |          |        |          |             |              |
| 12                   | H. M. Stone              |       |          |        |          |             |              |
| 13                   |                          |       |          |        |          |             |              |
| 14                   | APPROVED FOR PAYMENT     |       |          |        |          |             |              |
| 15                   | By: <u>James D. Bell</u> |       |          |        |          |             |              |
| 16                   | <u>SE</u>                |       |          |        |          |             |              |
| 17                   |                          |       |          |        |          |             |              |
| 18                   |                          |       |          |        |          |             |              |
| Customer's Order No. |                          |       |          |        | Rec'd By |             |              |

KEEP THIS SLIP FOR REFERENCE

EXPLORATION AUTHORIZATION NO. 0010-13  
 SUPERIOR EAST PROJECT  
 PINAL COUNTY, ARIZONA

TUCSON OFFICE

February, 1977

19

| Account No. |  | This Month         | This Year          | Total to Date |
|-------------|--|--------------------|--------------------|---------------|
| 506-950     | Rental Payments - Other                | \$ 568.00          | \$ 1595.00         | \$ .          |
| 521-100     | Surface Drilling - Salaries            |                    | 338.06             |               |
| 521-200     | - Add. Labor                           | 124.09             |                    |               |
| 521-400     | - Supplies                             | 4.07               | 4.07               |               |
| 521-600     | - Traveling                            | 77.73              | 233.78             |               |
| 521-750     | - Services                             | 46460.00           | 77837.30           |               |
| 521-800     | - Taxes                                |                    | 20.15              |               |
| 530-100     | Geology - Salaries                     | 1628.00            | 2702.00            |               |
| 530-200     | - Add. Labor                           | 332.28             | 556.03             |               |
| 530-600     | - Traveling                            | 67.58              | 127.96             |               |
| 540-100     | Sampling, Assaying, Lab. - Salaries    | 129.00             | 129.00             |               |
| 540-150     | - Wages                                |                    | 371.90             |               |
| 540-200     | - Add. Labor                           | 28.19              | 60.06              |               |
| 540-400     | - Supplies                             | 246.10             | 1103.05            |               |
| 540-600     | - Traveling                            |                    | 203.38             |               |
| 540-750     | - Services                             | 8.75               | 115.30             |               |
| 540-800     | - Taxes                                | 14.40              | 49.32              |               |
| 570-200     | Engineering - Add. Labor               | 13.98              | 13.98              |               |
| 580-400     | Temporary Construction - Supplies      | 6.11               | 12.46              |               |
| 580-750     | - Services                             |                    | 2047.00            |               |
| 580-800     | - Taxes                                |                    | 82.20              |               |
| 610-100     | Field Administration - Salaries        |                    |                    |               |
| 610-150     | - Wages                                |                    |                    |               |
| 610-200     | - Add. Labor                           |                    |                    |               |
| 610-400     | - Supplies                             | 11.16              | 13.96              |               |
| 610-500     | - Communications                       | 30.96              | 69.54              |               |
| 610-750     | - Fuel, Power, Water                   | 13.33              | 26.66              |               |
| 610-800     | - Taxes                                | 4.49               | 1.25               |               |
| 620-100     | General Administration - Salaries      | 654.00             | 1432.00            |               |
| 620-150     | - Wages                                | 218.08             | 365.63             |               |
| 620-200     | - Add. Labor                           | 161.19             | 335.73             |               |
| 620-400     | - Supplies                             | 25.76              | 135.88             |               |
| 620-750     | - Services                             |                    |                    |               |
| 620-800     | - Taxes                                | 1.56               | 8.16               |               |
| 620-950     | - Other                                |                    |                    |               |
| 641-400     | Distributable Accounts Auto - Supplies | 455.89             | 987.22             |               |
| 641-800     | - Taxes                                | 6.44               | 19.15              |               |
| 530-400     | Geology - Supplies                     |                    | 50.50              |               |
| 530-800     | - Taxes                                |                    | .37                |               |
| 610-390     | Field Administration - Repairs         |                    | 448.59             |               |
|             |  | <u>\$ 51351.14</u> | <u>\$ 91620.84</u> | <u>\$ .</u>   |

Authorized  
Expended

\$ 150,000.00  
91,620.84

Balance Unexpended

\$ 58,379.16

Orig:  
cc:

570-100 Engineering - Salaries

64.00

64.00

SOUTHWESTERN EXPLORATION DIVISION

26th FEB. thru  
25th MAR., 1977

MONTHLY COST SUMMARY

SUPERIOR EAST Project, PINAL (County), ARZ. (State)

A. DIRECT DRILLING (Acct. 521-)

CONTRACTORS' CHARGES

Invoiced during month covering current month's work

| <u>Contractors' Services</u> | <u>Statement Amt.</u> |   |
|------------------------------|-----------------------|---|
| _____                        | _____                 |   |
| _____                        | _____                 |   |
| _____                        | _____                 | X |

Estimated balance of contractors' charges covering work through end of current month

| <u>Contractors' Services</u>                    | <u>Estimated Cost</u> |              |
|---|-----------------------|--------------|
| <u>Joy MFG. Co. (DRILLING A-9: 2902'-3897')</u> | <u>\$ 19,876.55</u>   |              |
| _____   | _____                 |              |
| _____   | _____                 | \$ 19,900.00 |

Supplies and Freight

|       |       |   |
|-------|-------|---|
| _____ | _____ | X |
|-------|-------|---|

Field Trailer Rental

|       |       |   |
|-------|-------|---|
| _____ | _____ | X |
|-------|-------|---|

Water Purchases (Drilling)

|       |       |   |
|-------|-------|---|
| _____ | _____ | X |
|-------|-------|---|

B. SITE PREPARATION (Acct. 580-)

CONTRACTORS' CHARGES

Invoiced during month covering current month's work

| <u>Contractors' Services</u>   | <u>Statement Amt.</u> |                  |
|--|-----------------------|------------------|
| <u>BRYANT CONST. Co. (RD-SITE A-10: MAINTENANCE &amp; HWY. GATE)</u> | <u>\$ 10,784.87</u>   |                  |
| <u>ASARCO EST FOR PERIOD</u>   | <u>\$ 12,600.00</u>   | \$ 1,825.00 (CR) |
| <u>CREDIT DIFF =</u>   | <u>\$ 1,815.13</u>    |                  |

Estimated balance of contractors' charges covering work through end of current month

| <u>Contractors' Services</u> | <u>Estimated Cost</u> |   |
|------------------------------|-----------------------|---|
| _____                        | _____                 | X |

Supplies and Freight

|       |       |   |
|-------|-------|---|
| _____ | _____ | X |
|-------|-------|---|

C. SAMPLERS, SAMPLING, SAMPLE PREPARATION, ASSAYING (Acct. 540-)

Wages (Temporary Help)

| <u>Name</u> | <u>No. of Straight Time Hours During Month</u> | <u>No. of Overtime Hours During Month</u> |
|-------------|--|---|
| _____       | _____  | _____                                     |
| _____       | _____  | _____                                     |

\_\_\_\_\_ X \_\_\_\_\_

Assaying

| <u>Assayer</u> | <u>Charge or Estimated Expense for Assaying Performed During Month</u> |
|----------------|--|
| SEE J.D. SELL  | _____  |
| _____          | _____  |

\_\_\_\_\_

D. CLAIM STAKING, VALIDATION (Acct. 507-)

Invoiced during month covering current month's work

| <u>Contractors' Services</u> | <u>Statement Amt.</u> |
|------------------------------|-----------------------|
| _____                        | _____                 |
| _____                        | _____                 |

\_\_\_\_\_ X \_\_\_\_\_

Estimated balance of contractors' charges covering work through end of current month

| <u>Contractors' Services</u> | <u>Estimated Cost</u> |
|------------------------------|-----------------------|
| _____                        | _____                 |
| _____                        | _____                 |

\_\_\_\_\_ X \_\_\_\_\_

Wages

| <u>Name</u> | <u>No. of Straight Time Hours During Month</u> | <u>No. of Overtime Hours During Month</u> |
|-------------|--|---|
| _____       | _____  | _____                                     |
| _____       | _____  | _____                                     |

\_\_\_\_\_ X \_\_\_\_\_

E. OTHER (Itemize any other major expenses not covered above or by invoice.)

| <u>Item</u> | <u>Cost</u> |
|-------------|-------------|
| _____       | _____       |
| _____       | _____       |
| _____       | _____       |
| _____       | _____       |

\_\_\_\_\_ X \_\_\_\_\_

TOTAL = \$ 18,100.00

APW  
3-28-77





# BRYANT CONSTRUCTION CO.

GENERAL-CONTRACTORS — LIC. NO. A-43332  
 843 SPRAY STREET  
 SUPERIOR, ARIZONA 85273  
 PHONE 689-2627

3-16-77  
 NW

1813

DATE  
March 14, 1977  
 CUSTOMER'S ORDER

P.O. # T-76-522  
 SALESMAN

TERMS

F.O.B.

SHIPPED VIA

Sold To ASARCO Incorporated

Box 5747

Tucson, Arizona 85703

Shipped To Road & A-10 Drill Site

W. G. K.

MAR 16 1977

Equipment listed below furnished @ \$520.00 8 Hour Shift

|         |  |        |  |            |
|---------|--|--------|--|------------|
|         | 600 Compressor                               |        |  |            |
|         | 160 Compressor                               |        |  |            |
|         | 2½ Yd. Hough Loader                          |        |  |            |
|         | 3 & 4 Men With Drilling & Blasting Equipment |        |  |            |
| Jan. 31 | Drilling Road                                | 8 hrs  |  |            |
| Feb. 1  | Drilling & Blasting Road                     | 4      |  |            |
| 2       | Drilling Road                                | 8      |  |            |
| 3       | Drilling Road                                | 8      |  |            |
| 4       | Drilling Road & Drill Site                   | 6      |  |            |
| 7       | Drilling & Blasting Road & Drill Site        | 8      |  |            |
| 8       | Drilling Road                                | 6      |  |            |
| 9       | Drilling & Blasting Drill Site               | 8      |  |            |
| 10      | Drilling & Blasting Drill Site               | 8      |  |            |
| 16      | Drilling Road Above Gate by Hwy.             | 8      |  |            |
| 17      | Drilling Road Above Gate by Hwy.             | 8      |  |            |
| 18      | Drilling Road Above Gate by Hwy.             | 6      |  |            |
| 20      | Loading & Blasting Road Above Gate           | 5      |  |            |
|         |  | 91 hrs |  | \$5,915.00 |

1755<sup>00</sup>

Rediform  
 75 737  
 Poly Pak (50 sets) 7P737

INVOICE

# BRYANT CONSTRUCTION CO.

GENERAL CONTRACTORS — LIC. NO. A-43332  
 843 SPRAY STREET  
 SUPERIOR, ARIZONA 85273  
 PHONE 689-2627

1815

DATE  
 March 14, 1977  
 CUSTOMER'S ORDER

Sold To ASARCO Incorporated

P.O. # T-76-522  
 SALESMAN

Box 5747

TERMS

Tucson, Arizona 85703 **W. G. K.**

F.O.B.

Shipped To Road & A-10 Drill Site **MAR 16 1977**

SHIPPED VIA

D8H Dozer & Ripper @ \$55.00 Hour

|         |  |       |    |             |
|---------|--|-------|----|-------------|
| Feb. 1  | Road Repair After Blasting                             | 5 hrs |    |             |
| 4       | Road Repair After Blasting                             | 2     |    |             |
| 8       | Road & Drill Site                                      | 2     |    |             |
| 11      | Road & Drill Site                                      | 6     |    |             |
| 20      | Road Repair Above Gate After Blast                     | 4     |    |             |
| 23      | Cleaning Road & Spreading Soil from Hwy. to Pond       | 6     |    |             |
| 24      | Cleaning Road & Spreading Soil from Hwy. to Pond       | 6     | 31 | \$ 1,705.00 |
|         | T-800 Ford Dump Truck @ \$25.00 Hour                   |       |    |             |
| Feb. 23 | Haul Soil from Pond & Dump on Road                     | 8 hrs |    |             |
| 24      | Haul Soil from Pond & Dump on Road                     | 8     | 16 | 40000       |
|         | 2 1/2 Yard Hough Loader @ \$35.00 Hour                 |       |    |             |
| Feb. 23 | Stock Pile Material Cleaned from Pond & Loading Truck  | 8 hrs |    |             |
| 24      | Stock Pile Material Cleaned from Pond & Loading Truck  |       |    |             |
|         | Leveling Material on Road to A-8 Drill Site            | 8     | 16 | 56000       |
|         | Build & Install 16ft. 3in. Pipe Gate. Widen Approach & |       |    |             |
|         | Install New Fence                                      |       |    | 50000       |
|         | Mobilization on Dozer                                  |       |    | 20000       |
|         | Blasting Supplies                                      |       |    | 1,24583     |
|         | 4% State Tax   |       |    | 25904       |
|         | Total  |       |    | \$10,78487  |

APPROVED FOR PAYMENT

By: James W. Sell  
 (Signature)

**INVOICE**

APPROVED FOR PAYMENT

By: \_\_\_\_\_  
 (Signature)

Rediform

75 737

Poly Pak (50 sets) 7P737

EXPLORATION AUTHORIZATION NO. 0010-13  
 SUPERIOR EAST PROJECT  
 PINAL COUNTY, ARIZONA

A-9  
 A-10  
 Project

TUCSON OFFICE

MARCH, 1977

| Account No. |  | This Month        | This Year          | Total to Date |
|-------------|--|-------------------|--------------------|---------------|
| 506-950     | Rental Payments - Other                |                   |                    |               |
| 521-100     | Surface Drilling - Salaries            | \$ 359.22         | \$ 1954.22         |               |
| 521-200     | - Add. Labor                           | 78.23             | 416.29             |               |
| 521-400     | - Supplies                             | 2.20              | 6.27               |               |
| 521-600     | - Traveling                            | 193.74            | 427.52             |               |
| 521-750     | - Services                             | 3301.76           | 81139.06           |               |
| 521-800     | - Taxes                                |                   | 80.15              |               |
| 530-100     | Geology - Salaries                     | 871.00            | 3573.00            |               |
| 530-200     | - Add. Labor                           | 166.44            | 722.47             |               |
| 530-600     | - Traveling                            |                   | 127.96             |               |
| 540-100     | Sampling, Assaying, Lab. - Salaries    | 215.00            | 344.00             |               |
| 540-150     | - Wages                                |                   | 371.80             |               |
| 540-200     | - Add. Labor                           | 46.83             | 106.89             |               |
| 540-400     | - Supplies                             |                   | 1103.05            |               |
| 540-600     | - Traveling                            | 73.18             | 276.56             |               |
| 540-750     | - Services                             |                   | 115.30             |               |
| 540-800     | - Taxes                                |                   | 49.32              |               |
| 570-200     | Engineering - Add. Labor               |                   | 13.98              |               |
| 580-400     | Temporary Construction - Supplies      |                   | 12.46              |               |
| 580-750     | - Services                             | 10784.87          | 12831.87           |               |
| 580-800     | - Taxes                                |                   | 82.20              |               |
| 610-100     | Field Administration - Salaries        |                   |                    |               |
| 610-150     | - Wages                                |                   |                    |               |
| 610-200     | - Add. Labor                           |                   |                    |               |
| 610-400     | - Supplies                             |                   | 13.96              |               |
| 610-500     | - Communications                       | 33.44             | 102.98             |               |
| 610-700     | - Fuel, Power, Water                   | 13.33             | 39.99              |               |
| 610-800     | - Taxes                                |                   | 1.25               |               |
| 620-100     | General Administration - Salaries      | 259.00            | 1691.00            |               |
| 620-150     | - Wages                                |                   | 365.63             |               |
| 620-200     | - Add. Labor                           | 56.41             | 392.14             |               |
| 620-400     | - Supplies                             | 24.37             | 160.25             |               |
| 620-750     | - Services                             | 100.00            | 100.00             |               |
| 620-800     | - Taxes                                | 1.46              | 9.62               |               |
| 620-950     | - Other                                |                   |                    |               |
| 641-400     | Distributable Accounts Auto - Supplies | 190.09            | 1177.31            |               |
| 641-800     | - Taxes                                | 2.56              | 21.71              |               |
| 530-400     | Geology - Supplies                     |                   | 50.50              |               |
| 530-800     | - Taxes                                |                   | 1.37               |               |
| 610-390     | Field Administration - Repairs         |                   | 448.59             |               |
|             |  | <u>\$16773.13</u> | <u>\$108393.97</u> |               |

(18)  
 A-10 2924.87  
 4305.50  
 3554.83  
 10,784.87  
 Project

Authorized Expended \$ 150,000.00  
 108,393.97  
 Balance Unexpended \$ 41,606.03

Orig:  
 cc:

570-100 Engineering - Salaries 64.00

MONTHLY COST SUMMARY

Superior East EA-0010 Project, Pinal (County), Az (State)

A. DIRECT DRILLING (Acct. 521-)

CONTRACTORS' CHARGES

Invoiced during month covering current month's work

Contractors' Services

Statement Amt.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Estimated balance of contractors' charges covering work through end of current month

Contractors' Services

Estimated Cost

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Supplies and Freight

\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

Field Trailer Rental

\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

Water Purchases (Drilling)

\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

B. SITE PREPARATION (Acct. 580-)

CONTRACTORS' CHARGES

Invoiced during month covering current month's work

Contractors' Services

Statement Amt.

\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

Estimated balance of contractors' charges covering work through end of current month

Contractors' Services

Estimated Cost

\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

Supplies and Freight

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

*See Next Sheet*

ERS, SAMPLING, SAMPLE PREPARATION, ASSAYING (Acct. 540-)

ges (Temporary Help)

| <u>Name</u> | <u>No. of Straight Time Hours During Month</u> | <u>No. of Overtime Hours During Month</u> |
|-------------|--|---|
| _____       | _____  | _____                                     |
| _____       | _____  | _____                                     |

Assaying

| <u>Assayer</u>             | <u>Charge or Estimated Expense for Assaying Performed During Month</u> |
|----------------------------|--|
| <u>Invoice 14839 (A-9)</u> | <u>423.75</u>  |
| _____                      | _____  |

D. CLAIM STAKING, VALIDATION (Acct. 507-)

Invoiced during month covering current month's work

| <u>Contractors' Services</u> | <u>Statement Amt.</u> |
|------------------------------|-----------------------|
| _____                        | _____                 |
| _____                        | _____                 |

Estimated balance of contractors' charges covering work through end of current month

| <u>Contractors' Services</u> | <u>Estimated Cost</u> |
|------------------------------|-----------------------|
| _____                        | _____                 |
| _____                        | _____                 |

Wages

| <u>Name</u> | <u>No. of Straight Time Hours During Month</u> | <u>No. of Overtime Hours During Month</u> |
|-------------|--|---|
| _____       | _____  | _____                                     |
| _____       | _____  | _____                                     |

E. OTHER (Itemize any other major expenses not covered above or by invoice.)

| <u>Item</u> | <u>Cost</u> |
|-------------|-------------|
| _____       | _____       |
| _____       | _____       |
| _____       | _____       |
| _____       | _____       |

3441 East Milber

INVOICE  
No. 14839

Phone 889-5787

# AMERICAN ANALYTICAL and RESEARCH LABORATORIES

ASSAYERS - CHEMISTS - METALLURGISTS

TUCSON, ARIZONA 85714

SAMPLE SUBMITTED BY ASARCO, INC.

DATE April 23, 1977

Mr. James D. Sell

| SAMPLE MARKED  | ANALYSIS                                  | CHARGES            |
|--|---|--------------------|
| A-9-1 --- A-9-25<br>25 Samples                       | Cu (3 Long Iodide)<br>Geo-Chem Pb, Zn, Mo | \$ 70.25<br>137.50 |
| A-9-26 --- A-9-35<br>A-9-65 --- A-9-79<br>25 Samples | Cu (3-Long Iodide)<br>Geo-Chem Pb, Zn, Mo | 70.25<br>137.50    |
| A-9-80<br>1 Sample                                   | Cu<br>Geo-Chem Pb, Zn, Mo                 | 2.75<br>5.50       |
|  | TOTAL                                     | \$ 423.75          |

*OK for Payment  
Superior East EA-0010  
James W. Sell*

HAPPINESS IS.... SERVING YOU!!!

SOUTHWESTERN EXPLORATION DIVISION

26th MAR. thru  
25th APR., 1977

MONTHLY COST SUMMARY

SUPERIOR EAST Project, PINAL, ARZ.  
(County) (State)

A. DIRECT DRILLING (Acct. 521-)

CONTRACTORS' CHARGES

Invoiced during month covering current month's work

| <u>Contractors' Services</u> | <u>Statement Amt.</u> |          |
|------------------------------|-----------------------|----------|
| _____                        | _____                 |          |
| _____                        | _____                 |          |
| _____                        | _____                 | <u>X</u> |

Estimated balance of contractors' charges covering work through end of current month

| <u>Contractors' Services</u>              | <u>Estimated Cost</u> |                     |
|---|-----------------------|---------------------|
| <u>Joy MFG. Co. (DRILLING OF A-9 FROM</u> |                       |                     |
| <u>3897' TO 4684')</u>                    | <u>\$ 18,443.69</u>   |                     |
| _____                                     | _____                 |                     |
| _____                                     | _____                 | <u>\$ 18,443.69</u> |

|                             |       |          |
|-----------------------------|-------|----------|
| <u>Supplies and Freight</u> | _____ | <u>X</u> |
| _____                       | _____ |          |

|                             |       |          |
|-----------------------------|-------|----------|
| <u>Field Trailer Rental</u> | _____ | <u>X</u> |
|-----------------------------|-------|----------|

|                                   |       |          |
|-----------------------------------|-------|----------|
| <u>Water Purchases (Drilling)</u> | _____ | <u>X</u> |
|-----------------------------------|-------|----------|

B. SITE PREPARATION (Acct. 580-)

CONTRACTORS' CHARGES

Invoiced during month covering current month's work

| <u>Contractors' Services</u> | <u>Statement Amt.</u> |          |
|------------------------------|-----------------------|----------|
| _____                        | _____                 |          |
| _____                        | _____                 | <u>X</u> |

Estimated balance of contractors' charges covering work through end of current month

| <u>Contractors' Services</u> | <u>Estimated Cost</u> |          |
|------------------------------|-----------------------|----------|
| _____                        | _____                 |          |
| _____                        | _____                 | <u>X</u> |

|                             |       |          |
|-----------------------------|-------|----------|
| <u>Supplies and Freight</u> | _____ | <u>X</u> |
| _____                       | _____ |          |



C. SAMPLERS, SAMPLING, SAMPLE PREPARATION, ASSAYING (Acct. 540-)

Wages (Temporary Help)

| <u>Name</u> | <u>No. of Straight Time Hours During Month</u> | <u>No. of Overtime Hours During Month</u> |
|-------------|--|---|
| _____       | _____  | _____                                     |
| _____       | _____  | _____                                     |

X

Assaying

| <u>Assayer</u> | <u>Charge or Estimated Expense for Assaying Performed During Month</u> |
|----------------|--|
| SEE J.D. SELL  | _____  |
| _____          | _____  |

?

D. CLAIM STAKING, VALIDATION (Acct. 507-)

Invoiced during month covering current month's work

| <u>Contractors' Services</u> | <u>Statement Amt.</u> |
|------------------------------|-----------------------|
| _____                        | _____                 |
| _____                        | _____                 |

X

Estimated balance of contractors' charges covering work through end of current month

| <u>Contractors' Services</u> | <u>Estimated Cost</u> |
|------------------------------|-----------------------|
| _____                        | _____                 |
| _____                        | _____                 |

X

Wages

| <u>Name</u> | <u>No. of Straight Time Hours During Month</u> | <u>No. of Overtime Hours During Month</u> |
|-------------|--|---|
| _____       | _____  | _____                                     |
| _____       | _____  | _____                                     |

X

E. OTHER (Itemize any other major expenses not covered above or by invoice.)

| <u>Item</u> | <u>Cost</u> |
|-------------|-------------|
| _____       | _____       |
| _____       | _____       |
| _____       | _____       |
| _____       | _____       |

X

TOTAL = \$ 18,443.69

APD  
4-27-77

26th MAR thru  
25th APR 1977

PROJECT SUPERIOR EAST

HOLE NO. A-9

CONTRACTOR Joy MFG. Co.

I. Footage:

|                           |             |                    |                  |
|---------------------------|-------------|--------------------|------------------|
| BXWL                      | 3897'-4000' | 103' @ \$18.00/FT. | \$ 1,854.00      |
| "                         | 4000'-4500' | 500' @ \$20.20/FT  | \$ 10,100.00     |
| "                         | 4500'-4684' | 184' @ \$22.60/FT  | \$ 4,158.40      |
| TOTAL = 787 FT, Sub-Total |             |                    | = \$ 16,112.40 ← |

II. Rig Time:

|                 |       |            |
|-----------------|-------|------------|
| a) Cementing    | _____ | \$ _____   |
| b) Conditioning | _____ | \$ _____   |
| c)              | _____ | \$ _____   |
| d)              | _____ | \$ _____   |
| Sub-Total       |       | = \$ - 0 - |

III. Materials:

|                                |      |           |           |
|--------------------------------|------|-----------|-----------|
| MUD                            | 90 @ | \$ 3.00   | \$ 270.00 |
| KWIKSEAL                       | 5 @  | \$ 23.72  | \$ 118.60 |
| DEXTRID                        | 8 @  | \$ 63.53  | \$ 508.24 |
| CELLEX                         | 4 @  | \$ 152.93 | \$ 611.72 |
| CC-16                          | 6 @  | \$ 24.25  | \$ 145.50 |
| SOLUBLE OIL (2 x 55 GALS.)=110 | @    | \$ 1.50   | \$ 165.00 |
| SODA ASH                       | 3 @  | \$ 21.23  | \$ 63.69  |
| WALNUT FLOUR                   | 2 @  | \$ 17.09  | \$ 34.18  |
| CON-DET                        | 1 @  | \$ 52.76  | \$ 52.76  |

|                       |  |   |               |
|-----------------------|--|---|---------------|
| MATERIALS:            |  |   |               |
| \$ 1,969.69           |  |   |               |
| 787 FT. = \$ 2.50/FT. |  |   |               |
| Sub-Total             |  | = | \$ 1,969.69 ← |

IV. Water:

|                 |                   |               |
|-----------------|-------------------|---------------|
| a) Truck Rental | RENTAL - 1 MO.    | \$ 360.00     |
| b) Mileage      | 4 MI. @ \$0.40/MI | \$ 1.60       |
| c) Water        | _____             | \$ _____      |
| Sub-Total       |                   | = \$ 361.60 ← |

V. Miscellaneous:

|           |       |            |
|-----------|-------|------------|
| a)        | _____ | \$ _____   |
| b)        | _____ | \$ _____   |
| c)        | _____ | \$ _____   |
| Sub-Total |       | = \$ - 0 - |

Total for Period = \$ 18,443.69

EXPLORATION AUTHORIZATION NO. 0010-13

SUPERIOR EAST PROJECT  
 PINAL COUNTY, ARIZONA

TUCSON OFFICE

April, 1977

*add  
A-9*

*Dece*

| Account No. |  | This Month        | This Year          | Total to Date |
|-------------|--|-------------------|--------------------|---------------|
| 506-950     | Rental Payments - Other                | \$                | \$                 | \$            |
| 521-100     | Surface Drilling - Salaries            |                   | 1954.22            |               |
| 521-200     | - Add. Labor                           |                   | 416.29             |               |
| 521-400     | - Supplies                             |                   | 6.27               |               |
| 521-600     | - Traveling                            |                   | 427.52             |               |
| 521-750     | - Services                             | 18541.87          | 99680.93           |               |
| 521-800     | - Taxes                                | (109.20)          | (29.05)            |               |
| 530-100     | Geology - Salaries                     |                   | 3573.00            |               |
| 530-200     | - Add. Labor                           |                   | 722.47             |               |
| 530-600     | - Traveling                            | 172.84            | 300.80             |               |
| 540-100     | Sampling, Assaying, Lab. - Salaries    |                   | 344.00             |               |
| 540-150     | - Wages                                | 62.25             | 434.05             |               |
| 540-200     | - Add. Labor                           | 5.23              | 112.12             |               |
| 540-400     | - Supplies                             | 27.28             | 1130.33            |               |
| 540-600     | - Traveling                            | 87.11             | 363.67             |               |
| 540-750     | - Services                             | 471.90            | 587.20             |               |
| 540-800     | - Taxes                                | 1.37              | 50.69              |               |
| 570-200     | Engineering - Add. Labor               |                   | 13.98              |               |
| 580-400     | Temporary Construction - Supplies      |                   | 12.46              |               |
| 580-750     | - Services                             |                   | 12831.87           |               |
| 580-800     | - Taxes                                |                   | 82.20              |               |
| 610-100     | Field Administration - Salaries        |                   |                    |               |
| 610-150     | - Wages                                |                   |                    |               |
| 610-200     | - Add. Labor                           |                   |                    |               |
| 610-400     | - Supplies                             |                   | 13.96              |               |
| 610-500     | - Communications                       | 32.95             | 135.93             |               |
| 610-750     | - Fuel, Power, Water                   | 28.44             | 48.43              |               |
| 610-800     | - Taxes                                |                   | 1.25               |               |
| 620-100     | General Administration - Salaries      | 91.00             | 1782.00            |               |
| 620-150     | - Wages                                |                   | 365.63             |               |
| 620-200     | - Add. Labor                           | 17.22             | 409.36             |               |
| 620-400     | - Supplies                             | 2.16              | 162.41             |               |
| 620-750     | - Services                             |                   | 100.00             |               |
| 620-800     | - Taxes                                | .13               | 9.75               |               |
| 620-950     | - Other                                |                   |                    |               |
| 641-400     | Distributable Accounts Auto - Supplies | 144.84            | 1322.15            |               |
| 641-800     | - Taxes                                | 3.44              | 25.15              |               |
| 530-400     | Geology - Supplies                     |                   | 50.50              |               |
| 530-800     | - Taxes                                |                   | .37                |               |
| 610-390     | Field Administration - Repairs         |                   | 448.69             |               |
|             |  | <u>\$19580.83</u> | <u>\$127974.80</u> | \$            |

Authorized  
 Expended

\$ 150,000.00  
127,974.80

Balance Unexpended

\$ 22,025.20

Orig:  
 cc:

570-100 Engineering - Salaries

64.00

MONTHLY COST SUMMARY

Superior East EAD0010

Project, Pinal  
(County)

AZ  
(State)

DIRECT DRILLING (Acct. 521-)

CONTRACTORS' CHARGES

Invoiced during month covering current month's work

Contractors' Services

Statement Amt.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Estimated balance of contractors' charges covering work through end of current month

Contractors' Services

Estimated Cost

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Supplies and Freight

\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

Field Trailer Rental

\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

Water Purchases (Drilling)

\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

SITE PREPARATION (Acct. 580-)

CONTRACTORS' CHARGES

Invoiced during month covering current month's work

Contractors' Services

Statement Amt.

\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

Estimated balance of contractors' charges covering work through end of current month

Contractors' Services

Estimated Cost

\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

Supplies and Freight

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

*See Next Sheet*

AMPLERS, SAMPLING, SAMPLE PREPARATION, ASSAYING (Acct. 540-)

Wages (Temporary Help)

| <u>Name</u> | <u>No. of Straight Time Hours During Month</u> | <u>No. of Overtime Hours During Month</u> |
|-------------|--|---|
| _____       | _____  | _____                                     |
| _____       | _____  | _____                                     |

Assaying

| <u>Assayer</u>       | <u>Charge or Estimated Expense for Assaying Performed During Month</u> |
|----------------------|--|
| AARL Division: (A-9) |  |
| 14839 - \$ 423.75    | 14942 - 246.00   |
| 14893 112.50         | 14943 2.00   |
| 14932 424.75         | 14975 32.75  |
|                      | <u>\$ 1261.75</u>  |

CLAIM STAKING, VALIDATION (Acct. 507-)

Invoiced during month covering current month's work

| <u>Contractors' Services</u> | <u>Statement Amt.</u> |
|------------------------------|-----------------------|
| _____                        | _____                 |
| _____                        | _____                 |

Estimated balance of contractors' charges covering work through end of current month

| <u>Contractors' Services</u> | <u>Estimated Cost</u> |
|------------------------------|-----------------------|
| _____                        | _____                 |
| _____                        | _____                 |

Wages

| <u>Name</u> | <u>No. of Straight Time Hours During Month</u> | <u>No. of Overtime Hours During Month</u> |
|-------------|--|---|
| _____       | _____  | _____                                     |
| _____       | _____  | _____                                     |

OTHER (Itemize any other major expenses not covered above or by invoice.)

| <u>Item</u>                               | <u>Cost</u> |
|---|-------------|
| Western Petrographic Div. 77423 - \$ 5.00 | 59.25       |
| " " " 77355 - 54.25                       |             |
| _____                                     | _____       |
| _____                                     | _____       |

3441 East Milber

INVOICE  
No. 14839

Phone 889-5787

# AMERICAN ANALYTICAL and RESEARCH LABORATORIES

ASSAYERS - CHEMISTS - METALLURGISTS

TUCSON, ARIZONA 85714

SAMPLE SUBMITTED BY ASARCO, INC.

DATE April 23, 1977

Mr. James D. Sell

| SAMPLE MARKED                                      | ANALYSIS                                  | CHARGES            |
|--|---|--------------------|
| A-9-1 -- A-9-25<br>25 Samples                      | Cu (3 Long Iodide)<br>Geo-Chem Pb, Zn, Mo | \$ 70.25<br>137.50 |
| A-9-26 -- A-9-35<br>A-9-65 -- A-9-79<br>25 Samples | Cu (3-Long Iodide)<br>Geo-Chem Pb, Zn, Mo | 70.25<br>137.50    |
| A-9-80<br>1 Sample                                 | Cu<br>Geo-Chem Pb, Zn, Mo                 | 2.75<br>5.50       |
|  | TOTAL                                     | \$ 423.75          |

*OK for Payment  
Superior East EA-0010  
James W. Sell*

HAPPINESS IS.... SERVING YOU!!!

3441 East Milber

INVOICE  
No. 14893

Phone 889-5787

AMERICAN ANALYTICAL and RESEARCH LABORATORIES

ASSAYERS - CHEMISTS - METALLURGISTS

TUCSON, ARIZONA 85714

SAMPLE SUBMITTED BY ASARCO, INC.  
Mr. James D. Sell

DATE April 30, 1977

| SAMPLE MARKED  | ANALYSIS                              | CHARGES         |
|--|---------------------------------------|-----------------|
| <p>A-9-8 -- A-9-15<br/>A-9-65 -- A-9-80</p> <p><i>OK for Payment<br/>Superior East EA-0010<br/>James W. Sell</i></p> <p>PREVIOUS ANALYSIS DONE ON ABOVE.</p> | <p>Au, Ag</p> <p>THANK YOU MUCH!!</p> | <p>\$112.50</p> |

3441 East Milber

INVOICE  
No. 14932

Phone 889-5787

# AMERICAN ANALYTICAL and RESEARCH LABORATORIES

ASSAYERS - CHEMISTS - METALLURGISTS

TUCSON, ARIZONA 85714

SAMPLE SUBMITTED BY ASARCO, INC.

DATE May 12, 1977

Mr. James D. Sell

SAMPLE MARKED

ANALYSIS

CHARGES

A-9-36 -- A-9-44  
 A-9-45 -- A-9-48  
 A-9-49 -- A-9-59  
 A-9-60

A-9-61 -- A-9-64  
 A-9-81 -- A-9-86  
 A-9-87 -- A-9-92  
 A-9-93 -- A-9-100  
 A-9-101

A-9-102 -- A-9-108  
 A-9-109 -- A-9-115  
 A-9-116

Cu  
 Cu, Au, Ag, Geo-Chem Pb, Zn, Mo  
 Cu  
 Cu, Au, Ag, Geo-Chem Pb, Zn, Mo

Cu, Au, Ag, Geo-Chem Pb, Zn, Mo  
 Cu  
 Cu, Au, Ag, Geo-Chem Pb, Zn, Mo  
 Cu  
 Cu, Au, Ag, Geo-Chem Pb, Zn, Mo

Cu, Au, Ag, Geo-Chem Pb, Zn, Mo  
 Cu  
 Cu, Au, Ag, Geo-Chem Pb, Zn, Mo

\$120.00

181.50

123.25

\$424.75

TOTAL

*OK for Payment*  
*Superior East EA-0010*  
*James D. Sell*

HAPPINESS IS...SERVING YOU!!!



3441 East Milber

INVOICE

Phone 889-5787

No. 14942

AMERICAN ANALYTICAL and RESEARCH LABORATORIES

ASSAYERS - CHEMISTS - METALLURGISTS

TUCSON, ARIZONA 85714

SAMPLE SUBMITTED BY ASARCO, INC.

DATE May 13, 1977

Mr. James D. Sell

| SAMPLE MARKED  | ANALYSIS   | CHARGES                             |
|--|--|-------------------------------------|
| A-9-117 -- A-9-122<br>A-9-123 -- A-9-129<br>A-9-130 -- A-9-141<br>25 Samples | Au, Ag, Geo-Chem Cu, Pb, Zn, Mo<br>Geo-Chem Cu<br>Geo-Chem Cu, Pb, Zn, Mo<br>Preparation | \$ 78.00<br>19.25<br>99.00<br>18.75 |
| A-9-142 -- A-9-146<br>5 Samples  | Geo-Chem Cu, Pb, Zn, Mo<br>Preparation   | 41.25<br>3.75                       |
| A-9-121<br>A-9-122<br>A-9-140 OVER 2000 PPM                                  | Reg. Cu  | 6.00                                |
|  | TOTAL  | \$266.00                            |

*OK for Payment  
Superior East LA 0010  
James D. Sell*

HAPPINESS IS...HAVING YOU AS OUR CUSTOMER!

3441 East Milber

INVOICE

Phone 889-5787

No. 14943

# AMERICAN ANALYTICAL and RESEARCH LABORATORIES

ASSAYERS - CHEMISTS - METALLURGISTS

TUCSON, ARIZONA 85714

SAMPLE SUBMITTED BY ASARCO, INC.

DATE May 16, 1977

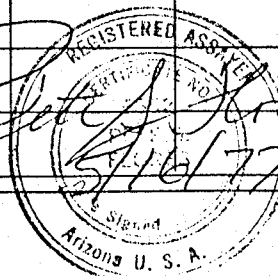
Mr. James D. Sell

| SAMPLE MARKED | ANALYSIS | CHARGES |
|---------------|----------|---------|
| OVER 2000 PPM | Reg. Cu  | \$2.00  |

*OK for Payment.  
Superior East EA-0010  
James D. Sell*

THANK YOU!

|  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|
|  |  |  |  |  |  |  |  |  |  |
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|  |  |  |  |  |  |  |  |  |  |

*State of Arizona*  


INVOICE NO. 14943

CHARGES \$ 2.00

ASSAYER-CHEMIST

3441 East Milber

INVOICE  
No. 14975

Phone 889-5787

# AMERICAN ANALYTICAL and RESEARCH LABORATORIES

ASSAYERS · CHEMISTS · METALLURGISTS

TUCSON, ARIZONA 85714

DATE May 23, 1977

SAMPLE SUBMITTED BY ASARCO, INC.

Mr. James D. Sell

| SAMPLE MARKED                                      | ANALYSIS   | CHARGES          |
|--|--|------------------|
| 96-1<br>96-3<br>96-7<br>96-8<br>96-10<br>5 Samples | Geo-Chem Cu, Pb, Zn, Mo, 1-Mn, 1-Au, Ag<br>Preparation | \$ 44.25<br>3.75 |
| A-9-247<br>1 Sample                                | Geo-Chem Cu, Pb, Zn, Mo, Mn, Ba<br>Preparation         | 15.50<br>0.75    |
| <u>OVER 2000 PPM</u><br>96-7<br>A-9-247            | Mn<br>Mn, Ba   | 4.75<br>16.50    |
|  | TOTAL  | \$ 85.50         |

*SE*

*OK for Payment:  
James D. Sell*

*SE Proj. 32.75  
~~96-10 on T.C. 600 - 52.75~~  
85.50*

THANK YOU MUCH!!

*James D. Sell*

REGISTERED ASSAYER  
CERTIFICATE NO. 522  
MAY 23 1977  
TUCSON, ARIZONA U. S. A.

INVOICE

**WESTERN PETROGRAPHIC**

20 West Flores  
Tucson, Arizona 85705

INVOICE NO. 77423

INVOICE DATE May 10, 1977

SOLD TO ASARCO INCORPORATED  
P. O. Box 5747  
Tucson, Arizona 85703

SHIPPED TO J. D. Sell

W. G. K.

MAY 13 1977

|                        |                       |                      |                          |                              |
|------------------------|-----------------------|----------------------|--------------------------|------------------------------|
| OUR ORDER NO.<br>77423 | YOUR ORDER NO.<br>A-9 | TERMS<br>net 30 days | SHIPPED VIA<br>picked up | SURPLUS MATERIAL<br>returned |
|------------------------|-----------------------|----------------------|--------------------------|------------------------------|

| QUANTITY | UNIT | DESCRIPTION      | UNIT PRICE | AMOUNT |
|----------|------|------------------|------------|--------|
| 1        | ea   | Polished section | 5.00       | 5.00   |
|          |      | TOTAL            |            | \$5.00 |

APPROVED FOR PAYMENT

By: J. D. Sell  
(Signature) Superior East EA-0010

INVOICE

**WESTERN PETROGRAPHIC**

20 West Flores  
Tucson, Arizona 85705

INVOICE NO. 77355

INVOICE DATE May 11, 1977

SOLD TO ASARCO, INC.  
P. O. Box 5747  
Tucson, Arizona 85703

SHIPPED TO J. D. Sell

W. G. K.

MAY 13 1977

| OUR ORDER NO. | YOUR ORDER NO. | TERMS       | SHIPPED VIA | SURPLUS MATERIAL |
|---------------|----------------|-------------|-------------|------------------|
| 77355         |                | net 30 days | picked up   | returned         |

| QUANTITY | UNIT | DESCRIPTION                         | UNIT PRICE | AMOUNT  |
|----------|------|-------------------------------------|------------|---------|
| 1        | ea   | Standard petrographic thin sections | 3.75       | 48.75   |
| 5        | ea   | Grain mount                         | .50        | .50     |
| 5        | ea   | Impregnation with epoxy             | .50        | 2.50    |
| 5        | ea   | Grinding in oil                     | .50        | 2.50    |
| TOTAL    |      |                                     |            | \$54.25 |

APPROVED FOR PAYMENT

By: *James D. Sell*  
(Signature) *Superior East EA-0010*

JDS

SOUTHWESTERN EXPLORATION DIVISION

26th APR. thru  
25th MAY, 1977

MONTHLY COST SUMMARY

SUPERIOR EAST Project, PINAL (County), ARZ. (State)

A. DIRECT DRILLING (Acct. 521-)

CONTRACTORS' CHARGES

Invoiced during month covering current month's work

| <u>Contractors' Services</u> | <u>Statement Amt.</u> |   |
|------------------------------|-----------------------|---|
| <u>Joy Mfg. Co.</u>          |                       |   |
|                              |                       |   |
|                              |                       |   |
|                              |                       | X |

Estimated balance of contractors' charges covering work through end of current month

| <u>Contractors' Services</u>                     | <u>Estimated Cost</u> |                     |
|--|-----------------------|---------------------|
| <u>Joy Mfg. Co.</u>                              |                       |                     |
| <u>a.) DRILLING A-9 FROM 4684' TO 4903' (TD)</u> | <u>\$ 6,200.00</u>    |                     |
| <u>b.) DRILLING A-10 FROM 0 TO 1598'</u>         | <u>\$ 24,700.00</u>   |                     |
|  |                       | <u>\$ 30,900.00</u> |

Supplies and Freight

|  |  |   |
|--|--|---|
|  |  | X |
|--|--|---|

Field Trailer Rental

|  |  |   |
|--|--|---|
|  |  | X |
|--|--|---|

Water Purchases (Drilling)

|  |  |   |
|--|--|---|
|  |  | X |
|--|--|---|

B. SITE PREPARATION (Acct. 580-)

CONTRACTORS' CHARGES

Invoiced during month covering current month's work

| <u>Contractors' Services</u> | <u>Statement Amt.</u> |   |
|------------------------------|-----------------------|---|
|                              |                       |   |
|                              |                       |   |
|                              |                       | X |

Estimated balance of contractors' charges covering work through end of current month

| <u>Contractors' Services</u> | <u>Estimated Cost</u> |   |
|------------------------------|-----------------------|---|
|                              |                       |   |
|                              |                       |   |
|                              |                       | X |

Supplies and Freight

|  |  |   |
|--|--|---|
|  |  | X |
|--|--|---|

C. SAMPLERS, SAMPLING, SAMPLE PREPARATION, ASSAYING (Acct. 540-)

es (Temporary Help)

| <u>Name</u> | <u>No. of Straight Time Hours During Month</u> | <u>No. of Overtime Hours During Month</u> |
|-------------|--|---|
| _____       | _____  | _____                                     |
| _____       | _____  | _____                                     |

\_\_\_\_\_ X \_\_\_\_\_

Assaying

| <u>Assayer</u>       | <u>Charge or Estimated Expense for Assaying Performed During Month</u> |
|----------------------|--|
| <u>SEE J.D. SELL</u> | _____  |
| _____                | _____  |

\_\_\_\_\_ ? \_\_\_\_\_

D. CLAIM STAKING, VALIDATION (Acct. 507-)

Invoiced during month covering current month's work

| <u>Contractors' Services</u> | <u>Statement Amt.</u> |
|------------------------------|-----------------------|
| _____                        | _____                 |
| _____                        | _____                 |

\_\_\_\_\_ X \_\_\_\_\_

Estimated balance of contractors' charges covering work through end of current month

| <u>Contractors' Services</u> | <u>Estimated Cost</u> |
|------------------------------|-----------------------|
| _____                        | _____                 |
| _____                        | _____                 |

\_\_\_\_\_ X \_\_\_\_\_

Wages

| <u>Name</u> | <u>No. of Straight Time Hours During Month</u> | <u>No. of Overtime Hours During Month</u> |
|-------------|--|---|
| _____       | _____  | _____                                     |
| _____       | _____  | _____                                     |

\_\_\_\_\_ X \_\_\_\_\_

E. OTHER (Itemize any other major expenses not covered above or by invoice.)

| <u>Item</u>   | <u>Cost</u>        |
|---|--------------------|
| <u>MOLLEN-HAUER SURVEYING Co.</u>                     | _____              |
| <u>(DIRECTIONAL SURVEY &amp; TEMP. LOG, HOLE A-9)</u> | <u>\$ 1,227.50</u> |
| _____   | _____              |
| _____   | _____              |
| _____   | <u>\$ 1,227.50</u> |

TOTAL = \$ 32,127.50

SAY \$ 32,200.00

NPD  
5-27-77

SUPERIOR EAST

DIAMOND DRILLING FROM SURFACE - JOY MFG. CO. CONTRACTOR

HOLES A-8 AND A-9 :

A-8 START : 8-5-76  
END : 1-6-77  
TD : 4907 FT.

A-9 START : 1-7-77  
END : 5-5-77  
TD : 4903 FT.

|     | <u>PERIOD</u>      | <u>INVOICE AMT.</u> | <u>INTERVAL (FT.)</u> |
|-----|--------------------|---------------------|-----------------------|
| 1.) | AUG. 5 - AUG. 25   | \$ 22,631.27        | 0 - 1334              |
| 2.) | AUG. 26 - SEPT. 25 | 18,168.34           | 1334 - 2401           |
| 3.) | SEPT. 26 - OCT. 25 | 20,296.43           | 2401 - 3478           |
| 4.) | OCT. 26 - NOV. 25  | 19,948.48           | 3478 - 4366           |
| 5.) | NOV. 26 - DEC. 25  | 14,647.09           | 4366 - 4907 (TD)      |
| 6.) | DEC. 26 - JAN. 25  | 20,806.06           | 0 - 596               |
| 7.) | JAN. 26 - FEB. 25  | 33,587.56           | 596 - 2902            |
| 8.) | FEB. 26 - MAR. 25  | 19,881.73           | 2902 - 3897           |
| 9.) | MAR. 26 - APR. 25  | 18,560.14           | 3897 - 4684           |

\$ 188,527.10 = \$ 20,947.46  
(9)

19 1/2 ft.

SAY \$ 21,000.00/MONTH

APW

cc : FTG  
JDS ✓



State PP - Proj A  
A-9  
A-10  
Dell

Notes: This sheet to be modified to year transferred over.

EXPLORATION AUTHORIZATION NO. 0010-13  
SUPERIOR EAST PROJECT  
PINAL COUNTY, ARIZONA

TUCSON OFFICE

MAY - 1977

| Account No. | Item                                   | This Month           | This Year  | Total to Date |
|-------------|--|----------------------|------------|---------------|
| 506-950 ✓   | Rental Payments - Other                | State PP - \$ 548.28 | \$ 548.28  |               |
| 521-100 ✓   | Surface Drilling - Salaries            |                      | 1954.22    |               |
| 521-200 ✓   | - Add. Labor                           |                      | 416.29     |               |
| 521-400 ✓   | - Supplies                             | A-9, 227.50          | 13.69      |               |
| 521-600 ✓   | - Traveling                            | A-9, 6,200.00        | 427.52     |               |
| 521-750 ✓   | - Services                             | A-10, 25,467.81      | 131,348.74 |               |
| 521-800 ✓   | - Taxes                                | 24,240.31            | (29.05)    |               |
| 530-100 ✓   | Geology - Salaries                     | 398.40               | 5565.00    |               |
| 530-200 ✓   | - Add. Labor                           | 78.74                | 1116.21    |               |
| 530-400 ✓   | - Supplies                             |                      | 50.50      |               |
| 530-600 ✓   | - Traveling                            | 28.24                | 441.98     |               |
| 530-800 ✓   | - Taxes                                |                      | 37         |               |
| 540-100 ✓   | Sampling, Assaying, Lab. - Salaries    |                      | 899.00     |               |
| 540-150 ✓   | - Wages                                |                      | 496.45     |               |
| 540-200 ✓   | - Add. Labor                           |                      | 224.14     |               |
| 540-400 ✓   | - Supplies                             |                      | 1165.34    |               |
| 540-600 ✓   | - Traveling                            |                      | 434.26     |               |
| 540-750 ✓   | - Services                             |                      | 1289.37    |               |
| 540-800 ✓   | - Taxes                                |                      | 52.79      |               |
| 570-100 ✓   | Engineering - Salaries                 |                      | 901.00     |               |
| 570-200 ✓   | - Add. Labor                           |                      | 180.82     |               |
| 570-400 ✓   | - Supplies                             |                      | 36.65      |               |
| 570-600 ✓   | - Traveling                            |                      | 161.62     |               |
| 570-800 ✓   | - Taxes                                |                      | 1.42       |               |
| 580-400 ✓   | Temporary Construction - Supplies      |                      | 12.46      |               |
| 580-750 ✓   | - Services                             |                      | 1283.87    |               |
| 580-800 ✓   | - Taxes                                |                      | 82.20      |               |
| 610-390 ✓   | Field Administration - Repairs         |                      | 502.84     |               |
| 610-400 ✓   | - Supplies                             |                      | 13.96      |               |
| 610-500 ✓   | - Communications                       |                      | 175.94     |               |
| 610-780 ✓   | - Fuel, Power, Water                   |                      | 25.60      |               |
| 610-800 ✓   | - Taxes                                |                      | 1.25       |               |
| 620-100 ✓   | General Administration - Salaries      |                      | 1782.00    |               |
| 620-150 ✓   | - Wages                                |                      | 365.63     |               |
| 620-200 ✓   | - Add. Labor                           |                      | 409.36     |               |
| 620-400 ✓   | - Supplies                             |                      | 201.46     |               |
| 620-750 ✓   | - Services                             |                      | 100.00     |               |
| 620-800 ✓   | - Taxes                                |                      | 12.10      |               |
| 620-950 ✓   | - Other                                |                      | 2.50       |               |
| 641-400 ✓   | Distributable Accounts Auto - Supplies |                      | 1736.58    |               |
| 641-800 ✓   | - Taxes                                |                      | 34.66      |               |

\$ 38034.72    \$ 166009.52

Authorized Expended

\$ 150000.00  
166009.52

Balance Unexpended

\$(16009.52)

Orig:  
CC:

SOUTHWESTERN EXPLORATION DIVISION

26th MAY thru  
25th JUN, 1977

MONTHLY COST SUMMARY

SUPERIOR EAST Project, PINAL, ARZ.  
(County) (State)

A. DIRECT DRILLING (Acct. 521-)

CONTRACTORS' CHARGES

Invoiced during month covering current month's work

| <u>Contractors' Services</u> | <u>Statement Amt.</u> |          |
|------------------------------|-----------------------|----------|
| _____                        | _____                 |          |
| _____                        | _____                 |          |
| _____                        | _____                 |          |
| _____                        | _____                 | <u>X</u> |

Estimated balance of contractors' charges covering work through end of current month

| <u>Contractors' Services</u>                     | <u>Estimated Cost</u> |                     |
|--|-----------------------|---------------------|
| <u>Joy Mfg. Co.</u>                              |                       |                     |
| <u>a.) A-9: PULLING CASING &amp; CASING LOST</u> | <u>\$ 7,300.00</u>    |                     |
| <u>b.) A-10: DRILLING FROM 1528' TO 2647'</u>    | <u>\$ 17,100.00</u>   |                     |
| _____  | _____                 | <u>\$ 24,900.00</u> |

|                             |       |          |
|-----------------------------|-------|----------|
| <u>Supplies and Freight</u> | _____ | <u>X</u> |
| _____                       | _____ |          |

|                             |       |          |
|-----------------------------|-------|----------|
| <u>Field Trailer Rental</u> | _____ | <u>X</u> |
|-----------------------------|-------|----------|

|                                   |       |          |
|-----------------------------------|-------|----------|
| <u>Water Purchases (Drilling)</u> | _____ | <u>X</u> |
|-----------------------------------|-------|----------|

B. SITE PREPARATION (Acct. 580-)

CONTRACTORS' CHARGES

Invoiced during month covering current month's work

| <u>Contractors' Services</u> | <u>Statement Amt.</u> |          |
|------------------------------|-----------------------|----------|
| _____                        | _____                 |          |
| _____                        | _____                 |          |
| _____                        | _____                 | <u>X</u> |

Estimated balance of contractors' charges covering work through end of current month

| <u>Contractors' Services</u> | <u>Estimated Cost</u> |          |
|------------------------------|-----------------------|----------|
| _____                        | _____                 |          |
| _____                        | _____                 | <u>X</u> |

|                             |       |          |
|-----------------------------|-------|----------|
| <u>Supplies and Freight</u> | _____ |          |
| _____                       | _____ |          |
| _____                       | _____ | <u>X</u> |

C. SAMPLERS, SAMPLING, SAMPLE PREPARATION, ASSAYING (Acct. 540-)

Wages (Temporary Help)

| <u>Name</u> | <u>No. of Straight Time Hours During Month</u> | <u>No. of Overtime Hours During Month</u> |
|-------------|--|---|
| _____       | _____  | _____                                     |
| _____       | _____  | _____                                     |

X

Assaying

| <u>Assayer</u>       | <u>Charge or Estimated Expense for Assaying Performed During Month</u> |
|----------------------|--|
| <u>SEE J.D. SELL</u> | _____  |
| _____                | _____  |

?

D. CLAIM STAKING, VALIDATION (Acct. 507-)

Invoiced during month covering current month's work

| <u>Contractors' Services</u> | <u>Statement Amt.</u> |
|------------------------------|-----------------------|
| _____                        | _____                 |
| _____                        | _____                 |

X

Estimated balance of contractors' charges covering work through end of current month

| <u>Contractors' Services</u> | <u>Estimated Cost</u> |
|------------------------------|-----------------------|
| _____                        | _____                 |
| _____                        | _____                 |

X

Wages

| <u>Name</u> | <u>No. of Straight Time Hours During Month</u> | <u>No. of Overtime Hours During Month</u> |
|-------------|--|---|
| _____       | _____  | _____                                     |
| _____       | _____  | _____                                     |

X

E. OTHER (Itemize any other major expenses not covered above or by invoice.)

| <u>Item</u>   | <u>Cost</u>      |
|---|------------------|
| <u>BRYANT CONSTRUCTION Co. (DRILLING 5/8" BORE HOLES, SURVEY WORK, AND TRUCK MILEAGE)</u> | <u>\$ 572.00</u> |
| _____   | _____            |
| _____   | _____            |

\$ 572.00

TOTAL = \$ 25,472.00

SAY \$ 25,500.00

NPW  
6-27-77

908

SOUTHWESTERN EXPLORATION DIVISION

26th May thru  
25th June, 1977

MONTHLY COST SUMMARY

Superior East EA-0010 Project, Pinal (County), Az (State)

DIRECT DRILLING (Acct. 521-)

CONTRACTORS' CHARGES

Invoiced during month covering current month's work

| <u>Contractors' Services</u> | <u>Statement Amt.</u> |
|------------------------------|-----------------------|
| _____                        | _____                 |
| _____                        | _____                 |
| _____                        | _____                 |

Estimated balance of contractors' charges covering work through end of current month

| <u>Contractors' Services</u> | <u>Estimated Cost</u> |
|------------------------------|-----------------------|
| _____                        | _____                 |
| _____                        | _____                 |
| _____                        | _____                 |

Supplies and Freight

|       |       |
|-------|-------|
| _____ | _____ |
| _____ | _____ |

Field Trailer Rental

|       |       |
|-------|-------|
| _____ | _____ |
| _____ | _____ |

Water Purchases (Drilling)

|       |       |
|-------|-------|
| _____ | _____ |
| _____ | _____ |

SITE PREPARATION (Acct. 580-)

CONTRACTORS' CHARGES

Invoiced during month covering current month's work

| <u>Contractors' Services</u> | <u>Statement Amt.</u> |
|------------------------------|-----------------------|
| _____                        | _____                 |
| _____                        | _____                 |

Estimated balance of contractors' charges covering work through end of current month

| <u>Contractors' Services</u> | <u>Estimated Cost</u> |
|------------------------------|-----------------------|
| _____                        | _____                 |
| _____                        | _____                 |

Supplies and Freight

|       |       |
|-------|-------|
| _____ | _____ |
| _____ | _____ |

*See Next Sheet*

TESTERS, SAMPLING, SAMPLE PREPARATION, ASSAYING (Acct. 540-)

Wages (Temporary Help)

• Name

No. of Straight  
Time Hours  
During Month

No. of Overtime  
Hours During  
Month

\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

Assaying

Assayer

Charge or Estimated  
Expense for Assaying  
Performed During Month

\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

CLAIM STAKING, VALIDATION (Acct. 507-)

Invoiced during month covering current month's work

Contractors' Services

Statement Amt.

\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

Estimated balance of contractors' charges covering work through end of current month

• Contractors' Services

Estimated Cost

\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

Wages

Name

No. of Straight  
Time Hours  
During Month

No. of Overtime  
Hours During  
Month

\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

OTHER (Itemize any other major expenses not covered above or by invoice.)

Item

Cost

Western Petrographic 77498 (A-9)

\$13.50

\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

INVOICE

**WESTERN PETROGRAPHIC**

20 West Flores  
Tucson, Arizona 85705

C. D. N.

MAY 31 1977

INVOICE NO.

77498

INVOICE DATE

May 26, 1988

SOLD TO

ASARCO, INCORPORATED  
P. O. Box 5747  
Tucson, Arizona 85703

SHIPPED TO

J. D. Sell

|                        |                       |                      |                          |                              |
|------------------------|-----------------------|----------------------|--------------------------|------------------------------|
| OUR ORDER NO.<br>77498 | YOUR ORDER NO.<br>A-9 | TERMS<br>net 30 days | SHIPPED VIA<br>picked up | SURPLUS MATERIAL<br>returned |
|------------------------|-----------------------|----------------------|--------------------------|------------------------------|

| QUANTITY | UNIT | DESCRIPTION                         | UNIT PRICE | AMOUNT    |
|----------|------|-------------------------------------|------------|-----------|
| 3        | ea   | Standard petrographic thin sections | 3.75       | 11.25 ✓   |
| 3        | ea   | K-feldspar stain                    | .75        | 2.25 ✓    |
|          |      | TOTAL                               |            | \$13.50 ✓ |

Order No.....Quant. O.K.....  
 Ship. Recd.....Price OK.....  
 Inv. Recd.....Exten. O.K. *ajm*  
 rt.....Exp.....Trk. ....Mail.....  
 Charge .....

APPROVED FOR PAYMENT  
 By: *J. D. Sell*  
 (Signature) *Serg. East*  
EA-0010

A-10

EXPLORATION AUTHORIZATION NO. 0010-13  
 SUPERIOR EAST PROJECT  
 PINAL COUNTY, ARIZONA

TUCSON OFFICE

June - 1977

| Account No. | Item                                   | This Month     | This Year | Total to Date |
|-------------|--|----------------|-----------|---------------|
| 506-950     | Rental Payments - Other                | \$             | \$ 548 28 |               |
| 521-100     | Surface Drilling - Salaries            |                | 1954 22   |               |
| 521-200     | - Add. Labor                           |                | 416 29    |               |
| 521-400     | - Supplies                             |                | 13 69     |               |
| 521-600     | - Traveling                            |                | 427 52    |               |
| 521-750     | - Services                             | → - (16009 52) | 115339 22 |               |
| 521-800     | - Taxes                                |                | (29 05)   |               |
| 530-100     | Geology - Salaries                     |                | 5565 00   |               |
| 530-200     | - Add. Labor                           |                | 1116 21   |               |
| 530-400     | - Supplies                             |                | 50 50     |               |
| 530-600     | - Traveling                            |                | 441 98    |               |
| 530-800     | - Taxes                                |                | 37        |               |
| 540-100     | Sampling, Assaying, Lab. - Salaries    |                | 899 00    |               |
| 540-150     | - Wages                                |                | 496 45    |               |
| 540-200     | - Add. Labor                           |                | 224 14    |               |
| 540-400     | - Supplies                             |                | 1165 34   |               |
| 540-600     | - Traveling                            |                | 434 26    |               |
| 540-750     | - Services                             |                | 1289 37   |               |
| 540-800     | - Taxes                                |                | 52 79     |               |
| 570-100     | Engineering - Salaries                 |                | 901 00    |               |
| 570-200     | - Add. Labor                           |                | 180 82    |               |
| 570-400     | - Supplies                             |                | 36 65     |               |
| 570-600     | - Traveling                            |                | 161 62    |               |
| 570-800     | - Taxes                                |                | 1 42      |               |
| 580-400     | Temporary Construction - Supplies      |                | 12 46     |               |
| 580-750     | - Services                             |                | 1283 87   |               |
| 580-800     | - Taxes                                |                | 82 20     |               |
| 610-390     | Field Administration - Repairs         |                | 502 84    |               |
| 610-400     | - Supplies                             |                | 13 96     |               |
| 610-500     | - Communications                       |                | 175 94    |               |
| 610-780     | - Fuel, Power, Water                   |                | 25 60     |               |
| 610-800     | - Taxes                                |                | 1 25      |               |
| 620-100     | General Administration - Salaries      |                | 1782 00   |               |
| 620-150     | - Wages                                |                | 365 63    |               |
| 620-200     | - Add. Labor                           |                | 409 36    |               |
| 620-400     | - Supplies                             |                | 201 46    |               |
| 620-750     | - Services                             |                | 100 00    |               |
| 620-800     | - Taxes                                |                | 12 10     |               |
| 620-950     | - Other                                |                | 25 00     |               |
| 641-400     | Distributable Accounts Auto - Supplies |                | 1736 58   |               |
| 641-800     | - Taxes                                |                | 34 66     |               |

\$(16009.52) \$150000.00

Authorized Expended

\$150000.00  
 150000.00

Balance Unexpended

\$

Orig:  
 CC:

See July? (PB - Proj Δ = 509.60 (Divide by July 10)

A-9 casing = 3,564.00 + 4,464.74 + 40.00 + 180.00 (7/5/77) = 8,248.74

See July? (PB big spend account 16000)  
 Aug (PB special survey = 468.38 (Divide by 21) (July 25)

EXPLORATION AUTHORIZATION NO. 0010-14  
 SUPERIOR EAST PROJECT  
 PINAL COUNTY, ARIZONA

A-9 casing  
 A-10

TUCSON OFFICE

Prog Δ  
 Project

June - 1977

| Account No. | Item                                   | This Month         | This Year          | Total to Date |
|-------------|--|--------------------|--------------------|---------------|
| 506-950     | Rental Payments - Other                |                    |                    |               |
| 521-100     | Surface Drilling - Salaries            | 287.00             | 287.00             |               |
| 521-200     | - Add. Labor                           | 57.08              | 57.08              |               |
| 521-400     | - Supplies                             | 1.33               | 1.33               |               |
| 521-600     | - Traveling                            |                    |                    |               |
| 521-750     | - Services                             | 41482.90           | 41482.90           |               |
| 521-800     | - Taxes                                | .08                | .08                |               |
| 530-100     | Geology - Salaries                     | 626.00             | 626.00             |               |
| 530-200     | - Add. Labor                           | 123.98             | 123.98             |               |
| 530-400     | - Supplies                             |                    |                    |               |
| 530-600     | - Traveling                            | 12.20              | 12.20              |               |
| 530-800     | - Taxes                                |                    |                    |               |
| 540-100     | Sampling, Assaying, Lab. - Salaries    |                    |                    |               |
| 540-150     | - Wages                                |                    |                    |               |
| 540-200     | - Add. Labor                           |                    |                    |               |
| 540-400     | - Supplies                             |                    |                    |               |
| 540-600     | - Traveling                            |                    |                    |               |
| 540-750     | - Services                             |                    |                    |               |
| 540-800     | - Taxes                                |                    |                    |               |
| 570-100     | Engineering - Salaries                 | 29.12              | 29.12              |               |
| 570-200     | - Add. Labor                           | 5.04               | 5.04               |               |
| 570-400     | - Supplies                             |                    |                    |               |
| 570-600     | - Traveling                            |                    |                    |               |
| 570-750     | - Services                             | 1628.90            | 1628.90            |               |
| 580-400     | Temporary Construction - Supplies      |                    |                    |               |
| 580-750     | - Services                             |                    |                    |               |
| 580-800     | - Taxes                                |                    |                    |               |
| 610-400     | Field Administration - Supplies        | 4.10               | 4.10               |               |
| 610-500     | - Communications                       | 30.89              | 30.89              |               |
| 610-750     | - Services                             | 1500.00            | 1500.00            |               |
| 610-780     | - Fuel, Power, Water                   | 11.48              | 11.48              |               |
| 610-800     | - Taxes                                | .10                | .10                |               |
| 620-100     | General Administration - Salaries      | 338.00             | 338.00             |               |
| 620-150     | - Wages                                | 5.20               | 5.20               |               |
| 620-200     | - Add. Labor                           | 65.48              | 65.48              |               |
| 620-400     | - Supplies                             | 10.26              | 10.26              |               |
| 620-750     | - Services                             |                    |                    |               |
| 620-800     | - Taxes                                | .62                | .62                |               |
| 620-950     | - Other                                |                    |                    |               |
| 641-400     | Distributable Accounts Auto - Supplies | 181.14             | 181.14             |               |
| 641-800     | - Taxes                                | 2.34               | 2.34               |               |
|             |  | <u>\$46,403.30</u> | <u>\$46,403.30</u> |               |

Authorized  
 Expended

Balance Unexpended

Orig:  
 CC:

\$125,000.00  
46,403.30  
\$ 78,596.70





June '77

# BRYANT CONSTRUCTION CO.

GENERAL CONTRACTORS — LIC. NO. A-43332  
 843 SPRAY STREET  
 SUPERIOR, ARIZONA 85273  
 PHONE 689-2627

1826

7-12-77  
 (APL)

DATE  
 July 10, 1977  
 CUSTOMER'S ORDER

P.O. No. T-326-7  
 SALESMAN

Sold To

ASARCO Incorporated

Box 5747

Tucson, Arizona 85703

TERMS

F.O.B.

Shipped To

SHIPPED VIA

|   |  |  |       |    |
|---|--|--|-------|----|
| Drilling 1'X2" Holes for Flag Poles @\$7.80 Hour        |  |  | \$249 | 60 |
| 32 man hours  |  |  |       |    |
| Survey Crew @ \$7.80                                    |  |  |       |    |
| 28 man hours  |  |  | 218   | 40 |
| 4 Days Pickup @10.00 Day                                |  |  | 40    | 00 |
| 4% State Tax on \$40.00                                 |  |  | 1     | 60 |
| Total   |  |  | \$509 | 60 |
| <i>Triangulation net<br/>&amp; drill hole locations</i> |  |  |       |    |
| <b>SUPERIOR EAST</b>                                    |  |  |       |    |
| APPROVED FOR PAYMENT                                    |  |  |       |    |
| By: <i>N. P. Whaley</i>                                 |  |  |       |    |
| (Signature)   |  |  |       |    |
| 7-12-77   |  |  |       |    |

Rediform

75 737

Poly Pak (50 sets) 7P737

## INVOICE

# ASARCO

Southwestern Exploration Division

August 5, 1977

TO: F. T. Graybeal

FROM: J. D. Sell

Future Costs -- A-10  
Superior East Project  
Pinal County, Arizona

Under the assumption that hole A-10 will be temporarily stopped at the present depth of 3417 feet in brecciated, oxidized Pinal Schist with dikes of a Laramide quartz feldspar biotite porphyry cut by quartz-sericite bands which contained pyrite-chalcopyrite, it is brought to mind that Joy will charge us for the NX and BX casing presently in the hole.

Mr. Whaley contacted Joy and the following figures were obtained.

A. The replacement cost of the casing in the hole is:

NX. 0-2437' = 2437' @ \$6.80/ft. = \$16,571.60

BX. 0-3417' = 3417' @ \$5.50/ft. = \$18,793.50

Total Cost \$35,365.10

B. Joy is presently charging us a rental on the casing (as they did for A-9) while we are coring QDC-5. The rental is 1% of the total cost or \$360.00 per month.

C. Joy has agreed to rent the A-10 casing for a maximum of 6 months on a month-per-month basis.

D. At the end of six months we would either 1) buy the entire string of \$35,365.10, or 2) pull the casing and pay for that casing we were unable to recover and/or was unusable to them.

E. In the event we bought the entire string, the accrued rental fees would be applicable on the purchase price.

On a further assumption that we reoccupy the site and continue drilling, the following costs are a possible minimum:

A. Drilling costs at BX core size:

3400-3500 = 100 ft. @ \$16.00/ft. = \$1,600.00

3500-4000 = 500 ft. @ \$18.00/ft. = 9,000.00

4000-4500 = 500 ft. @ \$20.20/ft. = 10,100.00

4500-4700 = 200 ft. @ \$22.60/ft. = 4,520.00

T.D. 1300 ft. of BX = \$25,220.00

August 5, 1977

- B. Mud and incidental costs in the BX coring of A-8 were \$3.34/ft. and in A-9 were \$2.65/ft. Using an average of \$3.10/ft. @ 1300 ft. = \$4,030.00 mud costs.
- C. Casing was lost in both previous holes:  
A-8 = \$5,172.93  
A-9 = \$4,502.74  
or a possible average of \$5,000.00 in lost casing.
- D. Supervision, geology, photographing, assaying, etc. could be sharply reduced but based on A-8 and A-9 figures would generally run around \$5,000.00.

Thus to complete A-10 to around 4700 feet would be about the same outgo expenses as would be involved in terminating the hole for a time period whereby we would be obligated to buy the entire string of casing in the hole.

Using the BX coring rates of A-8 (10.0 ft/shift) and of A-9 (11.1 ft/shift) or an average of 10.5 ft/shift the above 1300 feet of coring remaining in A-10 would take around 42 days plus a week of recovering casing and demobilization.

The crew and drill presently moving to the Devils Canyon project will be there between 2-1/2 months and 3 months to reach 3500 feet based on past drilling rates. I suspect the drilling will be slower because of the harder and more broken Apache Group units to be cored. This time coupled with the completion of A-10 would keep the very satisfactory crew and rig together until near the first of next year.

  
James D. Sell

JDS:lb

MONTHLY COST SUMMARY

Superior East EA-0010 Project, Pinal (County), Az (State)

A. DIRECT DRILLING (Acct. 521-)

CONTRACTORS' CHARGES

Invoiced during month covering current month's work

Contractors' Services

Statement Amt.

O. Power copy inside  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

See NPW

Estimated balance of contractors' charges covering work through end of current month

Contractors' Services

Estimated Cost

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Supplies and Freight

\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

Field Trailer Rental

\_\_\_\_\_

\_\_\_\_\_

Water Purchases (Drilling)

\_\_\_\_\_

\_\_\_\_\_

B. SITE PREPARATION (Acct. 580-)

CONTRACTORS' CHARGES

Invoiced during month covering current month's work

Contractors' Services

Statement Amt.

\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

Estimated balance of contractors' charges covering work through end of current month

Contractors' Services

Estimated Cost

\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

Supplies and Freight

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Over

A-10

TRUCK MILEAGE

BX 3417' - 3571' = 154'

21

Mud 16

CASING TIME

Dext. - 1

7-26 - 24 hr.

Cellex - 1

7-27 24 hr.

CC16 - 1

7-28 8 hr.

FloSol - 1

+ demobilization. July 26 - Aug 1977

CASING IN HOLE

4" - 11'

IXX - 2437 & shoe Bit

BX - 3417 & shoe Bit

AMPLERS, SAMPLING, SAMPLE PREPARATION, ASSAYING (Acct. 540-)

Wages (Temporary Help)

| <u>Name</u> | <u>No. of Straight Time Hours During Month</u> | <u>No. of Overtime Hours During Month</u> |
|-------------|--|---|
| _____       | _____  | _____                                     |
| _____       | _____  | _____                                     |

Assaying

Assayer

Charge or Estimated Expense for Assaying Performed During Month

|       |       |
|-------|-------|
| _____ | _____ |
| _____ | _____ |

D. CLAIM STAKING, VALIDATION (Acct. 507-)

Invoiced during month covering current month's work

Contractors' Services

Statement Amt.

|       |       |
|-------|-------|
| _____ | _____ |
| _____ | _____ |

Estimated balance of contractors' charges covering work through end of current month

Contractors' Services

Estimated Cost

|       |       |
|-------|-------|
| _____ | _____ |
| _____ | _____ |

Wages

Name

No. of Straight Time Hours During Month

No. of Overtime Hours During Month

|       |       |       |
|-------|-------|-------|
| _____ | _____ | _____ |
| _____ | _____ | _____ |

E. OTHER (Itemize any other major expenses not covered above or by invoice.)

Item

Cost

|   |                        |
|---|------------------------|
| Paul Bryant (A9 Bnd Cleanup & Reins.)<br>(Invoice 1835) | <del>\$</del> 1,751.89 |
| _____   | _____                  |
| _____   | _____                  |
| _____   | _____                  |



Purchase Order #

P.O. # T-413-7

Clear-out pond, pour spillway & riprap edge

1830

# BRYANT CONSTRUCTION CO.

GENERAL CONTRACTORS — LIC. NO. A-43332  
843 SPRAY STREET  
SUPERIOR, ARIZONA 85273  
PHONE 689-2627

Sold To

ASARCO Incorporated

Box 5747

Tucson, Arizona 85703

Shipped To

O-A-9 Pond Superior East Project

DATE

July 29, 1977

CUSTOMER'S ORDER

P.O. No. T-326-7

SALESMAN

TERMS

F.O.B.

SHIPPED VIA

2 1/2 Yard Loader @ \$35.00 Hour

Cleaning Tank & Loading Truck

20 hrs

\$ 700 00

Raising Dam 2 1/2 Feet

4

140 00

Installing Rip Rap on South End of New Concrete

4

140 00

12yd. Ford Dump Truck @ \$25.00 Hour

Hauling 97 Loads of Material from Stock Tanks

24 hrs

600 00

Man Hours @ \$7.80 Hour

Remove & Replace Fence Across Stock Tank

16 hrs

124 80

\$1,704 80

4% State Tax Less Labor

47 09

Total

\$1,751 89

*OK for Payment*  
*Superior East - EA-0010*  
*James H. S. Co*

Redifprm

7S 737  
Poly Pak (50 sets) 7P737

## INVOICE

MONTHLY COST SUMMARY

SUPERIOR EAST

Project, PINAL  
(County)

ARZ.  
(State)

A. DIRECT DRILLING (Acct. 521-)

CONTRACTORS' CHARGES

Invoiced during month covering current month's work

Contractors' Services

Statement Amt.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_ X \_\_\_\_\_

Estimated balance of contractors' charges covering work through end of current month

Contractors' Services

Estimated Cost

Joy MFG. Co.:  
a.) DRILLING A-10 FROM 3417' TO 3571' AND  
CASING RENTAL

\$ 5,300.00

\$ 5,300.00

Supplies and Freight

\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_ X \_\_\_\_\_

Field Trailer Rental

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_ X \_\_\_\_\_

Water Purchases (Drilling)

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_ X \_\_\_\_\_

B. SITE PREPARATION (Acct. 580-)

CONTRACTORS' CHARGES

Invoiced during month covering current month's work

Contractors' Services

Statement Amt.

\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_ X \_\_\_\_\_

Estimated balance of contractors' charges covering work through end of current month

Contractors' Services

Estimated Cost

\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_ X \_\_\_\_\_

Supplies and Freight

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_ X \_\_\_\_\_

C. SAMPLERS, SAMPLING, SAMPLE PREPARATION, ASSAYING (Acct. 540-)

Wages (Temporary Help)

| <u>Name</u> | <u>No. of Straight Time Hours During Month</u> | <u>No. of Overtime Hours During Month</u> |
|-------------|--|---|
| _____       | _____  | _____                                     |
| _____       | _____  | _____                                     |

\_\_\_\_\_ X

Assaying

| <u>Assayer</u> | <u>Charge or Estimated Expense for Assaying Performed During Month</u> |
|----------------|--|
| SEE JDSELL     | _____  |
| _____          | _____  |

\_\_\_\_\_ ?

D. CLAIM STAKING, VALIDATION (Acct. 507-)

Invoiced during month covering current month's work

| <u>Contractors' Services</u> | <u>Statement Amt.</u> |
|------------------------------|-----------------------|
| _____                        | _____                 |
| _____                        | _____                 |

\_\_\_\_\_ X

Estimated balance of contractors' charges covering work through end of current month

| <u>Contractors' Services</u> | <u>Estimated Cost</u> |
|------------------------------|-----------------------|
| _____                        | _____                 |
| _____                        | _____                 |

\_\_\_\_\_ X

Wages

| <u>Name</u> | <u>No. of Straight Time Hours During Month</u> | <u>No. of Overtime Hours During Month</u> |
|-------------|--|---|
| _____       | _____  | _____                                     |
| _____       | _____  | _____                                     |

\_\_\_\_\_ X

E. OTHER (Itemize any other major expenses not covered above or by invoice.)

| <u>Item</u> | <u>Cost</u> |
|-------------|-------------|
| _____       | _____       |
| _____       | _____       |
| _____       | _____       |
| _____       | _____       |

\_\_\_\_\_ X

TOTAL = \$ 5,300.00

APD  
8-31-77

DESCRIPTION: +3417' JULY BXWL → 3571' (HOLE TEMPORARILY BOTTOMED. RIG → DEVILS CYN PROJECT) AUGUST

|                | 26 | 27 | 28 | 29 | 30 | 31              | 1  | 2  | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | TOTAL | PRICE | AMOUNT |    |       |          |
|----------------|----|----|----|----|----|-----------------|----|----|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------|-------|--------|----|-------|----------|
| FEET DRILLED   |    |    |    |    |    |                 |    |    |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |        |    |       |          |
| → 3417 NXE     | 0  | 0  | 0  |    |    |                 |    |    |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |        |    |       |          |
| 3417 → 3500 BX |    |    |    | 17 | 49 | <sup>50</sup> N | 17 |    |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |        | 83 | 16.00 | 1,328.00 |
| 3500 → 3571 BX |    |    |    |    |    |                 | 26 | 45 | 0 |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |        | 71 | 18.00 | 1,278.00 |

TOTAL FT. = 154' SUB TOTAL \$ 2,606.00

|              | 26 | 27 | 28 | 29 | 30 | 31 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | TOTAL | PRICE | AMOUNT |  |    |       |          |
|--------------|----|----|----|----|----|----|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------|-------|--------|--|----|-------|----------|
| CEMENTING    |    |    |    |    |    |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |        |  |    |       |          |
| CONDITIONING |    |    |    |    |    |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |        |  |    |       |          |
| CASING       | 24 | 24 | 8  |    |    |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |        |  | 56 | 24.00 | 1,344.00 |

|             | 26 | 27 | 28 | 29 | 30 | 31 | 1 | 2 | 3 | 4  | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | TOTAL | PRICE | AMOUNT |  |  |    |  |       |
|-------------|----|----|----|----|----|----|---|---|---|----|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------|-------|--------|--|--|----|--|-------|
| DISMANTLING |    |    |    |    |    |    |   |   | 9 | 16 |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |        |  |  | 25 |  | N/C * |

SUB TOTAL \$ 1,344.00

|           | 26 | 27 | 28 | 29 | 30 | 31 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | TOTAL | PRICE | AMOUNT |  |    |        |        |
|-----------|----|----|----|----|----|----|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------|-------|--------|--|----|--------|--------|
| MATERIALS |    |    |    |    |    |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |        |  |    |        |        |
| MUD       | 10 |    |    |    | 3  |    | 3 |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |        |  | 16 | 3.60   | 57.60  |
| DEXTRID   | 1  |    |    |    |    |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |        |  | 1  | 67.37  | 67.37  |
| CELLEX    |    |    |    |    |    |    |   |   | 1 |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |        |  | 1  | 166.57 | 166.57 |
| CC-16     |    |    |    |    |    |    |   |   | 1 |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |        |  | 1  | 26.68  | 26.68  |
| FLOSAL    |    |    |    |    |    |    |   |   | 1 |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |        |  | 1  | 28.62  | 28.62  |

MUD + ADDITIVES  
 $\$ \frac{438.14}{154'} = \$ 2.85/\text{FT.}$

|             | 26 | 27 | 28 | 29 | 30 | 31 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | TOTAL | PRICE | AMOUNT |  |  |  |     |      |       |
|-------------|----|----|----|----|----|----|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------|-------|--------|--|--|--|-----|------|-------|
| SOLUBLE OIL |    |    |    |    |    |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |        |  |  |  | 55' | 1.66 | 91.30 |
| CASING SHOE | 1  |    |    |    |    |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |        |  |  |  |     |      |       |

SUB TOTAL \$ 438.14

|                | 26       | 27 | 28 | 29 | 30 | 31 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | TOTAL | PRICE | AMOUNT |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|----------------|----------|----|----|----|----|----|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------|-------|--------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| TRUCK RENTAL   |          |    |    |    |    |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| MILEAGE        |          |    |    |    |    |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| LOADS OF WATER | 1p       | 2p | 2p | 1p |    |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                | P = POND |    |    |    |    |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

EST'D SUB TOTAL \$ 104.40

|                         | 26 | 27 | 28 | 29 | 30 | 31 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | TOTAL | PRICE | AMOUNT |  |  |  |  |
|-------------------------|----|----|----|----|----|----|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------|-------|--------|--|--|--|--|
| MISC. * DEMOBILIZATION  |    |    |    |    |    |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |        |  |  |  |  |
| CASING RENTAL FOR 1 MO. |    |    |    |    |    |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |        |  |  |  |  |

SUB TOTAL \$ 760.00

SAY \$ 5,300.00

\* CASING IN HOLE : 4" = 11 FT.  
 NX = 2437 FT. + SHOE BIT  
 BX = 3417 FT. + SHOE BIT

TOTAL \$ 5,252.54  
 mn 3031

EXPLORATION AUTHORIZATION NO. 0010-14  
 SUPERIOR EAST PROJECT  
 PINAL COUNTY, ARIZONA

TUCSON OFFICE

AUGUST - 1977

| Account No. | Item                                   | This Month        | This Year          | Total to Date |
|-------------|--|-------------------|--------------------|---------------|
| 506-950     | Rental Payments - Other                | \$                | \$                 | \$            |
| 521-100     | Surface Drilling - Salaries            | 71.88             | 522.88             |               |
| 521-200     | - Add. Labor                           | 11.40             | 100.20             |               |
| 521-400     | - Supplies                             |                   | 1.33               |               |
| 521-600     | - Traveling                            |                   |                    |               |
| 521-750     | - Services                             | 4935.57           | 59770.61           |               |
| 521-800     | - Taxes                                |                   | .08                |               |
| 530-100     | Geology - Salaries                     | 381.20            | 2259.20            |               |
| 530-200     | - Add. Labor                           | 60.81             | 353.26             |               |
| 530-400     | - Supplies                             |                   | 3.66               |               |
| 530-600     | - Traveling                            |                   |                    |               |
| 530-800     | - Taxes                                | 3.30              | 115.22             |               |
| 540-100     | Sampling, Assaying, Lab. - Salaries    |                   |                    |               |
| 540-150     | - Wages                                |                   |                    |               |
| 540-200     | - Add. Labor                           |                   |                    |               |
| 540-400     | - Supplies                             |                   |                    |               |
| 540-600     | - Traveling                            |                   |                    |               |
| 540-750     | - Services                             |                   | 508.00             |               |
| 540-800     | - Taxes                                |                   | 1.60               |               |
| 570-100     | Engineering - Salaries                 |                   | 29.12              |               |
| 570-200     | - Add. Labor                           |                   | 5.04               |               |
| 570-400     | - Supplies                             |                   |                    |               |
| 570-600     | - Traveling                            |                   |                    |               |
| 570-750     | - Services                             |                   |                    |               |
| 580-400     | Temporary Construction - Supplies      |                   | 1628.90            |               |
| 590-750     | Construction - Services                |                   | 2172.80            |               |
| 590-800     | - Taxes                                |                   | 65.81              |               |
| 610-400     | Field Administration - Supplies        |                   | 4.10               |               |
| 610-500     | - Communications                       | 23.78             | 76.26              |               |
| 610-750     | - Services                             |                   | 1500.20            |               |
| 610-780     | - Fuel, Power, Water                   | 11.48             | 34.37              |               |
| 610-800     | - Taxes                                |                   | 1.16               |               |
| 620-100     | General Administration - Salaries      | 139.00            | 688.00             |               |
| 620-150     | - Wages                                |                   | 5.20               |               |
| 620-200     | - Add. Labor                           | 22.80             | 128.96             |               |
| 620-400     | - Supplies                             | 8.70              | 114.15             |               |
| 620-750     | - Services                             |                   |                    |               |
| 620-800     | - Taxes                                | .52               | 6.85               |               |
| 620-950     | - Other                                |                   |                    |               |
| 641-400     | Distributable Accounts Auto - Supplies | 32.15             | 327.21             |               |
| 641-800     | - Taxes                                | 17                | 30.9               |               |
|             |  | <u>\$ 5702.76</u> | <u>\$ 70426.06</u> |               |

Authorized  
 Expended

\$125000.00  
70426.06

Balance Unexpended

\$ 54573.94

Orig:  
 CC:

# ASARCO

Southwestern Exploration Division

September 21, 1977

TO: J. D. Sell

FROM: F. T. Graybeal

Superior East Drilling  
Superior East Project  
Pinal County, Arizona

I was verbally informed by T. C. Osborne on 9/19/77 that we may complete hole A-10, as far as existing funds allow, after the Devils Canyon drilling ends. We presently have, through Aug. 25, 1977 accounting, \$54,600 remaining to complete A-10. Mr. Osborne informed me that if we are in 2% Cu when funds run out we may continue, but if we are in 0.8% Cu we may have to bottom the hole.

Would you please give me an estimate of the cost to complete A-10 including estimates for possible lost casing and geologic studies for the remainder of 1977.

*F. T. Graybeal*  
F. T. Graybeal

FTG:1b

cc: WLKurtz

11/9/77

FROM: F. T. GRAYBEAL

To: JDSELL  
SUPERIOR E

TCD says OK to complete  
A-10. If expenditures  
look like they will exceed  
\$25,000 - 30,000 he  
wants to know. If are  
in 1-2% Cu ok - if  
not may have to bottom  
at that point. Move directly  
A-10 from QDC-5 and no  
rush to complete A-10 this  
year.

cc. WLK

Sept? '77

FTG  
GOS.

Future Costs - A-10  
Superior East Project  
River County, Arizona

Under the assumption that hole A-10 will be temporarily stopped at the present depth of 3417 feet in brecciated, oxidized, River Schist with dips of a laminar quality feldspar filled porphyry cut by quartz-schist bands which contained pyrite-chalcopyrite, it is brought to mind that Jay will undoubtedly charge us for the casing presently in the hole:

A. Casing Cost in hole:

|                                  |              |
|----------------------------------|--------------|
| Nx, 0-2437 = 2437' @ \$6.80/ft = | \$16,571.60  |
| Bx, 0-3417 = 3417' @ \$5.50/ft = | 18,793.50    |
| 4" surface, 10' @ 4.00/ft =      | 40.00        |
|                                  | \$ 35,405.10 |

On a further assumption that we reoccupy the site and continue drilling, the following costs are a possible minimum:

B. Drilling costs at Bx core size:

|                                   |              |
|-----------------------------------|--------------|
| 3400-3500 = 100 ft @ \$16.00/ft = | 1,600.00     |
| 3500-4000 = 500 @ 18.00 =         | 9,000.00     |
| 4000-4500 = 500 @ 20.20 =         | 10,100.00    |
| 4500-4700.7 = 200 @ 22.60 =       | 4,520.00     |
|                                   | \$ 25,220.00 |

C. Casing lost in A-8 (\$5,172.93) and A-9 (\$4502.74)  
average another 4700' to 4800' or say \$5000'



Using the BX casing rate of A-8 of 10.0 ft/shift  
& A-9 of 11.1 ft/shift or an average of 10.5 ft/shift,  
the above 1300 feet could be cased in 124 shifts or  
41+ days plus a week of pulling casing & dismantling.

Supervision, geology, casing, could be sharply  
reduced by ~~administration~~ but would amount to  
around \$5,000 based on A-8 & A-9 figures.

Thus to complete A-10 to around 4700 feet would  
be about the same outgo expenses as would terminate  
the hole and paying for the casing presently in  
the hole.

I would strongly urge this consideration.

Secondarily, the crew & drill presently moving to  
the Devils Canyon project will be there between 2 1/2 months  
& 3 months to reach 3500 feet based on past drilling rates. I  
suspect ~~it~~ <sup>the drilling</sup> will be somewhat slower because of the harder  
& more broken Apache Group units to be cased. This  
time coupled with completion of A-10 would keep the  
crew & rig together until near the first of next year  
when things may be much more favorable to keeping  
the work going. (??).

VTY

Jim

# ASARCO

Southwestern Exploration Division

September 23, 1977

TO: F. T. Graybeal

FROM: J. D. Sell

Superior East Drilling  
Completion of Hole A-10  
Superior East Project  
Pinal County, Arizona

As requested, I submit the following estimated costs to complete hole A-10 using the following parameters.

|                        |                 |
|------------------------|-----------------|
| Present Depth:         | 3571' (BX size) |
| Basal Fault:           | 3700'           |
| Oxidized to:           | 3800'           |
| End of qtz sulf veins: | 4250' T.D.      |

Estimated Drilling Time at ave. rate of 31 ft/day = 29 days = 5 weeks.

Estimated Costs:

|  |              |
|--|--------------|
| Casing rental (Set., Oct.) 2 mo. @ \$360.00    | \$ 720       |
| Remobilization (November)                      | 400          |
| Drilling BX 3571-4000 = 429' @ \$18.00         | 7,722        |
| Drilling BX 4000-4250 = 250' @ \$20.20         | 5,050        |
| Mud Cost (ave. last two holes) 680' @ \$3.10   | 2,108        |
| Water Truck Rental & Mileage, 2 mo. @ \$400.00 | 800          |
| Casing Loss (ave. last two holes)              | 5,000        |
| Mollen-Hauer Survey                            | 1,200        |
| Demobilization                                 | 400          |
| Supervision, Travel, & Assaying                | <u>4,500</u> |
|  | \$27,900     |
| say  | \$30,000     |

With the August accounting at \$54,600 remaining in the EA, it will leave some monies for additional studies in the area and storage rental for 1978.

  
James D. Sell

JDS:1b

SOUTHWESTERN EXPLORATION DIVISION

26th AUG. thru  
25th SEPT, 1977

MONTHLY COST SUMMARY

6 SUPERIOR EAST Project, PINAL, ARZ.  
(County) (State)

A. DIRECT DRILLING (Acct. 521-)

CONTRACTORS' CHARGES

Invoiced during month covering current month's work

| <u>Contractors' Services</u> | <u>Statement Amt.</u> |          |
|------------------------------|-----------------------|----------|
| _____                        | _____                 |          |
| _____                        | _____                 |          |
| _____                        | _____                 |          |
| _____                        | _____                 | <u>X</u> |

Estimated balance of contractors' charges covering work through end of current month

| <u>Contractors' Services</u>           | <u>Estimated Cost</u> |                  |
|--|-----------------------|------------------|
| <u>JOY MFG. Co. (RENTAL FOR CASING</u> | <u>\$ 360.00</u>      |                  |
| <u>LEFT IN A-10 AT ASARCO REQUEST)</u> |                       |                  |
| _____                                  | _____                 | <u>\$ 360.00</u> |
| _____                                  | _____                 |                  |

|                             |       |          |
|-----------------------------|-------|----------|
| <u>Supplies and Freight</u> | _____ | <u>X</u> |
| _____                       | _____ |          |

|                             |       |          |
|-----------------------------|-------|----------|
| <u>Field Trailer Rental</u> | _____ | <u>X</u> |
|-----------------------------|-------|----------|

|                                   |       |          |
|-----------------------------------|-------|----------|
| <u>Water Purchases (Drilling)</u> | _____ | <u>X</u> |
|-----------------------------------|-------|----------|

B. SITE PREPARATION (Acct. 580-)

CONTRACTORS' CHARGES

Invoiced during month covering current month's work

| <u>Contractors' Services</u> | <u>Statement Amt.</u> |          |
|------------------------------|-----------------------|----------|
| _____                        | _____                 |          |
| _____                        | _____                 |          |
| _____                        | _____                 | <u>X</u> |

Estimated balance of contractors' charges covering work through end of current month

| <u>Contractors' Services</u> | <u>Estimated Cost</u> |          |
|------------------------------|-----------------------|----------|
| _____                        | _____                 |          |
| _____                        | _____                 | <u>X</u> |

|                             |       |          |
|-----------------------------|-------|----------|
| <u>Supplies and Freight</u> | _____ | <u>X</u> |
| _____                       | _____ |          |
| _____                       | _____ |          |

C. SAMPLERS, SAMPLING, SAMPLE PREPARATION, ASSAYING (Acct. 540-)

Wages (Temporary Help)

| <u>Name</u> | <u>No. of Straight Time Hours During Month</u> | <u>No. of Overtime Hours During Month</u> |
|-------------|--|---|
| _____       | _____  | _____                                     |
| _____       | _____  | _____                                     |

X

Assaying

| <u>Assayer</u> | <u>Charge or Estimated Expense for Assaying Performed During Month</u> |
|----------------|--|
| _____          | _____  |
| _____          | _____  |

X

D. CLAIM STAKING, VALIDATION (Acct. 507-)

Invoiced during month covering current month's work

| <u>Contractors' Services</u> | <u>Statement Amt.</u> |
|------------------------------|-----------------------|
| _____                        | _____                 |
| _____                        | _____                 |

X

Estimated balance of contractors' charges covering work through end of current month

| <u>Contractors' Services</u> | <u>Estimated Cost</u> |
|------------------------------|-----------------------|
| _____                        | _____                 |
| _____                        | _____                 |

X

Wages

| <u>Name</u> | <u>No. of Straight Time Hours During Month</u> | <u>No. of Overtime Hours During Month</u> |
|-------------|--|---|
| _____       | _____  | _____                                     |
| _____       | _____  | _____                                     |

X

E. OTHER (Itemize any other major expenses not covered above or by invoice.)

| <u>Item</u> | <u>Cost</u> |
|-------------|-------------|
| _____       | _____       |
| _____       | _____       |
| _____       | _____       |
| _____       | _____       |
| _____       | _____       |

X

TOTAL = \$ 360.00

ND

10-3-77

SUPERIOR EAST PROJECT  
 PINAL COUNTY, ARIZONA

September - 1977

| Account No. | Item                                   | This Month       | This Year          | Total to Date |
|-------------|--|------------------|--------------------|---------------|
| 506-950     | Rental Payments - Other                |                  |                    |               |
| 521-100     | Surface Drilling - Salaries            | 78.41            | 601.29             |               |
| 521-200     | - Add. Labor                           | 13.76            | 113.96             |               |
| 521-400     | - Supplies                             |                  | 1.33               |               |
| 521-600     | - Traveling                            |                  |                    |               |
| 521-750     | - Services                             | 360.00           | 60130.61           |               |
| 521-800     | - Taxes                                |                  |                    |               |
| 530-100     | Geology - Salaries                     | 113.86           | 2373.06            |               |
| 530-200     | - Add. Labor                           | 19.99            | 373.25             |               |
| 530-400     | - Supplies                             |                  | 3.66               |               |
| 530-600     | - Traveling                            |                  | 115.22             |               |
| 530-800     | - Taxes                                |                  |                    |               |
| 540-100     | Sampling, Assaying, Lab. - Salaries    |                  |                    |               |
| 540-150     | - Wages                                |                  |                    |               |
| 540-200     | - Add. Labor                           |                  |                    |               |
| 540-400     | - Supplies                             |                  |                    |               |
| 540-600     | - Traveling                            |                  |                    |               |
| 540-750     | - Services                             | 55.44            | 563.44             |               |
| 540-800     | - Taxes                                |                  | 1.60               |               |
| 570-100     | Engineering - Salaries                 |                  | 29.12              |               |
| 570-200     | - Add. Labor                           |                  | 5.04               |               |
| 570-400     | - Supplies                             |                  |                    |               |
| 570-600     | - Traveling                            |                  |                    |               |
| 570-750     | - Services                             |                  | 1628.90            |               |
| 580-400     | Temporary Construction - Supplies      |                  |                    |               |
| 590-750     | Construction - Services                |                  | 2172.80            |               |
| 590-800     | - Taxes                                |                  | 65.81              |               |
| 610-400     | Field Administration - Supplies        |                  | 4.10               |               |
| 610-500     | - Communications                       | 19.89            | 96.15              |               |
| 610-750     | - Services                             |                  | 1520.22            |               |
| 610-780     | - Fuel, Power, Water                   | 11.66            | 46.03              |               |
| 610-800     | - Taxes                                |                  | 1.16               |               |
| 620-100     | General Administration - Salaries      | 108.27           | 796.27             |               |
| 620-150     | - Wages                                |                  | 57.20              |               |
| 620-200     | - Add. Labor                           | 19.02            | 147.98             |               |
| 620-400     | - Supplies                             | 12.75            | 126.90             |               |
| 620-750     | - Services                             |                  |                    |               |
| 620-800     | - Taxes                                | 77               | 762                |               |
| 620-950     | - Other                                | 13.00            | 13100              |               |
| 641-400     | Distributable Accounts Auto - Supplies |                  | 3272.1             |               |
| 641-800     | - Taxes                                |                  | 309                |               |
|             |  | <u>\$ 826.82</u> | <u>\$ 71252.88</u> |               |

Authorized  
 Expended

Balance Unexpended

Orig:  
 CC:

\$125000.00  
 71252.88  
\$ 53747.12

MONTHLY COST SUMMARY

Superior East EA-0010 Project,

Pinal  
(County)

Az  
(State)

A. DIRECT DRILLING (Acct. 521-)

CONTRACTORS' CHARGES

Invoiced during month covering current month's work

Contractors' Services

Statement Amt.

|       |       |
|-------|-------|
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |

Estimated balance of contractors' charges covering work through end of current month

Contractors' Services

Estimated Cost

|       |       |
|-------|-------|
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |

Supplies and Freight

|       |       |
|-------|-------|
| _____ | _____ |
| _____ | _____ |

Field Trailer Rental

|       |       |
|-------|-------|
| _____ | _____ |
| _____ | _____ |

Water Purchases (Drilling)

|       |       |
|-------|-------|
| _____ | _____ |
| _____ | _____ |

B. SITE PREPARATION (Acct. 580-)

CONTRACTORS' CHARGES

Invoiced during month covering current month's work

Contractors' Services

Statement Amt.

|       |       |
|-------|-------|
| _____ | _____ |
| _____ | _____ |

Estimated balance of contractors' charges covering work through end of current month

Contractors' Services

Estimated Cost

|       |       |
|-------|-------|
| _____ | _____ |
| _____ | _____ |

Supplies and Freight

|       |       |
|-------|-------|
| _____ | _____ |
| _____ | _____ |

*See next page*

*over*

SAMPLERS, SAMPLING, SAMPLE PREPARATION, ASSAYING (Acct. 540-)

Wages (Temporary Help)

| <u>Name</u> | <u>No. of Straight Time Hours During Month</u> | <u>No. of Overtime Hours During Month</u> |
|-------------|--|---|
| _____       | _____  | _____                                     |
| _____       | _____  | _____                                     |

Assaying

| <u>Assayer</u>                | <u>Charge or Estimated Expense for Assaying Performed During Month</u> |
|-------------------------------|--|
| <u>AARL Invoice No. 15361</u> | <u>\$63.00</u>   |
| _____                         | _____  |

D. CLAIM STAKING, VALIDATION (Acct. 507-)

Invoiced during month covering current month's work

| <u>Contractors' Services</u> | <u>Statement Amt.</u> |
|------------------------------|-----------------------|
| _____                        | _____                 |
| _____                        | _____                 |

Estimated balance of contractors' charges covering work through end of current month

| <u>Contractors' Services</u> | <u>Estimated Cost</u> |
|------------------------------|-----------------------|
| _____                        | _____                 |
| _____                        | _____                 |

Wages

| <u>Name</u> | <u>No. of Straight Time Hours During Month</u> | <u>No. of Overtime Hours During Month</u> |
|-------------|--|---|
| _____       | _____  | _____                                     |
| _____       | _____  | _____                                     |

E. OTHER (Itemize any other major expenses not covered above or by invoice.)

| <u>Item</u> | <u>Cost</u> |
|-------------|-------------|
| _____       | _____       |
| _____       | _____       |
| _____       | _____       |
| _____       | _____       |

3441 East Milber

Phone 889-5787

# AMERICAN ANALYTICAL and RESEARCH LABORATORIES

ASSAYERS • CHEMISTS • METALLURGISTS

TUCSON, ARIZONA 85714

SAMPLE SUBMITTED BY ASARCO, INC.

DATE Sept. 29, 1977

| SAMPLE MARKED | GOLD<br>OZ./TON | SILVER<br>OZ./TON | PPM<br>COPPER | PPM<br>LEAD | PPM<br>ZINC | PPM<br>MOLYBDENUM | Percent<br>Fe |
|---------------|-----------------|-------------------|---------------|-------------|-------------|-------------------|---------------|
| B-6-D         |                 |                   | 75            | 372         | 97          | 7                 | 1.84          |
| B-6-E         |                 |                   | 73            | 458         | 692         | 11                | 1.69          |
| B-6-F         |                 |                   | 54            | 66          | 279         | 5                 | 1.79          |
| B-6-G         |                 |                   | 72            | 208         | 117         | 10                | 2.15          |
| B-6-H         |                 |                   | 583           | 124         | 1679        | 8                 | 8.50          |
| B-7-A         |                 |                   | 73            | 134         | 339         | 6                 | 5.43          |

3441 East Milber

INVOICE NO.

Phone 889-5787

15361

# AMERICAN ANALYTICAL and RESEARCH LABORATORIES

ASSAYERS - CHEMISTS - METALLURGISTS

TUCSON, ARIZONA 85714

SAMPLE SUBMITTED BY ASARCO, INC.

DATE Sept. 29, 1977

Mr. J. D. Sell

| SAMPLE MARKED           | ANALYSIS                | CHARGES  |
|-------------------------|-------------------------|----------|
| B-6-D -- B-6-H<br>B-7-A | Geo-Chem Cu, Pb, Zn, Mo | \$ 42.00 |
| 6 Samples               | Fe                      | 21.50    |
|                         | TOTAL                   | \$ 63.00 |

*OK for payment  
Superior East EA-0010  
James D Sell*

THANK YOU MUCH!!



SOUTHWESTERN EXPLORATION DIVISION

26th SEPT thru  
25th OCT, 1977

MONTHLY COST SUMMARY

SUPERIOR EAST Project, PINAL, ARZ  
(County) (State)

A. DIRECT DRILLING (Acct. 521-)

CONTRACTORS' CHARGES

Invoiced during month covering current month's work

| <u>Contractors' Services</u> | <u>Statement Amt.</u> |          |
|------------------------------|-----------------------|----------|
| _____                        | _____                 |          |
| _____                        | _____                 |          |
| _____                        | _____                 | <u>X</u> |

Estimated balance of contractors' charges covering work through end of current month

| <u>Contractors' Services</u>           | <u>Estimated Cost</u> |                  |
|--|-----------------------|------------------|
| <u>Joy Mfg. Co. (RENTAL FOR CASING</u> |                       |                  |
| <u>LEFT IN A-10 AT ASARCO REQUEST)</u> | <u>\$ 360.00</u>      |                  |
| _____                                  | _____                 | <u>\$ 360.00</u> |

Supplies and Freight

|       |       |          |
|-------|-------|----------|
| _____ | _____ | <u>X</u> |
|-------|-------|----------|

Field Trailer Rental

|       |       |          |
|-------|-------|----------|
| _____ | _____ | <u>X</u> |
|-------|-------|----------|

Water Purchases (Drilling)

|       |       |          |
|-------|-------|----------|
| _____ | _____ | <u>X</u> |
|-------|-------|----------|

B. SITE PREPARATION (Acct. 580-)

CONTRACTORS' CHARGES

Invoiced during month covering current month's work

| <u>Contractors' Services</u> | <u>Statement Amt.</u> |          |
|------------------------------|-----------------------|----------|
| _____                        | _____                 |          |
| _____                        | _____                 | <u>X</u> |

Estimated balance of contractors' charges covering work through end of current month

| <u>Contractors' Services</u> | <u>Estimated Cost</u> |          |
|------------------------------|-----------------------|----------|
| _____                        | _____                 |          |
| _____                        | _____                 | <u>X</u> |

Supplies and Freight

|       |       |          |
|-------|-------|----------|
| _____ | _____ | <u>X</u> |
|-------|-------|----------|

C. SAMPLERS, SAMPLING, SAMPLE PREPARATION, ASSAYING (Acct. 540-)

Wages (Temporary Help)

| <u>Name</u> | <u>No. of Straight Time Hours During Month</u> | <u>No. of Overtime Hours During Month</u> |   |
|-------------|--|---|---|
| _____       | _____  | _____                                     | X |
| _____       | _____  | _____                                     |   |

Assaying

| <u>Assayer</u> | <u>Charge or Estimated Expense for Assaying Performed During Month</u> |   |
|----------------|--|---|
| _____          | _____  | X |
| _____          | _____  |   |

D. CLAIM STAKING, VALIDATION (Acct. 507-)

Invoiced during month covering current month's work

| <u>Contractors' Services</u> | <u>Statement Amt.</u> |   |
|------------------------------|-----------------------|---|
| _____                        | _____                 | X |
| _____                        | _____                 |   |

Estimated balance of contractors' charges covering work through end of current month

| <u>Contractors' Services</u> | <u>Estimated Cost</u> |   |
|------------------------------|-----------------------|---|
| _____                        | _____                 | X |
| _____                        | _____                 |   |

Wages

| <u>Name</u> | <u>No. of Straight Time Hours During Month</u> | <u>No. of Overtime Hours During Month</u> |   |
|-------------|--|---|---|
| _____       | _____  | _____                                     | X |
| _____       | _____  | _____                                     |   |

E. OTHER (Itemize any other major expenses not covered above or by invoice.)

| <u>Item</u> | <u>Cost</u> |   |
|-------------|-------------|---|
| _____       | _____       |   |
| _____       | _____       |   |
| _____       | _____       |   |
| _____       | _____       | X |

TOTAL = \$ 360.00

NPID  
10-31-77

EXPLORATION AUTHORIZATION NO. 0010-14  
 SUPERIOR EAST PROJECT  
 PINAL COUNTY, ARIZONA

TRICSON OFFICE  
*October* - 1977

| Account No. | Item                                   | This Month       | This Year          | Total to Date |
|-------------|--|------------------|--------------------|---------------|
| 506-950     | Rental Payments - Other                |                  |                    |               |
| 521-100     | Surface Drilling - Salaries            |                  | 601.29             |               |
| 521-200     | - Add. Labor                           |                  | 113.96             |               |
| 521-400     | - Supplies                             |                  | 1.33               |               |
| 521-600     | - Traveling                            |                  |                    |               |
| 521-750     | - Services                             | 360.00           | 6049.61            |               |
| 521-800     | - Taxes                                |                  |                    |               |
| 530-100     | Geology - Salaries                     |                  | 2373.06            |               |
| 530-200     | - Add. Labor                           |                  | 373.25             |               |
| 530-400     | - Supplies                             |                  | 3.66               |               |
| 530-600     | - Traveling                            |                  | 115.22             |               |
| 530-800     | - Taxes                                |                  |                    |               |
| 540-100     | Sampling, Assaying, Lab. - Salaries    |                  |                    |               |
| 540-150     | - Wages                                |                  |                    |               |
| 540-200     | - Add. Labor                           |                  |                    |               |
| 540-400     | - Supplies                             |                  |                    |               |
| 540-600     | - Traveling                            |                  |                    |               |
| 540-750     | - Services                             |                  | 563.44             |               |
| 540-800     | - Taxes                                |                  | 1.60               |               |
| 570-100     | Engineering - Salaries                 |                  | 27.12              |               |
| 570-200     | - Add. Labor                           |                  | 5.04               |               |
| 570-400     | - Supplies                             |                  |                    |               |
| 570-600     | - Traveling                            |                  |                    |               |
| 570-750     | - Services                             |                  | 1628.90            |               |
| 580-400     | Temporary Construction - Supplies      |                  |                    |               |
| 590-750     | Construction - Services                |                  | 2172.80            |               |
| 590-800     | - Taxes                                |                  | 65.81              |               |
| 610-400     | Field Administration - Supplies        |                  | 4.10               |               |
| 610-500     | - Communications                       |                  | 96.15              |               |
| 610-750     | - Services                             |                  | 1521.20            |               |
| 610-780     | - Fuel, Power, Water                   | 3.78             | 49.81              |               |
| 610-800     | - Taxes                                |                  | 1.16               |               |
| 620-100     | General Administration - Salaries      | 121.35           | 917.62             |               |
| 620-150     | - Wages                                |                  | 5.20               |               |
| 620-200     | - Add. Labor                           | 24.10            | 172.08             |               |
| 620-400     | - Supplies                             |                  | 126.90             |               |
| 620-750     | - Services                             |                  |                    |               |
| 620-800     | - Taxes                                |                  | 7.62               |               |
| 620-950     | - Other                                |                  | 13.00              |               |
| 641-400     | Distributable Accounts Auto - Supplies |                  | 327.21             |               |
| 641-800     | - Taxes                                |                  | 3.09               |               |
|             |  | <u>\$ 509.23</u> | <u>\$ 71762.11</u> |               |

Authorized  
 Expended

Balance Unexpended

Orig:  
 CC:

\$125000.00  
 71762.11

\$ 53,237.89

MONTHLY COST SUMMARY

Superior East EA-0010 Project, Pinal (County), Az (State)

DIRECT DRILLING (Acct. 521-)

CONTRACTORS' CHARGES

Invoiced during month covering current month's work

| <u>Contractors' Services</u>                      | <u>Statement Amt.</u> |
|---|-----------------------|
| <u>10Y (See NPW) (estimate 8200<sup>00</sup>)</u> |                       |
|   |                       |
|   |                       |
|   |                       |

Estimated balance of contractors' charges covering work through end of current month

| <u>Contractors' Services</u> | <u>Estimated Cost</u> |
|------------------------------|-----------------------|
|                              |                       |
|                              |                       |
|                              |                       |
|                              |                       |

Supplies and Freight

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Field Trailer Rental

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Water Purchases (Drilling)

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SITE PREPARATION (Acct. 580-)

CONTRACTORS' CHARGES

Invoiced during month covering current month's work

| <u>Contractors' Services</u> | <u>Statement Amt.</u> |
|------------------------------|-----------------------|
|                              |                       |
|                              |                       |
|                              |                       |
|                              |                       |

Estimated balance of contractors' charges covering work through end of current month

| <u>Contractors' Services</u> | <u>Estimated Cost</u> |
|------------------------------|-----------------------|
|                              |                       |
|                              |                       |
|                              |                       |
|                              |                       |

Supplies and Freight

|  |  |
|--|--|
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AMPLERS, SAMPLING, SAMPLE PREPARATION, ASSAYING (Acct. 540-)

Wages (Temporary Help)

| <u>Name</u> | <u>No. of Straight Time Hours During Month</u> | <u>No. of Overtime Hours During Month</u> |
|-------------|--|---|
| _____       | _____  | _____                                     |
| _____       | _____  | _____                                     |

Assaying

Assayer

Charge or Estimated Expense for Assaying Performed During Month

AARL Invoice 15450

\$ 30.75

CLAIM STAKING, VALIDATION (Acct. 507-)

Invoiced during month covering current month's work

Contractors' Services

Statement Amt.

Estimated balance of contractors' charges covering work through end of current month

Contractors' Services

Estimated Cost

Wages

Name

No. of Straight Time Hours During Month

No. of Overtime Hours During Month

OTHER (Itemize any other major expenses not covered above or by invoice.)

Item

Cost

3441 East Milber

INVOICE NO.

Phone 889-5787

15450

# AMERICAN ANALYTICAL and RESEARCH LABORATORIES

ASSAYERS - CHEMISTS - METALLURGISTS

TUCSON, ARIZONA 85714

SAMPLE SUBMITTED BY ASARCO, INC.

DATE Nov. 10, 1977

Mr. J. D. Sell

| SAMPLE MARKED | ANALYSIS                               | CHARGES  |
|---------------|--|----------|
| B-5WR         | Au, Ag (Fire), Geo-Chem Cu, Pb, Zn, Mo | \$ 11.50 |
| B-6-L         | Au, Ag (Fire), Geo-Chem Cu, Mo         | 8.50     |
| B-6-Q         | Au, Ag (Fire), Geo-Chem Cu, Mo         | 8.50     |
| 3 Samples     | Preparation                            | 2.25     |
|               | TOTAL                                  | \$ 30.75 |

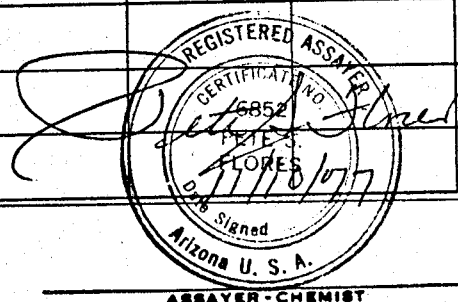
*Superior East EA-0010*

THANK YOU MUCH!!

|  |  |  |  |  |  |  |  |  |  |
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CHARGES \$ 30.75

INVOICE NO. 15450



ASSAYER-CHEMIST

HOLE A-10 PROJECT Superior East 15<sup>th</sup> 26<sup>th</sup> Nov. 1977 CONTRACTOR Jay Zz Heavy Duty

DESCRIPTION: BX 3571 3900

|                              | 25       | 27 | 28 | 29 | 30 | 31 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | TOTAL | PRICE | AMOUNT |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|------------------------------|----------|----|----|----|----|----|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------|-------|--------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| FEET DRILLED                 | <b>X</b> |    |    |    |    |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <u>BX-3571-11660</u>         |          |    |    |    |    |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <u>4000-</u>                 | <b>X</b> |    |    |    |    |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                              |          |    |    |    |    |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CEMENTING                    | <b>X</b> |    |    |    |    |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CONDITIONING                 |          |    |    |    |    |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CASING                       | <b>X</b> |    |    |    |    |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <u>Remains BX 3571</u>       |          |    |    |    |    |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                              | <b>X</b> |    |    |    |    |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                              |          |    |    |    |    |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| MATERIALS                    | <b>X</b> |    |    |    |    |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <u>Mud</u>                   |          |    |    |    |    |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <u>CC-16</u>                 | <b>X</b> |    |    |    |    |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <u>Calles</u>                |          |    |    |    |    |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <u>Deftoid</u>               | <b>X</b> |    |    |    |    |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <u>Can Hat</u>               |          |    |    |    |    |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <u>Long Turn</u>             | <b>X</b> |    |    |    |    |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <u>Runk Seal</u>             |          |    |    |    |    |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                              | <b>X</b> |    |    |    |    |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                              |          |    |    |    |    |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| TRUCK RENTAL                 | <b>X</b> |    |    |    |    |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| MILEAGE                      |          |    |    |    |    |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| LOADS OF WATER               | <b>X</b> |    |    |    |    |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                              |          |    |    |    |    |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| MISC.                        | <b>X</b> |    |    |    |    |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <u>Moving Sittling Up at</u> |          |    |    |    |    |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

SUB TOTAL 5,922.00

SUB TOTAL 1,340.00

SUB TOTAL 161.09

SUB TOTAL 188.00

SUB TOTAL 400.00

548200

TOTAL 8,011.09

mn 3031

EXPLORATION AUTHORIZATION NO. 0010-14

TUCSON OFFICE

SUPERIOR EAST PROJECT

PINAL COUNTY, ARIZONA

November - 1977

| Account No. | Item                                   | This Month         | This Year           | Total to Date |
|-------------|--|--------------------|---------------------|---------------|
| 506-950     | Rental Payments - Other                |                    |                     |               |
| 521-100     | Surface Drilling - Salaries            |                    | 601.29              |               |
| 521-200     | - Add. Labor                           |                    | 113.96              |               |
| 521-400     | - Supplies                             |                    | 1.33                |               |
| 521-600     | - Traveling                            |                    |                     |               |
| 521-750     | - Services                             | 7499.31            | 67989.92            |               |
| 521-800     | - Taxes                                |                    | .08                 |               |
| 530-100     | Geology - Salaries                     | 208.75             | 2581.81             |               |
| 530-200     | - Add. Labor                           | 41.04              | 414.29              |               |
| 530-400     | - Supplies                             |                    |                     |               |
| 530-600     | - Traveling                            |                    | 3.66                |               |
| 530-800     | - Taxes                                | 32.74              | 147.96              |               |
| 540-100     | Sampling, Assaying, Lab. - Salaries    |                    |                     |               |
| 540-150     | - Wages                                |                    |                     |               |
| 540-200     | - Add. Labor                           |                    |                     |               |
| 540-400     | - Supplies                             |                    |                     |               |
| 540-600     | - Traveling                            |                    |                     |               |
| 540-750     | - Services                             | 44.91              | 608.35              |               |
| 540-800     | - Taxes                                |                    | 1.60                |               |
| 570-100     | Engineering - Salaries                 |                    | 2.91                |               |
| 570-200     | - Add. Labor                           |                    | 5.04                |               |
| 570-400     | - Supplies                             |                    |                     |               |
| 570-600     | - Traveling                            |                    |                     |               |
| 570-750     | - Services                             |                    |                     |               |
| 580-400     | Temporary Construction - Supplies      |                    | 1628.90             |               |
| 590-750     | Construction - Services                |                    | 2172.80             |               |
| 590-800     | - Taxes                                |                    | 65.81               |               |
| 610-400     | Field Administration - Supplies        |                    | 4.10                |               |
| 610-500     | - Communications                       | 6.79               | 102.94              |               |
| 610-750     | - Services                             |                    | 1500.00             |               |
| 610-780     | - Fuel, Power, Water                   | 3.78               | 53.59               |               |
| 610-800     | - Taxes                                |                    | 1.16                |               |
| 620-100     | General Administration - Salaries      | 200.81             | 1118.43             |               |
| 620-150     | - Wages                                |                    | 5.20                |               |
| 620-200     | - Add. Labor                           | 39.43              | 211.51              |               |
| 620-400     | - Supplies                             |                    | 126.90              |               |
| 620-750     | - Services                             | 10.00              | 10.00               |               |
| 620-800     | - Taxes                                |                    | 7.62                |               |
| 620-950     | - Other                                |                    | 131.00              |               |
| 641-400     | Distributable Accounts Auto - Supplies | 41.06              | 368.27              |               |
| 641-800     | - Taxes                                |                    | 3.09                |               |
|             |  | <u>\$ 8,128.62</u> | <u>\$ 79,890.73</u> |               |

Authorized  
Expended

Balance Unexpended

Orig:  
CC:

\$125000.00  
79,890.73  
\$ 45,109.27



12/14/77

FROM: F. T. GRAYBEAL

TO: NPWhaley

SUPERIOR

~~JD Sell~~

EAST

✓ LOTS

Please be positive that  
your estimates for Dec.  
<sup>1977</sup>  
1978 drilling are  
\$2000 - 5000 high.  
We must not  
underestimate, otherwise  
there will be Jan. charges.  
Allow for lost casing,  
site reclamation - if any -  
etc. and see me before  
the estimate goes to accounting.



# JOY MANUFACTURING COMPANY

OLIVER BUILDING  
PITTSBURGH, PENNSYLVANIA 15222

PLEASE REMIT TO  
P. O. BOX 360135M  
PITTSBURGH, PA. 15250

JDS  
1-16-78  
APL

|                                  |             |          |                       |      |               |         |
|----------------------------------|-------------|----------|-----------------------|------|---------------|---------|
| CUSTOMER'S ORDER NO.<br>T-76-302 | DATE        | REQ. NO. | OUR<br>ORD. R.<br>NO. | DATE | AT REC. POINT | B.O.NO. |
| CONTRACT                         | 99 69 05 03 | 02 209   |                       | DATE | AT SHIP POINT |         |

02250

SOLD TO  
Asarco Inc.  
P. O. Box 5747  
Tucson, AZ 85703  
Attn: N. P. Whaley

TERMS NET 30 DAYS  
NO CASH DISCOUNT

INVOICE NO. 05116817

INVOICE DATE 1/10/78

SHIPPED TO  
Superior, AZ

PLEASE REMIT TO  
P. O. BOX 360135M  
PITTSBURGH, PA. 15250

DATE SHIPPED

SHIPPED VIA

P. O. ADDRESS

MARKS

REQUESTED ROUTING

SHIPPED FROM Michigan City

| ORIGINAL QUANTITY ORDERED  | PART NUMBER | DESCRIPTION             | CODE      | UNIT PRICE        | QUANTITY BACK ORDERED | QUANTITY SHIPPED  | AMOUNT                 |
|--|-------------|-------------------------|-----------|-------------------|-----------------------|-------------------|------------------------|
| To 359.1 core drilling at Superior, AZ for period ending Dec. 25, 1977 as per agreement. |             |                         |           |                   |                       |                   |                        |
| <u>PROSPECT NO.</u>  |             | <u>FROM</u>             | <u>TO</u> | <u>TOTAL FEET</u> | <u>UNIT COST</u>      | <u>TOTAL COST</u> |                        |
|  | A-10        | BX 3900. ✓              | 3968.     | 68. ✓             | 18.00 ✓               | 1,224.00          |                        |
|  |             | AX 3968.                | 4000.     | 32. ✓             | 18.00 ✓               | 576.00            |                        |
|  |             | AX 4000.                | 4259. ✓   | 259. ✓            | 20.20 ✓               | 5,231.80          |                        |
|  |             |                         |           |                   |                       |                   | 7,031.80 ✓             |
| <u>CEMENTING AND/OR PLUGGING</u>   |             |                         |           |                   |                       |                   |                        |
|  | A-10        | December 17             | 7 hours @ | \$24.00/hour      |                       |                   | 168.00 ✓               |
| <u>SURVEY TIME</u>   |             |                         |           |                   |                       |                   |                        |
|  | A-10        | December 22             | 3 hours   |                   |                       |                   |                        |
|  |             | December 23             | 5 hours   |                   |                       |                   |                        |
|  |             |                         |           |                   |                       |                   | 8 hours @ \$24.00/hour |
|  |             |                         |           |                   |                       |                   | 192.00 ✓               |
| <u>MUD AND ADDITIVES USED</u>  |             |                         |           |                   |                       |                   |                        |
|  | 82 ✓        | 50# bags drilling mud @ |           | \$3.60            |                       |                   | 295.20 ✓               |
|  | 2 ✓         | 50# bags CC-16 @        |           | \$25.71           |                       |                   | 51.42 ✓                |
|  | 1 ✓         | 50# bag Cellex          |           |                   |                       |                   | 166.57 ✓               |
|  | 1 ✓         | 5 gal. can Con Det      |           |                   |                       |                   | 55.91 ✓                |
|  | 2 ✓         | 50# bags Dextrid @      |           | \$67.37           |                       |                   | 134.74 ✓               |

F. O. B. SHIPPING POINT UNLESS OTHERWISE SPECIFIED

NO RETURNS ALLOWED UNLESS AUTHORIZED BY THIS OFFICE

GOODS COVERED BY THIS INVOICE WERE PRODUCED IN COMPLIANCE WITH THE REQUIREMENTS OF THE FAIR LABOR STANDARDS ACT OF 1938, AS AMENDED, INCLUDING SECTION 12(A).

09007

DUPLICATE

# JOY MANUFACTURING COMPANY

PAGE NO. 2

**SOLD TO**  
Asarco Inc.

|                     |               |               |          |                                |
|---------------------|---------------|---------------|----------|--------------------------------|
| OUR<br>ORDER<br>NO. | AT REC. POINT | AT SHIP POINT | B.O. NO. | INVOICE NO.<br><b>05116817</b> |
|---------------------|---------------|---------------|----------|--------------------------------|

| ORIGINAL<br>QUANTITY<br>ORDERED | UNIT | PART NUMBER | DESCRIPTION                  | CODE | UNIT PRICE | QUANTITY<br>BACK<br>ORDERED | QUANTITY<br>SHIPPED | AMOUNT     |
|---------------------------------|------|-------------|------------------------------|------|------------|-----------------------------|---------------------|------------|
|                                 |      |             | <u>WATER TRUCK RENTAL</u>    |      |            |                             |                     |            |
|                                 |      |             | November 26 thru December 25 |      |            |                             |                     |            |
|                                 |      |             | 1 truck @ \$360.00/month     |      |            |                             |                     | 360.00 ✓   |
|                                 |      |             | 41 ✓ miles @ \$.40/mile      |      |            |                             |                     | 16.40 ✓    |
|                                 |      |             |                              |      |            |                             |                     | \$8,472.04 |

*SUPERIOR EAST*

APPROVED FOR PAYMENT

By: *APD*  
(Signature) 1-19-78

APPROVED FOR PAYMENT

By: \_\_\_\_\_  
(Signature)

1-19-78

A-10

JOY INVOICE 05116817

SHOULD OWE JOY FOR 375 GALS DIESEL

375 @ \$0.416 = \$ 156.00

TEL TO LLOYD 1-20-78

NPW

MONTHLY COST SUMMARY

Superior East EA-0010 Project, Reinal (County), Az (State)

DIRECT DRILLING (Acct. 521-)

CONTRACTORS' CHARGES

Invoiced during month covering current month's work

Contractors' Services

Statement Amt.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Estimated balance of contractors' charges covering work through end of current month

Contractors' Services

Estimated Cost

See NPW  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Supplies and Freight

\_\_\_\_\_

\_\_\_\_\_

Field Trailer Rental

\_\_\_\_\_

\_\_\_\_\_

Water Purchases (Drilling)

\_\_\_\_\_

\_\_\_\_\_

SITE PREPARATION (Acct. 580-)

CONTRACTORS' CHARGES

Invoiced during month covering current month's work

Contractors' Services

Statement Amt.

Invoices 1853 attached, but see NPW for figures  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

Estimated balance of contractors' charges covering work through end of current month

Contractors' Services

Estimated Cost

See NPW  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

Supplies and Freight

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Wages (Temporary Help)

| <u>Name</u>   | <u>No. of Straight Time Hours During Month</u> | <u>No. of Overtime Hours During Month</u> |                             |
|---|--|---|-----------------------------|
| <u>See attached list for JCS - Drafting estimate for Jan.</u> |  |   | <u>2,500.00</u><br>Estimate |

Assaying

| <u>Assayer</u>   | <u>Charge or Estimated Expense for Assaying Performed During Month</u> |                           |
|------------------|--|---------------------------|
| <u>Est. AARL</u> | <u>400.00</u>  | <u>400.00</u><br>Estimate |

CLAIM STAKING, VALIDATION (Acct. 507-)

Invoiced during month covering current month's work

| <u>Contractors' Services</u> | <u>Statement Amt.</u> |
|------------------------------|-----------------------|
| _____                        | _____                 |
| _____                        | _____                 |

Estimated balance of contractors' charges covering work through end of current month

| <u>Contractors' Services</u> | <u>Estimated Cost</u> |
|------------------------------|-----------------------|
| _____                        | _____                 |
| _____                        | _____                 |

Wages

| <u>Name</u> | <u>No. of Straight Time Hours During Month</u> | <u>No. of Overtime Hours During Month</u> |
|-------------|--|---|
| _____       | _____  | _____                                     |
| _____       | _____  | _____                                     |

OTHER (Itemize any other major expenses not covered above or by invoice.)

| <u>Item</u>                       | <u>Cost</u>        |
|-----------------------------------|--------------------|
| <u>Est. Western Petrographics</u> | <u>22.50 E</u>     |
| <u>USA Invoices No. 9888</u>      | <u>16.00</u>       |
| _____                             | _____              |
| _____                             | _____              |
| _____                             | _____              |
|                                   | <u>36.50</u>       |
|                                   | <del>42.50</del>   |
|                                   | estimate           |
|                                   | <u>\$ 2,936.50</u> |

See 3,000<sup>00</sup> minimum

*Note: Does not include AMS labor & materials for skeletonizing core & building core racks. = 1 month wages etc + 500<sup>00</sup> material.*



P Bryant est. on road cleanup. SE

|   |          |
|---|----------|
| 5 hrs front end loader @ 35 <sup>00</sup> /hr = | 175.00   |
| additional labor 5 hrs @ 8 <sup>00</sup> /hr =  | 40.00    |
| " 16 hrs @ 5 <sup>00</sup> /hr =                | 80.00    |
| <del>4 hrs</del>                                | 295.00   |
| 4% tax  | 11.80    |
| Total   | \$306.80 |

Lois:

The price of 306<sup>80</sup> was agreed as per the above schedule.

Bryant Const. came to the new price on invoice 1853 attached, but, 4% of \$300<sup>00</sup> is not \$12.00. !

This note has also been given to the Accounting Office.





ESTIMATE

January distribution

Superior East

EA-0010

|     |                     |                     |
|-----|---------------------|---------------------|
| gas | 10 day salary       | 1,000 <sup>00</sup> |
|     | 7 day expense       | 25 <sup>00</sup>    |
|     | 3 days room & board | 90 <sup>00</sup>    |
|     | Milage 1000 @ 40¢   | 400 <sup>00</sup>   |

Drafting

500<sup>00</sup>

\$2,015<sup>00</sup>

or say \$2,500<sup>00</sup>

AARL

|                         |      |
|-------------------------|------|
| preparation             | 0.75 |
| Cu, Pb, Zn, Mo. Geochem | 7.00 |
| Cu assay                | 2.00 |

$$50 \times 7.50 + 10 \times 2.00 = 375.00 + 20 = 405.00$$

Estimate of Assaying of A-10 \$ 400.00  
Amer. Anal. Res. Lab.

---

Estimate of Petrography of A-10  
5 Samples @ 4.50 = \$ 22.50  
Western Petrographic Labs.

THE UNIVERSITY OF ARIZONA  
Tucson

Nº 9888

INVOICE

Date November 30, 1977

Invoice No. MTB-77-55  
BGMT Sample No. 55453

ASARCO Incorporated  
1150 North 7th Ave.  
Tucson, AZ 85703

Attn: James D. Sell

Bureau of Geol. & Min. Tech.  
Mineral Technology Branch  
University of Arizona  
Tucson, AZ 85721

BUREAU OF GEOLOGY  
Please make check payable to AND MINERAL TECHNOLOGY  
THE UNIVERSITY OF ARIZONA and mail to Department of:

ASARCO Sample No. A-10

One (1) X-ray Diffraction Analysis . . . . . \$10.00

One (1) Polished Section Prepared . . . . . \$ 6.00

Total . . . . . \$16.00

*OK for Payment*  
*James D. Sell EA-0010*

Please return one copy of invoice with your check.

SOUTHWESTERN EXPLORATION DIVISION

26th Nov. thru  
25th DEC., 1977

MONTHLY COST SUMMARY

SUPERIOR EAST

Project, PINAL  
(County)

ARZ.  
(State)

A. DIRECT DRILLING (Acct. 521-)

CONTRACTORS' CHARGES

Invoiced during month covering current month's work

Contractors' Services

Statement Amt.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_ X \_\_\_\_\_

Estimated balance of contractors' charges covering work through end of current month

Contractors' Services

Estimated Cost

Joy Mfg. Co.

a.) DRILLING A-10 FROM 3900' TO 4270'

\$ 9,300.00

b.) DRILLING A-10 TO COMPLETION DEPTH,  
PULLING CASING, AND CASING LOST

\$ 21,000.00

\$ 30,300.00

Supplies and Freight

\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_ X \_\_\_\_\_

Field Trailer Rental

\_\_\_\_\_ X \_\_\_\_\_

Water Purchases (Drilling)

\_\_\_\_\_ X \_\_\_\_\_

B. SITE PREPARATION (Acct. 580-)

CONTRACTORS' CHARGES

Invoiced during month covering current month's work

Contractors' Services

Statement Amt.

BRYANT CONS'T. Co. (CLEANING & REPAIRING  
RD. FROM HWY TO SITE, INVOICE 1853)

\$ 306.80

\$ 306.80

Estimated balance of contractors' charges covering work through end of current month

Contractors' Services

Estimated Cost

BRYANT CONS'T. Co. (RECLAMATION OF A-10  
SITE)

\$ 200.00

\$ 200.00

Supplies and Freight

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_ X \_\_\_\_\_

SAMPLERS, SAMPLING, SAMPLE PREPARATION, ASSAYING (Acct. 540-)

Wages (Temporary Help)

| <u>Name</u> | <u>No. of Straight Time Hours During Month</u> | <u>No. of Overtime Hours During Month</u> |   |
|-------------|--|---|---|
| _____       | _____  | _____                                     | X |
| _____       | _____  | _____                                     |   |

Assaying

| <u>Assayer</u> | <u>Charge or Estimated Expense for Assaying Performed During Month</u> |   |
|----------------|--|---|
| SEE JD SELL    | _____  | ? |
| _____          | _____  |   |

CLAIM STAKING, VALIDATION (Acct. 507-)

Invoiced during month covering current month's work

| <u>Contractors' Services</u> | <u>Statement Amt.</u> |   |
|------------------------------|-----------------------|---|
| _____                        | _____                 | X |
| _____                        | _____                 |   |

Estimated balance of contractors' charges covering work through end of current month

| <u>Contractors' Services</u> | <u>Estimated Cost</u> |   |
|------------------------------|-----------------------|---|
| _____                        | _____                 | X |
| _____                        | _____                 |   |

Wages

| <u>Name</u> | <u>No. of Straight Time Hours During Month</u> | <u>No. of Overtime Hours During Month</u> |   |
|-------------|--|---|---|
| _____       | _____  | _____                                     | X |
| _____       | _____  | _____                                     |   |

OTHER (Itemize any other major expenses not covered above or by invoice.)

| <u>Item</u>   | <u>Cost</u> |             |
|---|-------------|-------------|
| MOLLEN-HAUER SURVEYING Co. (DIRECTIONAL SURVEY HOLE A-10) | \$ 1,200.00 |             |
| _____   | _____       |             |
| _____   | _____       | \$ 1,200.00 |

TOTAL = \$ 32,006.80

SAY \$ 32,100.00

NPID  
12-22-77





12-16-77

A-10 CASING IN HOLE

11' 4-IN PIPE @ \$4.00/FT. = \$ 44.00  
2437' NX CASING @ 6.80/FT. = 16,571.60  
3417' BX CASING @ 5.50/FT. = 18,793.50

→ \$ 35,409.10

LESS 30% = \$ 24,800.00

---

\$ 45,000  
(-) 35,400  
-----  
\$ 9,600

12-22-77

EST'D LOSS :

BX : 1000' @ \$ 5.50/FT. = \$ 5,500.00  
NX : 1000' @ \$ 6.80/FT. = \$ 6,800.00  
-----  
\$ 12,300.00

SAY \$ 15,000.00





EXPLORATION AUTHORIZATION NO. 0010-14  
 SUPERIOR EAST PROJECT  
 PINAL COUNTY, ARIZONA

TUCSON OFFICE

December - 1977

| Account No. | Item                                   | This Month         | This Year           | Total to Date       |
|-------------|--|--------------------|---------------------|---------------------|
| 506-950     | Rental Payments - Other                | \$                 | \$                  | \$                  |
| 521-100     | Surface Drilling - Salaries            | 90.79              | 692.08              | 692.08              |
| 521-200     | - Add. Labor                           | 18.30              | 132.26              | 132.26              |
| 521-400     | - Supplies                             | 23.95              | 25.28               | 25.28               |
| 521-600     | - Traveling                            | 316.95             | 316.95              | 316.95              |
| 521-750     | - Services                             | 32000.00           | 99989.92            | 99989.92            |
| 521-800     | - Taxes                                | 6.80               | 6.88                | 6.88                |
| 530-100     | Geology - Salaries                     | 1242.27            | 3824.08             | 3824.08             |
| 530-200     | - Add. Labor                           | 243.17             | 657.46              | 657.46              |
| 530-400     | - Supplies                             |                    | 3.66                | 3.66                |
| 530-600     | - Traveling                            | 24.29              | 172.25              | 172.25              |
| 540-750     | <i>Sampl. Assay</i> - Services         | -                  | 608.35              | 608.35              |
| 540-800     | - Taxes                                | -                  | 1.60                | 1.60                |
| 570-100     | Engineering - Salaries                 | -                  | 29.12               | 29.12               |
| 570-200     | - Add. Labor                           | -                  | 5.04                | 5.04                |
| 570-750     | - Services                             | -                  | 1628.90             | 1628.90             |
| 590-750     | Construction - Services                | -                  | 2172.80             | 2172.80             |
| 590-800     | - Taxes                                | -                  | 65.81               | 65.81               |
| 610-400     | Field Administration - Supplies        | -                  | 4.10                | 4.10                |
| 610-500     | - Communications                       | 22.74              | 125.68              | 125.68              |
| 610-750     | - Services                             | -                  | 1500.00             | 1500.00             |
| 610-780     | - Fuel, Power, Water                   | 11.69              | 65.28               | 65.28               |
| 610-800     | - Taxes                                | -                  | .16                 | .16                 |
| 620-100     | General Administration - Salaries      | -                  | 1118.43             | 1118.43             |
| 620-150     | - Wages                                | -                  | 5.20                | 5.20                |
| 620-200     | - Add. Labor                           | -                  | 211.51              | 211.51              |
| 620-400     | - Supplies                             | -                  | 126.90              | 126.90              |
| 620-750     | - Services                             | -                  | 10.00               | 10.00               |
| 620-800     | - Taxes                                | -                  | 7.62                | 7.62                |
| 620-950     | - Other                                | -                  | 13.00               | 13.00               |
| 641-400     | Distributable Accounts Auto - Supplies | 429.07             | 797.34              | 797.34              |
| 641-800     | - Taxes                                | 117.81             | 120.90              | 120.90              |
|             |  | <u>\$ 34547.83</u> | <u>\$ 114438.56</u> | <u>\$ 114438.56</u> |

Authorized Expended \$ 125000.00  
 114438.56  
 Balance Unexpended \$ 10561.44

Orig: TCOsborne  
 cc: RR, NV, CWC, TES, FTG, File-2

110

December 1977

## Drilling Cost Breakdown Format

Cost Center Codes

### Drilling Charges:

#### A. Direct Drilling

all #521, except for part pulled out for "B" below.

#### B. Site Prep. & Cleanup

Now included w/ #521 -750, -800. Check & pull out when used.

#### C. Field Administration

##### 1. Supervision and Geology

all #530,

all #550

#610, parts -100, -150, -200, 600, -660

(see C-3 below)

#641, parts -400, -800

##### 2. Sample Prep. & Assaying

all #540

##### 3. Miscellaneous

parts of #610 not used in C-1 above.

### Project Charges:

#### D. General Administration

geologist, supervisor as used in #620. (See "E" below)

#### E. Legal

landman, etc as used in #620 (See "D" above)

#501 thru #506.

#### F. Drill Road Access

all #580

#### G. Claim Work & Leasing

all #507.

**TAB**

1978

---

MONTHLY COST SUMMARY

Superior East EA-0010 Project, Pinal (County), Az (State)

DIRECT DRILLING (Acct. 521-)

CONTRACTORS' CHARGES

Invoiced during month covering current month's work

Contractors' Services

Statement Amt.

|       |       |
|-------|-------|
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |

See NPW

Estimated balance of contractors' charges covering work through end of current month

Contractors' Services

Estimated Cost

|       |       |
|-------|-------|
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |

Supplies and Freight

|       |       |
|-------|-------|
| _____ | _____ |
| _____ | _____ |

Field Trailer Rental

|       |       |
|-------|-------|
| _____ | _____ |
| _____ | _____ |

Water Purchases (Drilling)

SITE PREPARATION (Acct. 580-)

CONTRACTORS' CHARGES

Invoiced during month covering current month's work

Contractors' Services

Statement Amt.

|       |       |
|-------|-------|
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |

Estimated balance of contractors' charges covering work through end of current month

Contractors' Services

Estimated Cost

|       |       |
|-------|-------|
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |

Supplies and Freight

|       |       |
|-------|-------|
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |

over

ERS, SAMPLING, SAMPLE PREPARATION, ASSAYING (Acct. 540-)

(Temporary Help)

No. of Straight  
Time Hours  
During Month

No. of Overtime  
Hours During  
Month

Assaying

Assayer

Charge or Estimated  
Expense for Assaying  
Performed During Month

AARL 15536 + 15540

315<sup>25</sup> + 107<sup>00</sup>

422.25

CLAIM STAKING, VALIDATION (Acct. 507-)

Invoiced during month covering current month's work

Contractors' Services

Statement Amt.

Estimated balance of contractors' charges covering work through end of current month

Contractors' Services

Estimated Cost

Wages

Name

No. of Straight  
Time Hours  
During Month

No. of Overtime  
Hours During  
Month

OTHER (Itemize any other major expenses not covered above or by invoice.)

Item

Cost

Western Petrographics # 771577

18.00

18.00

3441 East Milber

INVOICE NO.

Phone 889-5787

15536

# AMERICAN ANALYTICAL and RESEARCH LABORATORIES

ASSAYERS - CHEMISTS - METALLURGISTS

TUCSON, ARIZONA 85714

SAMPLE SUBMITTED BY ASARCO, INC.

DATE Dec. 28, 1977

Mr. J. D. Sell

| SAMPLE MARKED  | ANALYSIS                               | CHARGES            |
|--|--|--------------------|
| A-10-1 --- A-10-22<br>22 Samples   | Geo-Chem Cu, Pb, Zn, Mo<br>Preparation | \$ 154.00<br>16.50 |
| A-10-23 -- A-10-35<br>13 Samples   | Geo-Chem Cu, Pb, Zn, Mo<br>Preparation | 91.00<br>9.75      |
| <u>OVER 2000 PPM</u>   |  |                    |
| A-10-1 -- A-10-9   |  |                    |
| A-10-11 -- A-10-13   |  |                    |
| A-10-15  |  |                    |
| A-10-17  |  |                    |
| A-10-22  |  |                    |
| A-10-24 -- A-10-26   |  |                    |
| A-10-30  |  |                    |
| A-10-32  |  |                    |
| A-10-34  |  |                    |
| A-10-35  | Cu                                     | 44.00              |
|  | TOTAL                                  | \$ 315.25          |
| <p><i>OK for payment<br/>Superior East EA-0010<br/>James W. Sell</i></p> |  |                    |
| HAPPINESS IS----SERVING YOU. THANKS!!                                    |  |                    |

*Inv. 15536 --- 315.25  
15540 --- 107.00  
\$ 422.25*

3441 East Milber

INVOICE NO.

Phone 889-5787

15540

AMERICAN ANALYTICAL and RESEARCH LABORATORIES

ASSAYERS - CHEMISTS - METALLURGISTS

TUCSON, ARIZONA 85714

SAMPLE SUBMITTED BY ASARCO, INC.

DATE Dec. 30, 1977

Mr. J. D. Sell

| SAMPLE MARKED                    | ANALYSIS                               | CHARGES          |
|----------------------------------|--|------------------|
| A-10-36 -- A-10-47<br>12 Samples | Geo-Chem Cu, Pb, Zn, Mo<br>Preparation | \$ 84.00<br>9.00 |
| <u>OVER 2000 PPM</u>             |  |                  |
| A-10-36 -- A-10-42               | Cu                                     | 14.00            |
|                                  | TOTAL                                  | \$ 107.00        |

*OK for payment  
Superior East EA-0010  
James D. Sell*

THANK YOU MUCH!



INVOICE

**WESTERN PETROGRAPHIC**

20 West Flores  
Tucson, Arizona 85705

C. D. N.

JAN 9 1978

INVOICE NO. 771577

INVOICE DATE DECEMBER 29, 1977

SHIPPED TO J. D. SELL

SOLD TO

ACCOUNTS PAYABLE  
ASARCO INC.  
P.O. BOX 5747  
TUCSON, AZ. 85703

| OUR ORDER NO. | YOUR ORDER NO. | TERMS       | SHIPPED VIA | SURPLUS MATERIAL RETURNED |
|---------------|----------------|-------------|-------------|---------------------------|
| 771577        | A-10           | NET 30 DAYS | PICKED UP   |                           |

| QUANTITY | UNIT | DESCRIPTION                         | UNIT PRICE | AMOUNT  |
|----------|------|-------------------------------------|------------|---------|
| 4        | EA   | STANDARD PETROGRAPHIC THIN SECTIONS | 3.75       | 15.00   |
| 4        | EA   | K-FELDSPAR STAINING                 | .75        | 3.00    |
| TOTAL:   |      |                                     |            | \$18.00 |

APPROVED FOR PAYMENT

By: *James D. Sell*  
(Signature)

*Superior East EA-0010*

SOUTHWESTERN EXPLORATION DIVISION

26th DEC. 1977 thru  
25th JAN. 1978

MONTHLY COST SUMMARY

SUPERIOR EAST

Project, PINAL  
(County)

ARZ.  
(State)

A. DIRECT DRILLING (Acct. 521-)

CONTRACTORS' CHARGES

Invoiced during month covering current month's work

| <u>Contractors' Services</u> | <u>Statement Amt.</u> |   |
|------------------------------|-----------------------|---|
| _____                        | _____                 |   |
| _____                        | _____                 |   |
| _____                        | _____                 |   |
| _____                        | _____                 | X |

Estimated balance of contractors' charges covering work through end of current month

| <u>Contractors' Services</u>                  | <u>Estimated Cost</u> |                    |
|---|-----------------------|--------------------|
| <u>Joy Mfg. Co. (Drilling A-10 from 1259'</u> |                       |                    |
| <u>to 4282' TD)</u>                           | <u>\$ 4,700.00</u>    |                    |
| <u>(RIG DEMOBILIZED)</u>                      |                       |                    |
| _____   | _____                 | <u>\$ 4,700.00</u> |

Supplies and Freight

|       |       |   |
|-------|-------|---|
| _____ | _____ | X |
|-------|-------|---|

Field Trailer Rental

|       |       |   |
|-------|-------|---|
| _____ | _____ | X |
|-------|-------|---|

Water Purchases (Drilling)

|       |       |   |
|-------|-------|---|
| _____ | _____ | X |
|-------|-------|---|

B. SITE PREPARATION (Acct. 580-)

CONTRACTORS' CHARGES

Invoiced during month covering current month's work

| <u>Contractors' Services</u> | <u>Statement Amt.</u> |   |
|------------------------------|-----------------------|---|
| _____                        | _____                 |   |
| _____                        | _____                 |   |
| _____                        | _____                 | X |

Estimated balance of contractors' charges covering work through end of current month

| <u>Contractors' Services</u> | <u>Estimated Cost</u> |   |
|------------------------------|-----------------------|---|
| _____                        | _____                 |   |
| _____                        | _____                 | X |

Supplies and Freight

|       |       |   |
|-------|-------|---|
| _____ | _____ |   |
| _____ | _____ | X |

C. SAMPLERS, SAMPLING, SAMPLE PREPARATION, ASSAYING (Acct. 540-)

Wages (Temporary Help)

| <u>Name</u> | <u>No. of Straight Time Hours During Month</u> | <u>No. of Overtime Hours During Month</u> |   |
|-------------|--|---|---|
| _____       | _____  | _____                                     | X |
| _____       | _____  | _____                                     |   |

Assaying

| <u>Assayer</u> | <u>Charge or Estimated Expense for Assaying Performed During Month</u> |   |
|----------------|--|---|
| SEE JDSELL     | _____  | ? |
| _____          | _____  |   |

D. CLAIM STAKING, VALIDATION (Acct. 507-)

Invoiced during month covering current month's work

| <u>Contractors' Services</u> | <u>Statement Amt.</u> |   |
|------------------------------|-----------------------|---|
| _____                        | _____                 | X |
| _____                        | _____                 |   |

Estimated balance of contractors' charges covering work through end of current month

| <u>Contractors' Services</u> | <u>Estimated Cost</u> |   |
|------------------------------|-----------------------|---|
| _____                        | _____                 | X |
| _____                        | _____                 |   |

Wages

| <u>Name</u> | <u>No. of Straight Time Hours During Month</u> | <u>No. of Overtime Hours During Month</u> |   |
|-------------|--|---|---|
| _____       | _____  | _____                                     | X |
| _____       | _____  | _____                                     |   |

E. OTHER (Itemize any other major expenses not covered above or by invoice.)

| <u>Item</u> | <u>Cost</u> |   |
|-------------|-------------|---|
| _____       | _____       |   |
| _____       | _____       |   |
| _____       | _____       |   |
| _____       | _____       | X |

TOTAL = \$ 4,700.00

APW  
1-30-78



EXPLORATION AUTHORIZATION NO. 0010-14  
 SUPERIOR EAST PROJECT  
 PINAL COUNTY, ARIZONA

TUCSON OFFICE

January - 1978

| Account No. | Item                                   | This Month | This Year | Total to Date |
|-------------|--|------------|-----------|---------------|
| 506-950     | Rental Payments - Other                | \$         | \$        | \$            |
| 521-100     | Surface Drilling - Salaries            | 1186.27    | 1186.27   | 1878.35       |
| 521-200     | - Add. Labor                           | 335.17     | 335.17    | 467.43        |
| 521-400     | - Supplies                             | 9.76       | 9.76      | 35.04         |
| 521-600     | - Traveling                            | 355.84     | 355.84    | 672.79        |
| 521-750     | - Services                             | (980.06)   | (980.06)  | 99009.86      |
| 521-801     | - Sales Tax                            | .44        | .44       | 7.32          |
| 530-100     | Geology - Salaries                     | 1043.82    | 1043.82   | 4867.90       |
| 530-200     | - Add. Labor                           | 295.74     | 295.74    | 953.20        |
| 530-400     | - Supplies                             |            |           | 3.66          |
| 530-600     | - Traveling                            | 12.70      | 12.70     | 184.95        |
| 540-750     | Sampling, Assaying, Lab. - Services    | 406.47     | 406.47    | 1014.82       |
| 540-801     | - Sales Tax                            | 68.64      | 68.64     | 70.24         |
| 570-100     | Engineering - Salaries                 |            |           | 29.12         |
| 570-200     | - Add. Labor                           |            |           | 5.04          |
| 570-750     | - Services                             |            |           | 1628.90       |
| 590-750     | Construction - Services                |            |           | 2172.80       |
| 590-801     | - Sales Tax                            |            |           | 65.81         |
| 610-400     | Field Administration - Supplies        |            |           | 4.10          |
| 610-500     | - Communications                       | 36.84      | 36.84     | 162.52        |
| 610-750     | - Services                             |            |           | 1500.00       |
| 610-780     | - Fuel, Power, Water                   | 32.83      | 32.83     | 98.11         |
| 610-801     | - Sales Tax                            |            |           | .16           |
| 620-100     | General Administration - Salaries      | 93.00      | 93.00     | 1211.43       |
| 620-150     | - Wages                                |            |           | 5.20          |
| 620-200     | - Add. Labor                           | 26.28      | 26.28     | 237.79        |
| 620-400     | - Supplies                             | 19.41      | 19.41     | 146.31        |
| 620-750     | - Services                             | 30.00      | 30.00     | 40.00         |
| 620-801     | - Sales Tax                            | 1.17       | 1.17      | 8.79          |
| 620-950     | - Other                                |            |           | 13.00         |
| 641-400     | Distributable Accounts Auto - Supplies | 229.86     | 229.86    | 1027.20       |
| 641-801     | - Sales Tax                            | .57        | .57       | 121.47        |

\$ 5007.24    \$ 5069.24    \$ 119507.80

Authorized Expended \$ 125000.00  
 119507.80  
 Balance Unexpended \$ 5492.20

Orig: TCOsborne  
 cc: RR, NV, CWC, TES, FTG, File-2

540-400 Sampling, Assaying, Lab. - Supplies 1614.63 1614.63 1614.63  
 570-600 - Traveling 249.86 249.86 249.86

10-14

EXPLORATION AUTHORIZATION NO. 0010-14  
 SUPERIOR EAST PROJECT  
 PINAL COUNTY, ARIZONA

TUCSON OFFICE

February - 1978

| Account No. | Item                                   | This Month | This Year  | Total to Date |
|-------------|--|------------|------------|---------------|
| 506-950     | Rental Payments - Other                | \$         | \$         | \$            |
| 521-100     | Surface Drilling - Salaries            | 92.00      | 1278.27    | 1970.35       |
| 521-200     | - Add. Labor                           | 20.65      | 355.82     | 488.08        |
| 521-400     | - Supplies                             |            | 9.76       | 35.04         |
| 521-600     | - Traveling                            |            | 355.84     | 672.79        |
| 521-750     | - Services                             | (16603.62) | (17583.68) | 82406.24      |
| 521-801     | - Sales Tax                            |            | 44         | 7.32          |
| 530-100     | Geology - Salaries                     | 1265.00    | 2308.82    | 6132.90       |
| 530-200     | - Add. Labor                           | 295.95     | 591.69     | 1249.15       |
| 530-400     | - Supplies                             |            |            | 3.66          |
| 530-600     | - Traveling                            |            | 12.70      | 184.95        |
| 540-750     | Sampling, Assaying, Lab. - Services    |            | 406.47     | 1014.82       |
| 540-801     | - Sales Tax                            | 7.95       | 76.59      | 78.19         |
| 570-100     | Engineering - Salaries                 |            |            | 29.12         |
| 570-200     | - Add. Labor                           |            |            | 5.04          |
| 570-750     | - Services                             |            |            | 1628.90       |
| 590-750     | Construction - Services                |            |            | 2172.80       |
| 590-801     | - Sales Tax                            |            |            | 65.81         |
| 610-400     | Field Administration - Supplies        |            |            | 4.10          |
| 610-500     | - Communications                       | 26.50      | 63.34      | 189.02        |
| 610-750     | - Services                             |            |            | 1500.00       |
| 610-780     | - Fuel, Power, Water                   | 17.84      | 50.67      | 115.95        |
| 610-801     | - Sales Tax                            |            |            | .16           |
| 620-100     | General Administration - Salaries      | 111.00     | 204.00     | 1322.43       |
| 620-150     | - Wages                                |            |            | 5.20          |
| 620-200     | - Add. Labor                           | 27.53      | 53.81      | 265.32        |
| 620-400     | - Supplies                             | .98        | 20.39      | 147.29        |
| 620-750     | - Services                             |            | 30.00      | 40.00         |
| 620-801     | - Sales Tax                            | .06        | 1.23       | 8.85          |
| 620-950     | - Other                                |            |            | 13.00         |
| 641-400     | Distributable Accounts Auto - Supplies | 114.00     | 343.86     | 1141.20       |
| 641-801     | - Sales Tax                            | .48        | 1.05       | 121.95        |

\$(14455.90) \$(9386.66) \$ 105051.90

Authorized Expended \$ 125000.00  
105051.90  
 Balance Unexpended \$ 19948.10

Orig: TCOsborne  
 cc: RR, NV, CWC, TES, FTG, File-2

540-400 Sampling, Assaying, Lab. - Supplies 132.48 1747.11 1747.11  
 -600 - Traveling 35.30 285.16 285.16

A-10

10-14

EXPLORATION AUTHORIZATION NO. 0010-14  
 SUPERIOR EAST PROJECT  
 PINAL COUNTY, ARIZONA

TUCSON OFFICE

March - 1978

| Account No. | Item                                   | This Month        | This Year         | Total to Date       |
|-------------|--|-------------------|-------------------|---------------------|
| 506-950     | Rental Payments - Other                | \$                | \$                | \$                  |
| 521-100     | Surface Drilling - Salaries            | 301.00            | 1579.27           | 2271.35             |
| 521-200     | - Add. Labor                           | 83.55             | 439.37            | 571.63              |
| 521-400     | - Supplies                             | 12.66             | 22.42             | 47.70               |
| 521-600     | - Traveling                            |                   | 355.84            | 672.79              |
| 521-750     | - Services                             |                   | (17583.68)        | 82406.24            |
| 521-801     | - Sales Tax                            | .51               | .95               | 7.83                |
| 530-100     | Geology - Salaries                     | 1012.00           | 3320.82           | 7144.90             |
| 530-200     | - Add. Labor                           | 287.80            | 879.49            | 1536.95             |
| 530-400     | - Supplies                             |                   |                   | 3.66                |
| 530-600     | - Traveling                            |                   | 12.70             | 184.95              |
| 540-750     | Sampling, Assaying, Lab. - Services    | 170.25            | 576.72            | 1185.07             |
| 540-801     | - Sales Tax                            |                   | 76.59             | 78.19               |
| 570-100     | Engineering - Salaries                 |                   |                   | 29.12               |
| 570-200     | - Add. Labor                           |                   |                   | 5.04                |
| 570-750     | - Services                             |                   |                   | 1628.90             |
| 590-750     | Construction - Services                |                   |                   | 2172.80             |
| 590-801     | - Sales Tax                            |                   |                   | 65.81               |
| 610-400     | Field Administration - Supplies        |                   |                   | 4.10                |
| 610-500     | - Communications                       | 25.65             | 88.99             | 214.67              |
| 610-750     | - Services                             |                   |                   | 1500.00             |
| 610-780     | - Fuel, Power, Water                   | 17.99             | 68.66             | 133.94              |
| 610-801     | - Sales Tax                            |                   |                   | .16                 |
| 620-100     | General Administration - Salaries      | 332.00            | 536.00            | 1654.43             |
| 620-150     | - Wages                                |                   |                   | 5.20                |
| 620-200     | - Add. Labor                           | 118.16            | 171.97            | 383.48              |
| 620-400     | - Supplies                             | 21.87             | 42.26             | 169.16              |
| 620-750     | - Services                             |                   | 30.00             | 40.00               |
| 620-801     | - Sales Tax                            | 1.31              | 2.54              | 10.16               |
| 620-950     | - Other                                |                   |                   | 13.00               |
| 641-400     | Distributable Accounts Auto - Supplies | 352.14            | 696.00            | 1493.34             |
| 641-801     | - Sales Tax                            | 4.16              | 5.21              | 126.11              |
|             |  | <u>\$ 2896.93</u> | <u>\$ 6489.73</u> | <u>\$ 107948.83</u> |

Authorized Expended \$ 125000.00  
 107948.83  
 Balance Unexpended \$ 17051.17

Orig: TCOsborne  
 cc: RR, NV, CWC, TES, FTG, File-2

|         |                                     |         |         |
|---------|-------------------------------------|---------|---------|
| 540-400 | Sampling, Assaying, Lab. - Supplies | 1747.11 | 1747.11 |
| 540-600 | - Traveling                         | 285.16  | 285.16  |
| 580-400 | Temporary Construction - Supplies   | 14.00   | 14.00   |
| 580-600 | - Traveling                         | 141.18  | 141.18  |
| 580-801 | - Sales Tax                         | .70     | .70     |

MONTHLY COST SUMMARY

Superior East EA-0010 Project, Pinal (County), Az (State)

DIRECT DRILLING (Acct. 521-)

CONTRACTORS' CHARGES

Invoiced during month covering current month's work

Contractors' Services

Statement Amt.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Estimated balance of contractors' charges covering work through end of current month

Contractors' Services

Estimated Cost

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Supplies and Freight

\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

Field Trailer Rental

\_\_\_\_\_  
\_\_\_\_\_

Water Purchases (Drilling)

\_\_\_\_\_  
\_\_\_\_\_

SITE PREPARATION (Acct. 580-)

CONTRACTORS' CHARGES

Invoiced during month covering current month's work

Contractors' Services

Statement Amt.

\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

Estimated balance of contractors' charges covering work through end of current month

Contractors' Services

Estimated Cost

\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

Supplies and Freight

\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_



SAMPLERS, SAMPLING, SAMPLE PREPARATION, ASSAYING (Acct. 540-)

Wages (Temporary Help)

| <u>Name</u> | <u>No. of Straight Time Hours During Month</u> | <u>No. of Overtime Hours During Month</u> |
|-------------|--|---|
| _____       | _____  | _____                                     |
| _____       | _____  | _____                                     |

Assaying

| <u>Assayer</u> | <u>Charge or Estimated Expense for Assaying Performed During Month</u> |
|----------------|--|
| _____          | _____  |
| _____          | _____  |

CLAIM STAKING, VALIDATION (Acct. 507-)

Invoiced during month covering current month's work

| <u>Contractors' Services</u> | <u>Statement Amt.</u> |
|------------------------------|-----------------------|
| _____                        | _____                 |
| _____                        | _____                 |

Estimated balance of contractors' charges covering work through end of current month

| <u>Contractors' Services</u> | <u>Estimated Cost</u> |
|------------------------------|-----------------------|
| _____                        | _____                 |
| _____                        | _____                 |

Wages

| <u>Name</u> | <u>No. of Straight Time Hours During Month</u> | <u>No. of Overtime Hours During Month</u> |
|-------------|--|---|
| _____       | _____  | _____                                     |
| _____       | _____  | _____                                     |

OTHER (Itemize any other major expenses not covered above or by invoice.)

| <u>Item</u>                         | <u>Cost</u>   |
|-------------------------------------|---------------|
| Western Pathographics Invoice 72208 | 142.75        |
| " " " 72232                         | 7.50          |
| _____                               | _____         |
| _____                               | _____         |
| _____                               | _____         |
|                                     | <u>170.25</u> |

Total \$170<sup>25</sup>

J. Sell 4/26/78

INVOICE

# WESTERN PETROGRAPHIC

20 West Flores  
Tucson, Arizona 85705

C. D. N.  
MAR 31 1978

INVOICE NO. 78208

INVOICE DATE MARCH 29, 1978

ACCOUNTS PAYABLE  
SOLD TO ASARCO INC.  
P.O. BOX 5747  
TUCSON, AZ. 85703

SHIPPED TO J.D. SELL

|                        |                        |                      |                          |                              |
|------------------------|------------------------|----------------------|--------------------------|------------------------------|
| OUR ORDER NO.<br>78208 | YOUR ORDER NO.<br>SE-1 | TERMS<br>NET 30 DAYS | SHIPPED VIA<br>PICKED UP | SURPLUS MATERIAL<br>RETURNED |
|------------------------|------------------------|----------------------|--------------------------|------------------------------|

| QUANTITY | UNIT | DESCRIPTION                         | UNIT PRICE | AMOUNT   |
|----------|------|-------------------------------------|------------|----------|
| 39       | EA   | STANDARD PETROGRAPHIC THIN SECTIONS | 3.25       | 126.75   |
| 36       | EA   | IMPREGNATION WITH EPOXY             | .50        | 18.00    |
| 36       | EA   | GRINDING IN OIL                     | .50        | 18.00    |
| TOTAL:   |      |                                     |            | \$162.75 |

*Superior East EA-0010*

APPROVED FOR PAYMENT  
By: *James O'Sell*  
(Signature)

INVOICE

# WESTERN PETROGRAPHIC

20 West Flores  
Tucson, Arizona 85705

INVOICE NO. 78232

INVOICE DATE MARCH 29, 1978

SHIPPED TO J.D. SELL

C. D. N.  
MAR 31 1978

ACCOUNTS PAYABLE  
SOLD TO ASARCO INC.  
P.O. BOX 5747  
TUCSON, AZ. 85703

425

|                        |                     |                      |                          |                              |
|------------------------|---------------------|----------------------|--------------------------|------------------------------|
| OUR ORDER NO.<br>78232 | YOUR ORDER NO.<br>- | TERMS<br>NET 30 DAYS | SHIPPED VIA<br>PICKED UP | SURPLUS MATERIAL<br>RETURNED |
|------------------------|---------------------|----------------------|--------------------------|------------------------------|

| QUANTITY | UNIT | DESCRIPTION                           | UNIT PRICE | AMOUNT |
|----------|------|---------------------------------------|------------|--------|
| 1        | EA   | STANDARD PETROGRAPHIC THIN SECTIONS   | 3.75       | 3.75   |
| 1        | EA   | K-FELDSPAR STAINING                   | .75        | .75    |
|          |      | <<<MINIMUM CHARGE PER ORDER = 7.50>>> |            |        |
|          |      | TOTAL:                                |            | \$7.50 |

*Superior East EA-0010*

APPROVED FOR PAYMENT  
By: *James Sell*  
(Signature)

(2)

10-14

EXPLORATION AUTHORIZATION NO. 0010-14  
 SUPERIOR EAST PROJECT  
 PINAL COUNTY, ARIZONA

TUCSON OFFICE

April - 1978

| Account No. | Item                                   | This Month       | This Year         | Total to Date       |
|-------------|--|------------------|-------------------|---------------------|
| 506-950     | Rental Payments - Other                | \$               | \$                | \$                  |
| 521-100     | Surface Drilling - Salaries            |                  | 1579.27           | 22171.35            |
| 521-200     | - Add. Labor                           |                  | 439.37            | 571.63              |
| 521-400     | - Supplies                             |                  | 22.42             | 47.70               |
| 521-600     | - Traveling                            | 75.30            | 431.14            | 748.09              |
| 521-750     | - Services                             | (200.00)         | (17783.68)        | 82200.24            |
| 521-801     | - Sales Tax                            |                  | 95                | 7.83                |
| 530-100     | Geology - Salaries                     | 368.00           | 3688.82           | 7512.90             |
| 530-200     | - Add. Labor                           | 88.24            | 967.73            | 16251.9             |
| 530-400     | - Supplies                             |                  |                   | 3.66                |
| 530-600     | - Traveling                            | 36.62            | 49.32             | 221.57              |
| 540-750     | Sampling, Assaying, Lab. - Services    |                  | 576.72            | 1185.07             |
| 540-801     | - Sales Tax                            |                  | 76.59             | 78.19               |
| 570-100     | Engineering - Salaries                 |                  |                   | 29.12               |
| 570-200     | - Add. Labor                           |                  |                   | 5.04                |
| 570-750     | - Services                             |                  |                   | 1628.90             |
| 590-750     | Construction - Services                |                  |                   | 2172.80             |
| 590-801     | - Sales Tax                            |                  |                   | 65.81               |
| 610-400     | Field Administration - Supplies        |                  |                   | 4.10                |
| 610-500     | - Communications                       | 16.79            | 105.78            | 231.46              |
| 610-750     | - Services                             |                  |                   | 1500.00             |
| 610-780     | - Fuel, Power, Water                   | 11.89            | 80.55             | 145.83              |
| 610-801     | - Sales Tax                            |                  |                   | .16                 |
| 620-100     | General Administration - Salaries      | 216.00           | 752.00            | 1870.43             |
| 620-150     | - Wages                                |                  |                   | 5.20                |
| 620-200     | - Add. Labor                           | 51.82            | 223.79            | 435.30              |
| 620-400     | - Supplies                             | 23.00            | 65.26             | 192.16              |
| 620-750     | - Services                             |                  | 30.00             | 40.00               |
| 620-801     | - Sales Tax                            | 1.38             | 3.92              | 11.54               |
| 620-950     | - Other                                |                  |                   | 13.00               |
| 641-400     | Distributable Accounts Auto - Supplies | 67.29            | 763.29            | 1560.63             |
| 641-801     | - Sales Tax                            | .83              | 6.04              | 126.94              |
|             |  | <u>\$ 678.30</u> | <u>\$ 5811.43</u> | <u>\$ 108627.13</u> |

Authorized \$ 125000.00  
 Expended 108627.13  
 Balance Unexpended \$ 16372.87

Orig: TCOsborne  
 cc: RR, NV, CWC, TES, FTG, File-2

|         |                                       |          |          |
|---------|---------------------------------------|----------|----------|
| 540-400 | Sampling, Assaying, Lab. - Supplies   | 1747.11  | 1747.11  |
| 540-600 | - Traveling                           | 285.16   | 285.16   |
| 580-400 | Temporary Construction - Supplies     | 14.00    | 14.00    |
| 580-600 | - Traveling                           | 141.18   | 141.18   |
| 580-801 | - Sales Tax                           | .70      | .70      |
| 521-780 | Surface Drilling - Fuel, Power, Water | ( 78.86) | ( 78.86) |

A-10

0010-14

EXPLORATION AUTHORIZATION NO. 0010-14  
 SUPERIOR EAST PROJECT  
 PINAL COUNTY, ARIZONA

TUCSON OFFICE

May - 1978

| Account No. | Item                                   | This Month | This Year    | Total to Date |
|-------------|--|------------|--------------|---------------|
| 506-950     | Rental Payments - Other                | \$         | \$           | \$            |
| 521-100     | Surface Drilling - Salaries            | 160 00     | 1739 27      | 2431 35       |
| 521-200     | - Add. Labor                           | 40 27      | 479 64       | 611 90        |
| 521-400     | - Supplies                             |            | 22 42        | 47 70         |
| 521-600     | - Traveling                            |            | 431 14       | 748 09        |
| 521-750     | - Services                             |            | (17783 68)   | 82206 24      |
| 521-780     | - Fuel, Power, Water                   |            | ( 78 86)     | ( 78 86)      |
| 521-801     | - Sales Tax                            |            | 95           | 7 83          |
| 530-100     | Geology - Salaries                     | 831 00     | 4519 82      | 8343 90       |
| 530-200     | - Add. Labor                           | 201 35     | 1169 08      | 1826 54       |
| 530-400     | - Supplies                             |            |              | 3 66          |
| 530-600     | - Traveling                            | 12 90      | 62 22        | 234 47        |
| 530-801     | - Sales Tax                            |            |              |               |
| 540-400     | Sampling, Assaying, Lab. - Supplies    |            | 1747 11      | 1747 11       |
| 540-600     | - Traveling                            |            | 285 16       | 285 16        |
| 540-750     | - Services                             |            | 576 72       | 1185 07       |
| 540-801     | - Sales Tax                            |            | 76 59        | 78 19         |
| 570-100     | Engineering - Salaries                 |            |              | 29 12         |
| 570-200     | - Add. Labor                           |            |              | 5 04          |
| 570-750     | - Services                             |            |              | 1628 90       |
| 580-100     | Temporary Construction - Salaries      | 119 00     | 119 00       | 119 00        |
| 580-200     | - Add. Labor                           | 30 20      | 30 20        | 30 20         |
| 580-400     | - Supplies                             |            | 14 00        | 14 00         |
| 580-600     | - Traveling                            |            | 141 18       | 141 18        |
| 580-801     | - Sales Tax                            |            | 70           | 70            |
| 590-750     | Construction - Services                |            |              | 2172 80       |
| 590-801     | - Sales Tax                            |            |              | 65 81         |
| 610-400     | Field Administration - Supplies        |            |              | 4 10          |
| 610-500     | - Communications                       | 16 31      | 122 09       | 247 77        |
| 610-750     | - Services                             |            |              | 1500 00       |
| 610-780     | - Fuel, Power, Water                   | 7 91       | 88 46        | 153 74        |
| 610-801     | - Sales Tax                            |            |              | 16            |
| 620-100     | General Administration - Salaries      | 262 00     | 1014 00      | 2132 43       |
| 620-150     | - Wages                                |            |              | 5 20          |
| 620-200     | - Add. Labor                           | 63 76      | 287 55       | 499 06        |
| 620-400     | - Supplies                             |            | 65 26        | 192 16        |
| 620-750     | - Services                             |            | 30 00        | 40 00         |
| 620-801     | - Sales Tax                            |            | 3 92         | 11 54         |
| 620-950     | - Other                                |            |              | 13 00         |
| 641-400     | Distributable Accounts Auto - Supplies | 38 99      | 802 28       | 1599 62       |
| 641-801     | - Sales Tax                            | 01         | 6 05         | 126 95        |
|             |  | \$ 1783.70 | \$ (4027.73) | \$ 110410.83  |

Authorized  
 Expended

\$ 125000.00  
110410.83

Balance Unexpended

\$ 14589.17

Orig:  
 cc:

0010-14

EXPLORATION AUTHORIZATION NO. 0010-14  
 SUPERIOR EAST PROJECT  
 PINAL COUNTY, ARIZONA

TUCSON OFFICE

June - 1978

| Account No. | Item                                   | This Month | This Year | Total to Date |
|-------------|--|------------|-----------|---------------|
| 506-950     | Rental Payments - Other                | \$         | \$        | \$            |
| 521-100     | Surface Drilling - Salaries            |            | 1739 27   | 2431 35       |
| 521-200     | - Add. Labor                           |            | 479 64    | 611 90        |
| 521-400     | - Supplies                             |            | 22 42     | 47 70         |
| 521-600     | - Traveling                            |            | 431 14    | 748 09        |
| 521-750     | - Services                             |            | (1783 68) | 82206 24      |
| 521-780     | - Fuel, Power, Water                   |            | ( 78 86)  | ( 78 86)      |
| 521-801     | - Sales Tax                            |            | 95        | 7 83          |
| 530-100     | Geology - Salaries                     |            | 4519 82   | 8343 90       |
| 530-200     | - Add. Labor                           |            | 1169 08   | 1826 54       |
| 530-400     | - Supplies                             |            |           | 3 66          |
| 530-600     | - Traveling                            |            | 62 22     | 234 47        |
| 530-801     | - Sales Tax                            |            |           |               |
| 540-400     | Sampling, Assaying, Lab. - Supplies    |            | 1747 11   | 1747 11       |
| 540-600     | - Traveling                            |            | 285 16    | 285 16        |
| 540-750     | - Services                             |            | 576 72    | 1185 07       |
| 540-801     | - Sales Tax                            |            | 76 59     | 78 19         |
| 570-100     | Engineering - Salaries                 |            |           | 29 12         |
| 570-200     | - Add. Labor                           |            |           | 5 04          |
| 570-750     | - Services                             |            |           | 1628 90       |
| 580-100     | Temporary Construction - Salaries      |            | 119 00    | 119 00        |
| 580-200     | - Add. Labor                           |            | 30 20     | 30 20         |
| 580-400     | - Supplies                             |            | 14 00     | 14 00         |
| 580-600     | - Traveling                            |            | 141 18    | 141 18        |
| 580-801     | - Sales Tax                            |            | 70        | 70            |
| 590-750     | Construction - Services                |            |           | 2172 80       |
| 590-801     | - Sales Tax                            |            |           | 65 81         |
| 610-400     | Field Administration - Supplies        |            |           | 4 10          |
| 610-500     | - Communications                       | 16 56      | 138 65    | 264 33        |
| 610-750     | - Services                             |            |           | 1500 00       |
| 610-780     | - Fuel, Power, Water                   | 12 78      | 101 24    | 166 52        |
| 610-801     | - Sales Tax                            |            |           | 16            |
| 620-100     | General Administration - Salaries      | 400 00     | 1414 00   | 2532 43       |
| 620-150     | - Wages                                |            |           | 5 20          |
| 620-200     | - Add. Labor                           | 93 41      | 380 96    | 592 47        |
| 620-400     | - Supplies                             | 14 45      | 79 71     | 206 61        |
| 620-750     | - Services                             |            | 30 00     | 40 00         |
| 620-801     | - Sales Tax                            | 87         | 4 79      | 12 41         |
| 620-950     | - Other                                |            |           | 13 00         |
| 641-400     | Distributable Accounts Auto - Supplies |            | 802 28    | 1599 62       |
| 641-801     | - Sales Tax                            |            | 6 05      | 126 95        |

\$ 2038.07 \$ (1989.66) \$ 112448.90

Authorized  
 Expended

\$ 125000.00  
112448.90

Balance Unexpended

\$ 12551.10

610-790 Field Administration - Rent

1500.00 1500.00 1500.00

Orig:

A-10

A-10 has been recommended plus Proj. Rental on Dec. 26 1978

| ROLL No. MONTH | A-10 covered July 77<br>"This Year" | A-10 Dec 77<br>"This Year" | A-10 Difference Side Aug 77 Report | A-10 1978 "This Year" | A-10 total actual |
|----------------|-------------------------------------|----------------------------|------------------------------------|-----------------------|-------------------|
| A 521-100      | 451.00                              | 692.08                     | 241.08                             | 1,739.27              | 1,980.35          |
| -200           | 88.80                               | 132.26                     | 43.46                              | 479.64                | 523.10            |
| -400           | 1.33                                | 25.28                      | 23.95                              | 22.42                 | 46.37             |
| -600           |                                     | 316.95                     | 316.95                             | 431.14                | 748.09            |
| -750           | 54,835.04                           | 99,989.92                  | 45,154.88                          | -(17,783.68)          | 27,371.20         |
| -800           | 0.08                                | 6.88                       | 6.80                               | 0.95                  | 17.75             |
| B 530-100      |                                     |                            |                                    | 119.00                | 119.00            |
| -200           |                                     |                            |                                    | 30.20                 | 30.20             |
| see F -750     |                                     |                            |                                    | 141.18                | 141.18            |
| -800           |                                     |                            |                                    | 0.70                  | 0.70              |
| 530-100        | 1,878.00                            | 3,824.08                   | 1,946.08                           | 4,519.82              | 6,465.90          |
| -200           | 292.45                              | 457.46                     | 365.01                             | 1,149.08              | 1,534.09          |
| -400           | 3.66                                | 3.66                       | -                                  | -                     | -                 |
| -600           | 118.92                              | 172.25                     | 60.33                              | 62.22                 | 122.55            |
| -800           |                                     |                            |                                    |                       |                   |
| 550-750        |                                     |                            |                                    |                       |                   |
| 610-100        |                                     |                            |                                    |                       |                   |
| -200           |                                     |                            |                                    |                       |                   |
| -600           |                                     |                            |                                    |                       |                   |
| 540-100        |                                     |                            |                                    |                       |                   |
| -150           |                                     |                            |                                    |                       |                   |
| -200           |                                     |                            |                                    |                       |                   |
| -400           |                                     |                            |                                    | 1,747.11              | 1,747.11          |
| -600           |                                     |                            |                                    | 285.16                | 285.16            |
| -750           | 508.00                              | 608.35                     | 100.35                             | 576.72                | 677.07            |
| -800           | 1.60                                | 1.60                       | -                                  | 76.59                 | 76.59             |
| 610-100        | 1500.00                             | 1500.00                    | -                                  | -                     | -                 |
| -200           | 4.10                                | 4.10                       | -                                  | -                     | -                 |
| -500           | 52.48                               | 125.68                     | 73.20                              | 138.65                | 211.85            |
| -780           | 22.87                               | 65.28                      | 42.39                              | 101.24                | 143.63            |
| -800           | 0.16                                | 0.16                       | -                                  | -                     | -                 |
| 620-100        | 549.00                              | 1118.43                    | 569.43                             | 1419.00               | 1,983.43          |
| -150           | 5.20                                | 5.20                       | -                                  | -                     | -                 |
| -200           | 106.16                              | 211.51                     | 105.35                             | 380.96                | 484.31            |
| -400           | 105.45                              | 124.90                     | 21.45                              | 79.71                 | 101.16            |
| -800           | 6.33                                | 7.62                       | 1.29                               | 4.79                  | 6.08              |
| -950           |                                     | 13.00                      | 13.00                              | -                     | 13.00             |
| 641-400        | 295.06                              | 797.34                     | 502.28                             | 802.28                | 1,304.56          |
| -800           | 2.92                                | 120.90                     | 117.98                             | 6.05                  | 124.03            |
| 502-950        |                                     |                            |                                    |                       |                   |
| 620-500        |                                     |                            |                                    |                       |                   |
| -600           |                                     |                            |                                    |                       |                   |
| -750           |                                     | 10.00                      | 10.00                              | 30.00                 | 40.00             |
| 580-100        |                                     |                            |                                    |                       |                   |
| -400           |                                     |                            |                                    |                       |                   |
| -750           |                                     |                            |                                    |                       |                   |
| -800           |                                     |                            |                                    |                       |                   |
| 507-100        |                                     |                            |                                    |                       |                   |
| -400           |                                     |                            |                                    |                       |                   |
| -600           |                                     |                            |                                    |                       |                   |
| -750           |                                     |                            |                                    |                       |                   |
| 570-100        | 29.12                               | 29.12                      | -                                  | -                     | -                 |
| -200           | 5.04                                | 5.04                       | -                                  | -                     | -                 |
| -400           |                                     |                            |                                    |                       |                   |
| -600           |                                     |                            |                                    |                       |                   |
| 150-300        | 1,628.90                            | 1,628.90                   | -                                  | -                     | -                 |
| 570-750        | 2,172.80                            | 2,172.80                   | -                                  | 410-RENT 1,500.00     | 1,500.00          |
| 590-800        | 65.81                               | 65.81                      | -                                  | -                     | -                 |
|                | 64,723.30                           | 114,438.56                 | 49,715.26                          | -(1989.66)            | 47,725.60         |

| Record Complete A-10 all EA-0010-14 | Aug. 22, 1977 | addition through 78 | Total   |
|-------------------------------------|---------------|---------------------|---|
| A                                   | 55,365.72     | 30,598.00           | 85,963.72   |
| B                                   | 2,924.54      | 305.08              | 3,229.62  |
| C-1                                 | 4,307.57      | 8,122.54            | 12,430.11   |
| C-2                                 | -             | 2,785.93            | 2,785.93  |
| C-3                                 | 173.59        | 355.48              | 529.07  |
| D                                   | 1,535.46      | 4,018.57            | 5,554.03  |
| E                                   | -             | 40.00               | 40.00   |
| F                                   | 4,305.50      | -                   | 4,305.50  |
| G                                   | -             | -                   | -   |
| Storage Rental Project Cost         | 1,500.00      | -                   | \$1,500.00 storage rental                                   |
| Totals                              | 68,612.38     | 47,725.60           | 114,837.98 + 1,500.00 - storage rental project = 114,337.98 |

Let charges  
 be paid





C. SAMPLERS, SAMPLING, SAMPLE PREPARATION, ASSAYING (Acct. 540-)

Wages (Temporary Help)

| <u>Name</u> | <u>No. of Straight Time Hours During Month</u> | <u>No. of Overtime Hours During Month</u> |   |
|-------------|--|---|---|
| _____       | _____  | _____                                     | X |

Assaying

| <u>Assayer</u> | <u>Charge or Estimated Expense for Assaying Performed During Month</u> |   |
|----------------|--|---|
| _____          | _____  | X |

D. CLAIM STAKING, VALIDATION (Acct. 507-)

Invoiced during month covering current month's work

| <u>Contractors' Services</u> | <u>Statement Amt.</u> |   |
|------------------------------|-----------------------|---|
| _____                        | _____                 | X |

Estimated balance of contractors' charges covering work through end of current month

| <u>Contractors' Services</u> | <u>Estimated Cost</u> |   |
|------------------------------|-----------------------|---|
| _____                        | _____                 | X |

Wages

| <u>Name</u> | <u>No. of Straight Time Hours During Month</u> | <u>No. of Overtime Hours During Month</u> |   |
|-------------|--|---|---|
| _____       | _____  | _____                                     | X |

E. OTHER (Itemize any other major expenses not covered above or by invoice.)

| <u>Item</u> | <u>Cost</u> |   |
|-------------|-------------|---|
| _____       | _____       |   |
| _____       | _____       |   |
| _____       | _____       |   |
| _____       | _____       | X |

TOTAL = \$ 6,210.00

NO  
7-29-78

0010-14

EXPLORATION AUTHORIZATION NO. 0010-14

SUPERIOR EAST PROJECT  
 PINAL COUNTY, ARIZONA

TUCSON OFFICE

July - 1978

| Account No. | Item                                   | This Month        | This Year         | Total to Date       |
|-------------|--|-------------------|-------------------|---------------------|
| 506-950     | Rental Payments - Other                | \$ 548.28         | \$ 548.28         | \$ 548.28           |
| 521-100     | Surface Drilling - Salaries            | 175.00            | 1914.27           | 2606.35             |
| 521-200     | - Add. Labor                           | 40.80             | 520.44            | 652.70              |
| 521-400     | - Supplies                             |                   | 22.42             | 47.70               |
| 521-600     | - Traveling                            |                   | 431.14            | 748.09              |
| 521-750     | - Services                             |                   | (17783.68)        | 82206.24            |
| 521-780     | - Fuel, Power, Water                   |                   | (78.86)           | (78.86)             |
| 521-801     | - Sales Tax                            |                   | 95                | 7.83                |
| 530-100     | Geology - Salaries                     |                   | 4519.82           | 8343.90             |
| 530-200     | - Add. Labor                           |                   | 1169.08           | 1826.54             |
| 530-400     | - Supplies                             |                   |                   | 3.66                |
| 530-600     | - Traveling                            |                   | 62.22             | 234.47              |
| 530-801     | - Sales Tax                            |                   |                   |                     |
| 540-400     | Sampling, Assaying, Lab. - Supplies    |                   | 1747.11           | 1747.11             |
| 540-600     | - Traveling                            |                   | 285.16            | 285.16              |
| 540-750     | - Services                             |                   | 576.72            | 1185.07             |
| 540-801     | - Sales Tax                            |                   | 76.59             | 78.19               |
| 570-100     | Engineering - Salaries                 |                   |                   | 29.12               |
| 570-200     | - Add. Labor                           |                   |                   | 5.04                |
| 570-750     | - Services                             |                   |                   | 1628.90             |
| 580-100     | Temporary Construction - Salaries      |                   | 119.00            | 119.00              |
| 580-200     | - Add. Labor                           |                   | 30.20             | 30.20               |
| 580-400     | - Supplies                             |                   | 14.00             | 14.00               |
| 580-600     | - Traveling                            |                   | 141.18            | 141.18              |
| 580-801     | - Sales Tax                            |                   | 70                | 70                  |
| 590-750     | Construction - Services                |                   |                   | 2172.80             |
| 590-801     | - Sales Tax                            |                   |                   | 65.81               |
| 610-400     | Field Administration - Supplies        |                   |                   | 4.10                |
| 610-500     | - Communications                       | 16.52             | 155.17            | 280.85              |
| 610-750     | - Services                             |                   |                   | 1500.00             |
| 610-780     | - Fuel, Power, Water                   | 12.78             | 114.02            | 179.30              |
| 610-801     | - Sales Tax                            |                   |                   | 16                  |
| 620-100     | General Administration - Salaries      | 106.00            | 1520.00           | 2638.43             |
| 620-150     | - Wages                                |                   |                   | 5.20                |
| 620-200     | - Add. Labor                           | 25.00             | 405.96            | 617.47              |
| 620-400     | - Supplies                             |                   | 79.71             | 206.61              |
| 620-750     | - Services                             |                   | 30.00             | 40.00               |
| 620-801     | - Sales Tax                            |                   | 4.79              | 12.41               |
| 620-950     | - Other                                | 25.00             | 25.00             | 38.00               |
| 641-400     | Distributable Accounts Auto - Supplies | 41.03             | 843.31            | 1640.65             |
| 641-801     | - Sales Tax                            | 10                | 6.15              | 127.05              |
|             |  | <u>\$ 7200.51</u> | <u>\$ 5210.85</u> | <u>\$ 119649.41</u> |

Authorized  
 Expended

\$ 125000.00  
119649.41

Balance Unexpended

\$ 5350.59

610-790 Field Administration - Rent  
 580-750 Temporary Construction - Services *By acct* 6210.00

1500.00 1500.00  
 6210.00 6210.00

Orig:  
 cc:

A-11

SOUTHWESTERN EXPLORATION DIVISION

26th JUL. thru  
25th AUG., 1978

MONTHLY COST SUMMARY

SUPERIOR EAST Project, PINAL, AZ.  
(County) (State)

A. DIRECT DRILLING (Acct. 521-)

CONTRACTORS' CHARGES

Invoiced during month covering current month's work

| <u>Contractors' Services</u> | <u>Statement Amt.</u> |          |
|------------------------------|-----------------------|----------|
| _____                        | _____                 |          |
| _____                        | _____                 |          |
| _____                        | _____                 | <u>X</u> |

Estimated balance of contractors' charges covering work through end of current month

| <u>Contractors' Services</u>                 | <u>Estimated Cost</u> |                     |
|--|-----------------------|---------------------|
| <u>JOY MFG. Co. (MOBILIZATION + DRILLING</u> | <u>\$ 10,000.00</u>   |                     |
| <u>OF HOLE A-II FROM 0' TO 504')</u>         | <u>_____</u>          |                     |
| _____  | _____                 | <u>\$ 10,000.00</u> |

Supplies and Freight

|       |       |          |
|-------|-------|----------|
| _____ | _____ | <u>X</u> |
|-------|-------|----------|

Field Trailer Rental

|       |       |          |
|-------|-------|----------|
| _____ | _____ | <u>X</u> |
|-------|-------|----------|

Water Purchases (Drilling)

|       |       |          |
|-------|-------|----------|
| _____ | _____ | <u>X</u> |
|-------|-------|----------|

B. SITE PREPARATION (Acct. 580-)

CONTRACTORS' CHARGES

Invoiced during month covering current month's work

| <u>Contractors' Services</u>                     | <u>Statement Amt.</u> |                    |
|--|-----------------------|--------------------|
| <u>BEYANT CONST Co. INVOICES 1889 &amp; 1890</u> | <u>\$ 7,489.49</u>    |                    |
| <u>ASARCO EST. OF JUL. '78</u>                   | <u>6,210.00</u>       | <u>\$ 1,279.49</u> |
| <u>BAL DUE =</u>                                 | <u>\$ 1,279.49</u>    |                    |

Estimated balance of contractors' charges covering work through end of current month

| <u>Contractors' Services</u> | <u>Estimated Cost</u> |          |
|------------------------------|-----------------------|----------|
| _____                        | _____                 | <u>X</u> |

Supplies and Freight

|       |       |          |
|-------|-------|----------|
| _____ | _____ | <u>X</u> |
|-------|-------|----------|

C. SAMPLERS, SAMPLING, SAMPLE PREPARATION, ASSAYING (Acct. 540-)

Wages (Temporary Help)

| <u>Name</u> | <u>No. of Straight Time Hours During Month</u> | <u>No. of Overtime Hours During Month</u> |
|-------------|--|---|
| _____       | _____  | _____                                     |
| _____       | _____  | _____                                     |

X

Assaying

| <u>Assayer</u> | <u>Charge or Estimated Expense for Assaying Performed During Month</u> |
|----------------|--|
| _____          | _____  |
| _____          | _____  |

X

D. CLAIM STAKING, VALIDATION (Acct. 507-)

Invoiced during month covering current month's work

| <u>Contractors' Services</u> | <u>Statement Amt.</u> |
|------------------------------|-----------------------|
| _____                        | _____                 |
| _____                        | _____                 |

X

Estimated balance of contractors' charges covering work through end of current month

| <u>Contractors' Services</u> | <u>Estimated Cost</u> |
|------------------------------|-----------------------|
| _____                        | _____                 |
| _____                        | _____                 |

X

Wages

| <u>Name</u> | <u>No. of Straight Time Hours During Month</u> | <u>No. of Overtime Hours During Month</u> |
|-------------|--|---|
| _____       | _____  | _____                                     |
| _____       | _____  | _____                                     |

X

E. OTHER (Itemize any other major expenses not covered above or by invoice.)

| <u>Item</u> | <u>Cost</u> |
|-------------|-------------|
| _____       | _____       |
| _____       | _____       |
| _____       | _____       |
| _____       | _____       |

TOTAL = \$ 11,279.49

SAY \$ 11,300.00

NPD  
8-29-78

HOLE **A-11** PROJECT **SUPERIOR EAST** 26th **JULY** TO 25th **AUG**, 19**78** CONTRACTOR **Joy MFG Co.**

DESCRIPTION: **JULY** NC → **AUGUST** NC 504' →

| FEET DRILLED   | 26 | 27 | 28 | 29 | 30 | 31 | 1 | 2  | 3  | 4  | 5   | 6   | 7  | 8  | 9 | 10 | 11 | 12 | 13  | 14 | 15 | 16 | 17 | 18 | 19  | 20  | 21 | 22 | 23 | 24 | 25 | TOTAL | PRICE | AMOUNT   |
|----------------|----|----|----|----|----|----|---|----|----|----|-----|-----|----|----|---|----|----|----|-----|----|----|----|----|----|-----|-----|----|----|----|----|----|-------|-------|----------|
| 0 - 500 (NC)   |    |    |    |    |    | -  | - | 12 | 22 | 38 | SAT | SUN | 45 | 20 | 0 | 0  | 0  | 64 | SUN | 0  | 14 | 34 | 27 | 35 | SAT | SUN | 45 | 50 | 40 | 39 | 15 | 500   | 13.40 | 6,700.00 |
| 500 - 504 (NC) |    |    |    |    |    |    |   |    |    |    |     |     |    |    |   |    |    |    |     |    |    |    |    |    |     |     |    |    |    |    | 4  | 4     | 13.80 | 55.20    |

6 1/2" RO BIT SUB TOTAL \$ 6,755.20

| CEMENTING    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 5    | 30.00 | 150.00 |
|--------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|------|-------|--------|
| CONDITIONING |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 5    | 30.00 | 150.00 |
| CASING       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 14   | 30.00 | 420.00 |
| REAMING      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 16.5 | 30.00 | 495.00 |

12' OF 4" CASING 137' OF 4" CASING SUB TOTAL \$ 1,215.00

| MATERIALS | 1 | 7 | 10 | 8 | 10 | 8 | 9 | 4 | 5 | 3 | 4 | 4 | 3 | 76    | 4.00   | 304.00 |
|-----------|---|---|----|---|----|---|---|---|---|---|---|---|---|-------|--------|--------|
| MLUD      |   |   |    |   |    |   |   |   |   |   |   |   |   |       |        |        |
| SOL. OIL  |   |   |    |   |    |   |   |   |   |   |   |   |   | 2 BBL | 110.00 | 220.00 |
| KWIK SEAL |   |   |    |   |    |   |   |   |   |   |   |   |   | 8     | 28.00  | 224.00 |
| CALSEAL   |   |   |    |   |    |   |   |   |   |   |   |   |   | 4     | 30.00  | 120.00 |
| CELEX     |   |   |    |   |    |   |   |   |   |   |   |   |   | 1     | 190.00 | 190.00 |

START  
SETTING UP  
SETTING UP

SUB TOTAL \$ 1,058.00

| TRUCK RENTAL   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 Mo.       | 360.00 | 360.00 |
|----------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-------------|--------|--------|
| MILEAGE        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | (EST'D) 25± | .40    | 10.00  |
| LOADS OF WATER |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 22          | N/C    |        |

P ≈ POND SUB TOTAL \$ 370.00

| MISC. CORE BOXES |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | (EST'D) 54 | 1.50     | 81.00     |
|------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|------------|----------|-----------|
| MOBILIZATION     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |            | \$500.00 | \$ 500.00 |

SUB TOTAL \$ 581.00

SAY \$ 10,000.00

TOTAL \$ 9,979.20

0010-14

EXPLORATION AUTHORIZATION NO. 0010-14

TUCSON OFFICE

SUPERIOR EAST PROJECT

PINAL COUNTY, ARIZONA

August - 1978

| Account No. | Item                                   | This Month | This Year   | Total to Date |
|-------------|--|------------|-------------|---------------|
| 506-950     | Rental Payments - Other                | \$         | \$ 54828    | \$ 54828      |
| 521-100     | Surface Drilling - Salaries            | 377 00     | 2291 27     | 2983 35       |
| 521-200     | - Add. Labor                           | 87 93      | 608 37      | 740 63        |
| 521-400     | - Supplies                             |            | 22 42       | 47 70         |
| 521-600     | - Traveling                            |            | 431 14      | 748 09        |
| 521-750     | - Services                             | 4687 37    | (13096 31)  | 86893 61      |
| 521-780     | - Fuel, Power, Water                   |            | ( 78 86)    | ( 78 86)      |
| 521-801     | - Sales Tax                            |            | 95          | 7 83          |
| 530-100     | Geology - Salaries                     |            | 4519 82     | 8343 90       |
| 530-200     | - Add. Labor                           |            | 1169 08     | 1826 54       |
| 530-400     | - Supplies                             |            |             | 3 66          |
| 530-600     | - Traveling                            |            | 62 22       | 234 47        |
| 530-801     | - Sales Tax                            |            |             |               |
| 540-400     | Sampling, Assaying, Lab. - Supplies    |            | 1747 11     | 1747 11       |
| 540-600     | - Traveling                            |            | 285 16      | 285 16        |
| 540-750     | - Services                             |            | 576 72      | 1185 07       |
| 540-801     | - Sales Tax                            |            | 76 59       | 78 19         |
| 570-100     | Engineering - Salaries                 |            |             | 29 12         |
| 570-200     | - Add. Labor                           |            |             | 5 04          |
| 570-750     | - Services                             |            |             | 1628 90       |
| 580-100     | Temporary Construction - Salaries      |            | 119 00      | 119 00        |
| 580-200     | - Add. Labor                           |            | 30 20       | 30 20         |
| 580-400     | - Supplies                             |            | 14 00       | 14 00         |
| 580-600     | - Traveling                            |            | 141 18      | 141 18        |
| 580-801     | - Sales Tax                            |            | 70          | 70            |
| 590-750     | Construction - Services                |            |             | 2172 80       |
| 590-801     | - Sales Tax                            |            |             | 65 81         |
| 610-400     | Field Administration - Supplies        |            |             | 4 10          |
| 610-500     | - Communications                       | 16 31      | 171 48      | 297 16        |
| 610-750     | - Services                             |            |             | 1500 00       |
| 610-780     | - Fuel, Power, Water                   | 12 78      | 126 80      | 192 08        |
| 610-801     | - Sales Tax                            |            |             | 16            |
| 620-100     | General Administration - Salaries      |            | 1520 00     | 2638 43       |
| 620-150     | - Wages                                |            |             | 5 20          |
| 620-200     | - Add. Labor                           |            | 405 96      | 617 47        |
| 620-400     | - Supplies                             |            | 79 71       | 206 61        |
| 620-750     | - Services                             |            | 30 00       | 40 00         |
| 620-801     | - Sales Tax                            |            | 4 79        | 12 41         |
| 620-950     | - Other                                |            | 25 00       | 38 00         |
| 641-400     | Distributable Accounts Auto - Supplies | 139 45     | 982 76      | 1780 10       |
| 641-801     | - Sales Tax                            | 1 44       | 7 59        | 128 49        |
|             |  | \$ 5350 59 | \$ 10561 44 | \$ 125000 00  |

Authorized

\$ 125000.00

Expended

125000.00

Balance Unexpended

\$ -

A-11

|         |                                   |       |         |         |
|---------|-----------------------------------|-------|---------|---------|
| 610-790 | Field Administration - Rent       |       | 1500.00 | 1500.00 |
| 580-750 | Temporary Construction - Services |       | 6210.00 | 6210.00 |
| 540-150 | Sampling, Assaying, Lab. - Wages  | 26.12 | 26.12   | 26.12   |
| 540-200 | - Add. Labor                      | 2.19  | 2.19    | 2.19    |

0010-15

EXPLORATION AUTHORIZATION NO. 0010-15  
SUPERIOR EAST PROJECT  
PINAL COUNTY, ARIZONA

TUCSON OFFICE

AUGUST - 1978

| Account No. | Item                                   | This Month        | This Year         | Total to Date |
|-------------|--|-------------------|-------------------|---------------|
| 506-950     | Rental Payments - Other                | \$                | \$                | \$            |
| 521-100     | Surface Drilling - Salaries            |                   |                   |               |
| 521-200     | - Add. Labor                           |                   |                   |               |
| 521-400     | - Supplies                             |                   |                   |               |
| 521-600     | - Traveling                            |                   |                   |               |
| 521-750     | - Services                             | 5312.63           | 5312.63           |               |
| 521-780     | - Fuel, Power, Water                   |                   |                   |               |
| 521-801     | - Sales Tax                            |                   |                   |               |
| 530-100     | Geology - Salaries                     |                   |                   |               |
| 530-200     | - Add. Labor                           |                   |                   |               |
| 530-400     | - Supplies                             |                   |                   |               |
| 530-600     | - Traveling                            |                   |                   |               |
| 530-801     | - Sales Tax                            |                   |                   |               |
| 540-400     | Sampling, Assaying, Lab. - Supplies    |                   |                   |               |
| 540-600     | - Traveling                            |                   |                   |               |
| 540-750     | - Services                             |                   |                   |               |
| 540-801     | - Sales Tax                            |                   |                   |               |
| 570-100     | Engineering - Salaries                 |                   |                   |               |
| 570-200     | - Add. Labor                           |                   |                   |               |
| 570-750     | - Services                             |                   |                   |               |
| 580-100     | Temporary Construction - Salaries      |                   |                   |               |
| 580-200     | - Add. Labor                           |                   |                   |               |
| 580-400     | - Supplies                             |                   |                   |               |
| 580-750     | - Services                             | 1279.49           | 1279.49           |               |
| 580-801     | - Sales Tax                            |                   |                   |               |
| 590-750     | Construction - Services                |                   |                   |               |
| 590-801     | - Sales Tax                            |                   |                   |               |
| 610-400     | Field Administration - Supplies        |                   |                   |               |
| 610-500     | - Communications                       |                   |                   |               |
| 610-750     | - Services                             |                   |                   |               |
| 610-780     | - Fuel, Power, Water                   |                   |                   |               |
| 610-801     | - Sales Tax                            |                   |                   |               |
| 620-100     | General Administration - Salaries      |                   |                   |               |
| 620-150     | - Wages                                |                   |                   |               |
| 620-200     | - Add. Labor                           |                   |                   |               |
| 620-400     | - Supplies                             |                   |                   |               |
| 620-750     | - Services                             |                   |                   |               |
| 620-801     | - Sales Tax                            |                   |                   |               |
| 620-950     | - Other                                |                   |                   |               |
| 641-400     | Distributable Accounts Auto - Supplies |                   |                   |               |
| 641-800     | - Sales Tax                            |                   |                   |               |
|             |  | <u>\$ 6592.12</u> | <u>\$ 6592.12</u> | <u>\$</u>     |

Authorized Expended

\$ 146000.00  
6592.12

Balance Unexpended

\$ 139407.88

A-11

Orig:  
cc:

SOUTHWESTERN EXPLORATION DIVISION

26th Aug thru  
25th SEPT, 1978

MONTHLY COST SUMMARY

SUPERIOR EAST

Project, PINAL  
(County)

AZ.  
(State)

A. DIRECT DRILLING (Acct. 521-)

CONTRACTORS' CHARGES

Invoiced during month covering current month's work

Contractors' Services

Statement Amt.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

X

Estimated balance of contractors' charges covering work through end of current month

Contractors' Services

Estimated Cost

JOY MFG. CO. (DRILLING A-II FROM  
504' TO 1205')

\$ 11,800.00

\$ 11,800.00

Supplies and Freight

\_\_\_\_\_

\_\_\_\_\_

X

Field Trailer Rental

\_\_\_\_\_

\_\_\_\_\_

X

Water Purchases (Drilling)

\_\_\_\_\_

\_\_\_\_\_

X

B. SITE PREPARATION (Acct. 580-)

CONTRACTORS' CHARGES

Invoiced during month covering current month's work

Contractors' Services

Statement Amt.

\_\_\_\_\_

\_\_\_\_\_

X

Estimated balance of contractors' charges covering work through end of current month

Contractors' Services

Estimated Cost

\_\_\_\_\_

\_\_\_\_\_

X

Supplies and Freight

\_\_\_\_\_

\_\_\_\_\_

X



C. SAMPLERS, SAMPLING, SAMPLE PREPARATION, ASSAYING (Acct. 540-)

Wages (Temporary Help)

| <u>Name</u> | <u>No. of Straight Time Hours During Month</u> | <u>No. of Overtime Hours During Month</u> |          |
|-------------|--|---|----------|
| _____       | _____  | _____                                     | <u>X</u> |
| _____       | _____  | _____                                     |          |

Assaying

| <u>Assayer</u> | <u>Charge or Estimated Expense for Assaying Performed During Month</u> |          |
|----------------|--|----------|
| _____          | _____  | <u>X</u> |
| _____          | _____  |          |

D. CLAIM STAKING, VALIDATION (Acct. 507-)

Invoiced during month covering current month's work

| <u>Contractors' Services</u> | <u>Statement Amt.</u> |          |
|------------------------------|-----------------------|----------|
| _____                        | _____                 | <u>X</u> |
| _____                        | _____                 |          |

Estimated balance of contractors' charges covering work through end of current month

| <u>Contractors' Services</u> | <u>Estimated Cost</u> |          |
|------------------------------|-----------------------|----------|
| _____                        | _____                 | <u>X</u> |
| _____                        | _____                 |          |

Wages

| <u>Name</u> | <u>No. of Straight Time Hours During Month</u> | <u>No. of Overtime Hours During Month</u> |          |
|-------------|--|---|----------|
| _____       | _____  | _____                                     | <u>X</u> |
| _____       | _____  | _____                                     |          |

E. OTHER (Itemize any other major expenses not covered above or by invoice.)

| <u>Item</u> | <u>Cost</u> |          |
|-------------|-------------|----------|
| _____       | _____       |          |
| _____       | _____       |          |
| _____       | _____       |          |
| _____       | _____       | <u>X</u> |

TOTAL = \$ 11,800.00

NPLD  
9-27-78

cc: JD SELL ✓



# JOY MANUFACTURING COMPANY

OLIVER BUILDING  
PITTSBURGH, PENNSYLVANIA 15222

PLEASE REMIT TO  
P. O. BOX 360135M  
PITTSBURGH, PA. 15250

→ JDS

|                      |                 |               |      |               |         |
|----------------------|-----------------|---------------|------|---------------|---------|
| CUSTOMER'S ORDER NO. | DATE            | REQ. NO.      | DATE | AT REC. POINT | B.O.NO. |
| CONTRACT             | CODE            | OUR ORD'R NO. | DATE | AT SHIP POINT |         |
| 99                   | 69 05 03 02 209 |               |      |               |         |

C. D. N.

OCT 23 1978

02250

SOLD TO  
Asarco Inc.  
P. O. Box 5747  
Tucson, AZ 85703

Attn: Mr. N. P. Whaley

TERMS NET 30 DAYS  
NO CASH DISCOUNT

INVOICE NO. 05117179

INVOICE DATE 10/17/78

SHIPPED TO  
Superior, AZ

PLEASE REMIT TO  
P. O. BOX 360135M  
PITTSBURGH, PA. 15250

DATE SHIPPED

SHIPPED VIA

P. O. ADDRESS

MARKS

REQUESTED ROUTING

SHIPPED FROM Michigan City

| ORIGINAL QUANTITY ORDERED  | PART NUMBER          | DESCRIPTION                                   | CODE            | UNIT PRICE         | QUANTITY BACK ORDERED | QUANTITY SHIPPED   | AMOUNT                                 |
|--|----------------------|---|-----------------|--------------------|-----------------------|--------------------|--|
| To 701.1' core drilling at Superior, AZ for period ending Sept. 25, 1978 as per agreement. |                      |   |                 |                    |                       |                    |  |
| <u>PROSPECT NO.</u>  |                      | <u>FROM</u>                                   | <u>TO</u>       | <u>TOTAL FEET</u>  | <u>UNIT</u>           | <u>COST</u>        | <u>TOTAL COST</u>                      |
|  | All                  | NC  | 504. ✓<br>1000. | 1000. ✓<br>1205. ✓ | 496.<br>205.          | 13.80 ✓<br>14.40 ✓ | 6,844.80<br>2,952.00<br><hr/> 9,796.80 |
| <u>MUD &amp; ADDITIVES USED</u>  |                      |   |                 |                    |                       |                    |  |
|  | 69 ✓                 | 50# bags mud @ \$4.00                         |                 |                    |                       |                    | 276.00                                 |
|  | 4 ✓                  | 50# bags Cellex @ \$176.55                    |                 |                    |                       |                    | 706.20                                 |
|  | 2 ✓                  | 40# bags Kwikseal @ \$28.93                   |                 |                    |                       |                    | 57.86                                  |
|  | 2 ✓                  | 55 gal. drums soluble oil - 110 gal. @ \$2.40 |                 |                    |                       |                    | 264.00                                 |
| <u>CORE BOXES</u>  |                      |   |                 |                    |                       |                    |  |
|  | 70                   | boxes @ \$1.50                                |                 |                    |                       |                    | 105.00                                 |
| <u>WATER TRUCK RENTAL</u>  |                      |   |                 |                    |                       |                    |  |
| SUPERIOR EAST APPROVED FOR PAYMENT   |                      | Rental - one month                            |                 |                    |                       |                    | 360.00                                 |
| By: <i>NPD</i>   | (Signature) 10-27-78 | 16 miles @ \$.40/mile                         |                 |                    |                       |                    | 6.40                                   |
|  |                      |   |                 |                    |                       |                    | <hr/> \$11,572.26                      |

SUPERIOR EAST APPROVED FOR PAYMENT

By: *NPD*  
(Signature) 10-27-78

APPROVED FOR PAYMENT

By: (Signature)

F. O. B. SHIPPING POINT UNLESS OTHERWISE SPECIFIED  
NO RETURNS ALLOWED UNLESS AUTHORIZED BY THIS OFFICE

DUPLICATE

0010-15

EXPLORATION AUTHORIZATION NO. 0010-15  
 SUPERIOR EAST PROJECT  
 PINAL COUNTY, ARIZONA

TUCSON OFFICE

September 1978

| Account No. | Item                                   | This Month         | This Year          | Total to Date |
|-------------|--|--------------------|--------------------|---------------|
| 506-950     | Rental Payments - Other                | \$                 | \$                 | \$            |
| 521-100     | Surface Drilling - Salaries            | 88 00              | 88 00              |               |
| 521-200     | - Add. Labor                           | 12 21              | 12 21              |               |
| 521-400     | - Supplies                             |                    |                    |               |
| 521-600     | - Traveling                            |                    |                    |               |
| 521-750     | - Services                             | 11758 81           | 17071 44           |               |
| 521-780     | - Fuel, Power, Water                   |                    |                    |               |
| 521-801     | - Sales Tax                            |                    |                    |               |
| 530-100     | Geology - Salaries                     |                    |                    |               |
| 530-200     | - Add. Labor                           |                    |                    |               |
| 530-400     | - Supplies                             |                    |                    |               |
| 540-150     | Sampling, Assaying, Lab. - Wages       | 181 69             | 181 69             |               |
| 540-200     | - Add. Labor                           | 10 99              | 10 99              |               |
| 540-400     | - Supplies                             |                    |                    |               |
| 540-600     | - Traveling                            |                    |                    |               |
| 540-750     | - Services                             | 5 00               | 5 00               |               |
| 540-801     | - Sales Tax                            |                    |                    |               |
| 570-100     | Engineering - Salaries                 |                    |                    |               |
| 570-200     | - Add. Labor                           |                    |                    |               |
| 570-750     | - Services                             |                    |                    |               |
| 580-100     | Temporary Construction - Salaries      |                    |                    |               |
| 580-200     | - Add. Labor                           |                    |                    |               |
| 580-400     | - Supplies                             |                    |                    |               |
| 580-750     | - Services                             |                    | 1279 49            |               |
| 580-801     | - Sales Tax                            |                    |                    |               |
| 590-750     | Construction - Services                |                    |                    |               |
| 590-801     | - Sales Tax                            |                    |                    |               |
| 610-400     | Field Administration - Supplies        |                    |                    |               |
| 610-500     | - Communications                       | 17 69              | 17 69              |               |
| 610-750     | - Services                             |                    |                    |               |
| 610-780     | - Fuel, Power, Water                   | 12 78              | 12 78              |               |
| 610-801     | - Sales Tax                            |                    |                    |               |
| 620-100     | General Administration - Salaries      |                    |                    |               |
| 620-150     | - Wages                                |                    |                    |               |
| 620-200     | - Add. Labor                           |                    |                    |               |
| 620-400     | - Supplies                             | 91                 | 91                 |               |
| 620-750     | - Services                             |                    |                    |               |
| 620-801     | - Sales Tax                            | 05                 | 05                 |               |
| 620-950     | - Other                                |                    |                    |               |
| 641-400     | Distributable Accounts Auto - Supplies | 103 58             | 103 58             |               |
| 641-800     | - Sales Tax                            | 1 52               | 1 52               |               |
|             |  | <u>\$ 12193 23</u> | <u>\$ 18785 35</u> |               |

Authorized  
 Expended

\$ 146000.00  
18785.35

Balance Unexpended

\$ 127214.65

A-11

Orig:  
 cc:

MONTHLY COST SUMMARY

6 SUPERIOR EAST Project, SANTA CRUZ, ARZ.  
(County) (State)

A. DIRECT DRILLING (Acct. 521-)

CONTRACTORS' CHARGES

Invoiced during month covering current month's work

| <u>Contractors' Services</u> | <u>Statement Amt.</u> |          |
|------------------------------|-----------------------|----------|
| _____                        | _____                 |          |
| _____                        | _____                 |          |
| _____                        | _____                 |          |
| _____                        | _____                 | <u>X</u> |

Estimated balance of contractors' charges covering work through end of current month

| <u>Contractors' Services</u>               | <u>Estimated Cost</u> |                    |
|--|-----------------------|--------------------|
| <u>JOY MFG. Co. (DRILLING OF HOLE A-11</u> |                       |                    |
| <u>FROM 1205' TO 1640')</u>                | <u>\$ 8,100.00</u>    |                    |
| _____                                      | _____                 |                    |
| _____                                      | _____                 | <u>\$ 8,100.00</u> |

Supplies and Freight

|       |       |          |
|-------|-------|----------|
| _____ | _____ | <u>X</u> |
|-------|-------|----------|

Field Trailer Rental

|       |       |          |
|-------|-------|----------|
| _____ | _____ | <u>X</u> |
|-------|-------|----------|

Water Purchases (Drilling)

|       |       |          |
|-------|-------|----------|
| _____ | _____ | <u>X</u> |
|-------|-------|----------|

B. SITE PREPARATION (Acct. 580-)

CONTRACTORS' CHARGES

Invoiced during month covering current month's work

| <u>Contractors' Services</u> | <u>Statement Amt.</u> |          |
|------------------------------|-----------------------|----------|
| _____                        | _____                 |          |
| _____                        | _____                 |          |
| _____                        | _____                 | <u>X</u> |

Estimated balance of contractors' charges covering work through end of current month

| <u>Contractors' Services</u> | <u>Estimated Cost</u> |          |
|------------------------------|-----------------------|----------|
| _____                        | _____                 |          |
| _____                        | _____                 |          |
| _____                        | _____                 | <u>X</u> |

Supplies and Freight

|       |       |          |
|-------|-------|----------|
| _____ | _____ |          |
| _____ | _____ |          |
| _____ | _____ | <u>X</u> |

C. SAMPLERS, SAMPLING, SAMPLE PREPARATION, ASSAYING (Acct. 540-)

Wages (Temporary Help)

| <u>Name</u> | <u>No. of Straight Time Hours During Month</u> | <u>No. of Overtime Hours During Month</u> |   |
|-------------|--|---|---|
| _____       | _____  | _____                                     | X |

Assaying

| <u>Assayer</u> | <u>Charge or Estimated Expense for Assaying Performed During Month</u> |   |
|----------------|--|---|
| SEE JD SELL    | _____  | ? |

D. CLAIM STAKING, VALIDATION (Acct. 507-)

Invoiced during month covering current month's work

| <u>Contractors' Services</u> | <u>Statement Amt.</u> |   |
|------------------------------|-----------------------|---|
| _____                        | _____                 | X |

Estimated balance of contractors' charges covering work through end of current month

| <u>Contractors' Services</u> | <u>Estimated Cost</u> |   |
|------------------------------|-----------------------|---|
| _____                        | _____                 | X |

Wages

| <u>Name</u> | <u>No. of Straight Time Hours During Month</u> | <u>No. of Overtime Hours During Month</u> |   |
|-------------|--|---|---|
| _____       | _____  | _____                                     | X |

E. OTHER (Itemize any other major expenses not covered above or by invoice.)

| <u>Item</u>  | <u>Cost</u> |          |
|--|-------------|----------|
| ARIZONA WATER Co. (34 LOADS OF WATER FROM SUPERIOR, AZ.) | \$ 69.44    |          |
| _____  | _____       |          |
| _____  | _____       | \$ 69.44 |

TOTAL = \$ 8,169.44

SAY \$ 8,200.00

cc: JDS ✓

APW  
10-30-78



0010-15

EXPLORATION AUTHORIZATION NO. 0010-15  
 SUPERIOR EAST PROJECT  
 PINAL COUNTY, ARIZONA

TUCSON OFFICE

October - 1978

| Account No. | Item                                   | This Month        | This Year          | Total to Date |
|-------------|--|-------------------|--------------------|---------------|
| 506-950     | Rental Payments - Other                | \$                | \$                 | \$            |
| 521-100     | Surface Drilling - Salaries            | 167 00            | 255 00             |               |
| 521-200     | - Add. Labor                           | 23 96             | 36 17              |               |
| 521-400     | - Supplies                             |                   |                    |               |
| 521-600     | - Traveling                            |                   |                    |               |
| 521-750     | - Services                             | 810 00            | 2517 44            |               |
| 521-780     | - Fuel, Power, Water                   | 69 44             | 69 44              |               |
| 521-801     | - Sales Tax                            |                   |                    |               |
| 530-100     | Geology - Salaries                     | 496 00            | 496 00             |               |
| 530-200     | - Add. Labor                           | 69 72             | 69 72              |               |
| 530-600     | - Traveling                            | 73 50             | 73 50              |               |
| 540-150     | Sampling, Assaying, Lab. - Wages       | 35 63             | 217 32             |               |
| 540-200     | - Add. Labor                           | 2 16              | 13 15              |               |
| 540-400     | - Supplies                             |                   |                    |               |
| 540-600     | - Traveling                            |                   |                    |               |
| 540-750     | - Services                             |                   | 5 00               |               |
| 540-801     | - Sales Tax                            |                   |                    |               |
| 570-100     | Engineering - Salaries                 |                   |                    |               |
| 570-200     | - Add. Labor                           |                   |                    |               |
| 570-750     | - Services                             |                   |                    |               |
| 580-100     | Temporary Construction - Salaries      |                   |                    |               |
| 580-200     | - Add. Labor                           |                   |                    |               |
| 580-400     | - Supplies                             |                   |                    |               |
| 580-750     | - Services                             |                   | 1279 49            |               |
| 580-801     | - Sales Tax                            |                   |                    |               |
| 590-750     | Construction - Services                |                   |                    |               |
| 590-801     | - Sales Tax                            |                   |                    |               |
| 610-400     | Field Administration - Supplies        |                   |                    |               |
| 610-500     | - Communications                       | 16 31             | 34 00              |               |
| 610-750     | - Services                             |                   |                    |               |
| 610-780     | - Fuel, Power, Water                   | 12 78             | 25 56              |               |
| 610-801     | - Sales Tax                            |                   |                    |               |
| 620-100     | General Administration - Salaries      | 106 00            | 106 00             |               |
| 620-150     | - Wages                                |                   |                    |               |
| 620-200     | - Add. Labor                           | 15 25             | 15 25              |               |
| 620-400     | - Supplies                             | 1 74              | 2 65               |               |
| 620-750     | - Services                             |                   |                    |               |
| 620-801     | - Sales Tax                            | 10                | 15                 |               |
| 620-950     | - Other                                |                   |                    |               |
| 641-400     | Distributable Accounts Auto - Supplies | 119 99            | 223 57             |               |
| 641-800     | - Sales Tax                            |                   | 1 52               |               |
|             |  | <u>\$ 9309.58</u> | <u>\$ 28094.93</u> | <u>\$</u>     |

Authorized  
 Expended

\$ 146000.00  
28094.93

Balance Unexpended

\$ 117905.07

A-11

Orig:  
 cc:

MONTHLY COST SUMMARY

Superior East Proj. EA-0010 Project, Penal (County), Az (State)

A. DIRECT DRILLING (Acct. 521-)

CONTRACTORS' CHARGES

Invoiced during month covering current month's work

Contractors' Services

Statement Amt.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Estimated balance of contractors' charges covering work through end of current month

Contractors' Services

Estimated Cost

See attached Estimate  
\_\_\_\_\_  
\_\_\_\_\_

13,609.84  
\_\_\_\_\_  
\_\_\_\_\_

13,609.84

Supplies and Freight

\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

Field Trailer Rental

Water Purchases (Drilling)

\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

B. SITE PREPARATION (Acct. 580-)

CONTRACTORS' CHARGES

Invoiced during month covering current month's work

Contractors' Services

Statement Amt.

\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

Estimated balance of contractors' charges covering work through end of current month

Contractors' Services

Estimated Cost

\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

Supplies and Freight

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

*(Page 2 not applicable)*



Jay Drilling Company  
 Superior East Project Hole A-11  
 November 1978.

(Verbal Bob Gardner 11/27)

ESTIMATE:

Drilling: Start 1640', end 2342' = 702 feet.

NC: 1640-2000' = 360' @ \$15<sup>20</sup> = \$5,472.00

NC: 2000'-2342' = 342' @ 16<sup>20</sup> = 5,540.40

~~11,012.40~~

11,012.40

Material: Mud 135 bags @ 4<sup>00</sup> = 540.00

Nick's Mud Seal 1 bag @ 15<sup>03</sup> = 15.03

Shufford (H) 4 @ 132<sup>00</sup> = 528.00

(should be 6?) Caller 5 @ 191<sup>92</sup> = 959.60

Con-det (5 gal) 1 @ 55<sup>91</sup> = 55.91

2,098.54

Trench Rental 1 month @ 360<sup>00</sup> = 360.00

Mileage, 51 @ 0.40 = 20.40

380.40

Miscellaneous

Water from pond, 99 loads @ NC = NC

Core boxes, #171 → #251 = 79 @ 1<sup>50</sup> = 118.50

118.50

\$ 13,609.84

HOLE 4 A-11 PROJECT Superior East EA-0010 26th Oct. HRU 25th Nov., 1978 CONTRACTOR Jay

DESCRIPTION: 1640 NC 2342 NC

| FEET DRILLED        | 26        | 27        | 28         | 29         | 30        | 31        | 1         | 2        | 3         | 4         | 5          | 6        | 7         | 8         | 9         | 10        | 11         | 12         | 13        | 14        | 15         | 16         | 17        | 18        | 19        | 20             | 21         | 22 | 23 | 24 | 25 | TOTAL      | PRICE        | AMOUNT                     |
|---------------------|-----------|-----------|------------|------------|-----------|-----------|-----------|----------|-----------|-----------|------------|----------|-----------|-----------|-----------|-----------|------------|------------|-----------|-----------|------------|------------|-----------|-----------|-----------|----------------|------------|----|----|----|----|------------|--------------|----------------------------|
| <u>1640-2000 NC</u> | <u>20</u> | <u>16</u> | <u>Sat</u> | <u>Sun</u> | <u>14</u> | <u>14</u> | <u>21</u> | <u>5</u> | <u>11</u> | <u>12</u> | <u>Sun</u> | <u>0</u> | <u>48</u> | <u>39</u> | <u>21</u> | <u>38</u> | <u>Sat</u> | <u>Sun</u> | <u>33</u> | <u>68</u> | <u>-</u>   |            |           |           |           |                |            |    |    |    |    | <u>360</u> | <u>15.20</u> | <u>5,472.<sup>00</sup></u> |
| <u>2000-2342 NC</u> |           |           |            |            |           |           |           |          |           |           |            |          |           |           |           |           | <u>11</u>  | <u>69</u>  | <u>60</u> | <u>37</u> | <u>Sat</u> | <u>Sun</u> | <u>66</u> | <u>61</u> | <u>38</u> | <u>Holiday</u> | <u>Sat</u> |    |    |    |    | <u>342</u> | <u>16.20</u> | <u>5,540.<sup>00</sup></u> |

SUB TOTAL 11,012.40

| CEMENTING<br>CONDITIONING<br>CASING |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | TOTAL | PRICE | AMOUNT |
|-------------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-------|-------|--------|
|                                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |       |       |        |

SUB TOTAL

| MATERIALS                | 2        | 2        | -        | -        | 2        | 2        | 3        | 2        | 2        | 2        | -        | 1        | 7        | 5        | 10        | 8?        | -        | -        | 6        | 12        | 11        | 10        | 11        | -        | -        | 16        | 15        | 6?        | -        | -        | -        | 135                      | 4.00                     | 540.00                  |              |
|--------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|-----------|----------|----------|----------|-----------|-----------|-----------|-----------|----------|----------|-----------|-----------|-----------|----------|----------|----------|--------------------------|--------------------------|-------------------------|--------------|
| <u>Mud</u>               | <u>2</u> | <u>2</u> | <u>-</u> | <u>-</u> | <u>2</u> | <u>2</u> | <u>3</u> | <u>2</u> | <u>2</u> | <u>2</u> | <u>-</u> | <u>1</u> | <u>7</u> | <u>5</u> | <u>10</u> | <u>8?</u> | <u>-</u> | <u>-</u> | <u>6</u> | <u>12</u> | <u>11</u> | <u>10</u> | <u>11</u> | <u>-</u> | <u>-</u> | <u>16</u> | <u>15</u> | <u>6?</u> | <u>-</u> | <u>-</u> | <u>-</u> | <u>135</u>               | <u>4.00</u>              | <u>540.00</u>           |              |
| <u>Dicks Mud Seal</u>    | <u>1</u> |          |          |          |          |          |          |          |          |          |          |          |          |          |           |           |          |          |          |           |           |           |           |          |          |           |           |           |          |          |          |                          | <u>1</u>                 | <u>15.<sup>03</sup></u> | <u>15.03</u> |
| <u>Soluble O.D. Cbbi</u> |          |          |          |          |          |          |          | <u>1</u> |          |          |          |          |          |          |           |           |          |          | <u>1</u> |           | <u>1</u>  |           |           |          |          |           | <u>1</u>  |           |          |          |          | <u>4</u>                 | <u>132.<sup>00</sup></u> | <u>528.00</u>           |              |
| <u>Celler</u>            |          |          |          |          |          |          |          |          |          |          |          | <u>1</u> | <u>1</u> |          |           |           |          |          |          | <u>1</u>  | <u>1</u>  |           |           |          |          | <u>1</u>  | <u>1</u>  |           |          |          | <u>6</u> | <u>191.<sup>92</sup></u> | <u>1,151.52</u>          |                         |              |
| <u>Con-det (5 gal)</u>   |          |          |          |          |          |          |          |          |          |          |          |          | <u>1</u> |          |           |           |          |          |          |           |           |           |           |          |          |           |           |           |          |          |          | <u>1</u>                 | <u>55.<sup>91</sup></u>  | <u>55.91</u>            |              |

(\* Note: Bob Gardner verbally reported 11/27, only 5 Cellers used, which was used on Cost Estimate.

SUB TOTAL 2,290.46

| TRUCK RENTAL<br>MILEAGE<br>LOADS OF WATER |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |           |          |          |          |          |          |          |          |          |          | Months    | 360 <sup>00</sup> | 360 <sup>00</sup> |          |          |          |
|---|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|-------------------|-------------------|----------|----------|----------|
|   |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |           |          |          |          |          |          |          |          |          |          |           |                   |                   |          |          |          |
|   | <u>1</u> | <u>1</u> | <u>-</u> | <u>-</u> | <u>2</u> | <u>2</u> | <u>2</u> | <u>1</u> | <u>2</u> | <u>2</u> | <u>-</u> | <u>1</u> | <u>6</u> | <u>6</u> | <u>4</u> | <u>3?</u> | <u>-</u> | <u>-</u> | <u>5</u> | <u>7</u> | <u>8</u> | <u>9</u> | <u>7</u> | <u>-</u> | <u>-</u> | <u>12</u> | <u>12</u>         | <u>4?</u>         | <u>-</u> | <u>-</u> | <u>-</u> |

Water taken from large pond, ± 0.5 mile per trip.

SUB TOTAL 380.40

| MISC.                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | #171 | #251 | 79 | 150 | 118.50 |
|----------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|------|------|----|-----|--------|
| <u>Core Boxes NC</u> |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |      |    |     |        |

SUB TOTAL 118.50

(See Note under Celler)

TOTAL 13,801.76



# JOY MANUFACTURING COMPANY

OLIVER BUILDING  
PITTSBURGH, PENNSYLVANIA 15222

PLEASE REMIT TO  
P. O. BOX 360135M  
PITTSBURGH, PA. 15250

|                      |                    |               |      |               |          |
|----------------------|--------------------|---------------|------|---------------|----------|
| CUSTOMER'S ORDER NO. | DATE               | REQ. NO.      | DATE | AT REC. POINT | B.O. NO. |
| CONTRACT             | 99 69 05 03 02 209 | OUR ORD'R NO. | DATE | AT SHIP POINT |          |

12-11-78  
APW

02250

SOLD TO Asarco Inc.  
P. O. Box 5747  
Tucson, AZ 85703  
Attn: Mr. N. P. Whaley

SHIPPED TO Superior, AZ

P. O. ADDRESS

TERMS NET 30 DAYS  
NO CASH DISCOUNT

INVOICE NO. 05117308

INVOICE DATE 12/1/78

PLEASE REMIT TO  
P. O. BOX 360135M  
PITTSBURGH, PA. 15250

DATE SHIPPED

SHIPPED VIA

REQUESTED ROUTING SHIPPED FROM Michigan City

| ORIGINAL QUANTITY ORDERED  | PART NUMBER | DESCRIPTION                           | CODE      | UNIT PRICE        | QUANTITY BACK ORDERED | QUANTITY SHIPPED  | AMOUNT      |
|--|-------------|---------------------------------------|-----------|-------------------|-----------------------|-------------------|-------------|
| To 702.1 core drilling at Superior, AZ for period ending Nov. 25, 1978 as per agreement. |             |                                       |           |                   |                       |                   |             |
| <u>PROSPECT NO.</u>  |             | <u>FROM</u>                           | <u>TO</u> | <u>TOTAL FEET</u> | <u>UNIT COST</u>      | <u>TOTAL COST</u> |             |
|  | A11         | NC                                    | 1640.     | 2000.             | 360.                  | 15.20             | 5,472.00    |
|  |             |                                       | 2000.     | 2342.             | 342.                  | 16.20             | 5,540.40    |
| <u>MUD &amp; ADDITIVES USED</u>  |             |                                       |           |                   |                       |                   | 11,012.40   |
|  | 133         | 50# bags mud @ \$4.00                 |           |                   |                       |                   | 532.00      |
|  | 1           | 5 gal. can Con Det                    |           |                   |                       |                   | 65.63       |
|  | 5           | 50# bags Cellex @ \$191.92            |           |                   |                       |                   | 959.60      |
|  | 1           | 40# bag Dicks Mud Seal                |           |                   |                       |                   | 21.19       |
|  | 220         | gal. soluble oil @ \$2.40/gal.        |           |                   |                       |                   | 528.00      |
| <u>CORE BOXES USED</u>   |             |                                       |           |                   |                       |                   |             |
|  |             | 79 boxes @ \$1.50                     |           | 118.50            |                       |                   |             |
|  |             | Less previous overcharge for 70 boxes |           | 105.00            |                       |                   | 13.50       |
| <u>WATER TRUCK</u>   |             |                                       |           |                   |                       |                   |             |
|  |             | Rental - One month                    |           |                   |                       |                   | 360.00      |
|  |             | 51 miles @ \$.40/mile                 |           |                   |                       |                   | 20.40       |
|  |             |                                       |           |                   |                       |                   | \$13,512.72 |

OK for payment  
Superior East EA-20010  
James W. Hill

09007

F. O. B. SHIPPING POINT UNLESS OTHERWISE SPECIFIED  
NO RETURNS ALLOWED UNLESS AUTHORIZED BY THIS OFFICE  
GOODS COVERED BY THIS INVOICE WERE PRODUCED IN COMPLIANCE WITH THE REQUIREMENTS OF THE FAIR LABOR STANDARDS ACT OF 1938, AS AMENDED, INCLUDING SECTION 12(A).

## ORIGINAL



Estimated Time-Depth-Cost of Hole A-11.

\$ 87,000 /year assessment needed  
 - 22,000 spent in 1978 prior to August  
 \$ 65,000 needed to complete 1978 assessment  
 - 12,350 August expenditure  
 - 12,000 September expenditure  
 - 9,500 October expenditure  
 \$ 31,150 needed to complete 1978 expenditures  
 - 15,000 to NC hole & casing depth,  $\pm 2400'$ , Cows, one shift.  
 \$ 16,000 needed to complete 1978 expenditures  
 - 16,000 of NX coring to  $\pm 3100'$ , 2 1/2 weeks, 3 shift basis.  
 Zero

\_\_\_\_\_  
 $\pm 8\frac{1}{2}$  weeks  $\pm$  ~~Jan 1, 1979~~ <sup>Dec 31, 1978</sup>

\$ 10,000 of NX coring and casing to  $\pm 3400'$ ; 1 1/2 weeks, 3 shift basis

\_\_\_\_\_  
 $\pm 1\frac{1}{2}$  weeks  $\pm$  mid Jan 1979.

to end of NX coring and setting casing.

JDS  
 11/1/78





884-5865

9-30-77  
 ✓ 9-12-78  
 ✓ 11-8-78  
 1/79

# DRILLING MUD AND ADDITIVES - INVOICED COSTS

| ITEM                   | Joy Mfg. Co.                            | LONGYEAR |
|------------------------|---|----------|
| ASBESTOS               | ¢                                       | ¢        |
| B-33                   | 12.91 est.                              | ¢ 9.45   |
| BAROID                 |   |          |
| CALCIUM CHLORIDE       |   |          |
| CAL SEAL               | 32.83 ✓                                 | 21.16    |
| CAUSTIC SODA           | <del>36.17</del> ✓ <sup>5/8</sup> 38.98 |          |
| CC-16                  | <del>27.17</del> ✓ <sup>5/8</sup> 30.19 | 19.07    |
| CELLEX (H.V.)          |   |          |
| CELLEX (REG.)          | 191.92 ✓                                |          |
| CEMENT (ALUMINITE)     | 30.00 est.                              |          |
| CEMENT (PORTLAND)      | 4.50 ✓                                  | 3.45     |
| CMC                    |   | 132.97   |
| CON DET (5 GAL)        | <del>55.91</del> 65.63                  |          |
| D-D (5 GAL)            |   | 44.47    |
| DEXTRID                | <del>72.11</del> ✓ <sup>5/8</sup> 79.04 | 53.94    |
| DIESEL                 | 0.411                                   | 0.416    |
| DRISCOSE               | 166.57                                  |          |
| FIBERTEX               |   |          |
| FLOSAL                 | 31.20 ✓                                 | 20.48    |
| FONDU                  |   | 19.29    |
| HY-SEAL                | 21.62                                   | 14.22    |
| IMPERMEX               |   | 24.42    |
| KWIK-SEAL              | 30.66 ✓                                 | 20.70    |
| KWIK-THIK              |   | 4.75     |
| LIME                   |   |          |
| LOLOSS                 | 169.34 est.                             | 112.14   |
| MARFAX #2 (5 GAL)      |   | 26.95    |
| MUD GEL                | 4.00 ✓                                  |          |
| MUD SEAL (DICK'S)      | <del>21.77</del> 23.04 <sup>2/1</sup>   | 15.03    |
| MY-LO-GEL              |   | 24.04    |
| PARAFORMALDEHYDE       |   | 60.82    |
| PERLADOW (Ca CHLORIDE) |   | 21.59    |
| PLASTER (CASTING)      | 10.11 ✓                                 |          |
| POLY-SAL               | 62.48 ✓                                 | 50.00    |
| POTASH (#100)          |   | 18.63    |
| POTASH (#50)           |   | 11.10    |
| Q-BROXIN               |   |          |



DRILLING MUD AND ADDITIVES - INVOICED COSTS (CON'T)

| <u>ITEM</u>                      | <u>Joy Mfg. Co.</u>                     | <u>LONGYEAR</u> |
|----------------------------------|---|-----------------|
| QUIK FOAM                        | \$                                      | \$              |
| QUIK MUD                         |   |                 |
| QUIK TROL                        |   |                 |
| SALT (#50)                       |   | 9.32            |
| SKOT-FREE                        |   | 8.72            |
| SODA ASH (#100)                  | 28.49 ✓                                 |                 |
| SOLUBLE OIL (GAL) { BBL (55 gal) | (132.00) ✓<br>2.40 ✓                    |                 |
| SPERSENE                         |   | 28.14           |
| SURELO B-33 (5 GALS.)            |   | 47.25           |
| TANNEX                           |   |                 |
| TORQ TRIM (5 GALS)               | <del>73.00</del> <sup>5/8</sup> 85.71   |                 |
| WALNUT FLOUR                     | <del>30.84</del> ✓ <sup>5/8</sup> 21.24 | 16.34           |
| WOLF                             |   | 59.83           |
| ZEOGEL                           |   |                 |

Cone Boxes 1.50



# JOY MANUFACTURING COMPANY

OLIVER BUILDING  
PITTSBURGH, PENNSYLVANIA 15222

PLEASE REMIT TO  
P. O. BOX 360135M  
PITTSBURGH, PA. 15250

|                      |          |                |      |               |         |
|----------------------|----------|----------------|------|---------------|---------|
| CUSTOMER'S ORDER NO. | DATE     | REQ. NO.       | DATE | AT REC. POINT | B.O.NO. |
| CONTRACT             | 99 69 05 | CODE 03 02 209 | DATE | AT SHIP POINT |         |

12-11-78  
APW

02250

SOLD TO

Asarco Inc.  
P. O. Box 5747  
Tucson, AZ 85703  
Attn: Mr. N. P. Whaley

TERMS NET 30 DAYS  
NO CASH DISCOUNT

INVOICE NO. 05117308

INVOICE DATE 12/1/78

SHIPPED TO

Superior, AZ

PLEASE REMIT TO  
P. O. BOX 360135M  
PITTSBURGH, PA. 15250

DATE SHIPPED

SHIPPED VIA

P. O. ADDRESS

MARKS

REQUESTED ROUTING

SHIPPED FROM

Michigan City

| ORIGINAL QUANTITY ORDERED | PART NUMBER                     | DESCRIPTION  | CODE      | UNIT PRICE        | QUANTITY BACK ORDERED | QUANTITY SHIPPED | AMOUNT            |
|---------------------------|---------------------------------|--|-----------|-------------------|-----------------------|------------------|-------------------|
|                           |                                 | To 702.' core drilling at Superior, AZ for period ending Nov. 25, 1978 as per agreement. |           |                   |                       |                  |                   |
|                           | <u>PROSPECT NO.</u>             | <u>FROM</u>  | <u>TO</u> | <u>TOTAL FEET</u> | <u>UNIT COST</u>      |                  | <u>TOTAL COST</u> |
|                           | All                             | 1640.  | 2000.     | 360.              | 15.20                 |                  | 5,472.00          |
|                           |                                 | 2000.  | 2342.     | 342.              | 16.20                 |                  | 5,540.40          |
|                           | <u>MUD &amp; ADDITIVES USED</u> |  |           |                   |                       |                  | 11,012.40         |
|                           | 133                             | 50# bags mud @ \$4.00  |           |                   |                       |                  | 532.00            |
|                           | 1                               | 5 gal. can Con Det   |           |                   |                       |                  | 65.63             |
|                           | 5                               | 50# bags Cellex @ \$191.92   |           |                   |                       |                  | 959.60            |
|                           | 1                               | 40# bag Dicks Mud Seal   |           |                   |                       |                  | 21.19             |
|                           | 220                             | gal. soluble oil @ \$2.40/gal.   |           |                   |                       |                  | 528.00            |
|                           | <u>CORE BOXES USED</u>          |  |           |                   |                       |                  |                   |
|                           |                                 | 79 boxes @ \$1.50  |           | 118.50            |                       |                  |                   |
|                           |                                 | Less previous overcharge for 70 boxes  |           | 105.00            |                       |                  | 13.50             |
|                           | <u>WATER TRUCK</u>              |  |           |                   |                       |                  |                   |
|                           |                                 | Rental - One month   |           |                   |                       |                  | 360.00            |
|                           |                                 | 51 miles @ \$.40/mile  |           |                   |                       |                  | 20.40             |
|                           |                                 |  |           |                   |                       |                  | \$13,512.72       |

OK for payment  
Superior East EA-0010  
James W. Hill

09007

F. O. B. SHIPPING POINT UNLESS OTHERWISE SPECIFIED

NO RETURNS ALLOWED UNLESS AUTHORIZED BY THIS OFFICE

GOODS COVERED BY THIS INVOICE WERE PRODUCED IN COMPLIANCE WITH THE REQUIREMENTS OF THE FAIR LABOR STANDARDS ACT OF 1938, AS AMENDED, INCLUDING SECTION 12(A).

**ORIGINAL**



# JOY MANUFACTURING COMPANY

OLIVER BUILDING  
PITTSBURGH, PENNSYLVANIA 15222

PLEASE REMIT TO  
P. O. BOX 360135M  
PITTSBURGH, PA. 15250

|                      |                    |          |      |               |         |
|----------------------|--------------------|----------|------|---------------|---------|
| CUSTOMER'S ORDER NO. | DATE               | REQ. NO. | DATE | AT REC. POINT | B.O.NO. |
| CONTRACT             | 99 69 05 03 02 209 | CODE     | DATE | AT SHIP POINT |         |

12-11-78  
NPW

02250

SOLD TO

Asarco Inc.  
P. O. Box 5747  
Tucson, AZ 85703  
Attn: Mr. N. P. Whaley

TERMS NET 30 DAYS  
NO CASH DISCOUNT

INVOICE NO. 05117308

INVOICE DATE 12/1/78

SHIPPED TO

Superior, AZ

PLEASE REMIT TO  
P. O. BOX 360135M  
PITTSBURGH, PA. 15250

DATE SHIPPED

SHIPPED VIA

P. O. ADDRESS

MARKS

REQUESTED ROUTING

SHIPPED FROM

Michigan City

| ORIGINAL QUANTITY ORDERED | PART NUMBER  | DESCRIPTION                           | CODE      | UNIT PRICE        | QUANTITY BACK ORDERED | QUANTITY SHIPPED  | AMOUNT             |
|---------------------------|--|---------------------------------------|-----------|-------------------|-----------------------|-------------------|--------------------|
|                           | To 702.1 core drilling at Superior, AZ for period ending Nov. 25, 1978 as per agreement. |                                       |           |                   |                       |                   |                    |
|                           | <u>PROSPECT NO.</u>  | <u>FROM</u>                           | <u>TO</u> | <u>TOTAL FEET</u> | <u>UNIT COST</u>      | <u>TOTAL COST</u> |                    |
|                           | All  | 1640.                                 | 2000.     | 360.              | 15.20                 | 5,472.00          |                    |
|                           |  | 2000.                                 | 2342.     | 342.              | 16.20                 | 5,540.40          |                    |
|                           | <u>MUD &amp; ADDITIVES USED</u>  |                                       |           |                   |                       |                   | 11,012.40          |
|                           | 133  | 50# bags mud @ \$4.00                 |           |                   |                       | 532.00            |                    |
|                           | 1  | 5 gal. can Con Det                    |           |                   |                       | 65.63             |                    |
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|                           | <u>CORE BOXES USED</u>   |                                       |           |                   |                       |                   |                    |
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|                           | <u>WATER TRUCK</u>   |                                       |           |                   |                       |                   |                    |
|                           |  | Rental - One month                    |           |                   |                       |                   | 360.00             |
|                           |  | 51 miles @ \$.40/mile                 |           |                   |                       |                   | 20.40              |
|                           |  |                                       |           |                   |                       |                   | <u>\$13,512.72</u> |

OK for payment  
Superior East EA-20010  
James W. Hill

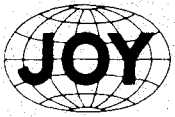
09007

F. O. B. SHIPPING POINT UNLESS OTHERWISE SPECIFIED

NO RETURNS ALLOWED UNLESS AUTHORIZED BY THIS OFFICE

GOODS COVERED BY THIS INVOICE WERE PRODUCED IN COMPLIANCE WITH THE REQUIREMENTS OF THE FAIR LABOR STANDARDS ACT OF 1938, AS AMENDED, INCLUDING SECTION 12(A).

**ORIGINAL**



# JOY MANUFACTURING COMPANY

OLIVER BUILDING  
PITTSBURGH, PENNSYLVANIA 15222

PLEASE REMIT TO  
P. O. BOX 360135M  
PITTSBURGH, PA. 15250

|                      |             |          |               |      |               |         |
|----------------------|-------------|----------|---------------|------|---------------|---------|
| CUSTOMER'S ORDER NO. | DATE        | REQ. NO. | OUR ORD'R NO. | DATE | AT REC. POINT | B.O.NO. |
| CONTRACT             | 99 69 05 03 | 02 209   |               | DATE | AT SHIP POINT |         |

02250

SOLD TO

Asarco Inc.  
P. O. Box 5747  
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Attn: Mr. N. P. Whaley

TERMS NET 30 DAYS  
NO CASH DISCOUNT

INVOICE NO. 05117308

INVOICE DATE 12/1/78

SHIPPED TO

Superior, AZ

PLEASE REMIT TO  
P. O. BOX 360135M  
PITTSBURGH, PA. 15250

DATE SHIPPED

SHIPPED VIA

P. O. ADDRESS

MARKS

REQUESTED ROUTING

SHIPPED FROM Michigan City

| ORIGINAL QUANTITY ORDERED | PART NUMBER                     | DESCRIPTION  | CODE                           | UNIT PRICE        | QUANTITY BACK ORDERED | QUANTITY SHIPPED  | AMOUNT      |  |
|---------------------------|---------------------------------|--|--------------------------------|-------------------|-----------------------|-------------------|-------------|--|
|                           |                                 | To 702.1 core drilling at Superior, AZ for period ending Nov. 25, 1978 as per agreement. |                                |                   |                       |                   |             |  |
|                           | <u>PROSPECT NO.</u>             | <u>FROM</u>  | <u>TO</u>                      | <u>TOTAL FEET</u> | <u>UNIT COST</u>      | <u>TOTAL COST</u> |             |  |
|                           | A11                             | NC   | 1640.                          | 2000.             | 360.                  | 15.20             | 5,472.00    |  |
|                           |                                 |  | 2000.                          | 2342.             | 342.                  | 16.20             | 5,540.40    |  |
|                           | <u>MUD &amp; ADDITIVES USED</u> |  |                                |                   |                       |                   | 11,012.40   |  |
|                           |                                 | 133  | 50# bags mud @ \$4.00          |                   |                       |                   | 532.00      |  |
|                           |                                 | 1  | 5 gal. can Con Det             |                   |                       |                   | 65.63       |  |
|                           |                                 | 5  | 50# bags Cellex @ \$191.92     |                   |                       |                   | 959.60      |  |
|                           |                                 | 1  | 40# bag Dicks Mud Seal         |                   |                       |                   | 21.19       |  |
|                           |                                 | 220  | gal. soluble oil @ \$2.40/gal. |                   |                       |                   | 528.00      |  |
|                           | <u>CORE BOXES USED</u>          |  |                                |                   |                       |                   |             |  |
|                           |                                 | 79 boxes @ \$1.50  |                                | 118.50            |                       |                   |             |  |
|                           |                                 | Less previous overcharge for 70 boxes  |                                | 105.00            |                       |                   | 13.50       |  |
|                           | <u>WATER TRUCK</u>              |  |                                |                   |                       |                   |             |  |
|                           |                                 | Rental - One month   |                                |                   |                       |                   | 360.00      |  |
|                           |                                 | 51 miles @ \$.40/mile  |                                |                   |                       |                   | 20.40       |  |
|                           |                                 |  |                                |                   |                       |                   | \$13,512.72 |  |

09007

F. O. B. SHIPPING POINT UNLESS OTHERWISE SPECIFIED

NO RETURNS ALLOWED UNLESS AUTHORIZED BY THIS OFFICE

GOODS COVERED BY THIS INVOICE WERE PRODUCED IN COMPLIANCE WITH THE REQUIREMENTS OF THE FAIR LABOR STANDARDS ACT OF 1938, AS AMENDED, INCLUDING SECTION 12(A).

**DUPLICATE**

0010-15

EXPLORATION AUTHORIZATION NO. 0010-15  
 SUPERIOR EAST PROJECT  
 PINAL COUNTY, ARIZONA

TUCSON OFFICE

November - 1978

| Account No. | Item                                   | This Month         | This Year          | Total to Date |
|-------------|--|--------------------|--------------------|---------------|
| 506-950     | Rental Payments - Other                | \$                 | \$                 | \$            |
| 521-100     | Surface Drilling - Salaries            | 106 00             | 361 00             |               |
| 521-200     | - Add. Labor                           | 16 47              | 52 64              |               |
| 521-400     | - Supplies                             |                    |                    |               |
| 521-600     | - Traveling                            |                    |                    |               |
| 521-750     | - Services                             | 13480 15           | 38651 59           |               |
| 521-780     | - Fuel, Power, Water                   |                    | 69 44              |               |
| 521-801     | - Sales Tax                            |                    |                    |               |
| 530-100     | Geology - Salaries                     | 745 00             | 1241 00            |               |
| 530-200     | - Add. Labor                           | 121 47             | 191 19             |               |
| 530-600     | - Traveling                            | 45 55              | 119 05             |               |
| 540-150     | Sampling, Assaying, Lab. - Wages       |                    | 217 32             |               |
| 540-200     | - Add. Labor                           |                    | 13 15              |               |
| 540-400     | - Supplies                             |                    |                    |               |
| 540-600     | - Traveling                            |                    |                    |               |
| 540-750     | - Services                             |                    | 5 00               |               |
| 540-801     | - Sales Tax                            |                    |                    |               |
| 570-100     | Engineering - Salaries                 |                    |                    |               |
| 570-200     | - Add. Labor                           |                    |                    |               |
| 570-750     | - Services                             |                    |                    |               |
| 580-100     | Temporary Construction - Salaries      |                    |                    |               |
| 580-200     | - Add. Labor                           |                    |                    |               |
| 580-400     | - Supplies                             |                    |                    |               |
| 580-750     | - Services                             |                    | 1279 49            |               |
| 580-801     | - Sales Tax                            |                    |                    |               |
| 590-750     | Construction - Services                |                    |                    |               |
| 590-801     | - Sales Tax                            |                    |                    |               |
| 610-400     | Field Administration - Supplies        |                    |                    |               |
| 610-500     | - Communications                       | 16 31              | 50 31              |               |
| 610-750     | - Services                             |                    |                    |               |
| 610-780     | - Fuel, Power, Water                   | 13 89              | 39 45              |               |
| 610-801     | - Sales Tax                            |                    |                    |               |
| 620-100     | General Administration - Salaries      | 417 00             | 523 00             |               |
| 620-150     | - Wages                                |                    |                    |               |
| 620-200     | - Add. Labor                           | 86 75              | 102 00             |               |
| 620-400     | - Supplies                             |                    | 2 65               |               |
| 620-750     | - Services                             |                    |                    |               |
| 620-801     | - Sales Tax                            |                    | 15                 |               |
| 620-950     | - Other                                | 4 00               | 4 00               |               |
| 641-400     | Distributable Accounts Auto - Supplies | 233 30             | 456 87             |               |
| 641-800     | - Sales Tax                            | 1 77               | 3 29               |               |
|             |  | <u>\$ 15287.66</u> | <u>\$ 43382.59</u> |               |

Authorized  
 Expended

\$ 146000.00  
43382.59

Balance Unexpended

A-11

\$ 102617.41

Orig:

HOLE A-11 PROJECT Superior East EA-0010 26th Nov. THRU 25th Dec., 19 78 CONTRACTOR Jay

DESCRIPTION: 2342NC Nov Dec. 2876 NX = 534

| FEET DRILLED        | 26  | 27 | 28 | 29 | 30 | 31 | 1  | 2   | 3  | 4  | 5 | 6 | 7  | 8  | 9   | 10 | 11 | 12 | 13 | 14 | 15 | 16  | 17 | 18 | 19 | 20 | 21 | 22  | 23  | 24   | 25  | TOTAL | PRICE    | AMOUNT |          |
|---------------------|-----|----|----|----|----|----|----|-----|----|----|---|---|----|----|-----|----|----|----|----|----|----|-----|----|----|----|----|----|-----|-----|------|-----|-------|----------|--------|----------|
| <u>2342-2500NC</u>  | Sun | 38 | 60 | 49 | 48 |    | -  | -   |    |    |   |   |    |    |     |    |    |    |    |    |    |     |    |    |    |    |    |     |     |      |     |       | 158'     | 16.20  | 2,559.60 |
| <u>2500-2580 NC</u> |     |    |    |    | 48 |    | 32 | -   |    |    |   |   |    |    |     |    |    |    |    |    |    |     |    |    |    |    |    |     |     |      |     |       | 80'      | 17.40  | 1,392.00 |
| <u>2580-2876 NX</u> |     |    |    |    |    |    | -  | Sun | 37 | 70 | - | - | 10 | 10 | Sun | 33 | 0  | 12 | 0  | 17 | 0  | Sun | 0  | 20 | 8  | 31 | 38 | Sat | Sun | Xmas | 294 | 15.90 | 4,701.60 |        |          |
|                     |     |    |    |    |    |    |    |     |    |    |   |   |    |    |     |    |    |    |    |    |    |     |    |    |    |    |    |     |     |      |     |       | 534      |        |          |

SUB TOTAL 8,458.00

| CEMENTING<br>CONDITIONING<br>CASING | 26 | 27 | 28 | 29 | 30 | 31 | 1  | 2   | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | TOTAL | PRICE | AMOUNT           |        |
|-------------------------------------|----|----|----|----|----|----|----|-----|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------|-------|------------------|--------|
| <u>2580 NX (hrs)</u>                |    |    |    |    |    |    | 10 | 20' | - | - |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       | 12    | 30 <sup>00</sup> | 360.00 |

5 hrs + 20 min  
Flowing liquid

5/8" hole  
2 1/2 hrs  
8/8" hole  
2 1/2 hrs  
2 1/2 hrs  
2 1/2 hrs

SUB TOTAL 360.00

| MATERIALS                | 26 | 27 | 28 | 29 | 30 | 31 | 1  | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | TOTAL    | PRICE    | AMOUNT |
|--------------------------|----|----|----|----|----|----|----|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|----------|--------|
| <u>Mud</u>               | -  | 5  | 11 | 10 | 14 |    | 12 | - | - | 1 | 4 | - | - | 1 | 1 | -  | 5  | -  | 2  | -  | -  | -  | -  | -  | 2  | 2  | 2  | 2  |    |    | 74 | 4.00     | 2,960.00 |        |
| <u>Soluble Oil (BSP)</u> |    |    | 1  | -  | 1  |    |    |   |   |   | - |   |   |   |   |    | -  |    |    |    |    |    |    |    |    | 1  |    |    |    |    |    | 3 @ 132' | 3.00     | 396.00 |
| <u>Con-dit (5 gal)</u>   |    |    | 1  | -  |    |    |    |   |   |   | - |   |   |   |   |    | -  |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 1        | 65.63    | 65.63  |
| <u>Collar</u>            |    |    |    | 1  |    |    |    |   |   | 1 |   |   |   |   |   |    | -  |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 2        | 191.92   | 383.84 |
| <u>Basic Seal</u>        |    |    |    |    |    |    |    |   |   |   |   |   |   |   |   | 1  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 1        | 30.66    | 30.66  |

SUB TOTAL 1,172.13

| TRUCK RENTAL<br>MILEAGE<br>LOADS OF WATER | 26 | 27 | 28 | 29 | 30 | 31 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | TOTAL | PRICE  | AMOUNT |
|---|----|----|----|----|----|----|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------|--------|--------|
|   |    |    |    |    |    |    | 7 | - | - | - | 5 | - | - | 1 | 1 | -  | 2  | -  | 3  | -  | -  | 2  | -  | -  | 1  | -  | 1  | 1  | -  | -  | -  | 60    | grates |        |

from pond

SUB TOTAL 372.00

| MISC.                | 26 | 27 | 28 | 29 | 30 | 31 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | TOTAL | PRICE | AMOUNT |       |
|----------------------|----|----|----|----|----|----|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------|-------|--------|-------|
| <u>NC Core Boxes</u> |    |    |    |    |    |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       | 60    | 1.50   | 90.00 |

SUB TOTAL 90.00

Call by Water Co. Mr. Wallbridge if water pipe used.

TOTAL 10,652.13

EXPLORATION AUTHORIZATION NO. 0010-15  
 SUPERIOR EAST PROJECT  
 PINAL COUNTY, ARIZONA

TUCSON OFFICE

DECEMBER - 1978

| Account No.        | Item                                   | This Month         | This Year          | Total to Date       |
|--------------------|--|--------------------|--------------------|---------------------|
| 521-100            | Surface Drilling - Salaries            | \$ 218.00          | \$ 579.00          | \$ 579.00           |
| 521-200            | - Add. Labor                           | 35.01              | 87.65              | 87.65               |
| 521-600            | - Traveling                            | 12.00              | 12.00              | 12.00               |
| 521-750            | - Services                             | 10,073.66          | 48,725.25          | 48,725.25           |
| 521-780            | - Fuel, Power, Water                   | -                  | 69.44              | 69.44               |
| 530-100            | Geology - Salaries                     | 65.00              | 1,306.00           | 1,306.00            |
| 530-200            | - Add. Labor                           | 10.00              | 201.19             | 201.19              |
| 530-600            | - Traveling                            | 3.40               | 122.45             | 122.45              |
| 540-100            | Sampling, Assaying, Lab. - Salaries    | 203.00             | 203.00             | 203.00              |
| 540-150            | - Wages                                | -                  | 217.32             | 217.32              |
| 540-200            | - Add. Labor                           | 36.52              | 49.67              | 49.67               |
| 540-750            | - Services                             | -                  | 5.00               | 5.00                |
| 580-750            | Temporary Construction - Services      | -                  | 1,279.49           | 1,279.49            |
| 610-500            | Field Administration - Communications  | 17.99              | 68.30              | 68.30               |
| 610-780            | - Fuel, Power, Water                   | 11.72              | 51.17              | 51.17               |
| 620-100            | General Administration - Salaries      | 134.00             | 657.00             | 657.00              |
| 620-200            | - Add. Labor                           | 30.12              | 132.12             | 132.12              |
| 620-400            | - Supplies                             | 6.64               | 9.29               | 9.29                |
| 620-801            | - Sales Tax                            | .40                | .55                | .55                 |
| 620-950            | - Other                                | -                  | 4.00               | 4.00                |
| 641-400            | Distributable Accounts Auto - Supplies | 108.71             | 565.58             | 565.58              |
| 641-800            | - Sales Tax                            | -                  | 3.29               | 3.29                |
|                    |  | <u>\$10,966.17</u> | <u>\$54,348.76</u> | <u>\$ 54,348.76</u> |
| Authorized         |  |                    |                    | \$146,000.00        |
| Expended           |  |                    |                    | <u>54,348.76</u>    |
| Balance Unexpended |  |                    |                    | <u>\$ 91,651.24</u> |

Orig: TCOsborne  
 cc: FRM, NV, CWC, TES, FTG, File - 2

A-11

**TAB**

1979





HOLE A-11 OBJECT Superior East 26th Dec. 1979 HRU 25th Jan CONTRACTOR Jay

DESCRIPTION: 2876 NX Dec. January 3606 NX

|                     | 26 | 27 | 28 | 29 | 30               | 31  | 1   | 2  | 3  | 4  | 5  | 6   | 7   | 8  | 9  | 10 | 11 | 12 | 13 | 14  | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22  | 23 | 24 | 25 | TOTAL | PRICE | AMOUNT |          |          |
|---------------------|----|----|----|----|------------------|-----|-----|----|----|----|----|-----|-----|----|----|----|----|----|----|-----|----|----|----|----|----|----|----|-----|----|----|----|-------|-------|--------|----------|----------|
| FEET DRILLED        |    |    |    |    |                  |     |     |    |    |    |    |     |     |    |    |    |    |    |    |     |    |    |    |    |    |    |    |     |    |    |    |       |       |        |          |          |
| <u>2876-3000 NX</u> | 0  | 14 | 42 | 39 | <del>29</del> 29 | Sat | Sun |    |    |    |    |     |     |    |    |    |    |    |    |     |    |    |    |    |    |    |    |     |    |    |    |       |       | 124    | 15.90    | 1,971.60 |
| <u>3000-3500 NX</u> |    |    |    |    | 11               | -   | -   | 37 | 39 | 10 | 20 | Sat | Sun | 19 | 30 | 30 | 46 | 10 | 49 | Sun | 49 | 43 | 0  | 32 | 62 | 13 | 20 | Sun |    |    |    |       | 500   | 17.70  | 8,850.00 |          |
| <u>3500- NX</u>     |    |    |    |    |                  |     |     |    |    |    |    |     |     |    |    |    |    |    |    |     |    |    |    |    |    | 7  | -  | 37  | 22 | 32 | 8  |       |       | 106    | 20.10    | 2,130.60 |

No Reports - Rain

SUB TOTAL 12,952.20

| CEMENTING | CONDITIONING | CASING |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-----------|--------------|--------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|           |              |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

SUB TOTAL

| MATERIALS             | 1 | 1 | 2 | 3 | 1 | - | - | 3 | 3 | 2 | - | - | - | 2 | 2 | 2 | 2 | 1 | 2 | X | 2 | 2 | - | 4 | 1 | 1 | - | 1 | 4 | 2 | 3 | 49 | 4.00 | 196.00 |        |        |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|------|--------|--------|--------|
| <u>Mud</u>            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |      |        |        |        |
| <u>Colley</u>         |   |   | 1 | - |   |   |   |   |   |   |   |   |   | - |   | - | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |      | 3      | 191.92 | 575.76 |
| <u>Kwik Seal</u>      |   |   |   | 1 |   |   |   |   |   |   |   |   |   | - |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |      | 3      | 30.66  | 91.98  |
| <u>Dicks Mud Seal</u> |   |   |   |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |      | 2      | 21.19  | 42.38  |

SUB TOTAL 47

SUB TOTAL 906.12

| TRUCK RENTAL | MILEAGE | LOADS OF WATER (pond) |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |    |      |       |
|--------------|---------|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|--|--|----|------|-------|
|              |         |                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |    |      |       |
|              |         |                       | 1 | 1 | 2 | 3 | 2 | - | - | 2 | 3 | 1 | 1 | - | - | 2 | 1 | 1 | 2 | 1 | 2 | X | 2 | 1 | - | 4 | 1 | 1 | - | 1 | 2 |  |  |  |  | 33 | 0.40 | 13.20 |

SUB TOTAL 373.20

| MISC. Core Boxes |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |      |        |
|------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|------|--------|
|                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |      |        |
|                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 83 | 1.50 | 124.50 |

SUB TOTAL 124.50

TOTAL \$14,356.02

MONTHLY COST SUMMARY

Due to 25th January, 1979

Superior East EA-0010

Project, Pinal  
(County)

Arizona  
(State)

**A. DIRECT DRILLING (Acct. 521-)**

**CONTRACTORS' CHARGES**

Invoiced during month covering current month's work

|   |                    |
|---|--------------------|
| <u>Contractors' Services</u> (Joy Drilling) |                    |
| <u>December Estimate</u>                    | <u>\$10,170.78</u> |
| <u>Dec. Invoice</u>                         | <u>10,652.13</u>   |
| }   |                    |
| _____                                       |                    |
| _____                                       |                    |

Statement Amt.

+ 481.35

+ 481.35

Estimated balance of contractors' charges covering work through end of current month

|   |                    |
|---|--------------------|
| <u>Contractors' Services</u> (Joy Drilling) |                    |
| <u>January Estimate</u>                     | <u>\$13,857.22</u> |
| _____                                       |                    |
| _____                                       |                    |
| _____                                       |                    |

Estimated Cost

13,857.22

13,857.22

Supplies and Freight

Field Trailer Rental

Water Purchases (Drilling)

**B. SITE PREPARATION (Acct. 580-)**

**CONTRACTORS' CHARGES**

Invoiced during month covering current month's work

*Site enlargement & road maintenance*

|  |  |
|--|--|
| <u>Contractors' Services</u>                           |  |
| <u>Buy and Cost Invoice 1915 &amp; 1918 (12/24/78)</u> |  |
| <u>\$368.00 and 1,841.10</u>                           |  |
| }  |  |
| _____  |  |
| _____  |  |

Statement Amt.

2,209.10

2,209.10

Estimated balance of contractors' charges covering work through end of current month

Contractors' Services

Estimated Cost

Supplies and Freight

\$16,547.67

(Page two not applicable)



# JOY MANUFACTURING COMPANY

229

OLIVER BUILDING  
PITTSBURGH, PENNSYLVANIA 15222

PLEASE REMIT TO  
P. O. BOX 360135M  
PITTSBURGH, PA. 15250

|                   |                    |               |      |               |          |
|-------------------|--------------------|---------------|------|---------------|----------|
| BUYER'S ORDER NO. | DATE               | REQ. NO.      | DATE | AT REC. POINT | B.O. NO. |
| CONTRACT          | CODE               | OUR ORDER NO. | DATE | AT SHIP POINT |          |
|                   | 99 69 05 03 02 209 |               |      |               |          |

1-10-79  
APW

02250 SOLD TO Asarco Incorporated  
P. O. Box 5747  
Tucson, AZ 85703

Attn: Mr. N. P. Whaley → JDS

TERMS NET 30 DAYS  
NO CASH DISCOUNT

INVOICE NO. 05117338

INVOICE DATE 1/5/79

SHIPPED TO Superior, AZ

PLEASE REMIT TO  
P. O. BOX 360135M  
PITTSBURGH, PA. 15250

DATE SHIPPED

SHIPPED VIA

P. O. ADDRESS

MARKS

REQUESTED ROUTING

SHIPPED FROM Michigan City

| ORIGINAL QUANTITY ORDERED | PART NUMBER                     | DESCRIPTION   | CODE                           | UNIT PRICE        | QUANTITY BACK ORDERED | QUANTITY SHIPPED  | AMOUNT |  |
|---------------------------|---------------------------------|---|--------------------------------|-------------------|-----------------------|-------------------|--------|--|
|                           |                                 | To 534.1 core drilling at Superior, AZ. for period ending Dec. 25, 1978 as per agreement. |                                |                   |                       |                   |        |  |
|                           | <u>PROSPECT NO.</u>             | <u>FROM</u>   | <u>TO</u>                      | <u>TOTAL FEET</u> | <u>UNIT COST</u>      | <u>TOTAL COST</u> |        |  |
|                           | A-11                            | NC 2342.  | 2500.                          | 158.              | 16.20                 | 2,559.60          |        |  |
|                           |                                 | NC 2500.  | 2580.                          | 80.               | 17.40                 | 1,392.00          |        |  |
|                           |                                 | NX 2580.  | 2876.                          | 296.              | 15.90                 | 4,706.40          |        |  |
|                           | <u>SET &amp; PULL CASING</u>    |   |                                |                   |                       | 8,658.00          |        |  |
|                           | A-11                            | December 2  | 12 hours @                     | \$30.00/hour      |                       | 360.00            |        |  |
|                           | <u>MUD &amp; ADDITIVES USED</u> |   |                                |                   |                       |                   |        |  |
|                           | A-11                            | 74'   | 50# bags Drilling mud @ \$4.00 |                   |                       | 296.00            |        |  |
|                           |                                 | 2'  | 50# bags Cellex @ \$191.92     |                   |                       | 383.84            |        |  |
|                           |                                 | 1'  | 5 gal. can Con Det @ \$65.63   |                   |                       | 65.63             |        |  |
|                           |                                 | 1'  | 40# bag Kwikseal @ \$30.66     |                   |                       | 30.66             |        |  |
|                           |                                 | 165'  | gals. soluble oil @ \$2.40     |                   |                       | 396.00            |        |  |
|                           | <u>CORE BOXES USED</u>          |   |                                |                   |                       |                   |        |  |
|                           |                                 | 60'   | cardboard core boxes @ \$1.50  |                   |                       | 90.00             |        |  |

09007

F. O. B. SHIPPING POINT UNLESS OTHERWISE SPECIFIED  
NO RETURNS ALLOWED UNLESS AUTHORIZED BY THIS OFFICE

ORIGINAL

GOODS COVERED BY THIS INVOICE WERE PRODUCED IN COMPLIANCE WITH THE REQUIREMENTS OF THE FAIR LABOR STANDARDS ACT OF 1938, AS AMENDED, INCLUDING SECTION 12(A).

# JOY MANUFACTURING COMPANY

PAGE NO. 2

**SOLD**

Asarco Incorporated

OUR ORDER NO.

AT REC. POINT

AT SHIP POINT

B.O. NO.

INVOICE NO.

05117338

| ORIGINAL QUANTITY ORDERED | UNIT | PART NUMBER | DESCRIPTION   | CODE | UNIT PRICE | QUANTITY BACK ORDERED | QUANTITY SHIPPED | AMOUNT  |
|---------------------------|------|-------------|---|------|------------|-----------------------|------------------|---|
|                           |      |             | <p><u>WATER TRUCK RENTAL</u></p> <p>November 26 thru December 25</p> <p>1 truck @ \$360.00/month</p> <p>30 miles @ \$.40/mile</p> |      |            |                       |                  | <p>360.00</p> <p>12.00</p> <hr/> <p>\$10,652.13</p> |

APPROVED FOR PAYMENT

By: *J. [Signature]*  
(Signature)

APPROVED FOR PAYMENT

By: \_\_\_\_\_  
(Signature)

Verbal Odell Power

A-11

January:

Drilling: NX Sig 2876-3406 = 730 feet.

2876 - 3000 = 124 ft @ \$15.90 = 1,971.60

3000 - 3500 = 500 ft @ 18.10 est = 8,550.00 est

3500 - 3606 = 106 ft @ 18.30 est = 1,939.80 est

\$12,461.40 est

Supplies & Material

Mud 47 sacks @ \$4.00 = 188.00

Cells 3 sacks @ \$191.92 = 575.76

Kevek Seal 3 sacks @ 30.66 = 91.98

Dick's Mud Seal 2 sacks @ 21.19 = 42.38

\$ 898.12

Core Boxes 83 @ \$1.50 = \$124.50

Truck rental 360<sup>00</sup>/month = 360.00

Truck miling 33 @ \$0.40 = 13.20

\$ 373.20

Total Estimate \$13,857.22

# BRYANT CONSTRUCTION CO.

GENERAL CONTRACTORS — LIC. NO. A-43332  
 843 SPRAY STREET  
 SUPERIOR, ARIZONA 85273  
 PHONE 689-2627

1915

DATE  
 Dec. 26, 1978

CUSTOMER'S ORDER

T-505-8  
 SALESMAN

TERMS

F.O.B.

SHIPPED VIA

Sold To

ASARCO Incorporated

Box 5747

Tucson, Arizona 85703

Shipped To

Superior East

Widen Drill Site to Make More Space for Water Truck

|         |                                     |       |          |
|---------|-------------------------------------|-------|----------|
| 12-4-78 | 2½ Yard Hough Loader @ \$35.00 Hour | 8 hrs | \$ 28000 |
|         | One Labor @ \$10.00 Hour            | 8 hrs | 8000     |
|         | 4% State Tax Less Labor \$160.00    |       | 800      |
|         | Total                               |       | \$ 36800 |

PAID FOR PAYMENT

Rediform

7S 737  
 Poly Pak (50 sets) 7P737

INVOICE



EXPLORATION AUTHORIZATION NO. 0010-15  
 SUPERIOR EAST PROJECT  
 PINAL COUNTY, ARIZONA

TUCSON OFFICE

January - 1979

| Account No.        | Item                                   | This Month         | This Year          | Total to Date      |
|--------------------|--|--------------------|--------------------|--------------------|
| 521-100            | Surface Drilling - Salaries            | \$                 | \$                 | \$ 579.00          |
| 521-200            | - Add. Labor                           |                    |                    | 87.65              |
| 521-600            | - Traveling                            | 12.90              | 12.90              | 24.90              |
| 521-750            | - Services                             | 1,649.107          | 1,649.107          | 6,5216.32          |
| 521-780            | - Fuel, Power, Water                   |                    |                    | 69.44              |
| 530-100            | Geology - Salaries                     | 32.800             | 32.800             | 1,634.00           |
| 530-200            | - Add. Labor                           | 81.81              | 81.81              | 283.00             |
| 530-600            | - Traveling                            |                    |                    | 122.45             |
| 540-100            | Sampling, Assaying, Lab. - Salaries    | 63.00              | 63.00              | 266.00             |
| 540-150            | - Wages                                |                    |                    | 217.32             |
| 540-200            | - Add. Labor                           | 15.58              | 15.58              | 65.25              |
| 540-750            | - Services                             |                    |                    | 5.00               |
| 580-750            | Temporary Construction - Services      |                    |                    | 1 279.49           |
| 610-500            | Field Administration - Communications  | 16.16              | 16.16              | 84.46              |
| 610-780            | - Fuel, Power, Water                   | 11.95              | 11.95              | 63.12              |
| 620-100            | General Administration - Salaries      |                    |                    | 657.00             |
| 620-200            | - Add. Labor                           |                    |                    | 132.12             |
| 620-400            | - Supplies                             | 1.93               | 1.93               | 11.22              |
| 620-801            | - Sales Tax                            | .12                | .12                | .67                |
| 620-950            | - Other                                |                    |                    | 4.00               |
| 641-400            | Distributable Accounts Auto - Supplies | 205.37             | 205.37             | 770.95             |
| 641-800            | - Sales Tax                            | 1.04               | 1.04               | 4.33               |
|                    |  | <u>\$ 17289.38</u> | <u>\$ 17289.38</u> | <u>\$ 71638.14</u> |
| Authorized         |  |                    |                    | \$146 000.00       |
| Expended           |  |                    |                    | <u>71 638.14</u>   |
| Balance Unexpended |  |                    |                    | <u>\$ 74361.86</u> |
| 521-801            | Surface Drilling - Sales Taxes         | 56.60              | 56.60              | 56.60              |
| 610-600            | Field Administration - Traveling       | 3.85               | 3.85               | 3.85               |

Orig: TCOsborne  
 cc: FRM, NV, CWC, TES, FTG, File - 2

A-11





MONTHLY COST SUMMARY

Superior East EA-0010 Project, Pinal (County), Az (State)

A. DIRECT DRILLING (Acct. 521-)

CONTRACTORS' CHARGES

Invoiced during month covering current month's work

| <u>Contractors' Services</u>       | <u>Statement Amt.</u> |
|------------------------------------|-----------------------|
| <u>Jay</u>                         |                       |
| <u>Grandy Estimate \$13,857.22</u> |                       |
| <u>Grandy Invoice 14,356.02</u>    | <u>+ 498.80</u>       |
|                                    |                       |
|                                    |                       |

Estimated balance of contractors' charges covering work through end of current month

| <u>Contractors' Services</u>      | <u>Estimated Cost</u> |
|-----------------------------------|-----------------------|
| <u>Jay 3606' - 4157' = 551 ft</u> | <u>14,016.45</u>      |
|                                   |                       |
|                                   |                       |

Supplies and Freight

Field Trailer Rental

Water Purchases (Drilling)

B. SITE PREPARATION (Acct. 580-)

CONTRACTORS' CHARGES

Invoiced during month covering current month's work

| <u>Contractors' Services</u> | <u>Statement Amt.</u> |
|------------------------------|-----------------------|
|                              |                       |
|                              |                       |

Estimated balance of contractors' charges covering work through end of current month

| <u>Contractors' Services</u>     | <u>Estimated Cost</u> |
|----------------------------------|-----------------------|
| <u>Bryant PO# T-106-9</u>        |                       |
| <u>Comp const. Access Repair</u> | <u>446.16</u>         |
|                                  |                       |

Supplies and Freight

No Second Sheet



# JOY MANUFACTURING COMPANY

OLIVER BUILDING  
PITTSBURGH, PENNSYLVANIA 15222

PLEASE REMIT TO  
P. O. BOX 360135M  
PITTSBURGH, PA. 15250

|                   |      |               |      |               |         |
|-------------------|------|---------------|------|---------------|---------|
| BUYER'S ORDER NO. | DATE | REQ. NO.      | DATE | AT REC. POINT | B.O.NO. |
| CONTRACT          | CODE | OUR ORD'R NO. | DATE | AT SHIP POINT |         |

02250

SOLD TO

Asarco Inc.  
P. O. Box 5747  
Tucson, AZ 85703

Attn: Mr. N. P. Whaley

SHIPPED TO

Superior, AZ

P. O. ADDRESS

MARKS

TERMS NET 30 DAYS  
NO CASH DISCOUNT

INVOICE NO. 52117384

INVOICE DATE 2/5/79

PLEASE REMIT TO  
P. O. BOX 360135M  
PITTSBURGH, PA. 15250

DATE SHIPPED

SHIPPED VIA

*2-9-79  
NPD*

REQUESTED ROUTING

SHIPPED FROM Michigan City

| ORIGINAL QUANTITY ORDERED | PART NUMBER   | DESCRIPTION | CODE                           | UNIT PRICE        | QUANTITY BACK ORDERED | QUANTITY SHIPPED  | AMOUNT             |
|---------------------------|---|-------------|--------------------------------|-------------------|-----------------------|-------------------|--------------------|
|                           | To 730.' core drilling at Superior, AZ for period ending January 25, 1979 as per agreement. |             |                                |                   |                       |                   |                    |
|                           | <u>PROSPECT NO.</u>   | <u>FROM</u> | <u>TO</u>                      | <u>TOTAL FEET</u> | <u>UNIT COST</u>      | <u>TOTAL COST</u> |                    |
|                           | A-11  | NX          | 2876.                          | 3000.             | 124.                  | 15.90             | 1,971.60           |
|                           |   | NX          | 3000.                          | 3500.             | 500.                  | 17.70             | 8,850.00           |
|                           |   | NX          | 3500.                          | 3606.             | 106.                  | 20.10             | 2,130.60           |
|                           |   |             |                                |                   |                       |                   | 12,952.20          |
|                           | <u>MUD &amp; ADDITIVES USED</u>   |             |                                |                   |                       |                   |                    |
|                           | A-11  | 49          | 50# bags drilling mud @ \$4.00 |                   |                       |                   | 196.00             |
|                           |   | 3           | 50# bags Cellex @ \$191.92     |                   |                       |                   | 575.76             |
|                           |   | 2           | 40# bags Mud Seal @ \$21.19    |                   |                       |                   | 42.38              |
|                           |   | 3           | 40# bags Kwikseal @ \$30.66    |                   |                       |                   | 91.98              |
|                           | <u>CORE BOXES USED</u>  |             |                                |                   |                       |                   |                    |
|                           |   | 83          | cardboard core boxes @ \$1.50  |                   |                       |                   | 124.50             |
|                           | <u>WATER TRUCK RENTAL</u>   |             |                                |                   |                       |                   |                    |
|                           |   |             | December 26 thru January 25    |                   |                       |                   |                    |
|                           |   |             | 1 truck @ \$360.00/month       |                   |                       |                   | 360.00             |
|                           |   |             | 33 miles @ \$.40/mile          |                   |                       |                   | 13.20              |
|                           |   |             |                                |                   |                       |                   | <u>\$14,356.02</u> |

*OK for Payment  
Superior East Proj  
EA-0010*

*James D. Seel*

09007

F. O. B. SHIPPING POINT UNLESS OTHERWISE SPECIFIED  
NO RETURNS ALLOWED UNLESS AUTHORIZED BY THIS OFFICE  
GOODS COVERED BY THIS INVOICE WERE PRODUCED IN COMPLIANCE WITH THE REQUIREMENTS OF THE FAIR LABOR STANDARDS ACT OF 1938, AS AMENDED, INCLUDING SECTION 12(A).

**ORIGINAL**

ESTIMATE

A-11 Jay

Footage: 551 feet as follows:

3606-3772 = 166' of NX @ 20.10 = 3,334.60

3772-4000 = 228' of BX @ 19.80 = 4,514.40

4000-4157 = 157' of BX @ 22.80 = 3,579.40

Subtotal 11,430.60

Casing 37 hrs @ 30<sup>00</sup>/hr

= 1,110.00

Subtotal 1,110.00

Mud & additives Used

86 bags drilling mud @ 44<sup>00</sup> 24400 348<sup>00</sup>

2 bags Dick's Mud Seal @ 21<sup>17</sup> 4238 46<sup>08</sup>

2 bags Cellex @ 191<sup>92</sup> 383.84

1 barrel Soluble Oil @ 132<sup>00</sup> 132.00

1 - 5 gal Con-det @ 65<sup>43</sup> 65.43

Subtotal 967.85

Core boxes Used (box 393-453)

= 60 boxes @ 1.50 90.00

Water Truck Rental

1 truck @ 360<sup>00</sup>/month 360.00

145 miles @ 0.40 58.00

Subtotal 418.00

Total

\$ 14,016.45 14,024<sup>15</sup>

ESTIMATE

Byrant Construction Company

PO # T-106-9

Temp. Construction, Road Access Repair to A-11.

± Feb 17-18<sup>th</sup>.

To be called in on ± 2/27/79.

hrs @ # /hr.

from Paul Bryant: Re: Sup. East

loader @ \$40/hr  
for 8 hrs ..... \$ 320.00

laborer @ \$15/hr  
for 8 hrs ..... \$ 120.00

4% state tax 6.16

TOTAL — \$ 446.16

EXPLORATION AUTHORIZATION NO. 0010-15  
 SUPERIOR EAST PROJECT  
 PINAL COUNTY, ARIZONA

TUCSON OFFICE

February - 1979

| Account No.        | Item                                   | This Month        | This Year         | Total to Date      |
|--------------------|--|-------------------|-------------------|--------------------|
| 521-100            | Surface Drilling - Salaries            | \$                | \$                | \$ 579.00          |
| 521-200            | - Add. Labor                           |                   |                   | 87.65              |
| 521-600            | - Traveling                            |                   | 12.90             | 24.90              |
| 521-750            | - Services                             | 14515.25          | 31006.32          | 79731.57           |
| 521-780            | - Fuel, Power, Water                   |                   |                   | 69.44              |
| 530-100            | Geology - Salaries                     | 464.00            | 792.00            | 2098.00            |
| 530-200            | - Add. Labor                           | 106.49            | 188.30            | 389.49             |
| 530-600            | - Traveling                            |                   |                   | 122.45             |
| 540-100            | Sampling, Assaying, Lab. - Salaries    |                   | 63.00             | 266.00             |
| 540-150            | - Wages                                |                   |                   | 217.32             |
| 540-200            | - Add. Labor                           |                   | 15.58             | 65.25              |
| 540-750            | - Services                             |                   |                   | 5.00               |
| 580-750            | Temporary Construction - Services      | 446.16            | 446.16            | 1725.65            |
| 610-500            | Field Administration - Communications  | 21.36             | 37.52             | 105.82             |
| 610-780            | - Fuel, Power, Water                   | 11.83             | 237.8             | 74.95              |
| 620-100            | General Administration - Salaries      | 131.00            | 131.00            | 788.00             |
| 620-200            | - Add. Labor                           | 30.03             | 30.03             | 162.15             |
| 620-400            | - Supplies                             | 2.50              | 4.43              | 13.72              |
| 620-801            | - Sales Tax                            | .15               | .27               | .82                |
| 620-950            | - Other                                |                   |                   | 4.00               |
| 641-400            | Distributable Accounts Auto - Supplies | 192.20            | 397.57            | 963.15             |
| 641-801            | - Sales Tax                            | .05               | 1.09              | 4.38               |
|                    |  | <u>\$16041.61</u> | <u>\$33330.99</u> | <u>\$87679.75</u>  |
| Authorized         |  |                   |                   | \$146 000.00       |
| Expended           |  |                   |                   | <u>87 679.75</u>   |
| Balance Unexpended |  |                   |                   | <u>\$ 58320.25</u> |
| 521-801            | Surface Drilling - Sales Taxes         |                   | 56.60             | 56.60              |
| 610-600            | Field Administration - Traveling       | 120.59            | 124.44            | 124.44             |

Orig: TCOsborne  
 cc: FRM, NV, CWC, TES, FTG, File - 2

A-11



# JOY MANUFACTURING COMPANY

OLIVER BUILDING  
PITTSBURGH, PENNSYLVANIA 15222

PLEASE REMIT TO  
P. O. BOX 360135M  
PITTSBURGH, PA. 15250

|                      |          |           |               |      |               |          |
|----------------------|----------|-----------|---------------|------|---------------|----------|
| CUSTOMER'S ORDER NO. | DATE     | REQ. NO.  | OUR ORDER NO. | DATE | AT REC. POINT | B.O. NO. |
| CONTRACT             | 99 69 05 | 03 02 209 |               |      |               |          |

02250

SOLD TO Asarco Incorporated  
P. O. Box 5747  
Tucson, AZ 85703

Attn: Mr. N. P. Whaley

SHIPPED TO Superior, AZ

P. O. ADDRESS

MARKS

REQUESTED ROUTING

SHIPPED FROM Michigan City

TERMS NET 30 DAYS  
NO CASH DISCOUNT

INVOICE NO. 52117466

INVOICE DATE 4/3/79

PLEASE REMIT TO  
P. O. BOX 360135M  
PITTSBURGH, PA. 15250

DATE SHIPPED

SHIPPED VIA

| ORIGINAL QUANTITY ORDERED | PART NUMBER                     | DESCRIPTION  | CODE | UNIT PRICE             | QUANTITY BACK ORDERED | QUANTITY SHIPPED | AMOUNT            |
|---------------------------|---------------------------------|--|------|------------------------|-----------------------|------------------|-------------------|
|                           |                                 | To 458.' core drilling at Superior, AZ for period ending March 25, as per agreement. |      |                        |                       |                  | 979               |
|                           | <u>PROSPECT NO.</u>             | <u>FROM</u> <u>TO</u>  |      | <u>TOTAL FEET</u>      | <u>UNIT COST</u>      |                  | <u>TOTAL COST</u> |
|                           | A-11                            | BX 4157.      4500.  |      | 343.                   | 22.80                 |                  | 7,820.40          |
|                           |                                 | BX 4500.      4615.  |      | 115.                   | 26.60                 |                  | 3,059.00          |
|                           |                                 |  |      |                        |                       |                  | 10,879.40         |
|                           | <u>SURVEY TIME</u>              |  |      |                        |                       |                  |                   |
|                           | A-11                            | March 16   |      | 6 hours @ \$30.00/hour |                       |                  | 180.00            |
|                           | <u>MUD &amp; ADDITIVES USED</u> |  |      |                        |                       |                  |                   |
|                           |                                 | 76 50# bags drilling mud @ \$4.00  |      |                        |                       |                  | 304.00            |
|                           |                                 | 3 50# bags Cellex @ \$191.92   |      |                        |                       |                  | 575.76            |
|                           |                                 | 3 40# bags Hyseal @ \$21.62  |      |                        |                       |                  | 64.86             |
|                           |                                 | 110 gals. soluble oil @ \$2.40   |      |                        |                       |                  | 264.00            |
|                           |                                 |  |      |                        | Total Mud             |                  | 1,208.62          |
|                           | <u>CORE BOXES USED</u>          |  |      |                        |                       |                  |                   |
|                           |                                 | 50 cardboard core boxes @ \$1.50   |      |                        |                       |                  | 75.00             |
|                           | <u>WATER TRUCK RENTAL</u>       |  |      |                        |                       |                  |                   |
|                           |                                 | February 26 thru March 25  |      |                        |                       |                  |                   |

09007

F. O. B. SHIPPING POINT UNLESS OTHERWISE SPECIFIED

NO RETURNS ALLOWED UNLESS AUTHORIZED BY THIS OFFICE

GOODS COVERED BY THIS INVOICE WERE PRODUCED IN COMPLIANCE WITH THE REQUIREMENTS OF THE FAIR LABOR STANDARDS ACT OF 1938, AS AMENDED, INCLUDING SECTION 12(A).

**DUPLICATE**



# JOY MANUFACTURING COMPANY

PAGE NO. 2

**SOLD**  
Asarco Incorporated

|                     |               |               |          |                         |
|---------------------|---------------|---------------|----------|-------------------------|
| OUR<br>ORDER<br>NO. | AT REC. POINT | AT SHIP POINT | B.O. NO. | INVOICE NO.<br>52117466 |
|---------------------|---------------|---------------|----------|-------------------------|

| ORIGINAL<br>QUANTITY<br>ORDERED | UNIT | PART NUMBER | DESCRIPTION                           | CODE | UNIT PRICE | QUANTITY<br>BACK<br>ORDERED | QUANTITY<br>SHIPPED | AMOUNT      |
|---------------------------------|------|-------------|---------------------------------------|------|------------|-----------------------------|---------------------|-------------|
|                                 |      |             | <u>WATER TRUCK RENTAL</u> (continued) |      |            |                             |                     |             |
|                                 |      |             | 1 truck @ \$360.00/month              |      |            |                             |                     | 360.00      |
|                                 |      |             | 29 miles @ \$.40/mile                 |      |            |                             |                     | 11.60       |
|                                 |      |             |                                       |      |            |                             |                     | \$12,714.62 |



BY 4157-4615 = 458'

TRUCK 75624-75653 = 29 mi.

CORR BY 453-503 = 50

mud - 18-16-19-23 = 76

Sol Oil - 0-1-0-1 = 2

Dick mud Seal - 1-1-0-1 = 3

Qellex - 1-1-1- = 3

Survey = 3-16-79 = 6 hr.

RBCast

SUPERIOR E

Please check with JDSell,  
assume A-11 goes to  
5000 ft.; will this  
cover assessment for 1978-1979  
for Superior E. and Pawhide?

We should get this estimate  
soon so we can plan  
additional drilling now.

cc. JDSell.

FTG

3/20/79

MONTHLY COST SUMMARY

Superior East EA-0010 Project, Pinal (County), Arizona (State)

DIRECT DRILLING (Acct. 521-)

CONTRACTORS' CHARGES

Invoiced during month covering current month's work

|                              |                     |
|------------------------------|---------------------|
| <u>Contractors' Services</u> | <u>Gay</u>          |
| <u>February estimate</u>     | <u>\$ 14,016.45</u> |
| <u>February invoice</u>      | <u># 5-2117424</u>  |
|                              | <u>14,024.15</u>    |

Statement Amt.

|               |
|---------------|
| <u>_____</u>  |
| <u>+ 7.70</u> |
| <u>_____</u>  |

add # 7.70

Estimated balance of contractors' charges covering work through end of current month

|                                     |
|-------------------------------------|
| <u>Contractors' Services</u>        |
| <u>March Estimate 4157-4615' BX</u> |
| <u>= 458.88</u>                     |
| <u>_____</u>                        |
| <u>_____</u>                        |

Estimated Cost

|                  |
|------------------|
| <u>12,535.88</u> |
| <u>_____</u>     |
| <u>_____</u>     |

Supplies and Freight

Field Trailer Rental

Water Purchases (Drilling)

3. SITE PREPARATION (Acct. 580-)

CONTRACTORS' CHARGES

Invoiced during month covering current month's work

|                                    |
|------------------------------------|
| <u>Contractors' Services</u>       |
| <u>Dryport Const. PO # 7-100-9</u> |
| <u>_____</u>                       |

Statement Amt.

|                          |
|--------------------------|
| <u>Services provided</u> |
| <u>estimate</u>          |
| <u>_____</u>             |

Estimated balance of contractors' charges covering work through end of current month

|                              |
|------------------------------|
| <u>Contractors' Services</u> |
| <u>_____</u>                 |
| <u>_____</u>                 |

Estimated Cost

|              |
|--------------|
| <u>_____</u> |
| <u>_____</u> |
| <u>_____</u> |

Supplies and Freight

SAMPLERS, SAMPLING, SAMPLE PREPARATION, ASSAYING (Acct. 540-)

Wages (Temporary Help)

| Name                    | No. of Straight Time Hours During Month | No. of Overtime Hours During Month |
|-------------------------|---|------------------------------------|
| <del>AARL # 16222</del> |   |                                    |

Assaying

| Assayer                            | Charge or Estimated Expense for Assaying Performed During Month |        |
|------------------------------------|---|--------|
| AARL # 16222 (A-11-1 thru A-11-37) | 101.75  | 129.25 |
| AARL # 16232 (A-38 thru A-47)      | 27.50   |        |

D. CLAIM STAKING, VALIDATION (Acct. 507-)

Invoiced during month covering current month's work

| Contractors' Services | Statement Amt. |
|-----------------------|----------------|
|                       |                |

Estimated balance of contractors' charges covering work through end of current month

| Contractors' Services | Estimated Cost |
|-----------------------|----------------|
|                       |                |

Wages

| Name | No. of Straight Time Hours During Month | No. of Overtime Hours During Month |
|------|---|------------------------------------|
|      |   |                                    |

E. OTHER (Itemize any other major expenses not covered above or by invoice.)

| Item   | Cost    |
|--|---------|
| McAfee-Hawes Surveying Company<br>A-11 Sew - 4400 PO # 7-148-9 | 1043.50 |
|  |         |



# JOY MANUFACTURING COMPANY

OLIVER BUILDING  
PITTSBURGH, PENNSYLVANIA 15222

PLEASE REMIT TO  
P. O. BOX 360135M  
PITTSBURGH, PA. 15250

**C. D. N.**  
**MAR 12 1979**

|                      |                    |               |      |               |          |
|----------------------|--------------------|---------------|------|---------------|----------|
| CUSTOMER'S ORDER NO. | DATE               | REQ. NO.      | DATE | AT REC. POINT | B.O. NO. |
| CONTRACT             | 99 69 05 03 02 209 | OUR ORD'R NO. | DATE | AT SHIP POINT |          |

02250—  
SOLD TO  
Asarco Inc.  
P. O. Box 5747  
Tucson, AZ 85703  
Attn: Mr. N. P. Whaley

TERMS NET 30 DAYS  
NO CASH DISCOUNT

INVOICE NO. 52117424  
INVOICE DATE 3/2/79

SHIPPED TO  
Superior, AZ

PLEASE REMIT TO  
P. O. BOX 360135M  
PITTSBURGH, PA. 15250

DATE SHIPPED  
SHIPPED VIA

P. O. ADDRESS

MARKS

REQUESTED ROUTING

SHIPPED FROM Michigan City

| ORIGINAL QUANTITY ORDERED | PART NUMBER                     | DESCRIPTION  | CODE                    | UNIT PRICE        | QUANTITY BACK ORDERED | QUANTITY SHIPPED  | AMOUNT    |
|---------------------------|---------------------------------|--|-------------------------|-------------------|-----------------------|-------------------|-----------|
|                           |                                 | To 551.' core drilling at Superior, AZ for period ending Feb. 25, 1979 as per agreement. |                         |                   |                       |                   |           |
|                           | <u>PROSPECT NO.</u>             | <u>FROM</u>  | <u>TO</u>               | <u>TOTAL FEET</u> | <u>UNIT COST</u>      | <u>TOTAL COST</u> |           |
|                           | A-11                            | NX 3606.   | 3772.                   | 166.              | 20.10                 | 3,336.60          |           |
|                           |                                 | BX 3772.   | 4000.                   | 228.              | 19.80                 | 4,514.40          |           |
|                           |                                 | BX 4000.   | 4157.                   | 157.              | 22.80                 | 3,579.60          |           |
|                           |                                 |  |                         |                   |                       |                   | 11,430.60 |
|                           | <u>SET &amp; PULL CASING</u>    |  |                         |                   |                       |                   |           |
|                           | A-11                            | February 7   | 24 hours                |                   |                       |                   |           |
|                           |                                 | February 8   | 13 hours                |                   |                       |                   |           |
|                           |                                 |  | 37 hours @ \$30.00/hour |                   |                       |                   | 1,110.00  |
|                           | <u>MUD &amp; ADDITIVES USED</u> |  |                         |                   |                       |                   |           |
|                           | 87                              | 50# bags drilling mud @ \$4.00   |                         |                   |                       |                   | 348.00    |
|                           | 2                               | 50# bags Cellex @ \$191.92   |                         |                   |                       |                   | 383.84    |
|                           | 1                               | 5 gal. Con Det @ \$65.63   |                         |                   |                       |                   | 65.63     |
|                           | 55                              | gals. soluble oil @ \$2.40   |                         |                   |                       |                   | 132.00    |
|                           | 2                               | 40# bags Dicks Mud Seal @ \$23.04  |                         |                   |                       |                   | 46.08     |
|                           |                                 |  |                         |                   |                       |                   | 975.55    |
|                           | <u>CORE BOXES USED</u>          |  |                         |                   |                       |                   |           |
|                           | 60                              | cardboard core boxes @ \$1.50  |                         |                   |                       |                   | 90.00     |

*Paradise*  
211

**DUPLICATE**

09007

F. O. B. SHIPPING POINT UNLESS OTHERWISE SPECIFIED  
NO RETURNS ALLOWED UNLESS AUTHORIZED BY THIS OFFICE  
GOODS COVERED BY THIS INVOICE WERE PRODUCED IN COMPLIANCE WITH THE REQUIREMENTS OF THE FAIR LABOR STANDARDS ACT OF 1938, AS AMENDED, INCLUDING SECTION 12(A).

# JOY MANUFACTURING COMPANY

PAGE NO. 2

**SOLD**  
Asarco Inc.

|                     |               |               |          |                                |
|---------------------|---------------|---------------|----------|--------------------------------|
| OUR<br>ORDER<br>NO. | AT REC. POINT | AT SHIP POINT | B.O. NO. | INVOICE NO.<br><b>52117424</b> |
|---------------------|---------------|---------------|----------|--------------------------------|

| ORIGINAL<br>QUANTITY<br>ORDERED | UNIT | PART NUMBER | DESCRIPTION                 | CODE | UNIT PRICE | QUANTITY<br>BACK<br>ORDERED | QUANTITY<br>SHIPPED | AMOUNT      |
|---------------------------------|------|-------------|-----------------------------|------|------------|-----------------------------|---------------------|-------------|
|                                 |      |             | <u>WATER TRUCK RENTAL</u>   |      |            |                             |                     |             |
|                                 |      |             | January 26 thru February 25 |      |            |                             |                     |             |
|                                 |      |             | 1 truck @ \$360.00/month    |      |            |                             |                     | 360.00      |
|                                 |      |             | 145 miles @ \$.40/mile      |      |            |                             |                     | 58.00       |
|                                 |      |             |                             |      |            |                             |                     | \$14,024.15 |



Jay Drilling March Estimate

Hole A-11 Sarginas East

Drilling: ~~315~~ 4157-4500 BX = 343 @ 22.80 = \$ 7,820.40  
4500-4615 BX = 115 @ 26.60 = 3,059.00

\$ 10,879.40

forgot ristricts use for  
Surginas Ch @ 30/hr = + 180.00

Mud & additives:

76 sacks 50# of mud @ \$4.00 = 304.00  
3 - 40# sacks of <sup>changed for Hypersol @ 21.42</sup> Necks Mud @ 23.04 = 69.12  
3 - 50# bags Cellar @ 191.92 = 575.76  
110 gallons Solub Oil @ 2.40 = 264.00

4.24

1,212.88

Core boxes used = 50 at \$1.50 = 75.00

75.00

Water Truck Rental

Month = 360.00  
miles 29 @ 0.40 = 11.60

371.60

ESTIMATE Total \$ 12,538.88

BRYANT CONSTRUCTION CO.  
 843 SPRAY STREET  
 SUPERIOR, AZ. 85273

C. D. N.

|                                      |
|--------------------------------------|
| OUR NUMBER<br><b>3434</b>            |
| Mar. 1, 1979<br>DATE                 |
| P.O. # T-106-9 ✓<br>CUSTOMER'S ORDER |
| SALESMAN                             |
| TERMS                                |
| F. C. B.                             |

Sold To ASARCO Incorporated 1102 210/0  
Box 5747  
Tucson, Ariz. 85703

Shipped To \_\_\_\_\_  
 Address \_\_\_\_\_

INVOICE

|   |       |          |  |
|---|-------|----------|--|
| Hough Loader With Operator @ \$40.00 Hour | 8 hrs | \$320 00 |  |
| Labor--One Man @ \$15.00 Hour             | 8 hrs | 120 00   |  |
| Total                                     |       | \$440 00 |  |
| State Tax 4%                              |       | 6 16     |  |
| Total                                     |       | \$446 16 |  |

|                    |                    |
|--------------------|--------------------|
| Order No. _____    | Quant. O. K. _____ |
| Ship. Recd. _____  | Price O.K. _____   |
| Inv. Recd. _____   | Exten. O.K. _____  |
| Fri. _____         | Exp. _____         |
| Trk. _____         | Mali. _____        |
| Charge <u>5131</u> | <u>446.16</u>      |

APPROVED FOR PAYMENT  
 By: [Signature]  
 (Signature)

Rediform  
 7H 722

SUB. EAST

3441 East Milber

INVOICE NO. 16222

Phone 889-5787

# AMERICAN ANALYTICAL and RESEARCH LABORATORIES

ASSAYERS - CHEMISTS - METALLURGISTS

SAMPLE SUBMITTED BY ASARCO, INC.

TUCSON, ARIZONA 85714

Mr. Jim Sell

DATE March 21, 1979

| SAMPLE MARKED      | ANALYSIS | CHARGES   |
|--------------------|----------|-----------|
| A-11-1 -- A-11-25  | Cu       | \$ 68.75  |
| A-11-26 -- A-11-37 | Cu       | 33.00     |
|                    | TOTAL    | \$ 101.75 |

*OK for payment  
James R. Sell  
Superior East EA-0010*

THANK YOU MUCH!

|         |  |      |  |  |  |
|---------|--|------|--|--|--|
| A-11-16 |  | 0.17 |  |  |  |
| A-11-17 |  | 0.44 |  |  |  |
| A-11-18 |  | 0.19 |  |  |  |
| A-11-19 |  | 0.32 |  |  |  |
| A-11-20 |  | 0.43 |  |  |  |
| A-11-21 |  | 1.24 |  |  |  |
| A-11-22 |  | 0.40 |  |  |  |
| A-11-23 |  | 0.37 |  |  |  |
| A-11-24 |  | 0.42 |  |  |  |
| A-11-25 |  | 0.33 |  |  |  |

*James R. Sell  
3/21/79*

CHARGES \$ 68.75

VOICE NO 16222

ASSAYER-CHEMIST

3441 East Milber

INVOICE NO. 16232

Phone 889-5787

# AMERICAN ANALYTICAL and RESEARCH LABORATORIES

ASSAYERS - CHEMISTS - METALLURGISTS

TUCSON, ARIZONA 85714

SAMPLE SUBMITTED BY ASARCO, INC.

DATE March 24, 1979

Mr. J. D. Sell

SAMPLE MARKED

ANALYSIS

CHARGES

A-11-38 -- A-11-47

Cu

\$ 27.50

*OK for Payment  
Superior East EA-0010  
James D. Sell*

THANK YOU MUCH!

*James D. Sell  
3/24/79*

CHARGES \$ 27.50

INVOICE NO. 16232

ASSAYER - CHEMIST

# MOLLEN-HAUER SURVEYING COMPANY

P.O. Box 17376 • Tucson, Ariz. 85731 • Phone (602) 298-2779

Date: MARCH 18, 1979

ASARCO INCORPORATED S.W. EXPLORATION

Customer's Order No. **T-148-9**

U.S. EXPLORATION DIVISION

Job No. G 1645

P. O. BOX 5747

Invoice No. G 1645

TUCSON, ARIZONA 85703

| Date  | Stop Date | Hole Name & No.   | Area          | Charges   |    |
|---|-----------|---|---------------|---|----|
|   |           | A 11  | SUPERIOR EAST | Survey 22¢ Per Ft.<br>Mileage 30¢ Per Mile<br>Blueprint Minimum |    |
| 16-79   |           | GYROSCOPIC DIRECTIONAL SURVEY<br>Surveyed hole from 0' to 4400'<br>Round trip mileage from office to core hole 240 miles<br>Blueprint charges |               | \$968 00<br>72 00<br>3 50                                       |    |
| <p>APPROVED FOR PAYMENT</p> <p><i>[Signature]</i><br/>(Signature)<br/>EA-0010</p> |           |   |               |   |    |
| TOTAL   |           |   |               | \$1043  | 50 |

## INVOICE

**MOLLEN-HAUER SURVEYING COMPANY**

P.O. Box 17376 • Tucson, Ariz. 85731 • Phone (602) 298-2779

ASARCO INCORPORATED S.W. EXPLORATION

U.S. EXPLORATION DIVISION

P. O. BOX 5747

TUCSON, ARIZONA 85703

Date: MARCH 18, 1979

Customer's Order No. T-148-9

Job No. G 1645

Invoice No. G 1645

| Start Date | Stop Date | Hole Name & No.   | Area          | Charges   |    |
|------------|-----------|---|---------------|---|----|
|            |           | A 11  | SUPERIOR EAST | Survey 22¢ Per Ft.<br>Mileage 30¢ Per Mile<br>Blueprint Minimum |    |
| 3-16-79    |           | GYROSCOPIC DIRECTIONAL SURVEY<br>Surveyed hole from 0° to 4400°<br><br>Round trip mileage from office to core hole 240 miles<br><br>Blueprint charges |               | \$968   | 00 |
|            |           |   |               | 72  | 00 |
|            |           |   |               | 3   | 50 |
|            |           |   | TOTAL         | \$1043  | 50 |

*James B. ...*  
EA-0010

**INVOICE**

**MOLLEN-HAUER SURVEYING COMPANY**

**WORK ORDER AND RECEIPT**

P.O. Box 17376 • Tucson, Ariz. 85731 • Phone (602) 298-2779

Customer Harold Inc. S.W. Exploration Date 3-17-79  
*U.S. Exploration Div.*

Invoice Address P.O. Box 5747 Well Name & No. A 11

Season 85703 Job No. 61645

Field Superior East County Gila State Ariz

Hole size 6 1/2 to \_\_\_\_\_ ft. size \_\_\_\_\_ to \_\_\_\_\_ Ft. Others \_\_\_\_\_

This is to verify the order for a Gyroscopic survey on the above mentioned well.  
The Customer agrees to the Rates, Terms and Conditions as set forth in Price List No. as quoted.

Is filing of survey with Governing Agency required by existing Law, Rule or Regulation? \_\_\_\_\_

By \_\_\_\_\_  
Customer/Agency thereof

Arrived at well: Date 3-16-79 Time \_\_\_\_\_ Left well: Date 3-16-79 Time \_\_\_\_\_ Standby time \_\_\_\_\_

Travel from Office to well Round trip 2 1/2 miles. Surveyed from 0 to 4400

Footage surveyed 4400

Distance between Survey Stations: 100 Traversed from \_\_\_\_\_ to \_\_\_\_\_ Footage traversed \_\_\_\_\_

Remarks: \_\_\_\_\_

By H. Mollenhauer By \_\_\_\_\_

**Mollen-Hauer Surveying Company**

Customer/Agency thereof

EXPLORATION AUTHORIZATION NO. 0010-15  
 SUPERIOR EAST PROJECT  
 PINAL COUNTY, ARIZONA

TUCSON OFFICE

March - 1979

| Account No.        | Item                                   | This Month        | This Year         | Total to Date       |
|--------------------|--|-------------------|-------------------|---------------------|
| 521-100            | Surface Drilling - Salaries            | \$                | \$                | \$ 579.00           |
| 521-200            | - Add. Labor                           |                   |                   | 87.65               |
| 521-600            | - Traveling                            |                   | 12.90             | 24.90               |
| 521-750            | - Services                             | 13590.08          | 44596.40          | 93321.65            |
| 521-780            | - Fuel, Power, Water                   |                   |                   | 69.44               |
| 530-100            | Geology - Salaries                     | 498.00            | 1290.00           | 2596.00             |
| 530-200            | - Add. Labor                           | 115.57            | 303.87            | 505.06              |
| 530-600            | - Traveling                            | 90.37             | 90.37             | 212.82              |
| 540-100            | Sampling, Assaying, Lab. - Salaries    | 249.00            | 312.00            | 515.00              |
| 540-150            | - Wages                                |                   |                   | 217.32              |
| 540-200            | - Add. Labor                           | 58.73             | 74.31             | 123.98              |
| 540-750            | - Services                             |                   |                   | 5.00                |
| 580-750            | Temporary Construction - Services      |                   | 446.16            | 1725.65             |
| 610-500            | Field Administration - Communications  | 16.16             | 53.68             | 136.25              |
| 610-780            | - Fuel, Power, Water                   | 14.27             | 38.05             | 74.95               |
| 620-100            | General Administration - Salaries      | 64.00             | 195.00            | 852.00              |
| 620-200            | - Add. Labor                           | 15.16             | 45.19             | 177.31              |
| 620-400            | - Supplies                             |                   | 4.43              | 13.72               |
| 620-801            | - Sales Tax                            |                   | .27               | .82                 |
| 620-950            | - Other                                |                   |                   | 4.00                |
| 641-400            | Distributable Accounts Auto - Supplies | 186.17            | 583.74            | 1149.32             |
| 641-801            | - Sales Tax                            | .58               | 1.67              | 4.96                |
|                    |  | <u>\$14898.04</u> | <u>\$48229.08</u> | <u>\$102577.84</u>  |
| Authorized         |  |                   |                   | \$146 000.00        |
| Expended           |  |                   |                   | <u>102 577.84</u>   |
| Balance Unexpended |  |                   |                   | <u>\$ 43 422.16</u> |
| 521-801            | Surface Drilling - Sales Taxes         |                   | 56.60             | 56.60               |
| 610-600            | Field Administration - Traveling       |                   | 124.44            | 124.44              |

Orig: TCOsborne  
 cc: FRM, NV, CWC, TES, FTG, File - 2

43  
 16 APRIL '79  
 27,000 - BAL.

A-11





A-11

BX 4615: 4857 = 242<sup>v</sup>

SURVEY 419 4 1/2 hr<sup>v</sup>  
CORE Boxes 25<sup>v</sup>  
TRUCK Mites 43<sup>v</sup>

CAUSTIC SODA - 1<sup>v</sup>  
SODA ASH - 1<sup>v</sup>  
TORY TRIM - 1<sup>v</sup>  
DICK MUD SEAL - 3<sup>v</sup>  
CELLEX - 3<sup>v</sup>  
WALNUT FLOUR - 8<sup>v</sup>  
CC-16 - 6<sup>v</sup>  
MUD - 202<sup>v</sup>  
DEXTRID - 14<sup>v</sup>

CASING HOLE  
4.25 - 3 1/2 hr<sup>v</sup>

Core box # 527  
end BX

**TAB**

1980

---



SAMPLERS, SAMPLING, SAMPLE PREPARATION, ASSAYING (Acct. 540-)

Wages (Temporary Help)

| <u>Name</u> | <u>No. of Straight Time Hours During Month</u> | <u>No. of Overtime Hours During Month</u> |
|-------------|--|---|
| _____       | _____  | _____                                     |
| _____       | _____  | _____                                     |

Assaying

| <u>Assayer</u>                    | <u>Charge or Estimated Expense for Assaying Performed During Month</u> |
|-----------------------------------|--|
| <u>AARL</u>                       |  |
| <u># 16290 (A-11 - 48 hrs 70)</u> | <u>65.25</u>   |
| <u># 16315 (A-11 - 71 hrs 77)</u> | <u>19.25</u>   |
|                                   | <u>84.50</u>   |

D. CLAIM STAKING, VALIDATION (Acct. 507-)

Invoiced during month covering current month's work

| <u>Contractors' Services</u> | <u>Statement Amt.</u> |
|------------------------------|-----------------------|
| _____                        | _____                 |
| _____                        | _____                 |

Estimated balance of contractors' charges covering work through end of current month

| <u>Contractors' Services</u> | <u>Estimated Cost</u> |
|------------------------------|-----------------------|
| _____                        | _____                 |
| _____                        | _____                 |

Wages

| <u>Name</u> | <u>No. of Straight Time Hours During Month</u> | <u>No. of Overtime Hours During Month</u> |
|-------------|--|---|
| _____       | _____  | _____                                     |
| _____       | _____  | _____                                     |

E. OTHER (Itemize any other major expenses not covered above or by invoice.)

| <u>Item</u>                                      | <u>Cost</u>     |
|--|-----------------|
| <u>Mollen-Hauer Survey (4300-4750) Estimated</u> | <u>175.50 E</u> |
| _____  | _____           |
| _____  | _____           |
| _____  | _____           |
| _____  | _____           |
|  | <u>175.50 E</u> |



# JOY MANUFACTURING COMPANY

OLIVER BUILDING  
PITTSBURGH, PENNSYLVANIA 15222

PLEASE REMIT TO  
P. O. BOX 360135M  
PITTSBURGH, PA. 15250

|                      |          |           |               |      |               |          |
|----------------------|----------|-----------|---------------|------|---------------|----------|
| CUSTOMER'S ORDER NO. | DATE     | REQ. NO.  | OUR ORD'R NO. | DATE | AT REC. POINT | B.O. NO. |
| CONTRACT             | 99 69 05 | 03 02 209 |               |      |               |          |

02250

SOLD TO

Asarco Incorporated  
P. O. Box 5747  
Tucson, AZ 85703

Attn: Mr. N. P. Whaley J.D. SELL

SHIPPED TO

Superior, AZ

P. O. ADDRESS

MARKS

REQUESTED ROUTING

SHIPPED FROM Michigan City

TERMS NET 30 DAYS  
NO CASH DISCOUNT

INVOICE NO. 52117466

INVOICE DATE 4/3/79

PLEASE REMIT TO  
P. O. BOX 360135M  
PITTSBURGH, PA. 15250

DATE SHIPPED

SHIPPED VIA

| ORIGINAL QUANTITY ORDERED | PART NUMBER                     | DESCRIPTION   | CODE | UNIT PRICE             | QUANTITY BACK ORDERED | QUANTITY SHIPPED | AMOUNT            |
|---------------------------|---------------------------------|---|------|------------------------|-----------------------|------------------|-------------------|
|                           |                                 | To 458.' core drilling at Superior, AZ for period ending March 25, 1979 as per agreement. |      |                        |                       |                  |                   |
|                           | <u>PROSPECT NO.</u>             | <u>FROM</u> <u>TO</u>   |      | <u>TOTAL FEET</u>      |                       | <u>UNIT COST</u> | <u>TOTAL COST</u> |
|                           | A-11                            | BX 4157.      4500.   |      | 343.                   |                       | 22.80            | 7,820.40 ✓        |
|                           |                                 | BX 4500.      4615.   |      | 115.                   |                       | 26.60            | 3,059.00 ✓        |
|                           |                                 |   |      |                        |                       |                  | 10,879.40 ✓       |
|                           | <u>SURVEY TIME</u>              |   |      |                        |                       |                  |                   |
|                           | A-11                            | March 16  |      | 6 hours @ \$30.00/hour |                       |                  | 180.00 ✓          |
|                           | <u>MUD &amp; ADDITIVES USED</u> |   |      |                        |                       |                  |                   |
|                           |                                 | 76 50# bags drilling mud @ \$4.00   |      |                        |                       |                  | 304.00 ✓          |
|                           |                                 | 3 50# bags Cellex @ \$191.92  |      |                        |                       |                  | 575.76 ✓          |
|                           |                                 | 3 40# bags Hyseal @ \$21.62   |      |                        |                       |                  | 64.86 ✓           |
|                           |                                 | 110 gals. soluble oil @ \$2.40  |      |                        |                       |                  | 264.00 ✓          |
|                           |                                 |   |      |                        |                       | Total Mud        | 1,208.62          |
|                           | <u>CORE BOXES USED</u>          |   |      |                        |                       |                  |                   |
|                           |                                 | 50 cardboard core boxes @ \$1.50  |      |                        |                       |                  | 75.00 ✓           |
|                           | <u>WATER TRUCK RENTAL</u>       |   |      |                        |                       |                  |                   |
|                           |                                 | February 26 thru March 25   |      |                        |                       |                  |                   |

**ORIGINAL**

F. O. B. SHIPPING POINT UNLESS OTHERWISE SPECIFIED

NO RETURNS ALLOWED UNLESS AUTHORIZED BY THIS OFFICE

09007

GOODS COVERED BY THIS INVOICE WERE PRODUCED IN COMPLIANCE WITH THE REQUIREMENTS OF THE FAIR LABOR STANDARDS ACT OF 1938, AS AMENDED, INCLUDING SECTION 12(A).

# JOY MANUFACTURING COMPANY

PAGE NO. 2

Asarco Incorporated

|               |               |               |          |                      |
|---------------|---------------|---------------|----------|----------------------|
| OUR ORDER NO. | AT REC. POINT | AT SHIP POINT | E.O. NO. | INVOICE NO. 52117466 |
|---------------|---------------|---------------|----------|----------------------|

| QUANTITY ORDERED   | UNIT | PART NUMBER | DESCRIPTION              | CODE | UNIT PRICE | QUANTITY SHIPPED | AMOUNT        |
|--|------|-------------|--------------------------|------|------------|------------------|---------------|
| <b>WATER TRUCK RENTAL (continued)</b>  |      |             |                          |      |            |                  |               |
|  |      |             | 1 truck @ \$360.00/month |      |            |                  | 360.00 ✓      |
|  |      |             | 29 miles @ \$.40/mile    |      |            |                  | 11.60 ✓       |
|  |      |             |                          |      |            |                  | \$12,714.62 ✓ |
| <p><i>My Estimate = 12,538.08</i></p> <p><i>= 175.74 off</i></p><br><p style="text-align: center;"><b>APPROVED FOR PAYMENT</b></p> <p style="text-align: center;"><i>[Signature]</i></p> <p style="text-align: center;">(Signature)</p> <p style="text-align: center;"><i>Superior East</i></p> <p style="text-align: center;"><i>EA-0010.</i></p><br><p style="text-align: center;"><b>APPROVED FOR PAYMENT</b></p> <p style="text-align: center;">By: _____</p> <p style="text-align: center;">(Signature)</p> |      |             |                          |      |            |                  |               |

# Estimated Jay Drilling Contract - April 1979.

BX Footage 4415'-4857' = 242' @ \$26.60 = 6,437.20

Hole Surveying 4 1/2 hrs @ \$18.00 = 81.00

Casing, Time (getting BX rods on bottom & set), 3 1/2 hrs @ \$30.00 = 105.00

Mud 202 sacks @ \$4.00 = 808.00

Caustic Soda 1 sack @ \$36.77 = 36.77

CC-16 6 sacks @ \$27.77 = 144.32

Calley 3 sacks @ \$191.92 = 575.76

Deftid 14 sacks @ \$72.71 = 1,017.94

Dicks Mud Seal 3 sacks @ \$23.04 = 69.12

Soda-Ash 1 sack @ \$28.49 = 28.49

Torg-Trim 1 ~~sack~~ <sup>5 gal</sup> @ \$73.00 = 73.00

Walnut Flour 8 sacks @ \$20.84 = 144.72

Truck Rental, month = 360.00

Truck Mileage, 43 @ \$0.40 = 17.20

Core Boxes 25 @ \$1.50 = 37.50

Estimated Total \$9,980.02

Note: BX rods, barrel, & bit left in hole for casing.  
Will drill AX thru latch coupling & out thru  
bit. AX drilling prices same as BX prices.



AMERICAN ANALYTICAL and RESEARCH LABORATORIES

ASSAYERS - CHEMISTS - METALLURGISTS

TUCSON, ARIZONA 85714

SAMPLE SUBMITTED BY ASARCO, INC.

DATE April 19, 1979

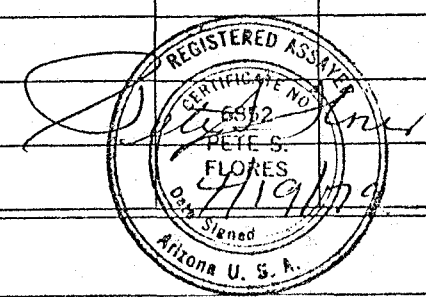
Mr. J. D. Sell

| SAMPLE MARKED      | ANALYSIS            | CHARGES  |
|--------------------|---------------------|----------|
| A-11-48 -- A-11-70 | Cu (4-Wet Analysis) | \$ 65.25 |

*OK for Payment  
James W. Bell  
EA-0010  
A-11*

THANK YOU MUCH!

|         |  |      |  |  |  |  |
|---------|--|------|--|--|--|--|
| A-11-63 |  | 3.04 |  |  |  |  |
| A-11-64 |  | 0.65 |  |  |  |  |
| A-11-65 |  | 0.06 |  |  |  |  |
| A-11-66 |  | 0.42 |  |  |  |  |
| A-11-67 |  | 2.96 |  |  |  |  |
| A-11-68 |  | 0.72 |  |  |  |  |
| A-11-69 |  | 0.56 |  |  |  |  |
| A-11-70 |  | 0.14 |  |  |  |  |



CHARGES \$ 65.25

INVOICE NO. 16290

ASSAYER-CHEMIST

3441 East Milber

INVOICE NO. 16315

Phone 889-5787

# AMERICAN ANALYTICAL and RESEARCH LABORATORIES

ASSAYERS - CHEMISTS - METALLURGISTS

TUCSON, ARIZONA 85714

SAMPLE SUBMITTED BY ASARCO, INC.

DATE April 25, 1979

Mr. J. D. Sell

| SAMPLE MARKED       | ANALYSIS | CHARGES  |
|---------------------|----------|----------|
| A-11-71 --- A-11-77 | Cu       | \$ 19.25 |

*OK for payment  
Superior East EA-0010*

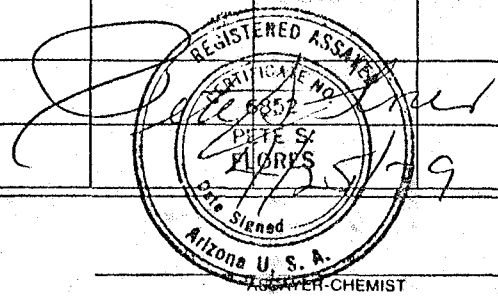
*J. D. Sell*

THANK YOU MUCH!

|  |  |  |  |  |  |  |  |  |  |
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CHARGES \$ 19.25

INVOICE NO. 16315



ASSAYER-CHEMIST

Estimated Moller-Hauer Surveying Bill.

PO # T-207-9

4/19/89 Gyroscopic Directional Survey.

Surveyed hole from 4300-4750 = 450 @ 22¢ = 99.00 (min. 100.00)

Round trip miles, 240 miles = 72.00

Blue print charges = 3.50

\$ 175.50

Estimate

~~changed rate to per shot~~

~~forgot temperature fee~~

EXPLORATION AUTHORIZATION NO. 0010-15  
 SUPERIOR EAST PROJECT  
 PINAL COUNTY, ARIZONA

TUCSON OFFICE

April - 1979

| Account No.        | Item                                   | This Month         | This Year          | Total to Date       |
|--------------------|--|--------------------|--------------------|---------------------|
| 521-100            | Surface Drilling - Salaries            | \$                 | \$                 | \$ 579.00           |
| 521-200            | - Add. Labor                           |                    |                    | 87.65               |
| 521-600            | - Traveling                            |                    | 17.90              | 24.90               |
| 521-750            | - Services                             | 10 867.74          | 5 5464.14          | 104 189.39          |
| 521-780            | - Fuel, Power, Water                   |                    |                    | 69.44               |
| 530-100            | Geology - Salaries                     | 872.00             | 2 162.00           | 3 468.00            |
| 530-200            | - Add. Labor                           | 205.48             | 509.35             | 710.54              |
| 530-600            | - Traveling                            | 12.65              | 103.02             | 225.47              |
| 540-100            | Sampling, Assaying, Lab. - Salaries    |                    | 312.00             | 515.00              |
| 540-150            | - Wages                                |                    |                    | 217.32              |
| 540-200            | - Add. Labor                           |                    | 74.31              | 123.98              |
| 540-750            | - Services                             | 214.80             | 214.80             | 219.80              |
| 580-750            | Temporary Construction - Services      |                    | 446.16             | 1725.65             |
| 610-500            | Field Administration - Communications  | 16.16              | 69.84              | 152.41              |
| 610-780            | - Fuel, Power, Water                   | 11.87              | 49.92              | 86.82               |
| 620-100            | General Administration - Salaries      | 146.00             | 341.00             | 998.00              |
| 620-200            | - Add. Labor                           | 33.45              | 78.64              | 210.76              |
| 620-400            | - Supplies                             | 4.55               | 8.98               | 18.27               |
| 620-801            | - Sales Tax                            | .26                | .53                | 1.08                |
| 620-950            | - Other                                |                    |                    | 4.00                |
| 641-400            | Distributable Accounts Auto - Supplies | 147.45             | 731.19             | 1290.77             |
| 641-801            | - Sales Tax                            |                    | 1.61               | 4.96                |
|                    |  | <u>\$12 534.50</u> | <u>\$6 0763.58</u> | <u>\$115 112.34</u> |
| Authorized         |  |                    |                    | \$146 000.00        |
| Expended           |  |                    |                    | <u>115 112.34</u>   |
| Balance Unexpended |  |                    |                    | <u>\$ 30 887.66</u> |
| 521-801            | Surface Drilling - Sales Taxes         |                    | 56.60              | 56.60               |
| 610-600            | Field Administration - Traveling       |                    | 124.44             | 124.44              |
| 530-400            | Geology - Supplies                     | 2.09               | 2.09               | 2.09                |

Orig: TCOsborne  
 cc: FRM, NV, CWC, TES, FTG, File - 2

A-11

JDS

MAY 17, '79

JIM :

SUPERIOR EAST  
LETTER BY J.H. KOONTZ  
MAY 19, 1979

HAVE ATTACHED A COPY OF THIS LETTER REQUESTING SUPPLEMENTAL COMPENSATION FOR JOY MFG. CO.'S WORK ON A-11.

FROM THE BRIEF BACKGROUND YOU PROVIDED VERBALLY AND THE CONTENT OF THE LETTER I WOULD FEEL THAT THEIR REQUEST IS JUSTIFIED IN PRINCIPLE. THE LETTER MERELY MENTIONS "... SOME PORTION OF THIS WORK AT AN HOURLY RATE... PLUS IN HOLE SUPPLIES." I WOULD SUGGEST THAT THIS "PORTION" BE DISCUSSED AND/OR NEGOTIATED WITH POWER AND/OR JACK LLOYD BEFORE ANY ACCEPTANCE IS EXPRESSED BY ASARCO.

I WOULD RECOMMEND SOME COMPENSATION OR CONCESSION OF THIS NATURE. WE'RE NAIVE IF WE THINK REJECTION WILL SAVE US MONEY. SUCH MONEYS WILL BE REFLECTED

2. - JDS

IN OUR NEXT LETTER OF PROPOSAL FOR SUPERIOR EAST OR SOME OTHER PROJECT.

ADDITIONAL THOUGHT : JOY MFG. CO.'S ORIGINAL LETTER OF PROPOSAL WAS DATED MAY 16, 1978, OVER A YEAR AGO-WITH A HIGH INFLATION RATE - AND THEY DRILLED THE UPPER PORTION OF HOLE WITH A SINGLE CREW AT OUR REQUEST - EXTENDING THEIR COMMITMENT TO ORIGINALLY QUOTED RATES.

NPW



5-17-79  
APW

JOY MANUFACTURING COMPANY  
707 BOYD BOULEVARD  
P. O. DRAWER 489  
LaPORTE, INDIANA 46350  
Phone: (219) 362-2191

May 14, 1979

Mr. N. P. Whaley  
Asarco Incorporated  
P. O. Box 5747  
Tucson, Arizona 85703

Dear Mr. Whaley:

I talked recently with Jim Sell about the hole we are working on for your Superior East Project (Order T-212-8), and he suggested I write to you. Slightly below the bottom of the AX casing (4880-4890), drilling has become very difficult. May I ask you to consider allowing Joy to invoice some portion of this work at an hourly rate of \$36.00/hour plus in-hole supplies. This would be subject to your approval and allow us some compensation whereas now we are sustaining a loss with the potential for even more. The \$36.00 per hour figure is suggested because that is our current rig time rate.

We rarely, if ever, ask for a concession of this nature; but we feel we have provided capable people and equipment and have shown good faith. We would appreciate your consideration in this matter.

Yours truly,

JOY MANUFACTURING COMPANY

J. H. Koontz, General Manager  
Drill Division  
Joy Machinery Company

JHK:js

page 114  
sheet 8

Hole A-11

| Date/Shift |    | Footage (Cum) | Depth of Shift | Remarks   |
|------------|----|---------------|----------------|---|
|            |    |               | 4470           | <u>Bx Core</u>  |
| 3/14       | D  | 15            | 4485           |   |
|            | A  | 24            | 4509           |   |
|            | GY | 16 (55)       | 4525           |   |
| 3/15       | D  | 10            | 4535           | Pulling for bit change @ 4535'  |
|            | A  | 4             | 4539           | finishing tripping rods; washed & drilled 2' case.  |
|            | GY | 15 (29)       | 4554           |   |
| 3/16       | D  | 4             | 4558           | was surveying hole; closed tanks.   |
|            | A  | 12 (16)       | 4570           | Pulled back to casing & put things away for wash  |
|            | GY | No Work       |                |   |
| Sat        |    | -             | -              |   |
| Seen       |    | -             | -              |   |
| 3/19       | D  | 7             | 4577           | 2 hrs delay shipped bits & got parts.   |
|            | A  | 10            | 4587           |   |
|            | GY | 7 (24)        | 4594           | (2 runs) <u>Rods stuck while closing tabs down.</u>   |
| 3/20       | D  | 0             |                | shook out oil, pumping oil & EZ pot, working rods   |
|            | A  | 0             |                | she working on stuck rods. (15 gal EZ pot, 55 gal diesel, 1 gal oil)                                  |
|            | GY | 0             | 4594           | she working on stuck rods (55 gal diesel oil)   |
| 3/21       | D  | 0             |                | she working to free stuck rods.   |
|            | A  | 0             |                | she working on stuck rods - some returns. (110 gal diesel)  |
|            | GY | 0             | 4594           | she working on stuck rods   |
| 3/22       | D  | 0             |                | she called office to discuss problem. Hauled diesel & block oil; put down 1 bbl block & 1 bbl diesel. |
|            | A  | 0             |                | she working on stuck rods.  |
|            | GY | 0             | 4594           | she working on stuck rods.  |
| 3/23       | D  | 0             |                | she worked rods free, pulled back 16 stands, washing <sup>hole</sup> out                              |
|            | A  | 1             | 4595           | (8 hrs) washed down 240' of rods; 9' of case in bottom.   |
|            | GY | 6 (17)        | 4601           | Pulled for bit change @ 4601; 2' case in each run.  |

No. 11



Hole A-11

| Date/Shift | Foodage   | Depth<br>of<br>strips | Remarks   |
|------------|-----------|-----------------------|---|
| 3/24 D     | 0         | 4601                  | shu on rods in hole, washing down; 30' of case of fall  |
| A          | 2         | 4603                  | drilled out 25' case; high water pressure; back off to <sup>release pressure</sup>  |
| GY         | 12 (14)   | 4615                  | cutting 2-5' of fall per run (3); pulled rods into casing   |
| Sunday     | -         | -                     |   |
| 3/26 D     | 3         | 4618                  | 2 hrs delay, hauled fuel & greased rods; ran in & washed from 4600; 5' of fall pipe   |
| A          | 7         | 4625                  | (2 runs) Mislatched, pulled rods for core   |
| GY         | 0 (10)    | 4625                  | shu changed bit & lowered rods, 5.5' case, washed 15 ft. <sup>changed out thin-line filters and dust</sup>  |
| 3/27 D     | 0         | <del>4625</del>       | shu washed down to 12' of bottom, very little return  |
| A          | 0         | <del>4625</del>       | (shu - pulled rods to recover, rained hole) <sup>3 hrs repair, new thin line</sup>  |
| GY         | 0 (0)     | 4625                  | shu made up rubber core barrel & new bit. lowered rod to 4040', tried to reel tube - <u>Tube stuck</u>  |
| 3/28 D     | 0         |                       | shu delay, <sup>no help, raining hard, removed sand</sup> inevitable, pulled back to casing, got gas at   |
| A          | 0 (0)     | 4625                  | washed & ran in 180' of hole, 300' off bottom, pulled for <sup>gas change</sup>   |
| GY         | No work?  |                       | (no report)   |
| 3/29 D     | 0         |                       | getting mud formula & chemical, washing out hole, 400' of rods & case, cleaned mud tanks  |
| A          | 0         |                       | Finished pulling rods, lowered in & drilled 2 hrs & washed in 210'; about 250' off bottom   |
| GY         | 0 (0)     | 4625                  | lowered rods w/ new bit, drilled out <sup>450' of case in hole</sup> case to 3938'  |
| 3/30 D     | 0         |                       | Pulled rods into casing, <sup>clean &amp; condition hole</sup> used for reaming bit to clean & condition hole. Started rods on out of hole  |
| A          | No report |                       |   |
| GY         | 0 (0)     | 4625                  | Washed & drilled out case to 4612'  |
| 3/31 D     | 0         |                       | washed & cleaning out hole to 4622'. Pulling rods to put in core barrel   |
| A          | 0         |                       | finished pulling rods, lowered in w/ new bit & washed down to 4599'. 26' of case  |
| GY         | 0 (0)     | 4625                  | 29' of case start of shift; drilled down 10' & pulled up & mix mud. 5' more case came in, drilled down 11'; pulled up to mix mud, 8' more case came in. removed 2 tanks mud to mud area; pulled into casing |
| Sunday     | -         | -                     | ? on why he had to stop to mix mud when he has 2 tanks?   |

Hole A-11

| Date/Shift | Footage  | Depth<br>End of<br>Shift | Remarks  |
|------------|----------|--------------------------|--|
| 4/2 D      | 0        |                          | Running rods from casing, sweeping down; 27' of sand & core.   |
| A          | 0        |                          | Holes over 7-10' every time rods are pulled to <sup>min</sup> level.   |
| GY         | 0 (0)    | 4625                     | Redrilling hole trying to drill out core.  |
| 4/3 D      | 0        |                          | washing & conditioning, bit to hold back sand; pulling rods to check bit, shell & core barrel.                       |
| A          | 0        |                          | Finished pulling rods, changed bit & shell; ground rods & lowered to bottom of casing.                               |
| GY         | 4 (4)    | 4629                     | finished lowering rods, washed & drilled 22' of core.  |
| 4/4 D      | 9        | 4638                     |  |
| A          | 7        | 4645                     | (slow flat faced bit).   |
| GY         | 11 (27)  | 4654                     |  |
| 4/5 D      | 13       | 4669                     |  |
| A          | 3        | 4672                     | Pulled rods & changed bit & core barrel @ 4672'.   |
| GY         | 0 (16)   | 4672                     | Lowered new bit, worked 4 hrs. in from 4669-4672'.   |
| 4/6 D      | 6        | 4678                     | changed oil & filter, changed mud tanks, hauled mud, bit wired out.  |
| A          | 0        | 4678                     | pulled rods & changed bit @ 4678', lowered 2740 in <sup>rod</sup> .  |
| GY         | 5 (11)   | 4683                     | Finished lowering rods in, washed & cut 3' of core.  |
| 4/7 D      | 13       | 4696                     |  |
| A          | 10 (23)  | 4706                     | Pulled rods back into casing; put everything away.   |
| GY         | No work. |                          |  |
| Sunday     | -        | -                        |  |
| 4/9 D      | 0        | 4706                     | hauled mud & chemical, ran rods in, washed & drilled 6 hrs @ 4654; 5' of core.                                       |
| A          | 13       | 4719                     |  |
| GY         | 9 (22)   | 4728                     |  |
| 4/10 D     | 14       | 4742                     | Raining, blowing, sleeting, & snowing.   |
| A          | 4        | 4746                     | Mistake, pulled rods, put on new bit @ 4746', started in.  |
| GY         | 0 (17)   | 4746                     | Finished lowering rods, started washing down 420' from bottom, started drilling core at 4649, (i.e. 97' off bottom). |

| Hole A-11   |         |                          |      |  |
|-------------|---------|--------------------------|------|--|
| Date/Shift. | Footage | Depth<br>End<br>of Shift |      | Remarks  |
| 4/11        | D       | 0                        | 4746 | Washed from 4649-4742, cleaned & mopped tanks.   |
|             | A       | 8                        | 4754 | Drilled 7' of case from bottom of hole.  |
|             | GY      | 7 (15)                   | 4761 | Pulled 30' of rods to put on new seal in several<br>had 4 1/2' of case to drill out.   |
| 4/12        | D       | 0                        |      | Unable to make bit penetrate; conditioned rods for 3 hrs,<br>pulled for bit change @ 4761.   |
|             | A       | 0                        |      | Loaded in new bit, excessive drilling; case 165' from bot.   |
|             | GY      | 0 (0)                    | 4761 | Drilled out case 167' from bottom, redrilled some case,<br>several times before next case reached. bit new and<br>cleaned mud tanks, washed & drilled to bottom - bit<br>shot, conditioner, but diff. pulling. |
| 4/13        | D       | 0                        |      |  |
|             | A       | 0                        |      | Washed 1 1/2 hrs prior to pulling, bit change, lowered<br>3700' in.  |
|             | GY      | 0 (0)                    | 4761 | Washed 2 hrs pulling everything away.  |
| Sat         |         |                          |      |  |
| Sun         |         |                          |      |  |
| 4/16        | D       | 0                        |      | Ran rods from 3700-4600, washed from 4600 to 4651.   |
|             | A       | 0 (0)                    | 4761 | Washed & drilled rods down from 4651 to 4685. Outside<br>gauge eye - pulled & cleaned bit, shell & barrel.   |
|             | GY      | No shift                 |      |  |
| 4/17        | D       | 0                        |      | Ran rods in to 4220', started for tubs, messed up some<br>2 hrs straightening it up; ran rod to 4640, <sup>condition</sup><br>circulation, pulling back.   |
|             | A       | 0 (0)                    | 4761 | Pulled back 60' & washed & drilled case to 4712', pulled into<br>casing.   |
|             | GY      | No shift                 |      |  |
| 4/18        | D       | 1                        | 4762 | Ran rods in to 4660', drilled & washed to bottom.  |
|             | A       | 15                       | 4777 | (2' settling in on each run (3))   |
|             | GY      | 12 (20)                  | 4789 |  |
| 4/19        | D       | 10                       | 4799 | 2 hrs surveying hole.  |
|             | A       | 0                        | 4799 | 2 1/2 hrs surveying hole, pulled rods for bit change<br>@ 4799.  |
|             | GY      | 0 (10)                   | 4799 | Grease & lowered rod; drilling, overwashing case at 4672.  |
| 4/20        | D       | 3                        | 4802 | Washed in from 4724-4799, some case on bottom.<br>clear & sand in walls.   |
|             | A       | 12                       | 4814 | (cleaning on drill).   |
|             | GY      | 9 (24)                   | 4823 | (slow, short runs).  |

Hole A-11

| Date/Shift | Footage | Depth of Shift | Remarks   |
|------------|---------|----------------|---|
| 4/21 D     | 7'      | 4830           |   |
| A          | 0       | 4830           | bit wouldn't go - pulled & changed <sup>as shell</sup> bit @ 4830.  |
| GY         | 0 (7)   | 4830           | Grease @ lowered to 3700; cleaned up & locked up for <sup>constant</sup>  |
| Sunday     | -       | -              |   |
| 4/23 D     | 0       | 4830           | Lowered to 465, reamed & cleaned to 4802.   |
| A          | 10      | 4840           | Drilled out 20' of case in bottom.  |
| GY         | 5 (15)  | 4845           | Made 5' run, couldn't latch on tube, put on brass casing - still couldn't latch, started pulling out, made break at 283' from top, tried to top in.                     |
| 4/24 D     | 0       | 4845           | Topped in, removed broken rod, <sup>pulled tube</sup> washing in.   |
| A          | 0       | 4845           | Drilled & washed 17' of case, bit work shot, <sup>for bit of</sup> pulled.  |
| GY         | 0 (0)   | 4845           | Greased & lowered to 4640; washed from 4729 <sup>to</sup> case to 4736. <sup>drilled</sup>  |
| 4/25 D     | 0       | 4845           | Washing in to 4840 w/ new bit.  |
| A          | 10      | 4855           | Drilled 5' of case to bottom.   |
| GY         | 2 (12)  | 4857           | <del>3 1/2 hrs drilling</del> Bit stopped. Reduced to AX102 by leaving 4857' of rod, core barrel, shell, & bit in hole. (3 1/2 hrs "casing") (1 hr cleaning mud tanks). |
| 4/26 D     |         |                | 8 hrs casing, <sup>cleaning</sup> made up <del>3</del> AX <del>for total</del>  |
| A          |         |                | 8 hrs casing, made up 3550' AX for total 4580'  |
| GY         | 0       | 4857           | 8 hrs lowering rods & cleaning out inside casing  |
| 4/27 D     | 0       | 4857           | 8 hrs delay, pulled rods to make sure of cement OK, running rods in hole.   |
| A          | 4       | 4861           | 5 hrs delay lowered 2900' & drilled thru BX bit.  |
| GY         | 6 (10)  | 4867           | (short run) Put everything away for weekend.  |
| Sat.       |         |                |   |
| Sun        |         |                |   |

3 1/2 hrs casing time just

AX

ms

Hole A-11

| Date/Shift | Footage | Depth<br>End<br>of Shift | Remarks  |
|------------|---------|--------------------------|--|
| 4/30 D     | 0       | 4867                     | Unable to start pump engines. Changed starter, did work, called Timon & got heavy duty starter - OK.   |
| A          | 6       | 4873                     | 2 hrs delay awaiting on stands for pump engines; 1/2 hr repair putting it on.  |
| GY         | 0 (6)   | 4873                     | Tried making run. Pulled for bit change @ 4873, stuck in gearing, rods.  |
| 5/1 D      | 4       | 4877                     | Ran in 200' of rods, circulated to equalize, lost core in rods, 1050' back in hole.  |
| A          | 0       | 4877                     | Pulled rods to recover core, changed bit shell, lower  |
| GY         | 8 (12)  | 4885                     | Lowered 3500' after bit change @ 4877.   |
| 5/2 D      | 13      | 4898                     | (Lower 5' of 13')  |
| A          | 6       | 4904                     | Chased tube down at start of shift, made 3 1/2' run but no core; chased 2nd run 2 1/2', still no core. Started pulling.  |
| GY         | 0 (19)  | 4904                     | Pulled 3100' for mistake. Lowered & passed bit.  |
| 5/3 D      | 0       | 4904                     | Called workover for stuff - not level from Timon; repaired connections, pulled tube, lower to bottom, put tube   |
| A          | 7       | 4911                     | (Chasing tube every run (3)).  |
| GY         | 9 (16)  | 4920                     |  |
| 5/4 D      | 2       | 4922                     | Sanding in at 4922, tube sand in, couldn't plug - pulled rods. Closed circulation valve.   |
| A          | 4       | 4926                     | Tube was down at start of shift but not latched. Pulled rods to get core, changed bit (Keep 0.2' of 4').   |
| GY         | 4 (10)  | 4930                     | Ground & lowered rods, washed & cut 5' of core.  |
| 5/5 D      | 3       | 4933                     | (Replaced wear ring & packing in service).   |
| A          | 2       | 4935                     | Chased tube 2nd time, couldn't get circulation, pulled tube out. Cleared hole w/ new rods.   |
| GY         | 3 (8)   | 4938                     | Chased tube & made 3' core run, no core, pulled rods & recovered 1/2' of core.   |
| Seen       | -       | -                        |  |
| 5/7 D      | 0       | 4938                     | 3 1/2 hrs delay hauling mud, chemicals, & grease (No help); 4 1/2 hrs open stands (dell), friction band, servicing rig.  |
| A          | 0       | 4938                     | Lowered rod, hit bind at 4885, dell & reworked to 4930.  |
| 5/8 D      | 0       | 4939                     | Washed & worked 29 1/2' of core to bottom. Had to rod pull bottom 10' three times (sand comes in). Pumping hole, tube sand in. Unable to hold tube contacted all - changing mud & losses system. |
| A          | 0       |                          | Stalled pulling, with stand, cleaned mud tanks.  |
| GY         | 0 (0)   | 4939                     | Lowered 3570, plugged new mud. Raining all shift.  |

Specimen  
not made  
date 5/3

\*

# Hole A-11.

| Date/Shift. | Footage        | Depth<br>End of<br>Shift | Remarks  |
|-------------|----------------|--------------------------|--|
| ✓ 5/9 D     | ⊖              |                          | Conditioning hole - got to 62' of bottom.  |
| A           | ⊖              |                          | Wouldn't go past bridge, pulled out on barrel<br>casing in 4700'   |
| GY          | ⊖ (⊖)          | 4939                     | Lowered to 4900, washed & drilled case to 4929.  |
| 5/10 D      | ⊖              |                          | Washed & drilled to 4939, one spot still coming in,<br>reamed several times w/s 4' bit                                   |
| A           | ⊖              |                          | Wouldn't cement on bottom pulled into casing<br>& washed to 4930. Writing on wedge.                                      |
| GY          | ⊖ (⊖)          | 4939                     | Drilled & washed case from 4930 to 4939, Reamed up<br>3 times, hole closed & stay open each time.                        |
| 5/11 D      | ⊖              |                          | 2 hrs survey time / 3 hrs delay for wedge. <sup>at hole</sup> <sup>from in</sup>   |
| A           | ⊖              |                          | 4 hrs survey time setting wedge (at 4930±).<br>1 bag cement, pressure up, set up in rods.                                |
| GY          | ⊖ (⊖)          | 4939                     | Pulled wet stands; cement in 270' of rods. <sup>cleared out</sup> 20 ft  |
| Set         | -              | -                        |  |
| Sunday      | -              | -                        |  |
| 5/12 D      | ⊖              |                          | <sup>day</sup> Called Tuesday, decided to cement out & cement case;<br>cleared cement from 20' - wedge. Started in hole. |
| A           | ⊖              | (4909)                   | Finished lowering rods & washed from 4970 to 4909 -<br>10 ft above top of wedge.   |
| GY          | No shift       |                          | called in wouldn't be out.   |
| ✓ 5/15 D    | ⊖              | (4920±)                  | Washed out hole to wedge. <u>Mixed 2 bags Portland</u><br><u>&amp; pumped down.</u>                                      |
| ✓ 5/15 A    | ⊖              |                          | Finished pumping cement down - pulled rods out   |
| GY          | No shift crew. |                          |  |
| ✓ 5/16 D    | ⊖              |                          | Writing on cement to set. Cleared cement from 5 rods,<br>Ran 2200 rods in hole & washed.                                 |
| ✓ 5/16 A    | ⊖              |                          | Lowered & washed (in 750' jumps) to 4330'.   |
| GY          | No shift crew. |                          |  |
| ✓ 5/17 D    | ⊖              |                          | Washed rods down to 4784'. Hit some cement<br>at 4657-4784; not hard, not solid.   |
| ✓ 5/17 A    | ⊖              |                          | Washed out cement bridge 4784 to 4847. 10' up<br>from bottom of casing.  |
| GY          | No shift crew. |                          |  |
| ✓ 5/18 D    | ⊖              |                          | Cleaning mud tanks, waiting for cement to set,<br>washing out hole.  |
| ✓ 5/18 A    | ⊖              |                          | 4 1/2 hrs worked - waiting for cement to set.  |
| GY          | No shift crew. |                          |  |

Hole A-11

| Date/Shift                                | Footage                 | Depth<br>End of<br>Shift | Remarks   |
|---|-------------------------|--------------------------|---|
| Sat                                       | -                       | -                        |   |
| Sun                                       | -                       | -                        |   |
| 5/21 D                                    | 0                       |                          | Drilled out cement from casing <sup>bottom of</sup> (4857) to 4874' (17')   |
| A   | 0                       |                          | Drilled out cement from 4874 to 4896 (22')  |
| GY  | 0 (0)                   | (4924)                   | Drilled out cement from 4896 to 4923' (4' along side of wedge).   |
| Use this point as new wedge hole start. ? |                         |                          |   |
| 5/22 D                                    | 0                       | (4924)                   | Cleaned drill tanks, mixed new mud, pulled for shell & bit change. Ran 2250 in hole.                                  |
| A   | 4                       | (4928)                   | Finished laminating rods, drilled 9' of case, made two runs, recovered 3 1/2' of case from 4924-28.                   |
| GY  | 2                       | (4930)                   | Made 2' run, got 2" core, water pressure high, couldn't make 2nd run, pulled tube out, pumped <sup>4 gal.</sup> this. |
| 5/23 D                                    | 4                       | 4934                     | Drilling by wedge.  |
| A   | 6                       | 4940                     |   |
| GY  | 6 (16)                  | 4946                     | Pulled 3300' out for bit change @ 4946'.  |
| 5/24 D                                    | 0                       | 4946                     | Pulled 1650' rods, changed bit, rebuilt <sup>important's here;</sup> laminated rods.                                  |
| A   | 6                       | 4952                     | Drilled 7' of case from bottom plus 2-3' per run (3)  |
| GY  | 0 (6)                   | 4952                     | 2 hrs pulling into casing - No help.  |
| 5/25 D                                    | 2                       | 4954                     | Cleaned tanks, unable to penetrate before blocking.   |
| A   | 7 (9)                   | 4961                     | Pulled rods back to casing.   |
| GY  | Driller sick - No shift |                          |   |
| 5/26 D                                    | 3                       | 4964                     | Takes 2 runs to clean out hole each morning.  |
| A   | 5 (8)                   | 4969                     | Pulled rods back to casing & put things away.   |
| GY  | No shift                |                          |   |
| 5/27                                      | Sunday                  |                          |   |
| 5/28                                      | Holiday                 |                          |   |
| 5/29 D                                    | 5                       | 4974                     |   |
| A   | 1 (6)                   | 4975                     | Pulled for bit change @ 4975', covered 2550' rods.  |
| GY  | No shift                |                          |   |

? why hole cleaning & consolidation after bit change?





SUPERIOR EAST - JOY MFG. CO.

7-24-79

CONF. W/ LOIS

| <u>MONTH</u><br>(PERIOD ENDING) | <u>EST</u><br>(JDS)                | <u>INVOICE</u> |
|---------------------------------|------------------------------------|----------------|
| MAY 25                          | \$ 11,000.00 (JDS)                 | \$ 18,244.42   |
| JUN 25                          | 10,000.00 (NPID)                   | 18,075.18      |
| JUL 25                          | 11,758.25 (JDS)<br>+ REAMING SHELL |                |



# JOY MANUFACTURING COMPANY

OLIVER BUILDING  
PITTSBURGH, PENNSYLVANIA 15222

PLEASE REMIT TO  
P. O. BOX 360135M  
PITTSBURGH, PA. 15250

|                      |          |           |               |      |               |         |
|----------------------|----------|-----------|---------------|------|---------------|---------|
| CUSTOMER'S ORDER NO. | DATE     | REQ. NO.  | OUR ORD'R NO. | DATE | AT REC. POINT | B.O.NO. |
| CONTRACT             | 99 69 05 | 03 02 209 |               | DATE | AT SHIP POINT |         |

C.D.N.  
JUN 11 1979

02250

SOLD TO

Asarco Inc.  
P. O. Box 5747  
Tucson, AZ 85703

Attn: Mr. N. P. Whaley

TERMS NET 30 DAYS  
NO CASH DISCOUNT

INVOICE NO. 52117532

INVOICE DATE 6/6/79

SHIPPED TO

Superior, AZ

PLEASE REMIT TO  
P. O. BOX 360135M  
PITTSBURGH, PA. 15250

DATE SHIPPED

SHIPPED VIA

P. O. ADDRESS

MARKS

REQUESTED ROUTING

SHIPPED FROM

Michigan City

| ORIGINAL QUANTITY ORDERED | PART NUMBER                      | DESCRIPTION  | CODE | UNIT PRICE        | QUANTITY BACK ORDERED | QUANTITY SHIPPED  | AMOUNT   |
|---------------------------|----------------------------------|--|------|-------------------|-----------------------|-------------------|----------|
|                           |                                  | To 104.' core drilling at Superior, AZ for period ending May 25, 1979 as per agreement.  |      |                   |                       |                   |          |
|                           | <u>PROSPECT NO.</u>              | <u>FROM</u> <u>TO</u>  |      | <u>TOTAL FEET</u> | <u>UNIT COST</u>      | <u>TOTAL COST</u> |          |
|                           | A-11                             | AX 4857. 4961.   |      | 104.              | Hourly                |                   |          |
|                           | <u>CEMENTING AND/OR PLUGGING</u> |  |      |                   |                       |                   |          |
|                           | A-11                             | May 11 12 hours<br>May 15 16 hours<br>May 14 8 hours<br>May 16 16 hours<br>May 17 16 hours<br>May 18 16 hours<br>May 21 24 hours<br>May 22 8 hours |      |                   |                       |                   |          |
|                           |                                  | 116 hours @ \$30.00/hour   |      |                   |                       |                   | 3,480.00 |
|                           | <u>SET &amp; PULL CASING</u>     |  |      |                   |                       |                   |          |
|                           | A-11                             | April 26 24 hours @ \$30.00/hour   |      |                   |                       |                   | 720.00   |
|                           | <u>SURVEY TIME</u>               |  |      |                   |                       |                   |          |
|                           | A-11                             | May 11 6 hours @ \$30.00/hour  |      |                   |                       |                   | 180.00   |

**DUPLICATE**

09007

F. O. B. SHIPPING POINT UNLESS OTHERWISE SPECIFIED  
NO RETURNS ALLOWED UNLESS AUTHORIZED BY THIS OFFICE

GOODS COVERED BY THIS INVOICE WERE PRODUCED IN COMPLIANCE WITH THE REQUIREMENTS OF THE FAIR LABOR STANDARDS ACT OF 1938, AS AMENDED, INCLUDING SECTION 12(A).

# JOY MANUFACTURING COMPANY

PAGE NO. 2

**SOLD**

Asarco Inc.

|               |               |               |          |                         |
|---------------|---------------|---------------|----------|-------------------------|
| OUR ORDER NO. | AT REC. POINT | AT SHIP POINT | B.O. NO. | INVOICE NO.<br>52117532 |
|---------------|---------------|---------------|----------|-------------------------|

| ORIGINAL QUANTITY ORDERED  | UNIT | PART NUMBER | DESCRIPTION                         | CODE | UNIT PRICE | QUANTITY BACK ORDERED | QUANTITY SHIPPED | AMOUNT   |
|--|------|-------------|-------------------------------------|------|------------|-----------------------|------------------|----------|
| <u>MUD AND ADDITIVES USED</u>  |      |             |                                     |      |            |                       |                  |          |
|  |      |             | 15 50# bags drilling mud @ \$4.00   |      |            |                       |                  | 60.00    |
|  |      |             | 1 50# bag CC-16 @ \$30.19           |      |            |                       |                  | 30.19    |
|  |      |             | 1 50# bag Cellex @ \$191.92         |      |            |                       |                  | 191.92   |
|  |      |             | 6 50# bags Dextrid @ \$79.04        |      |            |                       |                  | 474.24   |
|  |      |             | 1 40# bag Hyseal @ \$21.62          |      |            |                       |                  | 21.62    |
|  |      |             | 1 94# bag Lumnite cement @ \$18.56  |      |            |                       |                  | 18.56    |
|  |      |             | 2 94# bags Portland Cement @ \$6.23 |      |            |                       |                  | 12.46    |
|  |      |             | 1 5 gal. can B-33 @ \$58.97         |      |            |                       |                  | 58.97    |
|  |      |             | 3 bags Lo Loss @ \$166.16           |      |            |                       |                  | 498.48   |
|  |      |             | 2 bags walnut flour @ \$21.24       |      |            |                       |                  | 42.48    |
|  |      |             |                                     |      |            |                       | Total mud        | 1,408.92 |
| <u>CORE BOXES USED</u>   |      |             |                                     |      |            |                       |                  |          |
|  |      | A-11        | 8 cardboard core boxes @ \$1.50     |      |            |                       |                  | 12.00    |
| <u>WATER TRUCK RENTAL</u>  |      |             |                                     |      |            |                       |                  |          |
|  |      | A-11        | April 26 thru May 25                |      |            |                       |                  |          |
|  |      |             | 1 truck @ \$360.00/month            |      |            |                       |                  | 360.00   |
|  |      |             | 65 miles @ \$.40/mile               |      |            |                       |                  | 26.00    |
| <u>WEDGING TIME AND DRILLING BY WEDGE</u>  |      |             |                                     |      |            |                       |                  |          |
|  |      | A-11        | May 10 8 hours                      |      |            |                       |                  |          |
|  |      |             | May 11 3 hours                      |      |            |                       |                  |          |
|  |      |             | May 22 16 hours                     |      |            |                       |                  |          |
|  |      |             | May 23 16 hours                     |      |            |                       |                  |          |
|  |      |             | 43 hours @ \$36.00/hour             |      |            |                       |                  | 1,548.00 |
| <u>DEFLECTING WEDGE</u>  |      |             |                                     |      |            |                       |                  |          |
|  |      |             | 1 #19488 AX deflecting wedge        |      |            |                       |                  | 465.50   |
| <u>RIG TIME</u> (Submitted for your approval per J. H. Koontz letter to N. P. Whaley dated May 14, 1979. Note that this amount is in lieu of footage charges which would have amounted to \$2,766.40 for this same period) |      |             |                                     |      |            |                       |                  |          |
|  |      |             | April 27 11 hours                   |      |            |                       |                  |          |
|  |      |             | April 30 13½ hours                  |      |            |                       |                  |          |
|  |      |             | May 1 24 hours                      |      |            |                       |                  |          |

# JOY MANUFACTURING COMPANY

PAGE NO. 3

**SOLD**

Asarco Inc.

|               |               |               |          |                         |
|---------------|---------------|---------------|----------|-------------------------|
| OUR ORDER NO. | AT REC. POINT | AT SHIP POINT | B.O. NO. | INVOICE NO.<br>52117532 |
|---------------|---------------|---------------|----------|-------------------------|

| ORIGINAL QUANTITY ORDERED | UNIT | PART NUMBER | DESCRIPTION          | CODE | UNIT PRICE     | QUANTITY BACK ORDERED | QUANTITY SHIPPED | AMOUNT              |
|---------------------------|------|-------------|----------------------|------|----------------|-----------------------|------------------|---------------------|
|                           |      |             | RIG TIME (continued) |      |                |                       |                  |                     |
|                           |      |             | May 2                |      | 24 hours       |                       |                  |                     |
|                           |      |             | May 3                |      | 20 hours       |                       |                  |                     |
|                           |      |             | May 4                |      | 24 hours       |                       |                  |                     |
|                           |      |             | May 5                |      | 24 hours       |                       |                  |                     |
|                           |      |             | May 7                |      | 19½ hours      |                       |                  |                     |
|                           |      |             | May 8                |      | 24 hours       |                       |                  |                     |
|                           |      |             | May 9                |      | 24 hours       |                       |                  |                     |
|                           |      |             | May 10               |      | 16 hours       |                       |                  |                     |
|                           |      |             | May 11               |      | 7 hours        |                       |                  |                     |
|                           |      |             | May 14               |      | 8 hours        |                       |                  |                     |
|                           |      |             | May 23               |      | 8 hours        |                       |                  |                     |
|                           |      |             | May 24               |      | 16 hours       |                       |                  |                     |
|                           |      |             | May 25               |      | 16 hours       |                       |                  |                     |
|                           |      |             | 279 hours            |      | @ \$36.00/hour |                       |                  | 10,044.00           |
|                           |      |             |                      |      |                |                       |                  | \$18,244.42         |
|                           |      |             |                      |      |                |                       |                  | Credit (-) 5,015.60 |
|                           |      |             |                      |      |                |                       |                  | # 13,228.82         |

See NPW letter  
memo of 11/15/79

Recap My thoughts JDS

FR/JDS  
1-6-79  
NPW

- 4/26 ✓ 24 hrs casing time connecting from BX to AX
  - 4/27 ✓ 10' core (from 4857 → 4867)  
Sat 4/28  
Sun 4/29
  - 4/30 ✓ 6' core (4867-4873)
  - 5/1 ✓ 12' core (4873-4885)
  - 5/2 ✓ 19' core (4885-4904)
  - 5/3 ✓ 10' core (4904-4920)
  - 5/4 ✓ 10' core (4920-4930)
  - 5/5 ✓ 8' core (4930-4938)
- OR 13 1/2 hrs rig time
- Good --  
PERIOD COULD PROVIDE AN AREA FOR  
NEGOTIATION THAT WOULD NOT INVOLVE  
AN ARGUMENT RELATED TO PERSONNEL  
OR DRILLER JUDGMENT. NPW
- OR 24 hrs rig time
- 5/6 Sunday 19 1/2 hrs, OK??
  - 5/7 ✓ 10 hrs rig time (cleaning hole - No API helper),  
5/8 ✓ 24 hrs rig time, cleaning & changing to holes
  - 5/9 ✓ 24 hrs rig time, conditioning hole to 4929
  - 5/10 ✓ 24 hrs rig time, cleaning hole for setting wedges.
  - 5/11 6 hrs sawing time  
3 hrs wedge time  
12 hrs cement time } 3 hrs delay waiting on wedge.
  - 5/12 Sat Wedge bottom @ 4930, top @ 4920 1/2.
  - 5/13 Sun
  - 5/14 ✓ 4 hrs ? delay time (getting act together for another cement  
12 hrs cement time. No GY
  - 5/15 ✓ 16 hrs cement time " "
  - 5/16 ✓ 16 hrs cement time " "
  - 5/17 ✓ 16 hrs cement time " "
  - 5/18 ✓ 12 1/2 hrs cement time " " AGREE  
Mistake went home early.
  - 5/19 Sat
  - 5/20 Sun
  - 5/21 ✓ 24 hrs cement time
  - 5/22 ✓ 24 hrs drilling by wedge to 4930 (1' of core).

5/23 ✓ 16' core (4930-4946)

5/24 ✓ 6' core (4946-4952)

5/25 ✓ 9' core (4952-4961)

AMU PMU worked GY no helper worked this  
No GY shift. ✓

Coreting &/or Plugging:

|      |   |
|------|---|
| 5/11 | 12 hrs ✓                                  |
| 5/14 | 12 hrs ✓                                  |
| 5/15 | 16 hrs ✓                                  |
| 5/16 | 16 hrs ✓                                  |
| 5/17 | 16 hrs ✓                                  |
| 5/18 | 12 1/2 hrs ✓                              |
| 5/21 | 24 hrs ✓                                  |
|      | <u>108 1/2 hrs @ \$30<sup>00</sup>/hr</u> |

= 3,255.00

Set & Pull Casings

4/26 24 hrs @ 30<sup>00</sup>/hr

= 720.00

Survey Time

5/11 6 hrs @ 30<sup>00</sup>/hr

= 180.00

Working Time and Drilling by Woods.

5/11 3 hrs ✓

5/22 24 hrs ✓

27 hrs @ 36<sup>00</sup>/hr

= 972.00

Reg Time (OR, 16 HRS)

5/7 19 1/2 hrs.  
5/8 24 hrs ✓  
5/9 24 hrs ✓  
5/10 24 hrs ✓

91 1/2 hrs @ 36.00/hr = 3,294.00  
~~(OR, 88 HRS @ 36.00/hr = 3,168.00)~~

Footage:

4857-4939 = 82 ft  
4930-4961 = 31 ft

FINE, YOU'RE GIVING THEM A BEST CASE

113 ft @ \$26.60/ft = 3,005.80

Core boxes 8 @ 1.50 as shown originally = 12.00  
Mud & additives as shown originally = 1,408.92  
Water Truck rental & release as shown orig = 386.00  
Reflecting Wedge 1, as shown originally = 465.50

① \$13,699.22

② Note: Using rig time on 4/30 & 5/6 calculations  
footage would be: ~~(plus 37 1/2 hrs x 36.00) and~~  
~~(minus (11 x 26.60) OR GT of \$14,674.82~~

1/5 \$18,244.42 Invoice

Invoiced Charges  
ending May 25, 1979  
# 52117582  
6/6/79

5

15

4/24

24 hrs Set & Pull Casing - 30° OK (making up AX-rod)

4/27

11 hrs rig time @ 30°

start 4857

10 core, rest of day on "delay"  
should be dull time

Sat

Sun



|      |   |             |  |
|------|---|-------------|--|
| 4/30 | 13 1/2 hrs rig time                             |             | ? <u>6' core</u> , rest of time on "delay" stand hit change should be drill time   |
| 5/1  | 24 hrs rig time                                 |             | 12' core finished bit change; <sup>(core in rods)</sup> pulled for another should be drill time  |
| 5/2  | 24 hrs rig time                                 |             | 19' core, one mislabeled pull should be drill time   |
| 5/3  | 20 hrs rig time                                 |             | 14' core; 4 hrs delay calling Tex for supplies. should be drill time   |
| 5/4  | 24 hrs rig time                                 | Sept 4 1930 | 10' core; sand coming in @ 4922 pulled for change. should be drill time  |
| 5/5  | 24 hrs rig time                                 |             | ? <u>8' core</u> , chasing tube, cleared out tube, new mud; pulled rods to recover core. should be drill time  |
| Seen |   |             |  |
| 5/7  | 17 1/2 hrs rig time<br>16 hrs rig time cleaning |             | <del>crossed off 3 1/2 delay</del><br>1'; No help on AM <sup>(3 hrs hauling supplies)</sup> <sup>(4 hrs repair on stack)</sup><br><u>16 hrs</u> pulling out sand & core. <del>should be drill time</del> |
| 5/8  | 24 hrs rig time                                 | OK          | 0', changed to Sohoss system, pulled wet stand, pumped new mud; raining.   |

5/9 24 hrs rig time OK (4939) Conditioning hole, got to 4929.

5/10 16 hrs rig time 8 hrs wedging time (36°) OK cleaning hole for setting wedge.

5/11 7 hrs rig time 12 hrs cementing 6 hrs survey time 3 hrs ~~drilling~~ wedge time 28 hrs. ~~3 hrs delay on wedge~~ ~~6 hrs running survey~~ ~~3 hrs running in hole/wedge~~ 12 hrs cementing (bleemint) set up in rods 2 hrs

Bottom of wedge @ 4930 ; top @ 4920 1/2

Sat Sun

5/14 8 hrs cementing No GY 8 hrs rig time should be same (4939) delay ~~time~~ as rest of cement time 6-7 hrs delay colling TUC - decided to cement again; cleaned cement from 20 rods; started in. PM finished going in & washed from 4870-4909 (10' above wedge).

5/15 16 hrs cementing No GY OK washed to wedge & pumped 2 sacks full

5/16 16 hrs cementing No GY OK waiting on cement to set; cleared rods; lowered & washed to 4330.

5/17 16 hrs cementing No GY OK washed down to 4784; hit soft cement at 4657-4784. ; bridge cement at 4784-847

5/18 16 hrs cementing No GY ~~equipment~~ ~~cleaned~~ ~~only~~ ~~all~~ ~~12 1/2~~ ~~hrs~~ ~~cement~~ ~~time~~ cleaning tanks, waiting on cement to set PM shift only worked 4 1/2 hrs & went home

Set  
Sun

5/21

24 hrs cementing

OK  
(4923)

Drilled out cement 4857 - 4923 along side of wedge.

5/22

8 hrs cementing  
16 hrs drilling by wedge.

OK?  
OK?  
(4930)

AM cleaned tanks, mixed mud, pulled for bit change  
PM GY mad 7' core with high pressure, pulled  
tubs pumped their mud.

5/23

16 hrs drilling by wedge.  
8 hrs rig time

new  
core, probably  
should set the drill time

16' core, pulling for bit change @ 4946

5/24

16 hrs rig time

drill  
time

6' core AM & PM finished change & drilled  
GY worked 2 hrs pulling into casing,  
as he had NO HELPER.

5/25

16 hrs rig time  
NO GY

(4941)  
drill  
time

9' core cleaned tanks, core blocking,  
pulled into casing as no GY shift

5/26

No GY.

8' core, 2 runs to clean hole in AM,  
pulled into casing & put things away  
for a weekend. No GY.

Sun

Whole days

5/29

No GY

6' core, pulled for bit change @ 4975'  
No GY

Recap      My Thoughts JD

- 4/24      24 hrs casing time converting from BX to AX
- 4/27      10' core (from 4857 → 4867)
- Sat 4/28
- Sun 4/29
- 4/30      6' core (4867-4873)      OR      13 1/2 hrs rig time
- 5/10      12' core (4873-4885)
- 5/2      19' core (4885-4904)
- 5/3      16' core (4904-4920)
- 5/4      10' core (4920-4930)
- 5/5      8' core (4930-4938)      OR      24 hrs rig time
- 5/6 Sunday      19 1/2 hrs OK??      # of core @ 4939
- 5/7      7 hrs rig time (cleaning hole - No AM helper).
- 5/8      24 hrs rig time, cleaning & changing to biters
- 5/9      24 hrs rig time, conditioning hole to 4929
- 5/10      24 hrs rig time, cleaning hole for setting wedge.
- 5/11      { 6 hrs snavey time }  
                  { 3 hrs wedge time }      3 hrs delay waiting on wedge.  
                  { 12 hrs cement time }
- 5/12 Sat      Wedge bottom @ 4930, top @ 4920 1/2.
- 5/13 Sun
- 5/14      4 hrs ? delay time (getting act together for another cement job).  
                  12 hrs cement time.      No GY
- 5/15      16 hrs cement time      " "
- 5/16      16 hrs cement time      " "
- 5/17      16 hrs cement time      " "
- 5/18      12 1/2 hrs cement time      " "      PM shift went home early.
- 5/19 Sat
- 5/20 Sun
- 5/21      24 hrs cement time
- 5/22      24 hrs dulling by wedge to 4930 (7' of core).

Off  
only

5/23 16' core (4930-4946)

5/24 6' core (4946-4952)

AM & PM worked GY no helper worked this.

5/25 9' core (4952-4961)

No GY shift.

Cementing &/or Plugging:

5/11 12 hrs.

5/14 12 hrs

5/15 16 hrs

5/16 16 hrs

5/17 16 hrs

5/18 12 1/2 hrs.

5/21 24 hrs

108 1/2 hrs @ 30<sup>00</sup>/hr

= 3,255.00

Set & Pull Casings

4/24 24 hrs @ 30<sup>00</sup>/hr

= 720.00

Survey Time

5/11 6 hrs @ 30<sup>00</sup>/hr

= 180.00

Welding Tens and Drilling by Weeks.

5/11 3 hrs.

5/22 24 hrs

27 hrs @ 36<sup>00</sup>/hr

= 972.00

Reg Time

|      |                   |                        |
|------|-------------------|------------------------|
| 5/7  | 19 1/2 hrs.       |                        |
| 5/8  | 24 hrs            |                        |
| 5/9  | 24 hrs.           |                        |
| 5/10 | 24 hrs.           |                        |
|      | <u>91 1/2 hrs</u> | @ 36 <sup>00</sup> /hr |
|      |                   | = 3,294.00             |

Footage:

|           |   |               |                         |
|-----------|---|---------------|-------------------------|
| 4857-4939 | = | 82 ft         |                         |
| 4930-4961 | = | 31 ft         |                         |
|           |   | <u>113 ft</u> | @ \$26.60/ft = 3,005.80 |

|                                |                       |          |
|--------------------------------|-----------------------|----------|
| Cone boxes 8 @ 1 <sup>50</sup> | as shown originally = | 12.00    |
| Mud & additives                | as shown originally = | 1,400.92 |
| Water Truck rental & mileage   | as shown orig =       | 386.00   |
| Reflecting Wedge 1,            | as shown originally = | 465.50   |

\$13,699.22

(Note: Using rig time on 4/30 & 5/5 & deducting  
 footage would be: <sup>\$1,350.00</sup> (plus 37 1/2 hrs x 36<sup>00</sup>) and  
<sup>\$372.40</sup> (minus (14' x 26.60)) OR GT of \$14,674.82

VS \$18,244.42 Invoice

May 11. D.

A

GY

2 hrs survey time; 3 hrs wedge delay 3 hrs going in hole.

4 hrs survey time & set wedge. The cementing (cement)

~~The wait pull - cement inside rods.~~

X 6 hrs survey time OK

X 12 hrs cementing OK cement didn't work.

X 3 hrs wedging time OK ?

but then they add on Rig Time for 7 hrs. but only have 3 hrs delay time left in day.

May 14

D

8 hrs calling Tuesday & deciding to cement again, cleaned out cement from rods, started in hole.

A

8 hrs waiting to 10' above wedge

GY No work

They charged 8 hrs to cement & 8 hrs to rig time  
I think it should all be cement time  
as they cemented again on 15B

May 18 Waiting on cement to set, No GY shift so PM shift went home 3 1/2 hrs early & closed down for weekend. Should they charge us for time not at rig? (see cementing)

After setting wedge, cementing twice, & cleaning hole to 4923 (ie 4' along side of wedge) by the end of GY on 21<sup>st</sup>.

May 21<sup>st</sup> - changed to cementing, OK.

May 22 D 8 hrs cleaning, tarbo & pulling, bit change.

A 4 hrs lowering rods & cleaning case.

4 hrs cutting core from 4924-4928

GY 8 hrs cutting 2' core from 4928-4930

May 23 D 8 hrs coring 4'

A 8 hrs coring 6'

GY 8 hrs coring 6' & pulling for bit change.

May 24 D 8 hrs, no core, all bit change.

A 8 hrs coring 6', some case.

GY 2 hrs pulling into casing - No helper.

May 25 D 8 hrs, coring 2', necessary to clean hole to get started

A 8 hrs coring 7', pulled into casing as No GY.

GY - No GY, helper sick.

37' of core  
4924  
to  
4961

Possibly the above could be negotiated with shus on the 22<sup>nd</sup> to rig or wedging time, but from then on possibly to be core only time as that was what they were doing with no problems other than bit changes & No helper on GY!

changed to cementing, OK

changed to wedging time

changed to wedging

changed to Rig Time

changed to rig time

changed to rig time



After conversion to AX & getting thru BX bit.  
Apr. 27 10' core in 11 hrs. <sup>rest of time on delay</sup> No problems  
set

See

April 30 6' of core in 13 1/2 hrs, rest of time on delay No problems

May 1 12' of core w/ bit change - No problems.

2 19' w/ mistakes

3 16 w/ 4 hrs calling Texon for supplies

4 10 sand coming in 1<sup>st</sup> of problems

73 feet @ \$26.00 = \$1,941.80

from 4857- 4930

NS 11, 13 1/2, 24, 24, 20, 24 hrs rig time = 116 1/2 hrs @ 36.00 = \$4,194.00

Possible to negotiate this portion of bill.

~~On May 22-24-25 after dulling by wedge  
they recovered 16' + 6' + 9' of core = 31' @ 26.00 = \$824.00  
ie 4930 - 4961 with no problems  
except bit changes & No GY for 24 1/2 + 25 1/2  
8 + 16 + 16 = 30 hrs @ 36.00 = \$1080.00  
Rig time~~

Perhaps this too could be negotiated??

# JOY MANUFACTURING COMPANY

## STATISTICAL COPY - CREDIT MEMORANDUM

|  |  |      |     |         |      |      |       |               |     |               |  |                             |  |
|--|--|------|-----|---------|------|------|-------|---------------|-----|---------------|--|-----------------------------|--|
| CUSTOMER'S ORDER NO.<br><b>T-212-8</b> |  | DATE |     | REQ NO. |      | DATE |       | AT REC. POINT |     | B. O. NO.     |  | ORIGINAL INVOICE NO.        |  |
| CONTRACT                               |  | SLIP | MIN | BRANCH  | SHIP | PT   | STATE | IND.          | TAX | OUR ORDER NO. |  | DATE                        |  |
|  |  | 99   | 69  | 05      | 03   | 02   | 209   |               |     |               |  | AT SHIP POINT<br><b>418</b> |  |
|  |  |      |     |         |      |      |       |               |     |               |  | ORIGINAL INVOICE DATE       |  |

02250

CREDIT TO

Asarco, Inc.  
P. O. Box 5747  
Tucson, AZ 85703

Attn: Mr. N. P. Whaley

Superior, AZ

RETURNED FROM

**CREDIT**

CREDIT NO. 52000598

CREDIT DATE 8/1/79

**MEMORANDUM**

REASON

VIA

RETURNED TO

Michigan City

| QUANTITY TO BE RETURNED | UNIT | PART NUMBER | DESCRIPTION   | SALES CODE | UNIT PRICE | QUANTITY RECEIVED | QUANTITY CREDITED | AMOUNT |
|-------------------------|------|-------------|---|------------|------------|-------------------|-------------------|--------|
|                         |      |             | <p>To credit may invoice #52117532 at Superior, AZ for period ending May 25, 1979 as per agreement.</p> <p><u>RIG TIME</u> (corrections agreed to per J. H. Koontz)</p> <p>May 7    3½ hours</p> <p>May 11   <u>7 hours</u></p> <p>10½ hours @ \$36.00/hour</p> |            |            |                   |                   | 378.00 |

ORIGINAL



# JOY MANUFACTURING COMPANY

OLIVER BUILDING  
PITTSBURGH, PENNSYLVANIA 15222

|                                 |                    |          |               |      |                      |           |                       |
|---------------------------------|--------------------|----------|---------------|------|----------------------|-----------|-----------------------|
| CUSTOMER'S ORDER NO.<br>T-212-8 | DATE               | REQ. NO. | OUR ORDER NO. | DATE | AT REC. POINT        | B. O. NO. | ORIGINAL INVOICE NO.  |
| CONTRACT                        | 99 69 05 03 02 209 | CODE     |               | DATE | AT SHIP POINT<br>418 |           | ORIGINAL INVOICE DATE |

02250  
CREDIT TO  
Asarco, Inc.  
P. O. Box 5747  
Tucson, AZ 85703  
Attn: Mr. N. P. Whaley  
Superior, AZ  
RETURNED FROM

CREDIT NO. 52000598  
CREDIT DATE 8/1/79  
MEMORANDUM REASON

VIA RETURNED TO Michigan City

| QUANTITY TO BE RETURNED | PART NUMBER | DESCRIPTION  | SALES CODE | UNIT PRICE | QUANTITY RECEIVED | QUANTITY CREDITED | AMOUNT |
|-------------------------|-------------|--|------------|------------|-------------------|-------------------|--------|
|                         |             | To credit may invoice #52117532 at Superior, AZ for period ending May 25, 1979 as per agreement.<br><u>RIG TIME</u> (corrections agreed to per J. H. Koontz)<br>May 7 3½ hours<br>May 11 7 hours<br>10½ hours @ \$36.00/hour |            |            |                   |                   | 378.00 |

**DUPLICATE**

MONTHLY COST SUMMARY

Superior East EA-0010 Project, Pinol (County), Az (State)

DIRECT DRILLING (Acct. 521-)

CONTRACTORS' CHARGES

Invoiced during month covering current month's work

Contractors' Services

① April ESTIMATE = 9,980.02  
April Invoice: 5217528 = 10,155.58

Statement Amt.

+ 175.50 to be added

Estimated balance of contractors' charges covering work through end of current month

Contractors' Services

ESTIMATE for May (94)

Estimated Cost

11,000.00

Supplies and Freight

Field Trailer Rental

Water Purchases (Drilling)

SITE PREPARATION (Acct. 580-)

CONTRACTORS' CHARGES

Invoiced during month covering current month's work

Contractors' Services

Statement Amt.

Estimated balance of contractors' charges covering work through end of current month

Contractors' Services

Estimated Cost

Supplies and Freight

**SAMPLERS, SAMPLING, SAMPLE PREPARATION, ASSAYING (Acct. 540-)**

Wages (Temporary Help)

| <u>Name</u> | <u>No. of Straight Time Hours During Month</u> | <u>No. of Overtime Hours During Month</u> |
|-------------|--|---|
| _____       | _____  | _____                                     |
| _____       | _____  | _____                                     |

Assaying

| <u>Assayer</u>              | <u>Charge or Estimated Expense for Assaying Performed During Month</u> |
|-----------------------------|--|
| AARL Invoice 14329 \$ 20.25 |  |
| Invoice 14341 33.00         |  |
| Estimate ? 11.00 est        |  |
|                             | <u>64.25 est</u>   |

**CLAIM STAKING, VALIDATION (Acct. 507-)**

Invoiced during month covering current month's work

| <u>Contractors' Services</u> | <u>Statement Amt.</u> |
|------------------------------|-----------------------|
| _____                        | _____                 |
| _____                        | _____                 |

Estimated balance of contractors' charges covering work through end of current month

| <u>Contractors' Services</u> | <u>Estimated Cost</u> |
|------------------------------|-----------------------|
| _____                        | _____                 |
| _____                        | _____                 |

Wages

| <u>Name</u> | <u>No. of Straight Time Hours During Month</u> | <u>No. of Overtime Hours During Month</u> |
|-------------|--|---|
| _____       | _____  | _____                                     |
| _____       | _____  | _____                                     |

**E. OTHER (Itemize any other major expenses not covered above or by invoice.)**

| <u>Item</u>                         | <u>Cost</u>               |
|-------------------------------------|---------------------------|
| Mollenhauer April <u>Est</u> 175.50 |                           |
| " April Invoice 712.00              |                           |
| Mollenhauer May Invoice 175.00      |                           |
| Spray-Jun ESTIMATE                  |                           |
|                                     | <u>536.50 to be added</u> |
|                                     | <u>175.00</u>             |
|                                     | <u>448.00 EST.</u>        |

Jay Willis

May.

1987

① April ESTIMATE \$9,900.02  
April Invoice 52117508 10,155.58

Difference + 175.56 to be added.

② ESTIMATE for May \$ 11,000<sup>00</sup>



# JOY MANUFACTURING COMPANY

OLIVER BUILDING  
PITTSBURGH, PENNSYLVANIA 15222

PLEASE REMIT TO  
P. O. BOX 360135M  
PITTSBURGH, PA. 15250

①

|                      |          |                |      |               |          |
|----------------------|----------|----------------|------|---------------|----------|
| CUSTOMER'S ORDER NO. | DATE     | REQ. NO.       | DATE | AT REC. POINT | B.O.N.O. |
| CONTRACT             | 99 69 05 | CODE 03 02 209 | DATE | AT SHIP POINT |          |

02250

SOLD TO

Asarco Inc.  
P. O. Box 5747  
Tucson, AZ 85703

Attn: Mr. N. P. Whaley

TERMS NET 30 DAYS  
NO CASH DISCOUNT

INVOICE NO. 52117508

INVOICE DATE 5/8/79

SHIPPED TO

Superior, AZ

PLEASE REMIT TO  
P. O. BOX 360135M  
PITTSBURGH, PA. 15250

DATE SHIPPED

SHIPPED VIA

P. O. ADDRESS

MARKS

REQUESTED ROUTING

SHIPPED FROM Michigan City

| ORIGINAL QUANTITY ORDERED  | PART NUMBER | DESCRIPTION | CODE                    | UNIT PRICE        | QUANTITY BACK ORDERED | QUANTITY SHIPPED  | AMOUNT |
|--|-------------|-------------|-------------------------|-------------------|-----------------------|-------------------|--------|
| To 242.1' core drilling at Superior, AZ for period ending April 25, 1979 as per agreement. |             |             |                         |                   |                       |                   |        |
| <u>PROSPECT NO.</u>  |             | <u>FROM</u> | <u>TO</u>               | <u>TOTAL FEET</u> | <u>UNIT COST</u>      | <u>TOTAL COST</u> |        |
|  | A-11        | BX 4615.    | 4857.                   | 242.              | 26.60                 | 6,437.20          |        |
| <u>SET &amp; PULL CASING</u>   |             |             |                         |                   |                       |                   |        |
|  | A-11        | April 25    | 3 1/2 hours             | @ \$30.00/hour    |                       | 105.00            |        |
| <u>SURVEY TIME</u>   |             |             |                         |                   |                       |                   |        |
|  | A-11        | April 19    | 4 1/2 hours             | @ \$30.00/hour    |                       | 135.00            |        |
| <u>MUD &amp; ADDITIVES USED</u>  |             |             |                         |                   |                       |                   |        |
|  | A-11        | 202         | 50# bags drilling mud   | @ \$4.00          |                       | 808.00            |        |
|  |             | 6           | 50# bags CC-16          | @ \$30.19         |                       | 181.14            |        |
|  |             | 1           | 50# bag caustic soda    | @ \$38.98         |                       | 38.98             |        |
|  |             | 3           | 50# bags Cellex         | @ \$191.92        |                       | 575.76            |        |
|  |             | 14          | 50# bags Dextrid        | @ \$79.04         |                       | 1,106.56          |        |
|  |             | 1           | 100# bag soda ash       | @ \$28.49         |                       | 28.49             |        |
|  |             | 8           | 50# bags walnut flour   | @ \$21.24         |                       | 169.92            |        |
|  |             | 1           | 5 gal. can Torq Trim    | @ \$85.71         |                       | 85.71             |        |
|  |             | 3           | 40# bags Dicks Mud Seal | @ \$23.04         |                       | 69.12             |        |
|  |             |             | Total mud               |                   |                       | 3,063.68          |        |

F. O. B. SHIPPING POINT UNLESS OTHERWISE SPECIFIED

NO RETURNS ALLOWED UNLESS AUTHORIZED BY THIS OFFICE

ORIGINAL

09007

GOODS COVERED BY THIS INVOICE WERE PRODUCED IN COMPLIANCE WITH THE REQUIREMENTS OF THE FAIR LABOR STANDARDS ACT OF 1938, AS AMENDED, INCLUDING SECTION 12(A).

Asarco, Inc.

|               |               |               |          |                      |
|---------------|---------------|---------------|----------|----------------------|
| OUR ORDER NO. | AT REC. POINT | AT SHIP POINT | B.O. NO. | INVOICE NO. 52117508 |
|---------------|---------------|---------------|----------|----------------------|

| UNIT | PART NUMBER | DESCRIPTION               | CODE | UNIT PRICE | QUANTITY BACK ORDERED | QUANTITY SHIPPED | AMOUNT             |
|------|-------------|---------------------------|------|------------|-----------------------|------------------|--------------------|
|      |             | CORE BOXES USED           |      |            |                       |                  |                    |
|      |             | 25 cardboard core boxes @ |      | \$1.50     |                       |                  | 37.50              |
|      |             | WATER TRUCK RENTAL        |      |            |                       |                  |                    |
|      |             | March 26 thru April 25    |      |            |                       |                  |                    |
|      |             | 1 truck @ \$360.00/month  |      |            |                       |                  | 360.00             |
|      |             | 43 miles @ \$.40/mile     |      |            |                       |                  | 17.20              |
|      |             |                           |      |            |                       |                  | \$10,155.58        |
|      |             |                           |      |            |                       |                  | <del>5998.02</del> |
|      |             |                           |      |            |                       |                  | 175 <sup>56</sup>  |

*my salary*

*add (+)*

APPROVED FOR PAYMENT

By: *James C. Bell*  
(Signature)

APPROVED FOR PAYMENT

By: \_\_\_\_\_  
(Signature)



# Estimated Dry Drilling Contract - April 1979.

BX Footage 4415'-4857' = 242' @ \$26.60 = 6,437.20  
 Hole Surveying 4 1/2 hrs @ \$48.00 @ 30<sup>00</sup> = ~~216.00~~ 135.00

Casing Time (Getting BX rods on bottom & setted), 3 1/2 hrs @ \$30.00 = 105.00

|                            |  |                                     |
|----------------------------|--|-------------------------------------|
| Mud                        | 202 sacks @ \$4.00   | = 808.00                            |
| Caustic Soda               | 1 sack @ <del>\$36.77</del> 38 <sup>95</sup>               | = <del>36.77</del> 38 <sup>95</sup> |
| CC-16                      | 6 sacks @ <del>\$27.77</del> 30 <sup>19</sup>              | = <del>166.32</del> 181.14          |
| Calley                     | 3 sacks @ \$191.92   | = 575.76                            |
| Deftid                     | 14 sacks @ <del>\$72.71</del> 79 <sup>04</sup>             | = 1,017.94 1106.56                  |
| Dicks Mud Seal             | 3 sacks @ \$23.04  | = 69.12                             |
| Soda Ash                   | 1 sack @ \$28.49   | = 28.49                             |
| Torg-Trim                  | <del>1 sack</del> <sup>58</sup> @ \$73.00 85 <sup>71</sup> | = 73.00 85.71                       |
| Walnut Flour               | 8 sacks @ <del>\$20.84</del> 21.24                         | = <del>166.72</del> 169.92          |
| Truck Rental, month        |  | = 360.00                            |
| Truck Mileage, 43 @ \$0.40 |  | = 17.20                             |
| Core Boxes 25 @ \$1.50     |  | = <u>37.50</u>                      |

Estimated Total \$9,980.02

Note: BX rods, barrel, & bit left in hole for casing.  
 Will drill AX thru latch coupling & out thru bit.  
 AX drilling prices same as BX prices.



# JOY MANUFACTURING COMPANY

OLIVER BUILDING  
PITTSBURGH, PENNSYLVANIA 15222

PLEASE REMIT TO  
P. O. BOX 360135M  
PITTSBURGH, PA. 15250

|                      |                                    |               |      |               |         |
|----------------------|------------------------------------|---------------|------|---------------|---------|
| CUSTOMER'S ORDER NO. | DATE                               | REQ. NO.      | DATE | AT REC. POINT | B.O.NO. |
| CONTRACT             | 99 69 05 <sup>CODE</sup> 03 02 209 | OUR ORD'R NO. | DATE | AT SHIP POINT |         |

02250

SOLD TO

Asarco Inc.  
P. O. Box 5747  
Tucson, AZ 85703

Attn: Mr. N. P. Whaley

Superior, AZ

SHIPPED TO

P. O. ADDRESS

MARKS

REQUESTED ROUTING

SHIPPED FROM Michigan City

TERMS NET 30 DAYS  
NO CASH DISCOUNT

INVOICE NO. 52117508

INVOICE DATE 5/8/79

PLEASE REMIT TO  
P. O. BOX 360135M  
PITTSBURGH, PA. 15250

DATE SHIPPED

SHIPPED VIA

| ORIGINAL QUANTITY ORDERED   | PART NUMBER                     | DESCRIPTION | CODE                    | UNIT PRICE        | QUANTITY BACK ORDERED | QUANTITY SHIPPED  | AMOUNT |
|---|---------------------------------|-------------|-------------------------|-------------------|-----------------------|-------------------|--------|
| To 242.' core drilling at Superior, AZ for period ending April 25, 1979 as per agreement. |                                 |             |                         |                   |                       |                   |        |
|   | <u>PROSPECT NO.</u>             | <u>FROM</u> | <u>TO</u>               | <u>TOTAL FEET</u> | <u>UNIT COST</u>      | <u>TOTAL COST</u> |        |
|   | A-11                            | BX 4615.    | 4857.                   | 242.              | 26.60                 | 6,437.20          |        |
|   | <u>SET &amp; PULL CASING</u>    |             |                         |                   |                       |                   |        |
|   | A-11                            | April 25    | 3½ hours                | @ \$30.00/hour    |                       | 105.00            |        |
|   | <u>SURVEY TIME</u>              |             |                         |                   |                       |                   |        |
|   | A-11                            | April 19    | 4½ hours                | @ \$30.00/hour    |                       | 135.00            |        |
|   | <u>MUD &amp; ADDITIVES USED</u> |             |                         |                   |                       |                   |        |
|   | A-11                            | 202         | 50# bags drilling mud   | @ \$4.00          |                       | 808.00            |        |
|   |                                 | 6           | 50# bags CC-16          | @ \$30.19         |                       | 181.14            |        |
|   |                                 | 1           | 50# bag caustic soda    | @ \$38.98         |                       | 38.98             |        |
|   |                                 | 3           | 50# bags Cellex         | @ \$191.92        |                       | 575.76            |        |
|   |                                 | 14          | 50# bags Dextrid        | @ \$79.04         |                       | 1,106.56          |        |
|   |                                 | 1           | 100# bag soda ash       | @ \$28.49         |                       | 28.49             |        |
|   |                                 | 8           | 50# bags walnut flour   | @ \$21.24         |                       | 169.92            |        |
|   |                                 | 1           | 5 gal. can Torq Trim    | @ \$85.71         |                       | 85.71             |        |
|   |                                 | 3           | 40# bags Dicks Mud Seal | @ \$23.04         |                       | 69.12             |        |
|   |                                 |             | Total mud               |                   |                       | 3,063.68          |        |

F. O. B. SHIPPING POINT UNLESS OTHERWISE SPECIFIED

NO RETURNS ALLOWED UNLESS AUTHORIZED BY THIS OFFICE

09007

GOODS COVERED BY THIS INVOICE WERE PRODUCED IN COMPLIANCE WITH THE REQUIREMENTS OF THE FAIR LABOR STANDARDS ACT OF 1938, AS AMENDED, INCLUDING SECTION 12(A).

**ORIGINAL**

# JOY MANUFACTURING COMPANY

PAGE NO. 2

Asarco, Inc.

|               |               |               |          |                      |
|---------------|---------------|---------------|----------|----------------------|
| OUR ORDER NO. | AT REC. POINT | AT SHIP POINT | B.O. NO. | INVOICE NO. 52117508 |
|---------------|---------------|---------------|----------|----------------------|

| UNIT | PART NUMBER               | DESCRIPTION   | CODE | UNIT PRICE | QUANTITY BACK ORDERED | QUANTITY SHIPPED | AMOUNT                               |
|------|---------------------------|---|------|------------|-----------------------|------------------|--------------------------------------|
|      | <u>CORE BOXES USED</u>    | 25 cardboard core boxes @   |      | \$1.50     |                       |                  | 37.50                                |
|      | <u>WATER TRUCK RENTAL</u> | March 26 thru April 25<br>1 truck @ \$360.00/month<br>43 miles @ \$.40/mile |      |            |                       |                  | 360.00<br>17.20<br><hr/> \$10,155.58 |

**APPROVED FOR PAYMENT**

By: *James O. Sell*  
(Signature)

**APPROVED FOR PAYMENT**

By: \_\_\_\_\_  
(Signature)



# JOY MANUFACTURING COMPANY

OLIVER BUILDING  
PITTSBURGH, PENNSYLVANIA 15222

PLEASE REMIT TO  
P. O. BOX 360135M  
PITTSBURGH, PA. 15250

|                      |          |           |      |               |         |
|----------------------|----------|-----------|------|---------------|---------|
| CUSTOMER'S ORDER NO. | DATE     | REQ. NO.  | DATE | AT REC. POINT | B.O.NO. |
| CONTRACT             | 99 69 05 | 03 02 209 | DATE | AT SHIP POINT |         |

02250

SOLD TO

Asarco Inc.  
P. O. Box 5747  
Tucson, AZ 85703

Attn: Mr. N. P. Whaley

TERMS NET 30 DAYS  
NO CASH DISCOUNT

INVOICE NO. 52117508

INVOICE DATE 5/8/79

SHIPPED TO

Superior, AZ

PLEASE REMIT TO  
P. O. BOX 360135M  
PITTSBURGH, PA. 15250

DATE SHIPPED

SHIPPED VIA

P. O. ADDRESS

MARKS

REQUESTED ROUTING

SHIPPED FROM Michigan City

| ORIGINAL QUANTITY ORDERED | PART NUMBER                     | DESCRIPTION   | CODE                              | UNIT PRICE              | QUANTITY BACK ORDERED | QUANTITY SHIPPED  | AMOUNT   |  |
|---------------------------|---------------------------------|---|-----------------------------------|-------------------------|-----------------------|-------------------|----------|--|
|                           |                                 | To 242.' core drilling at Superior, AZ for period ending April 25, 1979 as per agreement. |                                   |                         |                       |                   |          |  |
|                           | <u>PROSPECT NO.</u>             | <u>FROM</u>   | <u>TO</u>                         | <u>TOTAL FEET</u>       | <u>UNIT COST</u>      | <u>TOTAL COST</u> |          |  |
|                           | A-11                            | BX  | 4615.                             | 4857.                   | 242.                  | 26.60             | 6,437.20 |  |
|                           | <u>SET &amp; PULL CASING</u>    |   |                                   |                         |                       |                   |          |  |
|                           | A-11                            | April 25  |                                   | 3½ hours @ \$30.00/hour |                       |                   | 105.00   |  |
|                           | <u>SURVEY TIME</u>              |   |                                   |                         |                       |                   |          |  |
|                           | A-11                            | April 19  |                                   | 4½ hours @ \$30.00/hour |                       |                   | 135.00   |  |
|                           | <u>MUD &amp; ADDITIVES USED</u> |   |                                   |                         |                       |                   |          |  |
|                           | A-11                            | 202   | 50# bags drilling mud @ \$4.00    |                         |                       |                   | 808.00   |  |
|                           |                                 | 6   | 50# bags CC-16 @ \$30.19          |                         |                       |                   | 181.14   |  |
|                           |                                 | 1   | 50# bag caustic soda @ \$38.98    |                         |                       |                   | 38.98    |  |
|                           |                                 | 3   | 50# bags Cellex @ \$191.92        |                         |                       |                   | 575.76   |  |
|                           |                                 | 14  | 50# bags Dextrid @ \$79.04        |                         |                       |                   | 1,106.56 |  |
|                           |                                 | 1   | 100# bag soda ash @ \$28.49       |                         |                       |                   | 28.49    |  |
|                           |                                 | 8   | 50# bags walnut flour @ \$21.24   |                         |                       |                   | 169.92   |  |
|                           |                                 | 1   | 5 gal. can Torq Trim @ \$85.71    |                         |                       |                   | 85.71    |  |
|                           |                                 | 3   | 40# bags Dicks Mud Seal @ \$23.04 |                         |                       |                   | 69.12    |  |
|                           |                                 |   |                                   |                         | Total mud             |                   | 3,063.68 |  |

**DUPLICATE**

F. O. B. SHIPPING POINT UNLESS OTHERWISE SPECIFIED

09007

NO RETURNS ALLOWED UNLESS AUTHORIZED BY THIS OFFICE

GOODS COVERED BY THIS INVOICE WERE PRODUCED IN COMPLIANCE WITH THE REQUIREMENTS OF THE FAIR LABOR STANDARDS ACT OF 1938, AS AMENDED, INCLUDING SECTION 12(A).

# JOY MANUFACTURING COMPANY

PAGE NO. 2

**SOLD**  
Asarco, Inc.

|               |               |               |          |                      |
|---------------|---------------|---------------|----------|----------------------|
| OUR ORDER NO. | AT REC. POINT | AT SHIP POINT | B.O. NO. | INVOICE NO. 52117508 |
|---------------|---------------|---------------|----------|----------------------|

| ORIGINAL QUANTITY ORDERED | UNIT | PART NUMBER | DESCRIPTION               | CODE | UNIT PRICE | QUANTITY BACK ORDERED | QUANTITY SHIPPED | AMOUNT      |
|---------------------------|------|-------------|---------------------------|------|------------|-----------------------|------------------|-------------|
|                           |      |             | <u>CORE BOXES USED</u>    |      |            |                       |                  |             |
|                           |      |             | 25 cardboard core boxes @ |      | \$1.50     |                       |                  | 37.50       |
|                           |      |             | <u>WATER TRUCK RENTAL</u> |      |            |                       |                  |             |
|                           |      |             | March 26 thru April 25    |      |            |                       |                  |             |
|                           |      |             | 1 truck @ \$360.00/month  |      |            |                       |                  | 360.00      |
|                           |      |             | 43 miles @ \$.40/mile     |      |            |                       |                  | 17.20       |
|                           |      |             |                           |      |            |                       |                  | \$10,155.58 |

884. 5865

(2)

Jay Dulling May 1979

Verbal Estimate from Orell Power ESTIMATE

|   |                                    |                  |
|---|------------------------------------|------------------|
| AX Core from 4857                       | - 112 feet @ 26 <sup>40</sup>      | = \$2,979.20     |
| Casing Time (BX drill rods in hole)     | 24 hrs @ 36 <sup>00</sup> /hr      | = 864.00         |
| Setting Wedge (Survey)                  | 6 hrs @ 36 <sup>00</sup> /hr       | = 216.00         |
| Cementing Time                          | 106 hrs @ 36 <sup>00</sup> /hr     | = 3,816.00       |
| Cementing Supplies: 1 bag Alcemint      | \$18.66                            | = 30.00 est      |
| 2 bags Portland                         | @ 4.50 @ 6 <sup>23</sup>           | = 9.00           |
| Wedge, AX, 9 1/2' long                  |                                    | = 400.00 est     |
| Drilling Supplies:                      |                                    |                  |
| Mud                                     | 15 @ 4 <sup>00</sup>               | = 60.00          |
| Dicks Mud Seal                          | 1 @ 23 <sup>04</sup>               | = 23.04          |
| CC-16                                   | 1 @ 30.19                          | = 30.19          |
| Walnut Flour                            | 2 @ 21 <sup>24</sup>               | = 42.48          |
| B-33                                    | 1 @ 12.91 est @ 58 <sup>92</sup>   | = 12.91 est      |
| Nectrid                                 | 6 @ 79 <sup>04</sup>               | = 474.24         |
| Loss                                    | 3 @ 169.36 est @ 166 <sup>14</sup> | = 508.08 est     |
| Celler                                  | 1 @ 191.92                         | = 191.92         |
| Core Boxes                              | 8 @ 1.50                           | = 12.00          |
| Water Truck Rental, monthly             |                                    | = 360.00         |
| Water Truck Miles, 65 @ 0 <sup>40</sup> |                                    | = 26.00          |
|   |                                    | <u>10,055.06</u> |

Say \$ 11,000<sup>00</sup> EST

AARL

May Invoices & Estimates

Invoice 14329 (Samples 78-84)

20.25

" 14341 ( " 85-96)

33.00

" ? ( " 97-100)

11.00 est

64.25 est.

3441 East Milber

INVOICE NO. 16329

Phone 889-5787

# AMERICAN ANALYTICAL and RESEARCH LABORATORIES

ASSAYERS · CHEMISTS · METALLURGISTS

TUCSON, ARIZONA 85714

SAMPLE SUBMITTED BY ASARCO, INC.

DATE April 30, 1979

Mr. J. D. Sell

SAMPLE MARKED

ANALYSIS

CHARGES

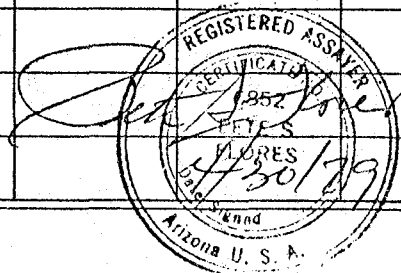
A-11-78 -- A-11-84

Cu, (2-Wet @ \$3.25)

\$ 20.25

THANK YOU MUCH!

CHARGES \$ 20.25





3441 East Milber

INVOICE NO. 16341

Phone 889-5787

# AMERICAN ANALYTICAL and RESEARCH LABORATORIES

ASSAYERS - CHEMISTS - METALLURGISTS

TUCSON, ARIZONA 85714

SAMPLE SUBMITTED BY ASARCO, INC.

DATE May 7, 1979

Mr. J. D. Sell

| SAMPLE MARKED      | ANALYSIS | CHARGES  |
|--------------------|----------|----------|
| A-11-85 -- A-11-96 | Cu       | \$ 33.00 |

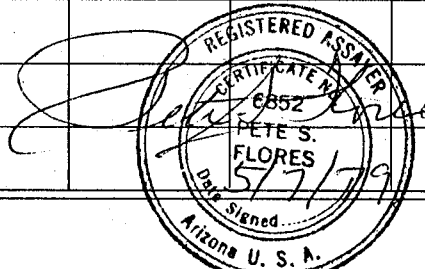
*OK for payment  
James D. Sell  
EA-0010  
Superior East*

THANK YOU MUCH!

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CHARGES \$ 33.00

INVOICE NO. 16341



ASSAYER-CHEMIST

Moller-Hauer Sewerizing Company.

① Work date 4/19. Billing of May 1, 1979  
ESTIMATED in April 175.50  
Actual Invoice attached 712.00  
add + 534.50 to May Cost Summary

② Work date 5/11 Billing of May 17, 1979  
Invoice attached \$175.00

**MOLLEN-HAUER SURVEYING COMPANY**

**WORK ORDER AND RECEIPT**

P.O. Box 17376 • Tucson, Ariz. 85731 • Phone (602) 298-2779

Customer Asarco Inc. S.W. Exploration Date 4-19-79  
U.S. Exploration Dev.

Invoice Address P.O. Box 5747 Well Name & No. G1650 & T1651  
Superior Army 85703

Job No. All

Field Superior east County Gila State Ariz

Hole size BH to \_\_\_\_\_ ft. size \_\_\_\_\_ to \_\_\_\_\_ Ft. Others \_\_\_\_\_

This is to verify the order for Hydro & temperature survey on the above mentioned well.  
The Customer agrees to the Rates, Terms and Conditions as set forth in Price List No. as quoted.

Is filing of survey with (2) Governing Agency required by existing Law, Rule or Regulation? \_\_\_\_\_

By \_\_\_\_\_  
Customer/Agency thereof

Arrived at well: Date 4-19-79 Time \_\_\_\_\_ Left well: Date 4-19-79 Time \_\_\_\_\_ Standby time \_\_\_\_\_

Travel from office to well Round trip 240 miles. Surveyed from 4400 to 4750  
Temp 0 4750

Footage surveyed \_\_\_\_\_

Distance between Survey Stations: 100 Traversed from \_\_\_\_\_ to \_\_\_\_\_ Footage traversed \_\_\_\_\_  
1000  
500

Remarks: \_\_\_\_\_

By Otto W. Mollenhauer  
**Mollen-Hauer Surveying Company**

By [Signature]  
Customer/Agency thereof [Signature]

**MOLLEN-HAUER SURVEYING COMPANY**

P.O. Box 17376 • Tucson, Ariz. 85731 • Phone (602) 298-2779

ASARCO INCORPORATED S.W. EXPLORATION

U.S. EXPLORATION DIVISION

P. O. BOX 5747

TUCSON, ARIZONA 85703

Date: May 1, 1979

Customer's Order No. T-207-9

Job No. G 1650 & T 1651

Invoice No. G1650

| Start Date | Stop Date | Hole Name & No.  | Area          | Charges   |
|------------|-----------|--|---------------|-----------|
|            |           | A 11   | SUPERIOR EAST | AS LISTED |
| 4-19-79    |           | GYROSCOPIC DIRECTIONAL SURVEY  |               |           |
|            |           | Surveyed hole from 4400' to 4750' @ 6 shot Minimum \$65.00 Per Shot  |               | \$ 390 00 |
|            |           | TEMPERATURE SURVEY   |               |           |
|            |           | Surveyed hole from 0' to 4750' @ Survey Minimum                      |               | 250 00    |
|            |           | Round trip mileage from office to core hole 240 miles @ 30¢ Per Mile |               | 72 00     |
|            |           |  | TOTAL         | \$ 712 00 |

*James Bell*  
*Superior East EA-0010*

**INVOICE**

# MOLLEN-HAUER SURVEYING COMPANY

P.O. Box 17376 • Tucson, Ariz. 85731 • Phone (602) 298-2779

ASARCO INCORPORATED S.W. EXPLORATION

U.S. EXPLORATION DIVISION

P. O. BOX 5747

TUCSON, ARIZONA 85703

Date: May 1, 1979

Customer's  
Order No. T-207-9

Job No. G 1650 & T 1651

Invoice No. G1650

| Start Date | Stop Date | Hole Name & No.  | Area          | Charges   |
|------------|-----------|--|---------------|-----------|
|            |           | A 11   | SUPERIOR EAST | AS LISTED |
| 4-19-79    |           | GYROSCOPIC DIRECTIONAL SURVEY  |               |           |
|            |           | Surveyed hole from 4400' to 4750' @ 6 shot Minimum \$65.00 Per Shot        |               | \$ 390 00 |
|            |           | TEMPERATURE SURVEY   |               |           |
|            |           | Surveyed hole from 0' to 4750' @ Survey Minimum                            |               | 250 00    |
|            |           | Round trip mileage from office to core hole 240 miles @ 30¢ Per Mile       |               | 72 00     |
|            |           | APPROVED FOR BANKING<br>D.J. <i>James D. Sell</i><br>Superior East EA-0010 |               |           |
|            |           |  | TOTAL         | \$ 712 00 |

## INVOICE

# MOLLEN-HAUER SURVEYING COMPANY

P.O. Box 17376 • Tucson, Ariz. 85731 • Phone (602) 298-2779

ASARCO INCORPORATED S.W. EXPLORATION

U.S. EXPLORATION DIVISION

P. O. BOX 5747

TUCSON, ARIZONA 85703

Date: MAY 17, 1979

Customer's Order No. T-207-9

Job No. WO 1656 A

Invoice No. WO 1656 A

| Start Date | Stop Date | Hole Name & No.   | Area          | Charges                                  |
|------------|-----------|---|---------------|--|
|            |           | A 11  | SUPERIOR EAST | AS LISTED                                |
| 5-11-79    |           | <p>WEDGE ORIENTATION</p> <p>Oriented Wedge @ 4929°</p> <p>Stand by charge for 9½ hours @ \$10.00 per hour</p> <p>Round trip mileage from office to core hole 30¢ Per mile (240 miles)</p> <p>Orienting Sub Rental</p> <p><i>OK for payment</i></p> <p><i>James Hill</i></p> <p><i>5-17-79</i></p> |               | <p>\$ 95 00</p> <p>72 00</p> <p>8 00</p> |
|            |           | TOTAL   |               | \$ 175 00                                |

## INVOICE

**MOLLEN-HAUER SURVEYING COMPANY**

**WORK ORDER AND RECEIPT**

P.O. Box 17376 • Tucson, Ariz. 85731 • Phone (602) 298-2779

Customer Asarco Inc. S.W. Application Date 5-14-79  
U.S. Exploration Div.

Invoice Address P.O. Box 5747 Well Name & No. A 11

Tucson Ariz 85703 Job No. WO 1456A

Field Superior East County Gila State Arizona

Hole size 1X to \_\_\_\_\_ ft. size \_\_\_\_\_ to \_\_\_\_\_ Ft. Others \_\_\_\_\_

This is to verify the order for a Wedge Orientation survey on the above mentioned well.  
The Customer agrees to the Rates, Terms and Conditions as set forth in Price List No. as quoted.

Is filing of survey with Governing Agency required by existing Law, Rule or Regulation? \_\_\_\_\_

By \_\_\_\_\_  
Customer/Agency thereof

Arrived at well: Date 5-11-79 Time 9:10 AM Left well: Date 5-11-79 Time 6:30 PM Standby time 9 1/2 hrs

Travel from office to well Round trip 240 miles. Surveyed from 5:00 AM to 6:30 PM

Footage surveyed \_\_\_\_\_

Distance between Survey Stations: \_\_\_\_\_ Traversed from \_\_\_\_\_ to \_\_\_\_\_ Footage traversed \_\_\_\_\_

Remarks: Oriented 1X wedge @ 4929 ft Tool Face 11° to  
Right of the lower side of the hole.

By Otto A. Mollenhauer By \_\_\_\_\_  
**Mollen-Hauer Surveying Company** Customer/Agency thereof

# MOLLEN-HAUER SURVEYING COMPANY

P.O. Box 17376 • Tucson, Ariz. 85731 • Phone (602) 298-2779

ASARCO INCORPORATED S.W. EXPLORATION

U.S. EXPLORATION DIVISION

P. O. BOX 5747

TUCSON, ARIZONA 85703

Date: MAY 17, 1979

Customer's Order No. **T-207-9**

Job No. WO 1656 A

Invoice No. WO 1656 A

| Date  | Stop Date | Hole Name & No.   | Area          | Charges                   |
|---|-----------|---|---------------|---------------------------|
|   |           | A 11  | SUPERIOR EAST | AS LISTED                 |
| 11-79   |           | WEDGE ORIENTATION<br>Oriented Wedge @ 4929'<br>Stand by charge for 9½ hours @ \$10.00 per hour<br>Round. trip mileage from office to core hole 30¢ Per mile (240 miles)<br>Orienting Sub Rental |               | \$ 95 00<br>72 00<br>8 00 |
| <i>OK for Payment</i><br><i>James W Sell</i><br>EA-0010 |           |   |               |                           |
| TOTAL   |           |   |               | \$ 175 00                 |

## INVOICE



Sperry - Sun Inc.  
P.O. Box 20327  
Long Beach, CA 90801  
ph. (213) 437-4922

Purchase Order # T-272-9.

Rental on AX Sewerizing equipment (for Molokai)  
to be billed to ASARCO

Rental Out May 3

Rental In May 18

Estimated Charges \$ 448 <sup>00</sup>/<sub>100</sub>  
(rental Long Beach)  
(billing from Houston).

No seq # 6<sup>TR</sup>-16<sup>TR</sup> (used on 5/11).

## RENTAL ORDER

|  |                         |  |  |                                       |
|--|-------------------------|--|--|---------------------------------------|
| RENTED TO<br><b>ASAR Co. Southwest Exploration</b>                                       |                         | Date Deliv'd/Rec'd<br><b>5-3-79</b>                        | Cust. Order No.<br><b>N/A</b>  | Rental Order No.<br><b>SS #12424</b>  |
| MAIL INVOICE TO<br><b>ASAR Co. Exploration Division</b>                                  |                         | Delivered To/Returned From<br><b>Continental Airl. N/A</b> |  |                                       |
| <b>P.O. Box 5747 Tucson Arizona 85730</b>  |                         | Returned To<br><b>Cont Airl. #</b>                         |  |                                       |
| RIG  | WELL<br><b>Mining</b>   | FIELD  | PPD Collect Charge Cust.<br>Yes/No <input type="checkbox"/> <input checked="" type="checkbox"/> \$ |                                       |
| LAND LOCATION <input checked="" type="checkbox"/> COUNTY OR PARISH<br><b>Pima County</b> | STATE<br><b>Arizona</b> | DIST. OFFICE<br><b>L.B.</b>                                | NEW RENTAL <input checked="" type="checkbox"/> CANCELLATION <input type="checkbox"/>               |                                       |
| WATER LOCATION <input type="checkbox"/>  |                         |  | RENEWAL OF R.O. <input type="checkbox"/> REPLACEMENT <input type="checkbox"/>                      |                                       |
|  |                         |  |  | ADDL. EQUIP. <input type="checkbox"/> |

| CHARGES | RENTAL CHARGES |        |                        |                         | OUTRIGHT SALES | TRANSP. CHARGES | CO. RESPONSIBILITY |      | START         | END |
|---------|----------------|--------|------------------------|-------------------------|----------------|-----------------|--------------------|------|---------------|-----|
|         | 1 Year         | Months | Daily                  | 1-50'                   |                |                 | IN HOLE            | FULL |               |     |
| REGULAR |                |        | <b>26<sup>00</sup></b> | <b>265<sup>00</sup></b> |                |                 |                    |      | <b>5-3-79</b> |     |
| EXTRA   |                |        | <b>2<sup>00</sup></b>  | <b>16<sup>00</sup></b>  |                |                 |                    |      | <b>5-3-79</b> |     |

RENTAL CONDITIONS:  
 It is understood that all rentals are subject to the terms and conditions set forth in Price List No. **M1-79**, and that the Renter when signing this order accepts these terms and conditions. Invoices are payable at the Houston, Texas office. In the event the Renter shall violate any of the terms and conditions, or if the Renter shall become bankrupt or insolvent, or a receiver shall be appointed for Renter's business, or if any warrant or attachment be levied thereon, Sperry-Sun, Inc. shall have the right to repossess the equipment wherever found, without notice and with or without legal process.

REMARKS: **Customer to pay all freight charges.**

SPERRY-SUN, INC. BY: [Signature]  
 RENTER: **Per Telephone Conversation** BY: **Mollenhauer.**

| REGULAR EQUIPMENT |                          |                     |           | EXTRA EQUIPMENT |                         |                 |            |   |
|-------------------|--------------------------|---------------------|-----------|-----------------|-------------------------|-----------------|------------|---|
| DELIVERED         | EQUIPMENT                | SIZE/TYPE           | PICKED UP | DELIVERED       | EQUIPMENT               | SIZE/TYPE       | PRICE      | PICKED UP   |
| <b>1669</b>       | INSTRUMENT               | <b>B</b>            |           |                 | INSTRUMENT              |                 |            |   |
|                   | MMO INSTRUMENT           |                     |           |                 | MMO INSTRUMENT          |                 |            |   |
|                   | COMPASS                  |                     |           |                 | MMO READER              |                 |            |   |
|                   |                          |                     |           |                 | COMPASS                 |                 |            |   |
| <b>1232</b>       | ANG. UNIT/I.O.L.         | <b>20° B</b>        |           | <b>1</b>        | <b>Swivel</b>           | <b>B</b>        |            | <b>8<sup>00</sup> MIN 5 DAYS 1<sup>00</sup> DAY</b> |
| <b>981</b>        | DEVELOPING TANK          | <b>B</b>            |           |                 | SSEP                    |                 |            |   |
| <b>238-334</b>    | CIRCUIT BREAKER          | <b>2 1/2 x 5' B</b> |           |                 | CIRCUIT BREAKER         |                 |            |   |
| <b>1444-154</b>   | LOADER                   | <b>B</b>            |           |                 | LOADER                  |                 |            |   |
| <b>1</b>          | PROTECTIVE CASING        | <b>6 x 1 1/4" B</b> |           |                 | PROTECTIVE CASING       |                 |            |   |
|                   | EXTENSION BAR            |                     |           |                 | EXTENSION/SINKER/BAR    |                 |            |   |
| <b>1</b>          | ROPE SOCKET/CON. GUIDE   | <b>B</b>            |           |                 | ROPE SOCKET/CON. GUIDE  |                 |            |   |
|                   | SINKER BAR SUB/SPEARHEAD |                     |           | <b>1</b>        | SINKER BAR SUB/SPEARHD. | <b>1/4 x 5'</b> |            | <b>8<sup>00</sup> MIN 5 DAYS 1<sup>00</sup> DAY</b> |
|                   | STABILIZER GUIDE         |                     |           |                 | TOP/BTM LANDG.          |                 |            |   |
|                   | RUBBER SHIELD            |                     |           |                 | OVERSHOT                |                 |            |   |
| <b>1</b>          | <b>Kit Box</b>           | <b>UNIV</b>         |           | <b>2</b>        | <b>Crossovers 6"</b>    |                 | <b>M/C</b> |   |
| QUANTITY          | OUTRIGHT SALES           | PRICE               |           |                 | THERMAL SHIELD          |                 |            |   |
|                   |                          |                     |           |                 | ORIENTED SNUBBER        |                 |            |   |
|                   |                          |                     |           |                 | ORIENTING SUB           |                 |            |   |
| <b>1</b>          |                          |                     |           | <b>1</b>        | MULE SHOE ASSEMBLY      | <b>B</b>        |            | <b>Charged as M/C Bottom Landing</b>                |

10

HOLE A-11 PROJECT Superior East EA-0010 26th April 25th May, 1979 CONTRACTOR Jay

DESCRIPTION: 4857 AX 4939. wedg chat 4924 -> 4969

| FEET DRILLED | 26 | 27 | 28  | 29  | 30 | 31 | 1  | 2  | 3  | 4  | 5 | 6   | 7 | 8 | 9 | 10 | 11 | 12 | 13  | 14 | 15 | 16 | 17 | 18 | 19 | 20  | 21 | 22 | 23 | 24 | 25 | TOTAL | PRICE | AMOUNT |  |
|--------------|----|----|-----|-----|----|----|----|----|----|----|---|-----|---|---|---|----|----|----|-----|----|----|----|----|----|----|-----|----|----|----|----|----|-------|-------|--------|--|
| 4857-5000 AX | -  | 10 | Sat | Sun | 6  |    | 12 | 19 | 16 | 10 | 8 | Sun | 1 | 0 | 0 | 0  | 0  | St | Sun | 0  | 0  | 0  | 0  | 0  | St | Sun | 0  | 16 | 16 | 6  | 9  | 26.60 | 112   |        |  |
| 5000-5500 AX |    |    |     |     |    |    |    |    |    |    |   |     |   |   |   |    |    |    |     |    |    |    |    |    |    |     |    |    |    |    |    |       |       | 30.60  |  |

Odell reported to 4969 at end of May 26<sup>th</sup> but he did not add record by hand from 4924-4930 = 6' total amount or 4923?

| CEMENTING | CONDITIONING | CASING                  | 26 | 27 | 28 | 29 | 30 | 31 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | TOTAL | PRICE | AMOUNT |
|-----------|--------------|-------------------------|----|----|----|----|----|----|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------|-------|--------|
|           |              | hd Survey & wdg bellies |    |    |    |    |    |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |        |
|           |              |                         |    |    |    |    |    |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |        |

ms 16 16 16 16 - - 24 8 working steeling

| MATERIALS       | 26 | 27 | 28 | 29 | 30 | 31 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | TOTAL | PRICE | AMOUNT |   |  |
|-----------------|----|----|----|----|----|----|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------|-------|--------|---|--|
| Mud             | 1  | -  | -  | -  | 2  |    | 2 | 1 | 2 | 2 | 3 | - | 3 | - | - | -  | -  | -  | -  | 0  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | 16    | 15    | 4.00   |   |  |
| Dextrin         |    |    |    |    |    |    |   |   |   |   | 1 |   | 1 | 1 |   | 1  |    |    |    |    |    |    | 1  |    |    |    |    |    |    |    |    |       | 6     |        |   |  |
| CC-16           |    |    |    |    |    |    |   |   |   | 1 |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       | 1      |   |  |
| Walnut Flour    |    |    |    |    |    |    |   |   |   |   |   | 1 |   |   | 1 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       | 2      |   |  |
| Lo-Loss         |    |    |    |    |    |    |   |   |   |   |   |   |   | 1 |   | 1  |    |    |    |    |    |    |    | 1  |    |    |    |    |    |    |    |       |       | 3      |   |  |
| base laminated  |    |    |    |    |    |    |   |   |   |   |   |   |   |   |   |    | 1  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       | 1      |   |  |
| B-33 (5 gal)    |    |    |    |    |    |    |   |   |   |   |   |   |   |   |   |    | 1  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       | 1      |   |  |
| Dredg Mud Sol.  |    |    |    |    |    |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |        | 1 |  |
| Portland Cement |    |    |    |    |    |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |        | 2 |  |
| Collex          |    |    |    |    |    |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |        | 1 |  |

| TRUCK RENTAL | MILEAGE | LOADS OF WATER (pond) | 26 | 27 | 28 | 29 | 30 | 31 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | TOTAL | PRICE | AMOUNT |  |
|--------------|---------|-----------------------|----|----|----|----|----|----|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------|-------|--------|--|
|              |         |                       |    |    |    |    |    |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |        |  |
|              |         |                       |    |    |    |    |    |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |        |  |

| MISC.      | 26 | 27 | 28 | 29 | 30 | 31 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | TOTAL | PRICE | AMOUNT |  |  |
|------------|----|----|----|----|----|----|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------|-------|--------|--|--|
| Core Boxes |    |    |    |    |    |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |        |  |  |
|            |    |    |    |    |    |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |        |  |  |

# Duels

# 535

MONTH 360.00  
65 0.40  
NC  
SUB TOTAL 8 150  
TOTAL

4857  
112  
4969

AX 112' ✓

8 boxes

65 mile

Casing 4/26 - 27 24 hrs ✓

Log 5/11 6 hrs ✓

1 bag cement ✓

2 portland ✓

Cementing 5/11 - 10 hrs

" 5/15 - 16 hrs

5/16 - 16

5/17 16

5/18 14

5/21 24 hrs

5/22  $\frac{8}{106}$  ✓

15 bag mud

Dick 1

CC-16 - 1

Walnut 2

B-33 - 1

Dustin 6

Loss 3 ✓

Collar 1

5/31/79

Note. In May Invoices  
from Driller Odell Powers. He  
reported 112 feet of AX coring  
from 4857 to 4969 which  
was through May 26<sup>th</sup> (weekend).

$$\begin{array}{r} 4969. \\ 4857 \\ \hline 112 \text{ ft.} \end{array}$$

However, he did not include the  
coring in the wedge section from  
4924 - 4930 in which full core  
was recovered.

Check invoice to see billing.

10-12..

EXPLORATION AUTHORIZATION NO. 0010-15

TUCSON OFFICE

SUPERIOR EAST PROJECT

MAY - 1979

COCHISE COUNTY, ARIZONA

| Account No. | Item                                   | This Month        | This Year         | Total to Date      |
|-------------|--|-------------------|-------------------|--------------------|
| 506-050     | Rental Payments - Other                |                   |                   | 579 00             |
| 521-100     | Surface Drilling - Salaries            |                   |                   | 87 65              |
| 521-200     | - Add. Labor                           |                   |                   | 604 00             |
| 521-350     | - Equip. Rental                        | 604 00            | 604 00            | 24 90              |
| 521-600     | - Traveling                            |                   | 12 90             | 116699 47          |
| 521-750     | - Services                             | 12 510 08         | 67 974 22         | 69 44              |
| 521-780     | - Fuel, Power, Water                   |                   |                   | 56 60              |
| 521-801     | - Sales Tax                            |                   | 56 60             | 4703 00            |
| 530-100     | Geology - Salaries                     | 12 35 00          | 3397 00           | 998 75             |
| 530-200     | - Add. Labor                           | 2 88 21           | 797 56            | 2 09               |
| 530-400     | - Supplies                             |                   | 2 09              | 240 72             |
| 530-600     | - Traveling                            | 15 25             | 118 27            |                    |
| 530-801     | - Sales Tax                            |                   |                   |                    |
| 540-100     | Sampling, Assaying, Lab. - Salaries    |                   | 312 00            | 515 00             |
| 540-150     | - Wages                                |                   |                   | 217 32             |
| 540-200     | - Add. Labor                           |                   | 74 31             | 123 98             |
| 540-750     | - Services                             | 43 56             | 258 36            | 263 36             |
| 570-100     | Engineering - Salaries                 |                   |                   |                    |
| 570-200     | - Add. Labor                           |                   |                   |                    |
| 570-750     | - Services                             |                   |                   |                    |
| 580-100     | Temporary Construction - Salaries      |                   |                   |                    |
| 580-200     | - Add. Labor                           |                   |                   |                    |
| 580-400     | - Supplies                             |                   |                   |                    |
| 580-750     | - Services                             |                   | 446 16            | 1725 65            |
| 580-801     | - Sales Tax                            |                   |                   |                    |
| 590-750     | Construction - Services                |                   |                   |                    |
| 590-801     | - Sales Tax                            |                   |                   |                    |
| 610-400     | Field Administration - Supplies        |                   |                   |                    |
| 610-500     | - Communications                       | 16 93             | 86 77             | 169 34             |
| 610-600     | - Traveling                            |                   | 124 44            | 124 44             |
| 610-780     | - Fuel, Power, Water                   | 11 87             | 61 79             | 98 69              |
| 610-801     | - Sales Tax                            |                   |                   |                    |
| 620-100     | General Administration - Salaries      | 102 00            | 443 00            | 1100 00            |
| 620-150     | - Wages                                |                   |                   |                    |
| 620-200     | - Add. Labor                           | 25 07             | 103 71            | 235 83             |
| 620-400     | - Supplies                             | 53                | 9 51              | 18 80              |
| 620-750     | - Services                             |                   |                   |                    |
| 620-801     | - Sales Tax                            | 03                | 56                | 1 11               |
| 620-950     | - Other                                |                   |                   | 4 00               |
| 641-400     | Distributable Accounts Auto - Supplies | 181 79            | 912 98            | 1478 56            |
| 641-801     | - Sales Tax                            | 81                | 2 48              | 5 77               |
|             |  | <u>\$15035.13</u> | <u>\$75798.71</u> | <u>\$130147.47</u> |

Authorized

\$ 146 000.00

Expended

130 147.47

Balance Unexpended

\$ 15 852.53

A-11

Orig: TCOsborne

cc: FRM, NV, CWC, TES, FTG, File-2

A-II FOOTAGE

4961 - 5000'

$$39' @ 26.60 = \$ 1037.40$$

5000 - 5175

$$175' @ 30.60 = \$ 5355.00$$

---

$$\$ 6392.40$$



# JOY MANUFACTURING COMPANY

OLIVER BUILDING  
PITTSBURGH, PENNSYLVANIA 15222

PLEASE REMIT TO  
P. O. BOX 360135M  
PITTSBURGH, PA. 15250

|                      |                    |               |      |               |         |
|----------------------|--------------------|---------------|------|---------------|---------|
| CUSTOMER'S ORDER NO. | DATE               | REQ. NO.      | DATE | AT REC. POINT | B.O.NO. |
| CONTRACT             | CODE               | OUR ORD'R NO. | DATE | AT SHIP POINT |         |
|                      | 99 69 05 03 02 209 |               |      | 418           |         |

02250  
SOLD TO  
Asarco, Inc.  
P.O. Box 5747  
Attn: Mr. N. P. Whaley  
Tucson, Arizona 85703

SHIPPED TO  
Superior, Arizona

TERMS NET 30 DAYS  
NO CASH DISCOUNT

INVOICE NO. 52117589

INVOICE DATE 7/16/79

PLEASE REMIT TO  
P. O. BOX 360135M  
PITTSBURGH, PA. 15250

DATE SHIPPED

SHIPPED VIA

P. O. ADDRESS

MARKS

REQUESTED ROUTING

SHIPPED FROM Michigan City, Indiana

| ORIGINAL QUANTITY ORDERED | PART NUMBER       | DESCRIPTION  | CODE | UNIT PRICE        | QUANTITY BACK ORDERED | QUANTITY SHIPPED  | AMOUNT    |  |
|---------------------------|-------------------|--|------|-------------------|-----------------------|-------------------|-----------|--|
|                           |                   | To 214' Core Drilling at Superior, Arizona for Period Ending June 25, 1979 as Per Agreement. |      |                   |                       |                   |           |  |
|                           | <u>PROSPECT #</u> | <u>FROM</u> <u>TO</u>  |      | <u>TOTAL FEET</u> | <u>UNIT COST</u>      | <u>TOTAL COST</u> |           |  |
|                           | A-11              | AX 4961. 5175.   |      | 214.              | Hourly                |                   |           |  |
|                           |                   | RIG TIME - DRILLING AT HOURLY RATE PER J.H. KOONTZ'S LETTER DATED MAY 4                      |      |                   |                       |                   |           |  |
|                           | A-11              | May 26 16 Hrs.   |      |                   |                       |                   |           |  |
|                           |                   | May 29 16 Hrs.   |      |                   |                       |                   |           |  |
|                           |                   | May 30 16 Hrs.   |      |                   |                       |                   |           |  |
|                           |                   | May 31 16 Hrs.   |      |                   |                       |                   |           |  |
|                           |                   | June 1 16 Hrs.   |      |                   |                       |                   |           |  |
|                           |                   | June 2 16 Hrs.   |      |                   |                       |                   |           |  |
|                           |                   | June 4 24 Hrs.   |      |                   |                       |                   |           |  |
|                           |                   | June 5 24 Hrs.   |      |                   |                       |                   |           |  |
|                           |                   | June 6 24 Hrs.   |      |                   |                       |                   |           |  |
|                           |                   | June 7 24 Hrs.   |      |                   |                       |                   |           |  |
|                           |                   | June 8 24 Hrs.   |      |                   |                       |                   |           |  |
|                           |                   | June 11 21 Hrs.  |      |                   |                       |                   |           |  |
|                           |                   | June 12 24 Hrs.  |      |                   |                       |                   |           |  |
|                           |                   | June 13 24 Hrs.  |      |                   |                       |                   |           |  |
|                           |                   | June 14 24 Hrs.  |      |                   |                       |                   |           |  |
|                           |                   | June 15 24 Hrs.  |      |                   |                       |                   |           |  |
|                           |                   | June 16 24 Hrs.  |      |                   |                       |                   |           |  |
|                           |                   | June 18 24 Hrs.  |      |                   |                       |                   |           |  |
|                           |                   | June 19 24 Hrs.  |      |                   |                       |                   |           |  |
|                           |                   | June 20 8 Hrs.   |      |                   |                       |                   |           |  |
|                           |                   | 413 Hrs. @36.00/Hr.  |      |                   |                       |                   | 14,868.00 |  |

DUPLICATE

F. O. B. SHIPPING POINT UNLESS OTHERWISE SPECIFIED

09007

NO RETURNS ALLOWED UNLESS AUTHORIZED BY THIS OFFICE

GOODS COVERED BY THIS INVOICE WERE PRODUCED IN COMPLIANCE WITH THE REQUIREMENTS OF THE FAIR LABOR STANDARDS ACT OF 1938, AS AMENDED, INCLUDING SECTION 12(A).



# JOY MANUFACTURING COMPANY

PAGE NO. 2

**SOLD**

Asarco, Inc.

|                     |               |               |          |             |
|---------------------|---------------|---------------|----------|-------------|
| OUR<br>ORDER<br>NO. | AT REC. POINT | AT SHIP POINT | B.O. NO. | INVOICE NO. |
|                     |               |               |          | 52117589    |

| ORIGINAL<br>QUANTITY<br>ORDERED | UNIT | PART NUMBER | DESCRIPTION                         | CODE | UNIT PRICE | QUANTITY<br>BACK<br>ORDERED | QUANTITY<br>SHIPPED        | AMOUNT              |
|---------------------------------|------|-------------|-------------------------------------|------|------------|-----------------------------|----------------------------|---------------------|
|                                 |      |             | <u>SURVEY TIME</u>                  |      |            |                             |                            |                     |
|                                 | A-1  |             | June 20th 12 Hrs. @ 30.00/Hr.       |      |            |                             |                            | 360.00              |
|                                 |      |             | <u>SET &amp; PULL CASING</u>        |      |            |                             |                            |                     |
|                                 | A-1  |             | June 21 16 Hrs.                     |      |            |                             |                            |                     |
|                                 |      |             | June 22 16 Hrs.                     |      |            |                             |                            |                     |
|                                 |      |             | June 25 8 Hrs.                      |      |            |                             |                            |                     |
|                                 |      |             | 40 Hrs. @ 30.00/Hr.                 |      |            |                             |                            | 1200.00             |
|                                 |      |             | <u>MUD &amp; ADDITIVES USED</u>     |      |            |                             |                            |                     |
|                                 |      |             | 7 50 # Bags Dextrid @ 79.04         |      |            |                             |                            | 553.28              |
|                                 |      |             | 55 Gals Soluble Oil @ 2.40/Gal      |      |            |                             |                            | 132.00              |
|                                 |      |             | 3 50# Bags Lo Loss @ 166.16         |      |            |                             |                            | 498.48              |
|                                 |      |             | 3 50# Bags Walnut Flour @ 21.24     |      |            |                             |                            | 63.72               |
|                                 |      |             | <u>CORE BOXES USED</u>              |      |            |                             |                            |                     |
|                                 |      |             | 23 Cardboard Core Boxes @ 1.50/Each |      |            |                             |                            | 34.50               |
|                                 |      |             | <u>WATER TRUCK RENTAL</u>           |      |            |                             |                            |                     |
|                                 |      |             | May 26th thru June 25th             |      |            |                             |                            |                     |
|                                 |      |             | 1 Truck @ 360.00/Month              |      |            |                             |                            | 360.00              |
|                                 |      |             | 13 Miles @ .40/Mile                 |      |            |                             |                            | 5.20                |
|                                 |      |             |                                     |      |            |                             |                            | 18,075.18           |
|                                 |      |             |                                     |      |            |                             | <i>credit</i> (-) 5,775.60 |                     |
|                                 |      |             |                                     |      |            |                             |                            | <u>\$ 12,299.58</u> |

See NPW letter  
memo of 11/15/79

Ending June 25, 1979.

Quitt  
52117589

(8)

5/25

No GY.

5/24

drill  
time

8' core; 2 runs to clean hole in AK1  
Pulled into casing for weekend

No GY shift

5/27 Sun

5/28 Holiday

5/29

drill time

6' core; pulled for bit change @ 4975'  
No GY.

(4961)

5/30

dull times

16' core; 2 1/2' sand, sludge & cave.

Pulled into casing No GY shift

5/31

dull times

6' core, cleaned tanks pulled for bit change at 4997, ran in to bottom of casing. No GY shift

4/1

dull times  $\frac{3'}{5000}$   
15'

18' core, put bit on bottom 2' sand, 10' core, chasing tube each time. No GY shift.

4/2

dull times

11' core pulled into casing for weekend No GY shift.

4/3 Sunday

6/4

dull times

12' core pulled for bit change @ 5026; had to clean out core from wedge plus 14' near bottom

4/5

dull times

29' core, chasing tube every time

4/6

dull times

10' core Complete bit change @ 5074, with 11' core on bottom 1 1/2 hrs repair.

4/7

dull times

25' core; serviced rig, cleaned tanks.

6/8 drill time, 25' core, pulled into casing for weekend  
(5127)

6/9 Sat

6/10 Sun

6/11 21 hrs rig time  
(5130)

3' core; 3 hrs delay hauling fuel, washed bridge @ 4927 & 5047; ~~completed~~ bit change @ 5129; bridges from 4905 and 2' of core on bottom.

6/12 drill time

18' core; mixed new mud; trouble with sludge & hi pressure.

6/13 drill time

8' core <sup>completely bit change @ 5153;</sup> ~~4 hrs delay on new steel; cleaned tanks & new mud pumped. Topped bit change at 5159; bridges & 5' of fill. 4 bridges & 7' of fill.~~

6/14 20 hrs rig time

4' core; 4 hrs delay new arrival; cleaned tanks & pumped new mud. Changed bit at 5159; bridges & 5' of fill.

6/15 drill time

15' core, hi water pressure, pulled for bit change at 5175'.

6/16 23 hrs rig time? (5175)

⊙, the rig again; completed running in, washed sand & core from 5137; tried to drill 1' of core; pulled rods; crowm lost off of bit.

6/17 Sunday

4/18 8 hrs delay  
24/16 hrs rig time

(8 hrs)  
Recovered lost crown, drilling budge,  
pulled for bit change; drilled sand  
& gone at 5117'; got within 6' of  
bottom.

4/19 2 1/2 hrs repair  
5 1/2 hrs delay  
16 hrs rig time cleaning  
for survey

2 1/2 hrs repair; cut out & recovered  
part of lost bit crown; cut 1' of cave  
on bottom; pulled for survey in AM  
tomorrow; went in with open red  
w/case pin 4870-4918.

4/20 8 hrs rig time  
12 hrs surveying time

T.D. Hall. 8 hrs washing to 5169  
to survey hole. 12 hrs surveying  
hole. No 6Y shift.

4/21 16 hrs casing

Replaced injector line; broke out saw AX,  
washed inside casing; lower cutter  
to 4790', no go. started out.  
No 6Y shift.

4/22 16 hrs casing

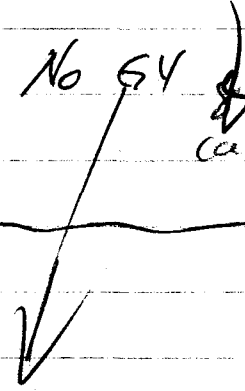
Pulled rods out, cleaned cutter, returned  
to 4700', cutter would come out, pulled  
& cleaned & started back in.  
No 6Y shift.

4/23 Sat  
4/24 Sun

4/25 No 6Y 7 hrs  
casing

Double crews; running rods in hole but  
caught them in foot clamp. head diller  
to 100m for top etc. Had to cut down  
drum to hook up.

4/26



41

HOLE A-11 PROJECT Superior East EA-0010 26th May RU 25th June, 19 79 CONTRACTOR Jay

DESCRIPTION: 4969 5175

|                     | 26 | 27  | 28   | 29 | 30 | 31 | 1             | 2  | 3   | 4  | 5  | 6  | 7  | 8  | 9   | 10  | 11 | 12 | 13 | 14 | 15 | 16 | 17  | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | TOTAL | PRICE | AMOUNT |       |
|---------------------|----|-----|------|----|----|----|---------------|----|-----|----|----|----|----|----|-----|-----|----|----|----|----|----|----|-----|----|----|----|----|----|----|----|----|-------|-------|--------|-------|
| FEET DRILLED        |    |     |      |    |    |    |               |    |     |    |    |    |    |    |     |     |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |       |       |        |       |
| <u>4969-5000 AX</u> | 8  | Sun | Hold | 6  | 16 | 6  | <del>3</del>  |    |     |    |    |    |    |    |     |     |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |       |       |        | 26.60 |
| <u>5000- AX</u>     |    |     |      |    |    |    | <del>10</del> | 11 | Sun | 12 | 29 | 10 | 25 | 25 | Sat | Sun | 3  | 18 | 8  | 4  | 15 | ⊖  | Sun | ⊖  | ⊖  | TD |    |    |    |    |    |       |       | 30.60  |       |

*Call reported in the 4969, it and May 26<sup>th</sup>  
 However he did not report reason of why  
 section of 4924-4930 which should be  
 paid for. Check invoice. ? on 4924 as a start?*

*lost crown  
 hole!*

| CEMENTING        | CONDITIONING | CASING |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|------------------|--------------|--------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|                  |              |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <u>Surveying</u> |              |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <u>de keys</u>   |              |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

| MATERIALS             |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-----------------------|--|--|--|--|--|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| <u>Loss</u>           |  |  |  |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <u>Restrod</u>        |  |  |  |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <u>Walnut Floor</u>   |  |  |  |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <u>Skull out (bl)</u> |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

| TRUCK RENTAL | MILEAGE | LOADS OF WATER |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--------------|---------|----------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|              |         |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| <u>con boxes</u> |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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4535

last wire box = 559

SUB TOTAL

SUB TOTAL

SUB TOTAL

SUB TOTAL

SUB TOTAL

TOTAL

MONTHLY COST SUMMARY

June 1979  
26<sup>th</sup> May  
25 June

Superior East EA-0010 Project, Pinal (County)

Az (State)

DIRECT DRILLING (Acct. 521-)

CONTRACTORS' CHARGES

Invoiced during month covering current month's work

Contractors' Services

(1) May Estimate (4857-4968) = 11,000<sup>00</sup>  
May Invoice = 18,244.42

Statement Amt.

Billing being negotiated

Estimated balance of contractors' charges covering work through end of current month

Contractors' Services

June Estimate 4961-5175 (See NPW)  
submitted

Estimated Cost

Estimate 10,000<sup>00</sup>

Supplies and Freight

Old Trailer Rental

Water Purchases (Drilling)

SITE PREPARATION (Acct. 580-)

CONTRACTORS' CHARGES

Invoiced during month covering current month's work

Contractors' Services

Statement Amt.

Estimated balance of contractors' charges covering work through end of current month

Contractors' Services

Estimated Cost

Supplies and Freight

SAMPLERS, SAMPLING, SAMPLE PREPARATION, ASSAYING (Acct. 540-)

Wages (Temporary Help)

| Name  | No. of Straight Time Hours During Month | No. of Overtime Hours During Month |
|-------|---|------------------------------------|
| _____ | _____                                   | _____                              |
| _____ | _____                                   | _____                              |

Assaying

| Assayer  | Charge or Estimated Expense for Assaying Performed During Month |
|--|---|
| AARL   |   |
| Invoice 14380 (Est last month correct) (\$11.00) |   |
| " 14412 (#101-120) \$56.00                       |   |
| " 14437 (#121-138) 69.50                         |   |
|  | \$125.50  |

CLAIM STAKING, VALIDATION (Acct. 507-)

Invoiced during month covering current month's work

| Contractors' Services | Statement Amt. |
|-----------------------|----------------|
| _____                 | _____          |
| _____                 | _____          |

Estimated balance of contractors' charges covering work through end of current month

| Contractors' Services | Estimated Cost |
|-----------------------|----------------|
| _____                 | _____          |
| _____                 | _____          |

Wages

| Name  | No. of Straight Time Hours During Month | No. of Overtime Hours During Month |
|-------|---|------------------------------------|
| _____ | _____                                   | _____                              |
| _____ | _____                                   | _____                              |

E. OTHER (Itemize any other major expenses not covered above or by invoice.)

| Item                            | Cost                   |
|---------------------------------|------------------------|
| Sperry Seen Est of May = 448.00 |                        |
| " " Invoice 35506 6.00          |                        |
| " " Invoice 35901 (Freight)     |                        |
|                                 | (+) 156.00 to be added |
|                                 | 21.00                  |





# JOY MANUFACTURING COMPANY

OLIVER BUILDING  
PITTSBURGH, PENNSYLVANIA 15222

PLEASE REMIT TO  
P. O. BOX 360135M  
PITTSBURGH, PA. 15250

|                   |          |           |      |               |          |
|-------------------|----------|-----------|------|---------------|----------|
| BUYER'S ORDER NO. | DATE     | REQ. NO.  | DATE | AT REC. POINT | B.O. NO. |
| CONTRACT          | 99 69 05 | 03 02 209 |      |               |          |

02250

SOLD TO

Asarco Inc.  
P. O. Box 5747  
Tucson, AZ 85703

Attn: Mr. N. P. Whaley

SHIPPED TO

Superior, AZ

P. O. ADDRESS

MARKS

REQUESTED ROUTING

SHIPPED FROM Michigan City

TERMS NET 30 DAYS  
NO CASH DISCOUNT

INVOICE NO. 52117532

INVOICE DATE 6/6/79

PLEASE REMIT TO  
P. O. BOX 360135M  
PITTSBURGH, PA. 15250

DATE SHIPPED

SHIPPED VIA

| ORIGINAL QUANTITY ORDERED | PART NUMBER                      | DESCRIPTION   | CODE      | UNIT PRICE        | QUANTITY BACK ORDERED | QUANTITY SHIPPED  | AMOUNT   |
|---------------------------|----------------------------------|---|-----------|-------------------|-----------------------|-------------------|----------|
|                           |                                  | To 104.' core drilling at Superior, AZ for period ending May 25, 1979 as per agreement. |           |                   |                       |                   |          |
|                           | <u>PROSPECT NO.</u>              | <u>FROM</u>   | <u>TO</u> | <u>TOTAL FEET</u> | <u>UNIT COST</u>      | <u>TOTAL COST</u> |          |
|                           | A-11                             | AX  | 4857.     | 4961.             | 104.                  | Hourly            |          |
|                           | <u>CEMENTING AND/OR PLUGGING</u> |   |           |                   |                       |                   |          |
|                           | A-11                             | May 11  | 12 hours  |                   |                       |                   |          |
|                           |                                  | May 15  | 16 hours  |                   |                       |                   |          |
|                           |                                  | May 14  | 8 hours   |                   |                       |                   |          |
|                           |                                  | May 16  | 16 hours  |                   |                       |                   |          |
|                           |                                  | May 17  | 16 hours  |                   |                       |                   |          |
|                           |                                  | May 18  | 16 hours  |                   |                       |                   |          |
|                           |                                  | May 21  | 24 hours  |                   |                       |                   |          |
|                           |                                  | May 22  | 8 hours   |                   |                       |                   |          |
|                           |                                  | 116 hours @ \$30.00/hour  |           |                   |                       |                   | 3,480.00 |
|                           | <u>SET &amp; PULL CASING</u>     |   |           |                   |                       |                   |          |
|                           | A-11                             | April 26  | 24 hours  | @ \$30.00/hour    |                       |                   | 720.00   |
|                           | <u>SURVEY TIME</u>               |   |           |                   |                       |                   |          |
|                           | A-11                             | May 11  | 6 hours   | @ \$30.00/hour    |                       |                   | 180.00   |

**ORIGINAL**

09007

F. O. B. SHIPPING POINT UNLESS OTHERWISE SPECIFIED

NO RETURNS ALLOWED UNLESS AUTHORIZED BY THIS OFFICE

GOODS COVERED BY THIS INVOICE WERE PRODUCED IN COMPLIANCE WITH THE REQUIREMENTS OF THE FAIR LABOR STANDARDS ACT OF 1938, AS AMENDED, INCLUDING SECTION 12(A).

# MANUFACTURING COMPANY

PAGE NO. 2

SOLD

Asarco Inc.

|               |               |               |          |                         |
|---------------|---------------|---------------|----------|-------------------------|
| OUR ORDER NO. | AT REC. POINT | AT SHIP POINT | B.O. NO. | INVOICE NO.<br>52117532 |
|---------------|---------------|---------------|----------|-------------------------|

| ORIGINAL QUANTITY ORDERED  | UNIT | PART NUMBER | DESCRIPTION                           | CODE | UNIT PRICE | QUANTITY BACK ORDERED | QUANTITY SHIPPED | AMOUNT   |
|--|------|-------------|---------------------------------------|------|------------|-----------------------|------------------|----------|
| <u>MUD AND ADDITIVES USED</u>  |      |             |                                       |      |            |                       |                  |          |
|  |      |             | 15 ✓ 50# bags drilling mud @ \$4.00   |      |            |                       |                  | 60.00    |
|  |      |             | 1 ✓ 50# bag CC-16 @ \$30.19           |      |            |                       |                  | 30.19    |
|  |      |             | 1 ✓ 50# bag Cellex @ \$191.92         |      |            |                       |                  | 191.92   |
|  |      |             | 6 ✓ 50# bags Dextrid @ \$79.04        |      |            |                       |                  | 474.24   |
|  |      |             | 1 40# bag Hyseal @ \$21.62            |      |            |                       |                  | 21.62    |
|  |      |             | 1 ✓ 94# bag Lumnite cement @ \$18.56  |      |            |                       |                  | 18.56    |
|  |      |             | 2 ✓ 94# bags Portland Cement @ \$6.23 |      |            |                       |                  | 12.46    |
|  |      |             | 1 ✓ 5 gal. can B-33 @ \$58.97         |      |            |                       |                  | 58.97    |
|  |      |             | 3 ✓ bags Lo Loss @ \$166.16           |      |            |                       |                  | 498.48   |
|  |      |             | 2 ✓ bags walnut flour @ \$21.24       |      |            |                       |                  | 42.48    |
|  |      |             |                                       |      |            |                       | Total mud        | 1,408.92 |
| <u>CORE BOXES USED</u>   |      |             |                                       |      |            |                       |                  |          |
|  |      | A-11        | 8 cardboard core boxes @ \$1.50 ✓     |      |            |                       |                  | 12.00    |
| <u>WATER TRUCK RENTAL</u>  |      |             |                                       |      |            |                       |                  |          |
|  |      | A-11        | April 26 thru May 25                  |      |            |                       |                  |          |
|  |      |             | 1 truck @ \$360.00/month ✓            |      |            |                       |                  | 360.00   |
|  |      |             | 65 miles @ \$.40/mile ✓               |      |            |                       |                  | 26.00    |
| <u>WEDGING TIME AND DRILLING BY WEDGE</u>  |      |             |                                       |      |            |                       |                  |          |
|  |      | A-11        | May 10 8 hours                        |      |            |                       |                  |          |
|  |      |             | May 11 3 hours ✓                      |      |            |                       |                  |          |
|  |      |             | May 22 16 hours                       |      |            |                       |                  |          |
|  |      |             | May 23 16 hours                       |      |            |                       |                  |          |
|  |      |             | 43 hours @ \$36.00/hour               |      |            |                       |                  | 1,548.00 |
| <u>DEFLECTING WEDGE</u>  |      |             |                                       |      |            |                       |                  |          |
|  |      |             | 1 #19488 AX deflecting wedge          |      |            |                       |                  | 465.50   |
| <u>RIG TIME</u> (Submitted for your approval per J. H. Koontz letter to N. P. Whaley dated May 14, 1979. Note that this amount is in lieu of footage charges which would have amounted to \$2,766.40 for this same period) |      |             |                                       |      |            |                       |                  |          |
|  |      |             | April 27 11 hours                     |      |            |                       |                  |          |
|  |      |             | April 30 13½ hours                    |      |            |                       |                  |          |
|  |      |             | May 1 24 hours                        |      |            |                       |                  |          |

*Dicks Mud Seal @ 23.04*

*... ..  
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SOLD TO Asarco Inc.

|               |               |               |          |                         |
|---------------|---------------|---------------|----------|-------------------------|
| OUR ORDER NO. | AT REC. POINT | AT SHIP POINT | B.O. NO. | INVOICE NO.<br>52117532 |
|---------------|---------------|---------------|----------|-------------------------|

| ORIGINAL QUANTITY ORDERED | UNIT | PART NUMBER | DESCRIPTION              | CODE | UNIT PRICE | QUANTITY BACK ORDERED | QUANTITY SHIPPED | AMOUNT      |
|---------------------------|------|-------------|--------------------------|------|------------|-----------------------|------------------|-------------|
| RIG TIME (continued)      |      |             |                          |      |            |                       |                  |             |
|                           |      |             | May 2 24 hours           | 15   |            |                       |                  |             |
|                           |      |             | May 3 20 hours           | 15   |            |                       |                  |             |
|                           |      |             | May 4 24 hours           | 15   |            |                       |                  |             |
|                           |      |             | May 5 24 hours           |      |            |                       |                  |             |
|                           |      |             | May 7 19 1/2 hours       |      |            |                       |                  |             |
|                           |      |             | May 8 24 hours           |      |            |                       |                  |             |
|                           |      |             | May 9 24 hours           |      |            |                       |                  |             |
|                           |      |             | May 10 16 hours          |      |            |                       |                  |             |
|                           |      |             | May 11 7 hours           |      |            |                       |                  |             |
|                           |      |             | May 14 8 hours           |      |            |                       |                  |             |
|                           |      |             | May 23 8 hours           |      |            |                       |                  |             |
|                           |      |             | May 24 16 hours          |      |            |                       |                  |             |
|                           |      |             | May 25 16 hours          |      |            |                       |                  |             |
|                           |      |             | 279 hours @ \$36.00/hour |      |            |                       |                  | 10,044.00   |
|                           |      |             |                          |      |            |                       |                  | \$18,244.42 |

APPROVED FOR PAYMENT

By: \_\_\_\_\_  
(Signature)



O'Dell Powers S.E.

TEL FR/POWER TO  
LOIS 1630 HRS. 6-26-79

AX 4969-5175 ✓

TO BE USED FOR JUNE  
COST ESTIMATE

23 cow boxes ✓

13 miles ✓

SEE ATTACHED  
MOLLEN-HAUER SURVEYING  
COSTS.

additional Lo loss 3 ✓

Return 7 ✓

Walnut flour 3 ✓

Solid-bait 1-55 gal ✓

Survey time 4/19 - 8 hrs

6/20 - 20 hrs

} 28 ✓

Carrying time 6/21 - 16 hours

6/22 - 16 hours

6/25 - 8 hours

} 40 ✓

# AMERICAN ANALYTICAL and RESEARCH LABORATORIES

ASSAYERS - CHEMISTS - METALLURGISTS

TUCSON, ARIZONA 85714

SAMPLE SUBMITTED BY ASARCO, INC.

DATE May 29, 1979

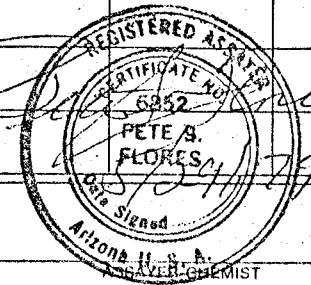
Mr. J. D. Sell

| SAMPLE MARKED       | ANALYSIS | CHARGES  |
|---------------------|----------|----------|
| A-11-97 -- A-11-100 | Cu       | \$ 11.00 |

*OK for Payment  
James D. Sell  
EA-0010*

THANK YOU MUCH!

|  |  |  |  |  |  |  |  |  |  |
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CHARGES \$ 11.00  
INVOICE NO. 16380

3441 East Milber

INVOICE NO. 16412

Phone 889-5787

# AMERICAN ANALYTICAL and RESEARCH LABORATORIES

ASSAYERS · CHEMISTS · METALLURGISTS

TUCSON, ARIZONA 85714

SAMPLE SUBMITTED BY ASARCO, INC.

DATE June 12, 1979

SAMPLE MARKED

ANALYSIS

CHARGES

A-11-101 -- A-11-120

Cu, (2-Wet Cu)

\$ 56.00

APPROVED FOR PAYMENT

By: James W. Hill  
(Signature)

THANK YOU MUCH!

|          |  |  |      |  |  |  |  |
|----------|--|--|------|--|--|--|--|
| A-11-116 |  |  | 54.6 |  |  |  |  |
| A-11-117 |  |  | 4.35 |  |  |  |  |
| A-11-118 |  |  | 0.97 |  |  |  |  |
| A-11-119 |  |  | 0.25 |  |  |  |  |
| A-11-120 |  |  | 0.29 |  |  |  |  |
|          |  |  |      |  |  |  |  |
|          |  |  |      |  |  |  |  |
|          |  |  |      |  |  |  |  |
|          |  |  |      |  |  |  |  |
|          |  |  |      |  |  |  |  |

CHARGES \$ 56.00

INVOICE NO. 16412







RENTAL ORDER

521

MAY 21 1979

CITY Long Beach

|  |                                     |  |  |                                     |
|--|-------------------------------------|--|--|-------------------------------------|
| RENTED TO<br><b>ASAR Co. Southwest Exploration</b> |                                     | Date Deliv'd/Retn'd<br><b>5-3-79</b>   | Cust. Order No.<br><b>N/A</b>  | Rental Order No.<br><b>55#12424</b> |
| INVOICE TO<br><b>M.S. Exploration Division</b>     |                                     | Delivered To/Returned From<br><b>Continental Airl. N/A</b>   |  |                                     |
| <b>P.O. Box 5747 Tucson Arizona 85730</b>          |                                     | VIA <b>Cont. Airl.</b> PPD Collect Charge Cust. Yes/No <input checked="" type="checkbox"/> <input type="checkbox"/> \$ |  |                                     |
| RIG  | WELL <b>Mining</b>                  | FIELD  | NEW RENTAL <input checked="" type="checkbox"/> CANCELLATION <input type="checkbox"/> |                                     |
| LAND LOCATION <input checked="" type="checkbox"/>  | COUNTY OR PARISH <b>Pima County</b> | STATE <b>Arizona</b>   | RENEWAL OF R.O. <input type="checkbox"/> REPLACEMENT <input type="checkbox"/>        |                                     |
| WATER LOCATION <input type="checkbox"/>            |                                     | DIST. OFFICE <b>L.B.</b>   | ADDL. EQUIP. <input type="checkbox"/>  |                                     |

| CHARGES | RENTAL CHARGES |        |                  |                   | OUTRIGHT SALES | TRANSP. CHARGES | CO. RESPONSIBILITY |      | START  | END |
|---------|----------------|--------|------------------|-------------------|----------------|-----------------|--------------------|------|--------|-----|
|         | 1 Year         | Months | Daily            | 1-5 Day           |                |                 | IN HOLE            | FULL |        |     |
| REGULAR |                |        | 26 <sup>00</sup> | 265 <sup>00</sup> |                |                 |                    |      | 5-3-79 |     |
| EXTRA   |                |        | 2 <sup>00</sup>  | 16 <sup>00</sup>  |                |                 |                    |      | 5-3-79 |     |

RENTAL CONDITIONS:  
It is understood that all rentals are subject to the terms and conditions set forth in Price List No. **M1-79** and that the Renter when signing this order accepts these terms and conditions. Invoices are payable at the Houston, Texas office. In the event the Renter shall violate any of the terms and conditions, or if the Renter shall become bankrupt or insolvent, or a receiver shall be appointed for Renter's business, or if any warrant or attachment be levied thereon, Sperry-Sun, Inc. shall have the right to repossess the equipment wherever found, without notice and with or without legal process.

REMARKS: **Customer to pay all freight charges.**

SPERRY-SUN, INC. BY: Rosen / Fleming

RENTER: Per Telephone Conversation BY: Mollenhauer

CC:

| REGULAR EQUIPMENT |                          |           |           | EXTRA EQUIPMENT |                         |           |  |
|-------------------|--------------------------|-----------|-----------|-----------------|-------------------------|-----------|--|
| DELIVERED         | EQUIPMENT                | SIZE/TYPE | PICKED UP | DELIVERED       | EQUIPMENT               | SIZE/TYPE | PRICE PICKED UP                                |
| 1                 | INSTRUMENT               | B         |           |                 | INSTRUMENT              |           |  |
|                   | MMO INSTRUMENT           |           |           |                 | MMO INSTRUMENT          |           |  |
|                   | COMPASS                  |           |           |                 | MMO READER              |           |  |
|                   |                          |           |           |                 | COMPASS                 |           |  |
| 1                 | ANG. UNIT/I.O.L.         | 20° B     |           | 1               | Swivel                  | B         | 8 <sup>00</sup> 5 DAYS MIN 1 <sup>00</sup> DAY |
| 1                 | DEVELOPING TANK          | B         |           |                 | SSEEP                   |           |  |
| 231-334           | CIRCUIT BREAKER          | 30x50' B  |           |                 | CIRCUIT BREAKER         |           |  |
| 1444-154          | LOADER                   | B         |           |                 | LOADER                  |           |  |
| 1                 | PROTECTIVE CASING        | 6x1/4" B  |           |                 | PROTECTIVE CASING       |           |  |
|                   | EXTENSION BAR            |           |           |                 | EXTENSION/SINKER/BAR    |           |  |
| 1                 | ROPE SOCKET/CON. GUIDE   | B         |           |                 | ROPE SOCKET/CON. GUIDE  |           |  |
|                   | SINKER BAR SUB/SPEARHEAD |           |           | 1               | SINKER BAR SUB/SPEARHD. | 1/4x5'    | 8 <sup>00</sup> 1 <sup>00</sup> MIN 5 DAYS DAY |
|                   | STABILIZER GUIDE         |           |           |                 | TOP/BTM LANDG.          |           |  |
|                   | RUBBER SHIELD            |           |           |                 | OVERSHOT                |           |  |
| 1                 | Kit Box                  | UNIV      |           | 2               | Crossovers 6"           |           | N/C  |
|                   |                          |           |           |                 | THERMAL SHIELD          |           |  |
|                   |                          |           |           |                 | ORIENTED SNUBBER        |           |  |
|                   |                          |           |           |                 | ORIENTING SUB           |           |  |
|                   |                          |           |           | 1               | MULE SHOE ASSEMBLY      | B         | Charged as N/C Bottom Landing                  |



# sperry-sun

POST OFFICE BOX 100736 HOUSTON, TEXAS 77212

C. D. N.

INVOICE NO.

H 35506

|                              |                       |                     |                |                         |
|------------------------------|-----------------------|---------------------|----------------|-------------------------|
| RENTAL ORDER NO.<br>12424-MI | JOB NO.               | DELIVERY TICKET NO. | DISTRICT<br>LB | INVOICE DATE<br>5-25-79 |
| CUST. ORDER NO.<br>7-272-9   | DATE SHIPPED          | VIA                 | FROM           | TO                      |
| STATE<br>Arizona             | COUNTY/PARISH<br>Pima | FIELD               | WELL<br>Mining | RIG NO.                 |

18-05055-00

ASAR Co. Southwest Exploration  
U.S. Exploration  
P.O. Box 5747  
Tucson, Arizona 85730

TERMS: NET 30 DAYS  
UNLESS OTHERWISE SPECIFIED INTEREST  
CHARGED AT 8% FROM DUE DATE.

IN THE EVENT ACCOUNT IS PLACED  
FOR COLLECTION, AN ADDITIONAL 25%  
OF THE AGGREGATE BALANCE DUE ON  
SAID PRINCIPAL AND INTEREST TOGETHER  
WITH ALL COLLECTION COSTS INCURRED  
WILL BE ADDED HERETO.

|   | UNIT PRICE | TOTAL               |
|---|------------|---------------------|
| Rental Single-Shot Equipment: Type "B", Mining:<br>From 5-3-79 thru 5-18-79, 16 days:<br>First 5 days, Minimum Charge<br>Next 11 days | 26.00      | \$ 265.00<br>286.00 |
| 1-Steel Sinker Bar, First 5 days, Minimum<br>Next 11 days   | 1.50       | 10.00<br>16.50      |
| 1-Spivel, First 5 days, Minimum<br>Next 11 days   | 1.50       | 10.00<br>16.50      |
|   |            | <b>\$ 604.00</b>    |

Freight Charges to follow.

See

psh: LB

T-272-9

SP-2-HO (REV. 18)



# SPERRY-SUN

POST OFFICE BOX 100736 HOUSTON, TEXAS 77212

C.D.N.  
JUN 4 1979

INVOICE NO.

H 35506

|                                 |                       |                     |                |                         |
|---------------------------------|-----------------------|---------------------|----------------|-------------------------|
| RENTAL ORDER NO.<br>SS-12424-MI | JOB NO.               | DELIVERY TICKET NO. | DISTRICT<br>LB | INVOICE DATE<br>5-25-79 |
| CUST. ORDER NO.<br>T-272-9      | DATE SHIPPED          | VIA                 | FROM           | TO                      |
| STATE<br>Arizona                | COUNTY/PARISH<br>Pima | FIELD               | WELL<br>Mining | RIG NO.                 |

18-05055-00

ASAR Co. Southwest Exploration  
 U.S. Exploration  
 P.O. Box 5747  
 Tucson, Arizona 85730

TERMS: NET 30 DAYS  
 UNLESS OTHERWISE SPECIFIED INTEREST  
 CHARGED AT 8% FROM DUE DATE.

IN THE EVENT ACCOUNT IS PLACED  
 FOR COLLECTION, AN ADDITIONAL 25%  
 OF THE AGGREGATE BALANCE DUE ON  
 SAID PRINCIPAL AND INTEREST TOGETHER  
 WITH ALL COLLECTION COSTS INCURRED  
 WILL BE ADDED HERETO.

|   | UNIT PRICE | TOTAL               |
|---|------------|---------------------|
| Rental Single-Shot Equipment: Type "B", Mining:<br>From 5-3-79 thru 5-18-79, 16 days:<br>First 5 days, Minimum Charge<br>Next 11 days | 26.00      | \$ 265.00<br>286.00 |
| 1-Steel Sinker Bar, First 5 days, Minimum<br>Next 11 days   | 1.50       | 10.00<br>16.50      |
| 1-Spivel, First 5 days, Minimum<br>Next 11 days   | 1.50       | 10.00<br>16.50      |
|   |            | \$ 604.00           |

Freight Charges to follow.

psh: LB

APPROVED FOR PAYMENT

By: James W. Leal  
 (Signature)

SE EA-0010



EXPLORATION AUTHORIZATION NO. 0010-15  
 SUPERIOR EAST PROJECT  
 PINAL COUNTY, ARIZONA

TUCSON OFFICE

JUNE - 1979

| Account No. | Item                                   | This Month        | This Year         | Total to Date      |
|-------------|--|-------------------|-------------------|--------------------|
| 506-950     | Rental Payments - Other                | \$                | \$                | \$                 |
| 521-100     | Surface Drilling - Salaries            |                   |                   | 579.00             |
| 521-200     | - Add. Labor                           |                   |                   | 87.65              |
| 521-350     | - Equip. Rental                        |                   | 604.00            | 604.00             |
| 521-600     | - Traveling                            |                   | 12.90             | 24.90              |
| 521-750     | - Services                             | 10 000.00         | 77 974.22         | 126 699.47         |
| 521-780     | - Fuel, Power, Water                   |                   |                   | 69.44              |
| 521-801     | - Sales Tax                            |                   | 56.60             | 56.60              |
| 530-100     | Geology - Salaries                     | 498.00            | 3895.00           | 5201.00            |
| 530-200     | - Add. Labor                           | 113.05            | 910.61            | 1111.80            |
| 530-400     | - Supplies                             | 1.89              | 3.98              | 3.98               |
| 530-600     | - Traveling                            | 26.35             | 144.62            | 267.07             |
| 530-801     | - Sales Tax                            |                   | .09               | .09                |
| 540-100     | Sampling, Assaying, Lab. - Salaries    | 374.00            | 686.00            | 889.00             |
| 540-150     | - Wages                                |                   |                   | 217.32             |
| 540-200     | - Add. Labor                           | 87.21             | 161.52            | 211.19             |
| 540-750     | - Services                             | 115.46            | 373.82            | 378.82             |
| 570-100     | Engineering - Salaries                 |                   |                   |                    |
| 570-200     | - Add. Labor                           |                   |                   |                    |
| 570-750     | - Services                             |                   |                   |                    |
| 580-100     | Temporary Construction - Salaries      |                   |                   |                    |
| 580-200     | - Add. Labor                           |                   |                   |                    |
| 580-400     | - Supplies                             |                   |                   |                    |
| 580-750     | - Services                             |                   | 446.16            | 1725.65            |
| 580-801     | - Sales Tax                            |                   |                   |                    |
| 590-750     | Construction - Services                |                   |                   |                    |
| 590-801     | - Sales Tax                            |                   |                   |                    |
| 610-400     | Field Administration - Supplies        |                   |                   |                    |
| 610-500     | - Communications                       | 19.68             | 106.45            | 189.02             |
| 610-600     | - Traveling                            | 175.98            | 300.42            | 300.42             |
| 610-780     | - Fuel, Power, Water                   | 11.87             | 73.66             | 110.56             |
| 610-790     | - Rent                                 | 1500.00           | 1500.00           | 1500.00            |
| 620-100     | General Administration - Salaries      | 531.00            | 974.00            | 1631.00            |
| 620-150     | - Wages                                |                   |                   |                    |
| 620-200     | - Add. Labor                           | 122.74            | 226.45            | 358.57             |
| 620-400     | - Supplies                             | 9.19              | 18.70             | 27.99              |
| 620-750     | - Services                             |                   |                   |                    |
| 620-801     | - Sales Tax                            |                   | 1.11              | 1.66               |
| 620-950     | - Other                                | 1670.00           | 1670.00           | 1674.00            |
| 641-400     | Distributable Accounts Auto - Supplies | 131.39            | 1044.37           | 1609.95            |
| 641-801     | - Sales Tax                            | .67               | 3.15              | 6.44               |
|             |  | <u>\$15410.12</u> | <u>\$91208.82</u> | <u>\$145557.59</u> |

Authorized  
 Expended

\$ 146 000.00  
145557.59

Balance Unexpended

\$ 442.41

521-550 Surface Drilling - Freight

21.00      21.00      21.00

# AMERICAN ANALYTICAL and RESEARCH LABORATORIES

ASSAYERS · CHEMISTS · METALLURGISTS

TUCSON, ARIZONA 85714

SAMPLE SUBMITTED BY ASARCO, INC.

DATE July 11, 1979

Mr. J. Sell

| SAMPLE MARKED     | ANALYSIS       | CHARGES  |
|-------------------|----------------|----------|
| <u>COMPOSITES</u> |                |          |
| <u>A-11</u>       |                |          |
| 1-5               |                |          |
| 54-63             |                |          |
| 81-84             |                |          |
| 92-100            | Au, Ag, Cu, Mo | \$ 45.00 |
| 28 Samples        | Compositing    | 8.40     |
|                   | TOTAL          | \$ 53.40 |

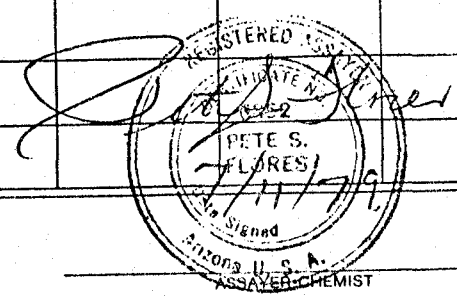
*OK for Payment*  
*Juan D. Sell*  
*Superior East*  
*EA-0010*

THANK YOU MUCH!

|  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|
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CHARGES \$ 53.40

INVOICE NO. 16472



Norm:

7/13/79

Had the chat w/ Jack of Jey and he is rather strongly inclined to think that all time is chargeable. He says, they expect 15' per shift as minimum for "footage charge" - thus the rig time charges on AX drilling (they had been "losing" on BX but didn't want to be bad guys w/ public relations etc).

Thur:

On invoiced charges ending May 25<sup>th</sup>, invoice # 52117532 of 4/4/79. They only charges he would go along with:

5/7/79 16 hrs rig time instead of 19 1/2 hrs rig time.

5/11/79 3 hrs wedging time

6 hrs survey time

12 hrs cementing time

21 hr instead of 28 hrs invoiced for.

(ps. I didn't bother him a bit about invoicing extras).

On cementing time, he says we rent the rig & not the crews time & thus if the crew goes home early (as on 5/18) then they still charge 8 hrs for the shift. He says they are good guys for not charging the 6th shift that went off because of sick crews while cementing - cause the rig was in use.

Thus he would not concede that having no 6th shift during drilling operations is any cause

for us to cry because they would be losing money because of bad ground etc anyway. No indication of remorse over low footage production even tho they were going from BX to AX & knowing the losses prior etc.

Quoices Ending June 25, 1979 (being held by Kooty)

Again no concession because of lack of 6Y shift & low overall footage & so no time charges even tho core was being gathered & many days had "normal drilling operation".

No concession for losing crown on 6/16 & recovery operations on 6/18 (ie no delay - total time part of running time = in time).

On 6/25 when they lost the rods in footage he did concede to charge & his delay for equipment & his casing (chargeable)

Quoices Ending July 25, 1979

6/27 he did concede to have no charges for 16 hrs.

6/28 Only & his casing time chargeable.

6/30 Only 14 hrs " " "

7/5 & 7/6 He did concede to not charge the 16 hrs & 16 hrs (no 6Y) because BX rods were cut above where later proved to be free, yet they couldn't get them loose til Mc Cullough came in.

Jack thinks the BX rods lost (1095') will be charged as AX casing at around 4<sup>75</sup>/ft x 70%. All rest as shown on contract.



(3)

Jack will call in the cost of the lost:  
BXWL bit @  
BX Reaming shell @  
BX outer 5' barrel @  
BX latch & sub coupling @.

I would still like to clarify with Koontz as to client - customer <sup>dull</sup> responsibility - ie, minimum footage they expect.

Loss ~~of~~ of time & footage & continuity, because of lack of 3<sup>rd</sup> shift.

Loss of time etc when bit is lost or fishing is in progress or wrong (?) decision made on cementing (aluminum) etc.

Jack believes all that to customer acct.

Cheers Jim

LOIS :

ALL ARE FOR SUPERIOR EAST ACCOUNT :  
HOLE No. A-11 :

a.) INVOICE H 36693 IS AIRFREIGHT  
RETURN OF WEDGE ORIENTING EQUIPMENT.

TUC → LAX

b.) INVOICE H 36511 IS FOR RENTAL OF  
SINGLE-SHOT SURVEY EQUIPMENT FROM  
SPERRY - SUN 6-20-79 THRU 6-25-79

c.) INVOICE H 36793 IS AIRFREIGHT  
SHIPPING OF THE SINGLE-SHOT SURVEY  
EQUIPMENT LAX → TUC

(RENTAL OF WHICH IS CHARGED IN  
INVOICE 36511 ABOVE)

YOU WILL PROBABLY ULTIMATELY RECEIVE  
AN INVOICE FOR THE RETURN AIRFREIGHT  
OF THE SINGLE-SHOT SURVEY EQUIPMENT  
TUC → LAX

APC



# sperry-sun

POST OFFICE BOX 100736 HOUSTON, TEXAS 77212

INVOICE NO.

H 36693

|                                 |                       |                     |                |                         |
|---------------------------------|-----------------------|---------------------|----------------|-------------------------|
| RENTAL ORDER NO.<br>SS-12424 MI | JOB NO.               | DELIVERY TICKET NO. | DISTRICT<br>LB | INVOICE DATE<br>7-12-79 |
| CONT. ORDER NO.                 | DATE SHIPPED          | VIA                 | FROM           | TO                      |
| STATE<br>Arizona                | COUNTY/PARISH<br>Pima | FIELD               | WELL<br>Mining | RIG NO.                 |

18-05055-00

Asar Co., SW Exploration  
 U.S. Exploration  
 P. O. Box 5747  
 Tucson, Arizona 85730

TERMS: NET 30 DAYS

IN THE EVENT THE INVOICE MUST BE  
 PLACED FOR COLLECTION, LIQUIDATED  
 DAMAGES IN THE AMOUNT OF  
 TWENTY-FIVE PERCENT (25%) OF THE  
 AGGREGATE BALANCE DUE AS WELL  
 AS ALL LEGAL COSTS INCURRED, WILL  
 BE ADDED THERETO.

|  | UNIT PRICE | TOTAL    |
|--|------------|----------|
| ADDITIONAL CHARGES:<br><br>Continental Jetfreight, Invoice #915002701 (5) (T) Attached                                     |            | \$ 28.60 |
| <p>jem: LB</p> <p>APPROVED FOR PAYMENT<br/>           By: <u>F. T. Graybeal</u><br/>           (Signature)</p> <p>0010</p> |            |          |

**CONTINENTAL JETFREIGHT**

**INVOICE**

Purchasing 12846 Receiving 6/25/79  
 Accounting 55-12424 ACCOUNT NO. 28.60  
 Use Tax  Am't. 28.60  
 Charge  Automar  Yes  No  
 Approval JL R...field ADDRESS INQUIRIES TO:

INVOICE NO. 915002701 DATE MAY 30 79

SPERRY SUN INC  
 1360 W ESTHER  
 LONG BEACH

CONTINENTAL AIRLINES  
 CARGO ACCOUNTING  
 LOS ANGELES INT'L AIRPORT  
 LOS ANGELES, CA. 90045

|  |  |
|--|--|
| Product No.                                | Am't.  |
| <u>210</u>                                 |  |
| SHIPPER ASARCO INC<br>7TH AVE<br>TUCSON AZ | CONSIGNEE SPERRY SUN INC<br>1360 W ESTHER<br>LONG BEACH CA |
| NATURE AND QUANTITY OF GOODS               | EQUIP  |
|  | <u>452 GM 7/6/79</u>                                       |
|  | <u>(5) 12424 \$28.60</u>                                   |

|                     |                 |
|---------------------|-----------------|
| AIR WAYBILL NO.     | COLL            |
| <u>005 26854715</u> |                 |
| DATE                | <u>MAY 17 9</u> |
| COMMODITY           | WEIGHT   RATE   |
| <u>GEN</u>          | <u>68. MIN</u>  |

|               |
|---------------|
| WEIGHT CHARGE |
| VALUATION CHG |
| PICK-UP       |
| DELIVERY      |
| INSURANCE     |
| AGENT'S DISB  |
| OTHER         |
| <u>(7)</u>    |
| TOTAL         |

SPECIAL HANDLING NONE

ROUTING: TUS - LAX

DETAIL OF OTHERS UST 1.00

THIS ACCOUNT IS PAYABLE UPON RECEIPT

AMOUNT DUE THIS INVOICE 28.60

914904636

RECEIVED  
 JUL 2 1979  
 ACCOUNTING

**CONTINENTAL JETFREIGHT**

**INVOICE**

ACCOUNT NO. INVOICE NO. 915002701 DATE MAY 30 79

SPERRY SUN INC  
 1360 W ESTHER  
 LONG BEACH CA

PLEASE REMIT TO: CONTINENTAL AIR FREIGHT  
 DEPARTMENT 2059  
 SCF PASADENA, CA 91364

|                     |                 |
|---------------------|-----------------|
| AIR WAYBILL NO.     | COLL            |
| <u>005 26854715</u> |                 |
| DATE                | <u>MAY 17 9</u> |
| COMMODITY           | WEIGHT   RATE   |
| <u>GEN</u>          | <u>68. MIN</u>  |

|  |  |
|--|--|
| SHIPPER ASARCO INC<br>7TH AVE<br>TUCSON AZ | CONSIGNEE SPERRY SUN INC<br>1360 W ESTHER<br>LONG BEACH CA |
| NATURE AND QUANTITY OF GOODS               | EQUIP  |

|               |
|---------------|
| WEIGHT CHARGE |
| VALUATION CHG |
| PICK UP       |
| DELIVERY      |
| INSURANCE     |
| AGENT'S DISB  |
| OTHER         |
| TOTAL         |

SPECIAL HANDLING NONE

ROUTING: TUS - LAX

DETAIL OF OTHERS UST 1.00

THIS ACCOUNT IS PAYABLE UPON RECEIPT

AMOUNT DUE THIS INVOICE 28.60

914904636

PLEASE RETURN  
 THIS PORTION  
 WITH REMITTANCE

PLEASE DO NOT WRITE IN THIS AREA

*Handwritten mark*



# Sperry-Sun

POST OFFICE BOX 100736 HOUSTON, TEXAS 77212

INVOICE NO.

**H 36511**

|                              |                       |                     |                |                         |
|------------------------------|-----------------------|---------------------|----------------|-------------------------|
| RENTAL ORDER NO.<br>SS-12445 | JOB NO.               | DELIVERY TICKET NO. | DISTRICT<br>LB | INVOICE DATE<br>6-30-79 |
| ORDER NO.<br>T-272-9 (7)     | DATE SHIPPED          | VIA                 | FROM           | TO                      |
| STATE<br>Arizona             | COUNTY/PARISH<br>Pima | FIELD               | WELL<br>Mining | RIG NO.                 |

18-05055-00

Asar Co., Southwest Exploration  
 U. S. Exploration  
 P. O. Box 5747  
 Tucson, Arizona 85730

TERMS: NET 30 DAYS

IN THE EVENT THE INVOICE MUST BE  
 PLACED FOR COLLECTION, LIQUIDATED  
 DAMAGES IN THE AMOUNT OF  
 TWENTY-FIVE PERCENT (25%) OF THE  
 AGGREGATE BALANCE DUE AS WELL  
 AS ALL LEGAL COSTS INCURRED, WILL  
 BE ADDED THERETO.

|  | UNIT PRICE | TOTAL         |
|--|------------|---------------|
| Rental Single-Shot Equipment: PeeWee, Mining:<br>From 6-20-79 thru 6-25-79 First 5 days:<br>Next day |            | \$ 265.00     |
| 1-Steel Sinker Bar, First 5 days<br>Next day   |            | 26.00         |
| 1-Swivel, First 5 days<br>Next day   |            | 10.00         |
|  |            | 1.50          |
|  |            | 10.00         |
|  |            | 1.50          |
|  |            | <u>314.00</u> |

cw:dm LB

7

APPROVED FOR PAYMENT

By: J. T. Graybeal  
 (Signature)

8010



# sperry-SUN

POST OFFICE BOX 100736 HOUSTON, TEXAS 77212

REC'D  
1-23-79  
NPW

INVOICE NO.

H 36743

|                             |                       |                     |                |                         |
|-----------------------------|-----------------------|---------------------|----------------|-------------------------|
| RENTAL ORDER NO.<br>S-12445 | JOB NO.               | DELIVERY TICKET NO. | DISTRICT<br>IB | INVOICE DATE<br>7-19-79 |
| CUST. ORDER NO.             | DATE SHIPPED          | VIA                 | FROM           | TO                      |
| STATE<br>Arizona            | COUNTY/PARISH<br>Pina | FIELD               | WELL<br>Mining | RIG NO.                 |

18-05055-00

Asar Co., Southwest Exploration  
U. S. Exploration  
P. O. Box 5747  
Tucson, Arizona 85730

TERMS: NET 30 DAYS

IN THE EVENT THE INVOICE MUST BE PLACED FOR COLLECTION, LIQUIDATED DAMAGES IN THE AMOUNT OF TWENTY-FIVE PERCENT (25%) OF THE AGGREGATE BALANCE DUE AS WELL AS ALL LEGAL COSTS INCURRED, WILL BE ADDED THERETO.

|   | UNIT PRICE | TOTAL    |
|---|------------|----------|
| ADDITIONAL CHARGES:<br>Continental Airlines, Inc., Invoice #2377-7110, (7) (T) Attached |            | \$ 21.00 |
| jem: LB   |            |          |
| <p>APPROVED FOR PAYMENT</p> <p>By: <u>A.T. Graybeal</u><br/>(Signature)</p> <p>0010</p> |            |          |

Carrier's liability is limited per item & on reverse side unless shipper requests additional declared value (subject to additional charge)

Subject to Conditions of Contract on the Back of the Airbill

|                                  |                                    |   |                              |                 |                      |             |             |              |
|----------------------------------|------------------------------------|---|------------------------------|-----------------|----------------------|-------------|-------------|--------------|
| CARRIER ORIGIN<br><b>005 LAX</b> | AIRBILL NUMBER<br><b>2377 7110</b> | DATE<br>MO <b>6</b> DA <b>19</b> YR <b>79</b> | DECLARED VALUE<br><b>NDV</b> | TC<br><b>PK</b> | CHGS<br><b>C2/22</b> | FLIGHT/DATE | FLIGHT/DATE | CUBIC INCHES |
|----------------------------------|------------------------------------|---|------------------------------|-----------------|----------------------|-------------|-------------|--------------|

ROUTING AIRLINE ROUTING APPLIES UNLESS SHIPPER ADVERTS SPECIFIC ROUTING HERE

62

TO: **USC** VIA: TO: VIA: TO: VIA:

AMOUNT OF DESTINATION **TUS**

**CONTINENTAL AIRLINES, INC.**  
LOS ANGELES, CALIFORNIA 90009

1/ **USC**

2/ CONSIGNEE'S ACCOUNT NO.

PREPAID  COLLECT

**CONSIGNEE**

PAYMENT RECEIVED BY:

CASH  CHECK  CREDIT CARD

| CARRIER | DATE | CHARGES                 |
|---------|------|-------------------------|
|         |      | A. WEIGHT CHARGES       |
|         |      | B. PICKUP CHG.          |
|         |      | C. DELIVERY CHG.        |
|         |      | D. EXCESS VALUE         |
|         |      | G. SHIPPER'S C.O.D.     |
|         |      | H. C.O.D. FEE           |
|         |      | K. ORIG. ADV. CHGS.     |
|         |      | L. DEST. ADV. CHGS.     |
|         |      | F. OTHER CHARGES        |
|         |      | J. SHIPPER'S R.F.C.     |
|         |      | I. TAX                  |
|         |      | R. TOTAL SHIPPER PAYS   |
|         |      | S. TOTAL CONSIGNEE PAYS |

NAME **ASAR Co. Southwest Exploration**

STREET ADDRESS **U.S. Exploration**

**HOLD - WILL CALL**

CITY, STATE, ZIP CODE **TUCSON, ARIZONA**

DELIVERY TRUCKER

DEL. ZONE **XL**

3/ SHIPPER'S ACCOUNT NO.

NAME **SPERRY-SUN, INC.**

STREET ADDRESS **P. O. BOX 20327**

CITY, STATE, ZIP CODE **LONG BEACH, CALIFORNIA 90801**

TO EXPEDITE MOVEMENT, SHIPMENT MAY BE DIVERTED TO MOTOR OR OTHER CARRIER AS PER TARIFF RULE UNLESS SHIPPER GIVES OTHER INSTRUCTIONS HEREON.

RECEIVED BY CARRIER AT

SHIPPERS DOOR  CITY TERMINAL  AIRPORT TERMINAL

INSTRUCTIONS TO CARRIER: INCLUDE CUSTOMER REF. NO. & BILLING INSTRUCTIONS

NOTIFY ON ARRIVAL: **298-2779**

5/ DESCRIPTION OF ORIGIN ADVANCE CHGS.

6/ DESCRIPTION OF DESTINATION ADVANCE CHARGES

DESCRIPTION OF OTHER CHARGES **RECEIVED**

PCS/PKGS. **1** LENGTH **12** WIDTH **12** DEPTH **19** CUBIC INCHES **216**

DATE **JUL 12 1979**

C.O.D. SHIPMENT IF AMOUNT ENTERED HERE BY SHIPPER

R.F.C. SHIPMENT IF AMOUNT ENTERED HERE BY SHIPPER

DIMENSIONAL WEIGHT - LBS. **ACCOUNTING**

TARIFF AUTHORITY **B2**

ITEMS COLLECT **ALL**

SHIPPER'S SIGNATURE **X**

| NO. PCS | GROSS WEIGHT | CHARGEABLE WEIGHT | DESCRIPTION OF PACKING, PIECES AND CONTENTS | CARRIER COMMODITY GROUP NO. | MULTIPLE CONTAINER/COMMODITY |      |        |
|---------|--------------|-------------------|---|-----------------------------|------------------------------|------|--------|
|         |              |                   |   |                             | CODE A                       | RATE | CHARGE |
| 1       |              |                   | Metal Box Instruments                       |                             |                              |      |        |
| 1       |              |                   | Bundle Pipe                                 |                             |                              |      |        |
|         | <b>243</b>   | <b>83</b>         |   |                             |                              |      |        |
|         |              |                   | <b>452 DM 7-12-79</b>                       |                             |                              |      |        |
|         |              |                   | <b>(7) 12445 \$21.00 (T)</b>                |                             |                              |      |        |
|         |              |                   | <b>Accounting 12860 Receiving 7-9-79</b>    |                             |                              |      |        |
|         |              |                   | <b>Accounting 55-12445</b>                  |                             |                              |      |        |
|         |              |                   | <b>Use Tax Am't. 21.00</b>                  |                             |                              |      |        |
|         |              |                   | <b>R. O. No. 55-12445 Customer ASAR Co.</b> |                             |                              |      |        |
|         |              |                   | <b>Charge Customer Approval</b>             |                             |                              |      |        |
|         |              |                   | <b>Account No. Am't. 210 21.00</b>          |                             |                              |      |        |

|                |                  |                                      |               |                  |                              |                                       |
|----------------|------------------|--------------------------------------|---------------|------------------|------------------------------|---------------------------------------|
| WEIGHT CHARGES | PICKUP ZONE      | PICKUP CHARGES                       | DEL. ZONE     | DELIVERY CHARGES | ORIG. ADV. CHGS.             | DESCRIPTION OF ORIGIN ADVANCE CHARGES |
| EXCESS VALUE   | DEST. ADV. CHGS. | DESCRIPTION OF DEST. ADVANCE CHARGES |               | OTHER CHARGES    | DESCRIPTION OF OTHER CHARGES |                                       |
| TAX            | C.O.D. FEE       | SHIPPER'S R.F.C.                     | EST. RATE     | IND. RATE        | JRD. RATE                    |                                       |
| SHIPPER PAYS   | ITEMS PREPAID    | CONSIGNEE PAYS                       | ITEMS COLLECT |                  |                              |                                       |

SHADED AREA FOR CARRIER USE ONLY

**THIS IS NOT AN INVOICE**

EXECUTED BY **[Signature]** DATE **6/19/79** TIME **1640** CARRIER **005** ORIGIN **USC** SERIAL NUMBER **2377 7110**

WLKurtz

SUPERIOR E.

Looks like a roughly \$30,000 overrun on project due to following:

- 1.) Boy asked to switch to hourly rate in May (more expensive) when footage went down, but our estimates were apparently made based on footage.
- 2.) Considerable losses of equipment in the hole, hard to anticipate.

NPW is now making a detailed review of boy invoices to see where hourly rate should or should not apply, but I don't anticipate much saving.

Earlier cost estimates should have considered hourly rate possibility.

Will you or shall I check w. TCO to see if we should deduct this (\$30,000) from \$80,000 we were going to get for late 1979 work?

cc: JDS/NPW

FTG 7/24/79





# JOY MANUFACTURING COMPANY

OLIVER BUILDING  
PITTSBURGH, PENNSYLVANIA 15222

PLEASE REMIT TO  
P. O. BOX 360135M  
PITTSBURGH, PA. 15250

|                      |      |                 |               |               |               |         |
|----------------------|------|-----------------|---------------|---------------|---------------|---------|
| CUSTOMER'S ORDER NO. | DATE | REQ. NO.        | OUR ORD'R NO. | DATE          | AT REC. POINT | B.O.NO. |
| CONTRACT             | CODE |                 | DATE          | AT SHIP POINT |               |         |
|                      | 99   | 69 05 03 02 209 |               |               |               |         |

02250 SOLD TO  
Asarco, Inc.  
P. O. Box 5747  
Tucson, AZ 85703

Attn: Mr. N. P. Whaley

SHIPPED TO  
Superior, AZ

TERMS NET 30 DAYS  
NO CASH DISCOUNT

INVOICE NO. 52117623

INVOICE DATE 8/1/79

PLEASE REMIT TO  
P. O. BOX 360135M  
PITTSBURGH, PA. 15250

DATE SHIPPED

SHIPPED VIA

P. O. ADDRESS

MARKS

REQUESTED ROUTING

SHIPPED FROM Michigan City

| ORIGINAL QUANTITY ORDERED | PART NUMBER   | DESCRIPTION  | CODE | UNIT PRICE        | QUANTITY BACK ORDERED | QUANTITY SHIPPED  | AMOUNT     |
|---------------------------|---|--|------|-------------------|-----------------------|-------------------|------------|
|                           |   | To 0.1 core drilling at Superior, Arizona for period ending July 25, 1979 as per agreement.  |      |                   |                       |                   |            |
|                           | <u>PROSPECT NO.</u>                                     | <u>FROM</u> <u>TO</u>  |      | <u>TOTAL FEET</u> | <u>UNIT COST</u>      | <u>TOTAL COST</u> |            |
|                           | A-11  | 5175.      5175.   |      | -0-               | Hourly                |                   |            |
|                           | <u>SET AND PULLING CASING</u>                           |  |      |                   |                       |                   |            |
|                           | A-11  | June 26      16 hours ✓<br>June 28      8 hours ✓<br>June 29      12½ hours ✓<br>June 30      14 hours ✓<br>July 2      13 hours ✓<br>July 3      11 hours ✓<br>July 9      6 hours ✓<br>July 10      4½ hours ✓ |      |                   |                       |                   |            |
|                           |   | 85 hours @ \$30.00/hour  |      |                   |                       |                   | 2,550.00 ✓ |
|                           | <u>STANDBY TIME</u>                                     |  |      |                   |                       |                   |            |
|                           | A-11  | July 9      5 hours ✓ @ \$18.00/hour   |      |                   |                       |                   | 90.00 ✓    |
|                           | <u>CASING OR PIPE LEFT IN PLACE AT CUSTOMER REQUEST</u> |  |      |                   |                       |                   |            |
|                           | A-11  | 137 ft. 4" pipe @ \$4.00/foot  |      |                   |                       |                   | 548.00 ✓   |

**ORIGINAL**

F. O. B. SHIPPING POINT UNLESS OTHERWISE SPECIFIED

NO RETURNS ALLOWED UNLESS AUTHORIZED BY THIS OFFICE

GOODS COVERED BY THIS INVOICE WERE PRODUCED IN COMPLIANCE WITH THE REQUIREMENTS OF THE FAIR LABOR STANDARDS ACT OF 1938, AS AMENDED, INCLUDING SECTION 12(A).

# JOY MANUFACTURING COMPANY

PAGE NO. 2

OLD  
TO Asarco, Inc.

|                     |               |               |          |                         |
|---------------------|---------------|---------------|----------|-------------------------|
| OUR<br>ORDER<br>NO. | AT REC. POINT | AT SHIP POINT | B.O. NO. | INVOICE NO.<br>52117623 |
|---------------------|---------------|---------------|----------|-------------------------|

ORIGINAL QUANTITY ORDERED

| UNIT  | PART NUMBER | DESCRIPTION  | CODE | UNIT PRICE | QUANTITY<br>BACK<br>ORDERED | QUANTITY<br>SHIPPED | AMOUNT     |
|---|-------------|--|------|------------|-----------------------------|---------------------|------------|
| <u>CASING AND TOOLS LOST IN HOLE</u>                      |             |  |      |            |                             |                     |            |
| A-11  |             | 1095 ft. AX casing @ \$4.75/ft. @ 70%                            |      |            |                             |                     | 3,640.88   |
|   |             | ✓ 1 (only) 5 ft. BXWL outer barrel (Pt. # 291643)                |      |            | 291643                      |                     | 66.60      |
|   |             | ✓ 1 (only) BXWL latch & seat coupling (Pt. # 1291719)            |      |            | #1291719                    |                     | 84.00      |
|   |             | ✓ 1 BXWL core bit (Serial #JM1873)                               |      |            |                             |                     | 292.06     |
|   |             | ✓ 1 BXWL reaming shell (Serial #JM1303)                          |      |            |                             |                     | 189.25     |
| <u>CASING AND TOOL RENTAL (5% per month for 6 months)</u> |             |  |      |            |                             |                     |            |
| A-11  |             | 2580 ft. NXF casing @ \$6.80/ft. (July 11 to 25)                 |      |            |                             |                     | 438.60     |
|   |             | 1 NXF casing shoe (Serial #CG35216-3) @ \$618.02 (July 11 to 25) |      |            |                             |                     | 15.45      |
|   |             | 3772 ft. BX casing @ \$5.50/ft. (July 11 to 25)                  |      |            |                             |                     | 518.65     |
| <u>WATER TRUCK RENTAL</u>                                 |             |  |      |            |                             |                     |            |
|   |             | June 26 thru July 11   |      |            |                             |                     |            |
|   |             | ✓ 1 truck @ \$360.00/month                                       |      |            |                             |                     | 180.00     |
| <u>DEMOBILIZATION</u>                                     |             |  |      |            |                             |                     |            |
|   |             | ✓ 1 drilling rig   |      |            |                             |                     | 500.00     |
|   |             |  |      |            |                             |                     | \$9,113.49 |

APPROVED FOR PAYMENT

By: \_\_\_\_\_  
(Signature)

APPROVED FOR PAYMENT

By: \_\_\_\_\_  
(Signature)

# JOY MANUFACTURING COMPANY

OLIVER BUILDING  
PITTSBURGH, PENNSYLVANIA 15222

PLEASE REMIT TO  
P. O. BOX 360135M  
PITTSBURGH, PA. 15250



|                      |      |                    |              |      |               |         |
|----------------------|------|--------------------|--------------|------|---------------|---------|
| CUSTOMER'S ORDER NO. | DATE | REQ. NO.           | OUR ORD. NO. | DATE | AT REC. POINT | B.O.NO. |
| CONTRACT             | CODE | 99 69 05 03 02 209 |              | DATE | AT SHIP POINT |         |

02250  Asarco, Inc.  
 P. O. Box 5747  
 Tucson, AZ 85703

SOLD TO  Attn: Mr. N. P. Whaley

SHIPPED TO  Superior, AZ

P. O. ADDRESS

MARKS

TERMS NET 30 DAYS  
NO CASH DISCOUNT

PLEASE REMIT TO  
P. O. BOX 360135M  
PITTSBURGH, PA. 15250

INVOICE NO. 52117623  
INVOICE DATE 8/1/79  
DATE SHIPPED  
SHIPPED VIA

REQUESTED ROUTING

SHIPPED FROM Michigan City

| ORIGINAL QUANTITY ORDERED | PART NUMBER                   | DESCRIPTION  | CODE | UNIT PRICE              | QUANTITY BACK ORDERED | QUANTITY SHIPPED  | AMOUNT   |
|---------------------------|-------------------------------|--|------|-------------------------|-----------------------|-------------------|----------|
|                           |                               | To 0.' core drilling at Superior, Arizona for period ending July 25, 1979 as per agreement.  |      |                         |                       |                   |          |
|                           | <u>PROSPECT NO.</u>           | <u>FROM</u> <u>TO</u>  |      | <u>TOTAL FEET</u>       | <u>UNIT COST</u>      | <u>TOTAL COST</u> |          |
|                           | A-11                          | 5175.      5175.   |      | -0-                     | Hourly                |                   |          |
|                           | <u>SET AND PULLING CASING</u> |  |      |                         |                       |                   |          |
|                           | A-11                          | June 26      16 hours<br>June 28      8 hours<br>June 29      12½ hours<br>June 30      14 hours<br>July 2      13 hours<br>July 3      11 hours<br>July 9      6 hours<br>July 10      4½ hours |      | 85 hours @ \$30.00/hour |                       |                   | 2,550.00 |
|                           | <u>STANDBY TIME</u>           |  |      |                         |                       |                   |          |
|                           | A-11                          | July 9      5 hours @ \$18.00/hour   |      |                         |                       |                   | 90.00    |
|                           | <u>CASING OR PIPE</u>         | <u>LEFT IN PLACE AT CUSTOMER REQUEST</u>   |      |                         |                       |                   |          |
|                           | A-11                          | 137 ft. 4" pipe @ \$4.00/foot  |      |                         |                       |                   | 548.00   |

**ORIGINAL**

# JOY MANUFACTURING COMPANY

PAGE NO. 2

Asarco, Inc.

|               |               |               |          |                                |
|---------------|---------------|---------------|----------|--------------------------------|
| OUR ORDER NO. | AT REC. POINT | AT SHIP POINT | B.O. NO. | INVOICE NO.<br><b>52117623</b> |
|---------------|---------------|---------------|----------|--------------------------------|

| UNIT  | PART NUMBER | DESCRIPTION  | CODE | UNIT PRICE | QUANTITY BACK ORDERED | QUANTITY SHIPPED | AMOUNT            |
|---|-------------|--|------|------------|-----------------------|------------------|-------------------|
| <u>CASING AND TOOLS LOST IN HOLE</u>                      |             |  |      |            |                       |                  |                   |
| A-11  |             | 1095 ft. AX casing @ \$4.75/ft. @ 70%                            |      |            |                       |                  | 3,640.88          |
|   |             | 1 (only) 5 ft. BXWL outer barrel (Pt. # 291643)                  |      |            |                       |                  | 66.60             |
|   |             | 1 (only) BXWL latch & seat coupling (Pt. # 1291719)              |      |            |                       |                  | 84.00             |
|   |             | 1 BXWL core bit (Serial #JM1873)                                 |      |            |                       |                  | 292.06            |
|   |             | 1 BXWL reaming shell (Serial #JM1303)                            |      |            |                       |                  | 189.25            |
| <u>CASING AND TOOL RENTAL (5% per month for 6 months)</u> |             |  |      |            |                       |                  |                   |
| A-11  |             | 2580 ft. NXF casing @ \$6.80/ft. (July 11 to 25)                 |      |            |                       |                  | 438.60            |
|   |             | 1 NXF casing shoe (Serial #CG35216-3) @ \$618.02 (July 11 to 25) |      |            |                       |                  | 15.45             |
|   |             | 3772 ft. BX casing @ \$5.50/ft. (July 11 to 25)                  |      |            |                       |                  | 518.65            |
| <u>WATER TRUCK RENTAL</u>                                 |             |  |      |            |                       |                  |                   |
|   |             | June 26 thru July 11   |      |            |                       |                  |                   |
|   |             | 1 truck @ \$360.00/month   |      |            |                       |                  | 180.00            |
| <u>DEMOBILIZATION</u>                                     |             |  |      |            |                       |                  |                   |
|   |             | 1 drilling rig   |      |            |                       |                  | 500.00            |
|   |             |  |      |            |                       |                  | <b>\$9,113.49</b> |

APPROVED FOR PAYMENT  
 By: James H. Sell  
 (Signature)

APPROVED FOR PAYMENT  
 By: \_\_\_\_\_  
 (Signature)

Ending July 15<sup>th</sup>, 1979

6/24 D

16 hrs casing, rework

No Gf.

Double crews, ran rods in to make cut (where?), no go, pulled to check cutter.

6/27

~~16 hrs delay~~

finished checking cutter, running rod in hole, but 1600' slipped thru clamp; going down to connect but pushed them or down. pulled to check threads.

6/28

~~2 1/2 hrs repair~~  
5 1/2 hrs fishing  
4 hrs? fishing  
4 hrs? casing

2 1/2 hrs repair. Fishing, hooked up & pulled 1700', broke out 300', cleared cutter, going in again.

6/29

12 1/2 hrs casing

Calo @ 4650, 4590, 4850, 4080, pulled to ck cutter.  
4 1/2 hrs completed pulling, worked on casing. 4' of stretch, broke casing 9' down. Went home early.

6/30

~~16 hrs delay~~  
14 1/2 hrs casing

4 hrs? delay on LH string & fishing & connecting up.  
12 hrs? running in & cutting at 4460 & 4400, pulling Ax out.

7/1 Sunday

7/2 ~~SE~~

~~3 hrs repair~~  
2 hrs fishing  
11 hrs casing

3 hrs repair.  
Completed Ax rod pull; pulled on casing & broke it 20' down; fished & connected up. Running in for cut at 4300, 4200, 400, & 3770.  
No luck.

7/3

2 hrs casing  
9 1/2 hrs fishing

Pulling on casing, not load; rods  
broke & fell to 4920', made up  
enough to top in - successfully,  
pulled up, cleared cutter.  
Dottle sick went home early (3 1/2 hrs)

7/4 Holiday

7/5

? 16 hrs ?

Knocked off  
32 hrs

Rod rods in & cuts at  
3700, 3710, 3660, 3610, 3610?  
3500 - No luck. Casing  
"grafted together".

(Note BX casing in NX hole is at  
depth of 3772') These cuts are  
above bottom of outside casing.

7/6

16 hrs ?

16 hrs, some circulation, put down  
45 gal oil, broke joint fished  
out, hooked up & plunging &  
circulating thru AX casing  
(BX rods).

7/7 Saturday

7/8 Sunday

7/9

8 hrs standby  
8 hrs casing

5 hrs standby for Mc Callous  
3 hrs standby " " fishing 3767  
& locking off rods at 3755.  
8 hrs pulling BX drill rods & breaking  
out 2250' in 15's.

7/10 4 1/2 hrs casing  
↓ Demobilizing time

4 1/2 hrs recovering 1505' BX rods  
used as AX casing. Total  
recovery of 3755' BX rods. Left  
in hole 1095' (ie 3755-4250) plus  
BXW bit, 5' outer barrel & latch  
coupling.

1 1/2 hrs loading truck for Tucson  
& breaking out AX rods in 10's

7/11 loading out ↘

AX casing whether  
BX rods  
or otherwise  
34.75

also rental

4" casing Surface 12' 137'  
NX casing Surface 2250 2580  
BX casing Surface 3772'



A-11

Nett in Hole

137' - 4" Casing  
2580' - NX Casing  
1 - NX Casing Ft. Shoe # CG-35216-3  
3772' - BX Casing  
1095' BXWL Rods  
1 - BXWL 5' outer BARREL  
1 - BX Latch Coupling  
1 BXWL Bit # JM-1873  
1 BXWL Shell # JM-1303

Casing Time

|       |        |
|-------|--------|
| 6-26- | 16h.   |
| 27-   | 16     |
| 28-   | 14     |
| 29-   | 12 1/2 |
| 30-   | 16     |
| 7-2-  | 13     |
| 3-    | 11     |
| 5-    | 16     |
| 6-    | 16     |
| 9-    | 9      |
| 10-   | 12 1/2 |
| 11-   | 3      |

Odell Pomeroy

MONTHLY COST SUMMARY

Superior East EA-0010 Project, Reinal (County), Az (State)

DIRECT DRILLING (Acct. 521-)

CONTRACTORS' CHARGES

Invoiced during month covering current month's work

Contractors' Services

Statement Amt.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Estimated balance of contractors' charges covering work through end of current month

Contractors' Services

Estimated Cost

Jay casing Recovery & Demobilization  
& casing Rental  
\_\_\_\_\_  
\_\_\_\_\_

11,758.25  
\_\_\_\_\_  
\_\_\_\_\_

Supplies and Freight

\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

Field Trailer Rental

Water Purchases (Drilling)

\_\_\_\_\_  
\_\_\_\_\_

B. SITE PREPARATION (Acct. 580-)

CONTRACTORS' CHARGES

Invoiced during month covering current month's work

Contractors' Services

Statement Amt.

\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

Estimated balance of contractors' charges covering work through end of current month

Contractors' Services

Estimated Cost

\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

Supplies and Freight

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**SAMPLERS, SAMPLING, SAMPLE PREPARATION, ASSAYING (Acct. 540-)**

Wages (Temporary Help)

| <u>Name</u> | <u>No. of Straight Time Hours During Month</u> | <u>No. of Overtime Hours During Month</u> |
|-------------|--|---|
| _____       | _____  | _____                                     |
| _____       | _____  | _____                                     |

Assaying

| <u>Assayer</u>                          | <u>Charge or Estimated Expense for Assaying Performed During Month</u> |
|---|--|
| <u>AARL Composite Assay (Estimated)</u> | _____  |
| <u>28 sample in 4 groups</u>            | <u>76.00</u>   |

**CLAIM STAKING, VALIDATION (Acct. 507-)**

Invoiced during month covering current month's work

| <u>Contractors' Services</u> | <u>Statement Amt.</u> |
|------------------------------|-----------------------|
| _____                        | _____                 |
| _____                        | _____                 |

Estimated balance of contractors' charges covering work through end of current month

| <u>Contractors' Services</u> | <u>Estimated Cost</u> |
|------------------------------|-----------------------|
| _____                        | _____                 |
| _____                        | _____                 |

Wages

| <u>Name</u> | <u>No. of Straight Time Hours During Month</u> | <u>No. of Overtime Hours During Month</u> |
|-------------|--|---|
| _____       | _____  | _____                                     |
| _____       | _____  | _____                                     |

**OTHER (Itemize any other major expenses not covered above or by invoice.)**

| <u>Item</u>                         | <u>Cost</u>     |
|-------------------------------------|-----------------|
| <u>Mollen-Hauer Services SS1464</u> | <u>272.00</u>   |
| <u>Mc Carthy Services MC 21702</u>  | <u>3,084.64</u> |
| <u>dit.</u>                         | _____           |
| _____                               | _____           |
| _____                               | _____           |

Estimated Jay Billing for July 1979

(JES)

6/24 14 hrs casing recovery (BX rods)

6/27 14 " " "

6/28 13 1/2 " " "

6/29 14 " " "

6/30 14 " " "

7/1 Sunday

7/2 14 " " "

7/3 11 " " "

7/4 Holiday

7/5 14 " " "

7/6 14 " " "

7/7 Sat

7/8 Sun

7/9 8 hrs standby for McCullough's Service

6 hrs casing recovery

7/10 4 1/2 " " " (BX rods)

} May get some deduction here as casing  
was being cut above where McCullough's  
finally loosened rods - Thus Jay was  
not properly cutting rods to start with

Continued next sheet 7

Estimate Jay - July 79

(2)

|  |          |
|--|----------|
| 147 hrs casing recovery @ 30 <sup>00</sup> /hr               | 4,410.00 |
| 8 hrs standby for McCullough @ 18 <sup>00</sup> /hr.         | 144.00   |
| 1 Outer BX barrel & latch casing @ 400 <sup>00</sup> ?       | 400.00   |
| 1 BXWL diamond bit @ 300 <sup>00</sup> ?                     | 300.00   |
| Water Truck & Release 300 <sup>00</sup> + 40 <sup>00</sup> ? | 400.00   |
| Demobilization   | 500.00   |
| BX rods lost in hole: 1095' x 6 <sup>00</sup> /ft x 70%      | 4,599.00 |
| 4" Surface Pipe left in place 12' x 4 <sup>00</sup> /ft      | 48.00    |

Rental on casing left in Hole:

|   |        |
|---|--------|
| NX 2580' x 6 <sup>80</sup> /ft x 5%/month x 1/2 month | 438.60 |
| BX 3772' x 5 <sup>50</sup> /ft x 5%/month x 1/2 month | 518.65 |

---

\$11,758.25  
estimate

Estimate of AARL for Composite work & assays:

28 samples composited in 4 groups

@ 0<sup>50</sup>/sample ?

= 14.00

Ce / Mo / Ag / Au on 4 samples @ 15<sup>00</sup> ?

= 62.00

---

\$ 76.00

estimate

**MOLLEN-HAUER SURVEYING COMPANY**

P.O. Box 17376 • Tucson, Ariz. 85731 • Phone (602) 298-2779

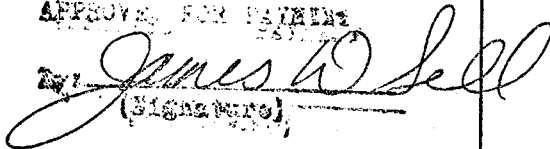
ASARCO INCORPORATED S.W. EXPLORATION  
 U.S. EXPLORATION DIVISION  
 P. O. BOX 5747  
 TUCSON, ARIZONA 85703

Date: July 1, 1979

Customer's  
 Order No. T-207-9

Job No. SS 1664

Invoice No. SS 1664

| Start Date  | Stop Date | Hole Name & No.   | Area          | Charges            |
|---|-----------|---|---------------|--------------------|
|   |           | A 11  | SUPERIOR EAST | AS LISTED          |
| 6-21-79   |           | MAGNETIC SINGLE SHOT SURVEY<br>Took survey shots @ 4700' 5047' & 5147'<br>Survey charges 1 day standby @ \$200.00 Per Day<br>Round trip mileage from office to core hole 240 miles @ 30¢ Per Mile |               | \$ 200 00<br>72 00 |
| APPROVED FOR PAYMENT<br><br>(Signature) |           |   |               |                    |
| TOTAL   |           |   |               | \$ 272 00          |

**INVOICE**

# MOLLEN-HAUER SURVEYING COMPANY

P.O. Box 17376 • Tucson, Ariz. 85731 • Phone (602) 298-2779

Date: July 1, 1979

ASARCO INCORPORATED S.W. EXPLORATION

Customer's  
Order No. T-207-9

U.S. EXPLORATION DIVISION

P. O. BOX 5747

Job No. SS 1604

TUCSON, ARIZONA 85703

Invoice No. SS 1604

| Start Date | Stop Date | Hole Name & No.  | Area          | Charges   |
|------------|-----------|--|---------------|-----------|
|            |           | A 11   | SUPERIOR EAST | AS LISTED |
| 6-21-79    |           | MAGNETIC SINGLE SHOT SURVEY  |               |           |
|            |           | Took survey shots @ 4700' 5047' & 5147'                              |               |           |
|            |           | Survey charges 1 day standby @ \$200.00 Per Day                      |               | \$ 200 00 |
|            |           | Round trip mileage from office to core hole 240 miles @ 30¢ Per Mile |               | 72 00     |
| TOTAL      |           |  |               | \$ 272 00 |

*James O. Sell*

## INVOICE



**MOLLEN-HAUER SURVEYING COMPANY**

**WORK ORDER AND RECEIPT**

P.O. Box 17376 • Tucson, Ariz. 85731 • Phone (602) 298-2779

Customer Asarco Inc S.W. Exploration Date 6-30-79  
U.S. Exploration Div.

Invoice Address P.O. Box 5797 Well Name & No. ALL

Tucson Ariz 85703 Job No. 551664

Field Superior East County Gila State Ariz

Hole size 9 X to \_\_\_\_\_ ft. size \_\_\_\_\_ to \_\_\_\_\_ Ft. Others \_\_\_\_\_

This is to verify the order for a Magnetic Single-Shot survey on the above mentioned well.  
The Customer agrees to the Rates, Terms and Conditions as set forth in Price List No. as quoted.

Is filing of survey with Governing Agency required by existing law, Rule or Regulation? \_\_\_\_\_

By \_\_\_\_\_  
Customer/Agency thereof

Arrived at well: Date 6-20-79 Time \_\_\_\_\_ Left well: Date 6-21-79 Time \_\_\_\_\_ Standby time 1 day

Travel from office to well Round trip 2.40 miles. Surveyed from Sal Remark to \_\_\_\_\_

Footage surveyed \_\_\_\_\_

Distance between Survey Stations: \_\_\_\_\_ Traversed from \_\_\_\_\_ to \_\_\_\_\_ Footage traversed \_\_\_\_\_

Remarks: Survey Shots @ 4240', 5047 & 5147

By Otto O. Mollenhauer By [Signature]  
Mollen-Hauer Surveying Company Customer/Agency thereof

# McCullough

P. O. Box 4305 Houston, Texas 77210

MC- 21702

Plant Location  
405 McCarty  
Houston, Texas 77029  
(713) 527-1801

## SERVICE ORDER and DELIVERY RECEIPT

Order Date: 7-9-79

### SERVICE ORDER:

McCullough is hereby instructed to deliver the equipment or perform the services ordered, or as orally directed, under the terms and conditions printed on reverse side of this order and which I accept as Customer or as Customer's Authorized Agent.

|  |   |
|--|---|
| Customer <u>HARSCO INC.</u>                              | Ordered by  |
| Mailing Address <u>PO Box 5277</u>                       | Customer Order No. <u>PO# T-348-9</u>                     |
| City <u>TUCSON</u> State <u>ARIZONA</u> Zip <u>85703</u> | Well Name & No. <u>H-11</u>                               |
| Customer Code  | County / Parish <u>Pinal</u>                              |
|  | State <u>ARIZONA</u> Price List Zone No. <u>Rocky Mtn</u> |

| Product Code   | DESCRIPTION Service or Material | Depth or Zone Served | LOGGING FOOTAGE or SHOTS FIRED | UNIT PRICE | Minimum Per Shot Per Foot | Price     |
|--|---------------------------------|----------------------|--------------------------------|------------|---------------------------|-----------|
| 732-005-00   | Magna Tector Test Point         | 3755                 |                                |            | min                       | \$ 677.00 |
| 733-005-00   | String Shot                     | 3754                 | 1                              |            | min                       | 734.00    |
| 703-005-00   | Wireline Unit Mileage           |                      | 700                            | 1.53/mb    |                           | 1071.00   |
| <p><i>Work done with excellent results.<br/>OK for payment when invoice is received from Houston.<br/>See RBC for signature.</i></p> <p><i>James D. Self</i></p> |                                 |                      |                                |            |                           |           |
| 702-005-0  | SERVICE CHARGE                  |                      |                                |            |                           | 482.00    |
|  |                                 |                      |                                |            |                           | 2966      |

|  |  |              |                                 |
|--|--|--------------|---------------------------------|
| Arrive on Location                               | Time <u>2:00 PM</u> Date <u>7-9-79</u>                   | CODE         | TOTAL                           |
| Equipment left on location at Customer's request | Yes <input type="checkbox"/> No <input type="checkbox"/> | 9701-000-000 | 2.42% Texas Occupation Tax      |
| For other charges refer to Service Order No.     |  |              | County / Parish Sales Tax       |
| Served by: <u>Howe D. Dorell</u>                 | (Code)   |              | State Sales Tax 4%              |
| Wireline Unit No.:                               | (Code)   |              | Total Invoice Amount - Net Cash |
| District   | (Code)   |              | <u>2231.27</u>                  |

**DELIVERY RECEIPT:** Above described service/material has been received:

Service Completed: 5:00 PM Customer: James D. Self

Date: 7-9 1979 By: James D. Self

3084.64

| Account No. | Item                                   | This Month        | This Year          | Total to Date      |
|-------------|--|-------------------|--------------------|--------------------|
| 506-950     | Rental Payments - Other                | \$                | \$                 | \$                 |
| 521-100     | Surface Drilling - Salaries            | 509 00            | 509 00             | 1088 00            |
| 521-200     | - Add. Labor                           | 88 43             | 88 43              | 176 08             |
| 521-350     | - Equip. Rental                        | 363 60            | 967 60             | 967 60             |
| 521-600     | - Traveling                            |                   | 12 90              | 24 90              |
| 521-750     | - Services                             | 10870 75          | 88844 97           | 137570 22          |
| 521-780     | - Fuel, Power, Water                   |                   |                    | 69 44              |
| 521-801     | - Sales Tax                            | 118 64            | 175 24             | 175 24             |
| 530-100     | Geology - Salaries                     | 481 00            | 4376 00            | 5682 00            |
| 530-200     | - Add. Labor                           | 77 52             | 988 13             | 1189 32            |
| 530-400     | - Supplies                             |                   | 3 98               | 3 98               |
| 530-600     | - Traveling                            | 96 90             | 241 52             | 363 97             |
| 530-801     | - Sales Tax                            |                   | 09                 | 09                 |
| 540-100     | Sampling, Assaying, Lab. - Salaries    | 518 00            | 1204 00            | 1407 00            |
| 540-150     | - Wages                                |                   |                    | 217 32             |
| 540-200     | - Add. Labor                           | 138 72            | 300 24             | 349 91             |
| 540-750     | - Services                             | 48 06             | 421 88             | 426 88             |
| 570-100     | Engineering - Salaries                 |                   |                    |                    |
| 570-200     | - Add. Labor                           |                   |                    |                    |
| 570-750     | - Services                             |                   |                    |                    |
| 580-100     | Temporary Construction - Salaries      |                   |                    |                    |
| 580-200     | - Add. Labor                           |                   |                    |                    |
| 580-400     | - Supplies                             |                   |                    |                    |
| 580-750     | - Services                             |                   | 446 16             | 1725 65            |
| 580-801     | - Sales Tax                            |                   |                    |                    |
| 590-750     | Construction - Services                |                   |                    |                    |
| 590-801     | - Sales Tax                            |                   |                    |                    |
| 610-400     | Field Administration - Supplies        |                   |                    |                    |
| 610-500     | - Communications                       | 21 18             | 127 63             | 210 20             |
| 610-600     | - Traveling                            |                   | 300 42             | 300 42             |
| 610-780     | - Fuel, Power, Water                   | 11 87             | 85 53              | 122 43             |
| 610-790     | - Rent                                 |                   | 1500 00            | 1500 00            |
| 620-100     | General Administration - Salaries      | 231 00            | 1205 00            | 1862 00            |
| 620-150     | - Wages                                |                   |                    |                    |
| 620-200     | - Add. Labor                           | 55 15             | 281 60             | 413 72             |
| 620-400     | - Supplies                             | 5 47              | 24 17              | 33 46              |
| 620-750     | - Services                             |                   |                    |                    |
| 620-801     | - Sales Tax                            |                   | 1 44               | 1 99               |
| 620-950     | - Other                                | 1871 50           | 3541 50            | 3545 50            |
| 641-400     | Distributable Accounts Auto - Supplies | 211 62            | 1255 99            | 1821 57            |
| 641-801     | - Sales Tax                            | 21                | 3 36               | 6 65               |
|             |  | <u>\$18684.95</u> | <u>\$109893.78</u> | <u>\$164242.54</u> |

Authorized  
Expended

\$ 146 000.00  
164 242.54

Balance Unexpended

\$(18242.54)

521-550 Surface Drilling - Freight  
521-400 - Supplies

21.00  
2966.00 2966.00 21.00 2966.00

FTG  
JOS

Estimated Drill Road Costs  
Superior East Project  
Pinal County, Arizona

In the field conversation with Paul Bryant, Contractor, the following estimates were suggested based on present parameters of wages, fuel, & explosive costs. See your memo of Aug 6, 1979 for sites & roads.

- A. To re-ramp the present road from the pond south to ~~#~~ P-6 and beyond to turn off to P-7 site . . . . . 15,000.00
- B. The P-6 ~~site~~ drill site . . . . . 5,000.00
- C. New road construction from turn off eastward to P-7 site . . . . . 35,000.00
- D. The P-7 site . . . . . 5,000.00

Subtotal \$ 60,000.00

The above road work has been cleared with the Forest Service several years ago and will be reaffirmed with them.

The additional road work below has not been walked out nor has it been cleared with the Forest Service.

- E. <sup>New</sup> Road and site from saddle westward to P-3 site . . . . . 30,000.00
- F. <sup>New</sup> Road and site from A-10 southward to P-10 site . . . . . 50,000.00

G. Revamp present road from P-7 turn off  
south to P-8 turn off . . . . . 25,000.00  
H. New road from P-8 turn off northwest to  
to P-8 and P-9 site - - - - - 40,000.00  
I. Sites P-8 and P-9 - - - - - 10,000.00

Subtotal \$ 155,000.00

Total Estimated \$ 215,000.00

JAMES D. Se II

FTG-JDS-APW  
12-26-79

Bryant Construction Company  
843 Spray Street  
Superior, Az. 85273

Dec. 20, 1979

ASARCO Incorporated

DEC 26 1979

SW Exploration

Mr. R. B. Crist  
Asarco Incorporated  
P.O. Box 5747  
Tucson, Arizona 85703

Dear Bob:

In response to your request for an estimate of cost for the construction of a new road from the JI Ranch headquarters area to a point of tie in with your existing road system- an alignment which Walt Lockhart and I walked out around the middle of November. I can only say that you are probably looking at something in the realm of \$20,000

Please understand that this does not represent a guaranteed cost. Uncertainties Principally in the type of blasting which will be involved, make it difficult to give you more than this realm figure.

This price does not include any culverts if installed and I recommend culverts if this is going to be a permanent road.

If this new road work could be combined with other work in the same area it would minimize costs for both of us.

Very Truly Yours

*Paul Bryant*

# ASARCO

Exploration Department  
Southwestern United States Division

August 6, 1979

Mr. J. H. Koontz, General Manager  
Drill Division  
Joy Manufacturing Company  
P.O. Drawer 489  
La Porte, Indiana 46350

Dear Mr. Koontz:

First let me apologize for the protracted period of time involved in formulating a response to your last two invoices for work performed on our Superior East Project subsequent to April 25, 1979.

By coincidence Jim Sell and I have been subject to alternate periods in the field and office, and only recently had an opportunity to collaborate on a final rationale for the distribution of costs reflected in these invoices.

Your letter of May 14 asked us to consider some portion of this work at an hourly rate, and stated that that portion would be subject to our approval. Both Jim and I accepted these terms as the context within which we felt we could work out a fair and mutually acceptable basis for supplemental compensation, probably, at least in part, based on an hourly rate schedule as you suggested. Jim, being more familiar with the field operations than I, planned to meet with Jack Lloyd and explore the possibility of a negotiated approach and establish in a quantitative way what you had in mind. A rather full, out-of-state field schedule prevented him from having this meeting immediately, and your office issued the April-May invoice (No. 52117532, dated 6-6-79) which contained 279 hours of supplemental rig time submitted for our approval. Following receipt of this invoice both Jim and I were again in the field.

Concerned over the delay in resolving this matter, I called you on July 5 and explained that at that time Jim had worked up, on a day-by-day basis, a counterproposal which represented an initial, de facto compromise based on on-site circumstances, and that he planned to meet with Jack Lloyd in the immediate future to discuss the areas of difference. At that time you stated you were holding Joy's invoice for the May-June period and we both felt it might be best to allow the proposed meeting to take place before it was mailed. I believe we both hoped that such a meeting would establish a meaningful foundation for resolving the April-May invoice and provide a rationale for future billing.

August 6, 1979

Following our July 5 telephone conversation I spent two weeks in the field and returned to find that the meeting between Jack Lloyd and Jim Sell had taken place on July 13 in an atmosphere devoid of any willingness by Jack Lloyd to compromise in a meaningful way. Jim found himself defending the rig time hours submitted for our approval as if all of this time were for Asarco's account under contract agreement. The few concessions which Jack made could hardly be termed even token gestures.

Your May-June invoice (No. 52117589, dated 7-16-79) was apparently issued immediately after that meeting and reflects an extremely high number of rig-time hours in lieu of 214 feet of drilling. We are again faced with finding a mutually acceptable resolution of your second submittal.

Anything of this nature must incorporate an element of compromise, and we do not feel that we found any willingness to do so in the meeting of July 13. For this reason we are enclosing our counterproposals for both invoices for your consideration. For rapid comparison of your invoiced submittal and our counterproposal there is what might be termed a cost recap sheet for each period. On this items are sequenced in the same order in which they appear on your invoice. For the detail and rationale of the Asarco figures shown on the recap sheet you will find an attached, chronological breakdown for the same period.

Our willingness to assume charges for footage cored is obvious. Our reluctance to support the costs of a difficult, deep-hole drilling operation that is not conducted on a 24-hour basis should be just as obvious.

Very truly yours,

*N. P. Whaley*  
N. P. Whaley

NPW:1b  
Encs.

cc: FTGraybeal - w/encs.  
JDSell - w/encs. ✓  
CDNewton - w/o encs.  
HHas, Joy Mfg. Co. - w/o encs.



Superior East Project: Cost Recap

Hole A-11 for period 4-26-79 through 5-25-79

Joy Invoice No. 52117532

| <u>Item</u>   | <u>Joy Invoice</u>          | <u>Asarco</u>             |
|---|-----------------------------|---------------------------|
| a) Footage chgs.<br>(in lieu of 104' @ \$ 2,766.40) | -0-                         | 113' @ \$ 3,005.80        |
| b) Cementing and plugging                           | 116 hrs. @ \$ 3,480.00      | 120½ hrs. @ 3,615.00      |
| c) Set and pull casing                              | 24 hrs. @ 720.00            | As invoiced 720.00        |
| d) Survey time                                      | 6 hrs. @ 180.00             | As invoiced 180.00        |
| e) Mud and additives used                           | 1,408.92                    | As invoiced 1,408.92      |
| f) Core boxes used                                  | 12.00                       | As invoiced 12.00         |
| g) Water truck rental                               | 386.00                      | As invoiced 386.00        |
| h) Wedging time and drilling<br>by wedge            | 43 hrs. @ 1,548.00          | 3 hrs. @ 108.00           |
| i) Deflecting wedge                                 | 465.50                      | As invoiced 465.50        |
| j) Rig time submitted for<br>approval               | 279 hrs. @ <u>10,044.00</u> | 88 hrs. @ <u>3,168.00</u> |
| Original Invoice Total (Items b thru j)             | \$18,244.42                 |                           |
| Original Invoice Total (Items a* thru i)            | \$10,966.82                 |                           |
| Asarco Proposal Total (Items a* thru j)             |                             | \$13,069.22               |

\*Represents cost equivalent for footage drilled during month.

Superior East Project: Chronological Detail of Costs

Hole A-11 for period 4-26-79 through 5-25-79

Joy Invoice No. 52117532

| <u>Date</u> | <u>Asarco Proposal and Rationale</u>   |
|-------------|--|
| April 26    | 24 hrs. casing time; OK.   |
| April 27    | 10' core (from 4961'); no rig time applicable -- checking rods.  |
| April 30    | 6' core; no rig time applicable -- bit change.   |
| May 1       | 12' core; no rig time applicable -- bit change.  |
| May 2       | 19' core; no rig time applicable.  |
| May 3       | 16' core; no rig time applicable.  |
| May 4       | 10' core; no rig time applicable -- bit change.  |
| May 5       | 8' core; no rig time applicable.   |
| May 7       | 1' core (to 4939');<br>16 hrs. rig time; 3-1/2 hrs. delay not applicable.  |
| May 8       | 24 hrs. rig time; converting to LoLoss mud system.   |
| May 9       | 24 hrs. rig time; conditioning and cleaning hole.  |
| May 10      | 24 hrs. rig time; cleaning hole for setting wedge.   |
| May 11      | 6 hrs. survey time;<br>3 hrs. wedging time;<br>12 hrs. cementing time; no rig time applicable -- waiting on wedge from Tucson. |
| May 14      | 12 hrs. cementing time; no rig time applicable on information delay or rod cleaning.   |
| May 15      | 16 hrs. cementing time; OK.  |
| May 16      | 16 hrs. cementing time; OK.  |
| May 17      | 16 hrs. cementing time; OK.  |
| May 18      | 12-1/2 hrs. cementing time; no credit for PM shift going home 3-1/2 hrs. early.  |
| May 21      | 24 hrs. cementing time; OK. (Drilled 4' out along side of wedge.)  |
| May 22      | 12 hrs. cementing time; OK -- preparing to core again.<br>6' core (from 4924'); no rig time applicable.                        |
| May 23      | 16' core; no rig time applicable -- bit change.  |
| May 24      | 6' core; no rig time applicable -- no GY helper.   |
| May 25      | 9' core (to 4961'); no rig time applicable -- no GY shift.   |

Superior East Project: Cost Recap

Hole A-11 for period 5-26-79 through 6-25-79

Joy Invoice No. 52117589

| <u>Item</u>                                  | <u>Joy Invoice</u>     | <u>Asarco</u>             |
|--|------------------------|---------------------------|
| a) Footage chgs.<br>(in lieu of 214' @       | -0-<br>\$ 6,392.40)    | 214' @ \$ 6,392.40        |
| b) Rig time submitted<br>for approval        | 413 hrs. @ \$14,868.00 | 75 hrs. @ 2,700.00        |
| c) Survey time                               | 12 hrs. @ 360.00       | As invoiced 360.00        |
| d) Set and pull casing                       | 40 hrs. @ 1,200.00     | As invoiced 1,200.00      |
| e) Mud and additives used                    | 1,247.48               | As invoiced 1,247.48      |
| f) Core boxes used                           | 34.50                  | As invoiced 34.50         |
| g) Water truck rental                        | <u>365.20</u>          | As invoiced <u>365.20</u> |
| Original Invoice Total (Items b thru g)      | \$18,075.18            |                           |
| Original Invoice Total (Items a* & c thru g) | \$ 9,599.58            |                           |
| Asarco Proposal Total (Items a* thru g)      |                        | \$12,299.58               |

\*Represents cost equivalent for footage drilled during month.

Superior East Project: Chronological Detail of Costs

Hole A-11 for period 5-26-79 through 6-25-79

Joy Invoice No. 52117589

| <u>Date</u> | <u>Asarco Proposal and Rationale</u>   |
|-------------|--|
| May 26      | 8' core (from 4961');<br>2 hrs. rig time to clean hole; no other rig time applicable, normal drilling procedures; no GY shift, hence necessary to pull back into casing. |
| May 29      | 6' core; no rig time applicable -- bit change (no GY).   |
| May 30      | 16' core; no rig time applicable -- completed bit change (no GY).  |
| May 31      | 6' core; no rig time applicable -- bit change (no GY).   |
| June 1      | 18' core; no rig time applicable -- completed bit change (no GY).  |
| June 2      | 11' core; no rig time applicable -- closed for weekend (no GY).  |
| June 4      | 12' core;<br>3 hrs. rig time to clean hole; no other rig time applicable.  |
| June 5      | 29' core; no rig time applicable.  |
| June 6      | 10' core;<br>3 hrs. rig time to clean hole; bit change; no other rig time applicable.  |
| June 7      | 25' core; no rig time applicable.  |
| June 8      | 25' core; no rig time applicable -- closed for weekend.  |
| June 11     | 3' core;<br>6 hrs. rig time to clean hole; bit change; no other rig time applicable.   |
| June 12     | 18' core; no rig time applicable.  |
| June 13     | 8' core;<br>3 hrs. rig time to clean hole; bit change; no other rig time applicable.   |
| June 14     | 4' core;<br>6 hrs. rig time to clean and condition hole with new mud; bit change; no other rig time applicable.  |
| June 15     | 15' core; no rig time applicable -- bit change.  |
| June 16     | 12 hrs. rig time to clean hole; no other rig time applicable -- bit change.  |
| June 18     | 16 hrs. rig time to clean hole; no other rig time applicable -- recovered lost bit crown parts.  |
| June 19     | 16 hrs. rig time to clean hole for survey; no other rig time applicable.   |
| June 20     | 8 hrs. rig time to clean hole for survey;<br>12 hrs. survey time; no GY shift; terminated hole at 5175'.   |
| June 21     | 16 hrs. casing time, no GY.  |
| June 22     | 16 hrs. casing time.   |
| June 25     | 8 hrs. casing time.  |



# Sperry-SUN

POST OFFICE BOX 100736 HOUSTON, TEXAS 77212

INVOICE NO.

**H 37639**

|                                     |                              |                     |                       |                                |
|-------------------------------------|------------------------------|---------------------|-----------------------|--------------------------------|
| RENTAL ORDER NO.<br><b>SS-12445</b> | JOB NO.                      | DELIVERY TICKET NO. | DISTRICT<br><b>LB</b> | INVOICE DATE<br><b>8-13-79</b> |
| CUSTOMER ORDER NO.                  | DATE SHIPPED                 | VIA                 | FROM                  | TO                             |
| STATE<br><b>Arizona</b>             | COUNTY/PARISH<br><b>Pina</b> | FIELD               | WELL<br><b>Mining</b> | RIG NO.                        |

18-05055-00

Asar Co., Southwest Exploration  
 U. S. Exploration  
 P. O. Box 5747  
 Tucson, Arizona 85730

TERMS: NET 30 DAYS

IN THE EVENT THE INVOICE MUST BE  
 PLACED FOR COLLECTION. LIQUIDATED  
 DAMAGES IN THE AMOUNT OF  
 TWENTY-FIVE PERCENT (25%) OF THE  
 AGGREGATE BALANCE DUE AS WELL  
 AS ALL LEGAL COSTS INCURRED, WILL  
 BE ADDED THERETO.

C. D. N.

AUG 17 1979

|   | UNIT PRICE | TOTAL   |
|---|------------|---------|
| <p><b>ADDITIONAL CHARGES:</b></p> <p>Continental Airlines, Inc., Invoice #2656-9200, (6) Attached (T)</p> <p style="text-align: right;"><i>Aug 27 '79</i></p> <p>rw: LB</p> |            | \$21.00 |
| <p>APPROVED FOR PAYMENT</p> <p>By: <i>James Sell</i><br/>(Signature)</p> <p><i>SE #A-11</i></p> <p><i>Returns freight on survey equipment.</i></p>                          |            |         |

**UNIFORM AIRBILL - NON-NEGOTIABLE**

Carrier's liability is limited per Item 3 on reverse side unless shipper requests additional declared value (subject to additional charge)

Subject to Conditions of Contract on the Back of the Airbill

AIRBILL NUMBER: **005 2656 9200** DATE: **6/24/79** TIME: **7/62X**



**CONTINENTAL AIRLINES, INC.**  
LOS ANGELES, CALIFORNIA 90009

1/ FROM: [ ] VIA: [ ] TO: [ ] VIA: [ ]

2/ CONSIGNEE'S ACCOUNT NO. [ ]

NAME: [ ]  
 STREET ADDRESS: [ ]  
 CITY, STATE, ZIP CODE: [ ]

4/ SHIPPER'S ACCOUNT NO. [ ]

NAME: [ ]  
 STREET ADDRESS: [ ]  
 CITY, STATE, ZIP CODE: [ ]

3/ INSTRUCTIONS TO CARRIER: *Should call chg to 55-12445 when bill comes in*

C.O.D. SHIPMENT  
 R.F.C. SHIPMENT

SHIPPER'S SIGNATURE: *[Signature]*

PAYMENT RECEIVED BY:

CASH  CHECK  CREDIT CARD  
 CODE NUMBER: **CO MIN** RATE: **20.00**  
 PICK UP TRUCKER: [ ] DELIVERY TRUCKER: [ ]

NOTIFICATION (PERSON NOTIFIED) BY: [ ]  
 DATE/TIME: [ ] DISPOSITION: [ ]

RECEIVED BY CARRIER AT:  SHIPPER'S OFFICE  CITY TERMINAL  AIRPORT TERMINAL

DESCRIPTION OF ORIGIN ADVANCE CHGS. [ ]

DESCRIPTION OF DESTINATION ADVANCE CHARGES [ ]

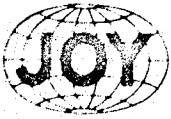
DESCRIPTION OF OTHER CHARGES [ ]

DIMENSIONAL WEIGHT -- LBS. [ ]  
 TARIFF AUTHORITY: [ ] ITEMS PREPAID: [ ]

GBL GTR NO.: [ ] ITEMS COLLECT: [ ]  
 TOTAL SHIPPER PAYS: **1.00**

| NO. PCS | GROSS WEIGHT | CHARGEABLE WEIGHT | DESCRIPTION OF PACKING, PIECES AND CONTENTS   | CARRIER COMMODITY GROUP NO. | MULTIPLE CONTAINER/COMMODITY CODE | RATE | CHARGE |
|---------|--------------|-------------------|---|-----------------------------|-----------------------------------|------|--------|
| 3       | 79           | MIN               | M/P 610012872 Referring 7-23-79<br>Accounting 55-12445<br>Use Tax Amt. 21.00<br>R. O. 55-12445 Customer ASAR Co.<br>Charge Customer (6), 12445, \$21.00, (T)<br>Approval [Signature]<br>Account No. 210 |                             |                                   |      |        |

RECEIVED: **ACCOUNTING** JUN 27 1979  
 RECEIVED: **RECEIVED**  
 RECEIVED BY: *[Signature]*  
 DATE: **6/25/79** TIME: **1041**  
 AIRBILL NUMBER: **005 2656 9200**



# JOY MANUFACTURING COMPANY

OLIVER BUILDING  
PITTSBURGH, PENNSYLVANIA 15222

PLEASE REMIT TO  
P. O. BOX 360135M  
PITTSBURGH, PA. 15250

|                      |                    |          |               |      |               |          |
|----------------------|--------------------|----------|---------------|------|---------------|----------|
| CUSTOMER'S ORDER NO. | DATE               | REQ. NO. | OUR ORD'R NO. | DATE | AT REC. POINT | B.O. NO. |
| CONTRACT             | CODE               | DATE     | AT SHIP POINT |      |               |          |
|                      | 99 69 05 03 02 209 |          | 418           |      |               |          |

02250

SOLD TO

Asarco Inc.  
P. O. Box 5747  
Tucson, AZ 85703

Attn: Mr. N. P. Whaley

SHIPPED TO

Superior, AZ

P. O. ADDRESS

MARKS

REQUESTED ROUTING

SHIPPED FROM Michigan City

TERMS NET 30 DAYS  
NO CASH DISCOUNT

INVOICE NO. 52117736

INVOICE DATE 9/19/79

PLEASE REMIT TO  
P. O. BOX 360135M  
PITTSBURGH, PA. 15250

DATE SHIPPED

SHIPPED VIA

| ORIGINAL QUANTITY ORDERED | PART NUMBER          | DESCRIPTION  | CODE | UNIT PRICE | QUANTITY BACK ORDERED | QUANTITY SHIPPED | AMOUNT     |
|---------------------------|----------------------|--|------|------------|-----------------------|------------------|------------|
|                           |                      | To casing rental at Superior, AZ for period ending August 25, 1979 as per agreement. |      |            |                       |                  |            |
|                           | <u>CASING RENTAL</u> |  |      |            |                       |                  |            |
|                           | A-11                 | 2580 ft. NX casing @ \$6.80  |      | 17,544.00  | ✓                     |                  |            |
|                           |                      | 3772 ft. BX casing @ \$5.50  |      | 20,746.00  | ✓                     |                  |            |
|                           |                      | 1 NXF casing shoe  |      | 618.02     | ✓                     |                  |            |
|                           |                      |  |      | 38,908.02  | ✓                     |                  |            |
|                           |                      | Rental @ 5% per month  |      |            |                       |                  | \$1,945.40 |

APPROVED FOR PAYMENT

By: *James R. Sell*  
(Signature)

**ORIGINAL**

09007

F. O. B. SHIPPING POINT UNLESS OTHERWISE SPECIFIED  
NO RETURNS ALLOWED UNLESS AUTHORIZED BY THIS OFFICE  
GOODS COVERED BY THIS INVOICE WERE PRODUCED IN COMPLIANCE WITH THE REQUIREMENTS OF THE FAIR LABOR STANDARDS ACT OF 1938, AS AMENDED, INCLUDING SECTION 12(A).



# JOY MANUFACTURING COMPANY

OLIVER BUILDING  
PITTSBURGH, PENNSYLVANIA 15222

PLEASE REMIT TO  
P. O. BOX 360135M  
PITTSBURGH, PA. 15250

|                                 |                    |               |      |               |         |
|---------------------------------|--------------------|---------------|------|---------------|---------|
| CUSTOMER'S ORDER NO.<br>T-212-8 | DATE               | REQ. NO.      | DATE | AT REC. POINT | B.O.NO. |
| CONTRACT                        | CODE               | OUR ORD'R NO. | DATE | AT SHIP POINT |         |
|                                 | 99 69 05 03 02 209 |               |      | 418           |         |

10-22-79  
APLW

02250  
SOLD TO Asarco Inc.  
P. O. Box 5747  
Tucson, AZ 85703  
Attn: Mr. N. P. Whaley

SHIPPED TO Superior, AZ

TERMS NET 30 DAYS  
NO CASH DISCOUNT

PLEASE REMIT TO  
P. O. BOX 360135M  
PITTSBURGH, PA. 15250

INVOICE NO. 52117796  
INVOICE DATE 10/16/79  
DATE SHIPPED  
SHIPPED VIA

P. O. ADDRESS MARKS

REQUESTED ROUTING SHIPPED FROM Michigan City

| ORIGINAL QUANTITY ORDERED | PART NUMBER          | DESCRIPTION  | CODE | UNIT PRICE | QUANTITY BACK ORDERED | QUANTITY SHIPPED | AMOUNT     |
|---------------------------|----------------------|--|------|------------|-----------------------|------------------|------------|
|                           |                      | To casing rental at Superior, AZ for period ending Sept. as per agreement. |      |            | 25                    | 1979             |            |
|                           | <u>CASING RENTAL</u> |  |      |            |                       |                  |            |
|                           | A-11                 | 2,580 ft. NX casing @ \$6.80/ft.   |      |            | 17,544.00             |                  |            |
|                           |                      | 3,772 ft. BX casing @\$ 5.50/ft.   |      |            | 20,746.00             |                  |            |
|                           |                      | 1 NXF casing shoe  |      |            | 618.02                |                  |            |
|                           |                      |  |      |            | <u>38,908.02</u>      |                  |            |
|                           |                      | Rental for one month @ 5% per month  |      |            |                       |                  | \$1,945.40 |

*OK for payment  
James W Sell  
Superior East  
A-11*

09007



10-17  
 EXPLORATION AUTHORIZATION NO. 0010-15  
 SUPERIOR EAST PROJECT  
 PINAL COUNTY, ARIZONA

TUCSON OFFICE

AUGUST - 1979

J.D. Seif

| Account No. | Item                                   | This Month        | This Year            | Total to Date        |
|-------------|--|-------------------|----------------------|----------------------|
| 506-950     | Rental Payments - Other                | \$ 257.00         | \$ 766.00            | \$ 1345.00           |
| 521-100     | Surface Drilling - Salaries            | 51.49             | 139.92               | 227.57               |
| 521-200     | - Add. Labor                           | 21.00             | 988.60               | 988.60               |
| 521-350     | - Equip. Rental                        |                   | 12.91                | 24.90                |
| 521-600     | - Traveling                            | < 2644.76 >       | 86200.21             | 134925.46            |
| 521-750     | - Services                             |                   |                      | 69.44                |
| 521-780     | - Fuel, Power, Water                   |                   | 175.24               | 175.24               |
| 521-801     | - Sales Tax                            |                   |                      | 6220.00              |
| 530-100     | Geology - Salaries                     | 538.00            | 4914.00              | 6220.00              |
| 530-200     | - Add. Labor                           | 107.45            | 1095.58              | 1296.77              |
| 530-400     | - Supplies                             |                   | 3.98                 | 3.98                 |
| 530-600     | - Traveling                            |                   | 241.52               | 363.97               |
| 530-801     | - Sales Tax                            |                   | 09                   | 09                   |
| 540-100     | Sampling, Assaying, Lab. - Salaries    |                   | 1204.00              | 1407.00              |
| 540-150     | - Wages                                |                   |                      | 217.32               |
| 540-200     | - Add. Labor                           |                   | 300.24               | 349.91               |
| 540-750     | - Services                             |                   | 421.88               | 426.88               |
| 570-100     | Engineering - Salaries                 |                   |                      |                      |
| 570-200     | - Add. Labor                           |                   |                      |                      |
| 570-750     | - Services                             |                   |                      |                      |
| 580-100     | Temporary Construction - Salaries      |                   |                      |                      |
| 580-200     | - Add. Labor                           |                   |                      |                      |
| 580-400     | - Supplies                             |                   |                      |                      |
| 580-750     | - Services                             |                   | 446.16               | 1725.65              |
| 580-801     | - Sales Tax                            |                   |                      |                      |
| 590-750     | Construction - Services                |                   |                      |                      |
| 590-801     | - Sales Tax                            |                   |                      |                      |
| 610-400     | Field Administration - Supplies        |                   |                      |                      |
| 610-500     | - Communications                       | 17.33             | 144.96               | 227.53               |
| 610-600     | - Traveling                            |                   | 300.47               | 300.42               |
| 610-780     | - Fuel, Power, Water                   | 50.81             | 136.34               | 173.24               |
| 610-790     | - Rent                                 |                   | 1500.00              | 1500.00              |
| 620-100     | General Administration - Salaries      | 318.00            | 1523.00              | 2180.00              |
| 620-150     | - Wages                                |                   |                      |                      |
| 620-200     | - Add. Labor                           | 64.92             | 346.52               | 478.64               |
| 620-400     | - Supplies                             | 7.38              | 31.55                | 40.84                |
| 620-750     | - Services                             |                   |                      |                      |
| 620-801     | - Sales Tax                            | .44               | 1.88                 | 2.43                 |
| 620-950     | - Other                                | 6.50              | 3548.00              | 3552.00              |
| 641-400     | Distributable Accounts Auto - Supplies |                   | 1255.99              | 1821.57              |
| 641-801     | - Sales Tax                            |                   | 3.36                 | 6.65                 |
|             |  | <u>\$ 1204.44</u> | <u>\$ 108,689.34</u> | <u>\$ 163,038.10</u> |

Authorized  
 Expended

\$ 146,000.00  
163,038.10

Balance Unexpended

\$ (17,038.10)

521-550 Surface Drilling - Freight  
 521-400 - Supplies

21.00 21.00  
 2966.00 2966.00

Orig: TCOsborne  
 CC: FRM, NV, CWC, TES, FTG, File-2

A-11

| Account No. | Item                                   | This Month | This Year     | Total to Date |
|-------------|--|------------|---------------|---------------|
| 506-950     | Rental Payments - Other                | \$         | \$            | \$            |
| 521-100     | Surface Drilling - Salaries            | 99.00      | 865.00        | 1444.00       |
| 521-200     | - Add. Labor                           | 26.81      | 166.73        | 254.38        |
| 521-350     | - Equip. Rental                        |            | 988.60        | 988.60        |
| 521-600     | - Traveling                            |            | 12.90         | 24.90         |
| 521-750     | - Services                             | 3890.80    | 90091.01      | 138816.26     |
| 521-780     | - Fuel, Power, Water                   |            |               | 69.44         |
| 521-801     | - Sales Tax                            | < 118.64 > | 56.60         | 56.60         |
| 530-100     | Geology - Salaries                     |            | 4914.00       | 6220.00       |
| 530-200     | - Add. Labor                           |            | 1095.58       | 1296.77       |
| 530-400     | - Supplies                             |            | 3.98          | 3.98          |
| 530-600     | - Traveling                            |            | 241.52        | 363.97        |
| 530-801     | - Sales Tax                            |            | .09           | .09           |
| 540-100     | Sampling, Assaying, Lab. - Salaries    |            | 1204.00       | 1407.00       |
| 540-150     | - Wages                                |            |               | 217.32        |
| 540-200     | - Add. Labor                           |            | 300.24        | 349.91        |
| 540-750     | - Services                             |            | 421.88        | 426.88        |
| 570-100     | Engineering - Salaries                 |            |               |               |
| 570-200     | - Add. Labor                           |            |               |               |
| 570-750     | - Services                             |            |               |               |
| 580-100     | Temporary Construction - Salaries      |            |               |               |
| 580-200     | - Add. Labor                           |            |               |               |
| 580-400     | - Supplies                             |            |               |               |
| 580-750     | - Services                             |            | 446.16        | 1725.65       |
| 580-801     | - Sales Tax                            |            |               |               |
| 590-750     | Construction - Services                |            |               |               |
| 590-801     | - Sales Tax                            |            |               |               |
| 610-400     | Field Administration - Supplies        |            |               |               |
| 610-500     | - Communications                       | 16.16      | 161.12        | 243.69        |
| 610-600     | - Traveling                            |            | 300.47        | 300.42        |
| 610-780     | - Fuel, Power, Water                   | 11.87      | 148.21        | 185.11        |
| 610-790     | - Rent                                 |            | 1500.00       | 1500.00       |
| 620-100     | General Administration - Salaries      | 106.00     | 1629.00       | 2286.00       |
| 620-150     | - Wages                                |            |               |               |
| 620-200     | - Add. Labor                           | 16.64      | 363.16        | 495.28        |
| 620-400     | - Supplies                             |            | 31.55         | 40.84         |
| 620-750     | - Services                             |            |               |               |
| 620-801     | - Sales Tax                            |            | 1.88          | 2.43          |
| 620-950     | - Other                                |            | 3548.00       | 3552.00       |
| 641-400     | Distributable Accounts Auto - Supplies |            | 1255.99       | 1821.57       |
| 641-801     | - Sales Tax                            |            | 3.36          | 6.65          |
|             |  | \$ 4048.44 | \$ 112,737.98 | \$ 167,086.74 |

Authorized  
Expended

\$ 146 000.00  
167 086.74

Balance Unexpended

\$(21 086.74)

521-550 Surface Drilling - Freight  
521-400 - Supplies

21.00  
2966.00

21.00  
2966.00

**DRYANT CONSTRUCTION CO.**

GENERAL CONTRACTORS -- LIC. NO. A-43332

843 SPRAY STREET

SUPERIOR, ARIZONA 85273

PHONE 639-2627

1529



Sold To

ASAFCO Incorporated

P.O. Box 5747

Tucson Arizona 85703

Shipped To

Core Building in Miami, Az.

DATE

Oct. 12, 1979

CUSTOMER'S ORDER

SALESMAN

TERMS

F.O.B.

SHIPPED VIA

Repair Broken Window

Supplies Purchased at Schwarz Lumber Co.

2 4x8 3/4 ACX Plywood @ \$25.60 per Sheet

\$51 20

Tax

2 56

1 qt. Paint

3 15

1 2 1/2 in. Brush

1 99

Tax

26

Less 10%

51

Total Supplies

\$58 65

Labor @ \$15.00 Hour per man (two men)

3 hrs

45 00

Total

\$103 65

APPROVED FOR PAYMENT

By:

(Signature)

|                  |                    |
|------------------|--------------------|
| Order No. _____  | Quant. O. K. _____ |
| Shp. Recd. _____ | Price O.K. _____   |
| Inv. Recd. _____ | Exten. O.K. _____  |
| Fr. _____        | Exp. _____         |
| Trk. _____       | Mail _____         |
| Charge _____     |                    |

Rediform

75 737

Poly Pak (50 sets) 7P737

INVOICE

NPWhaley  
JDSell ✓

Superior East

I would like to know when  
the boy billing problems re  
A-11 overrun are resolved -  
hopefully soon. Until that  
time I can't request funds  
for overrun and wedge out of  
A-11 (A-12?). Please  
keep me advised as soon  
as you have an answer.

FTG

10/20/79

10-11

EXPLORATION AUTHORIZATION NO. 0010-15  
 SUPERIOR EAST PROJECT  
 PINAL COUNTY, ARIZONA

TUCSON OFFICE

October - 1979

| Account No. | Item                                   | This Month | This Year   | Total to Date |
|-------------|--|------------|-------------|---------------|
| 506-950     | Rental Payments - Other                | \$         | \$          | \$            |
| 521-100     | Surface Drilling - Salaries            |            | 865.00      | 1444.00       |
| 521-200     | - Add. Labor                           |            | 166.73      | 254.38        |
| 521-350     | - Equip. Rental                        |            | 988.60      | 988.60        |
| 521-600     | - Traveling                            |            | 12.90       | 24.90         |
| 521-750     | - Services                             | 1945.40    | 92036.41    | 140761.66     |
| 521-780     | - Fuel, Power, Water                   |            |             | 69.44         |
| 521-801     | - Sales Tax                            |            | 56.60       | 56.60         |
| 530-100     | Geology - Salaries                     | 128.00     | 5042.00     | 6348.00       |
| 530-200     | - Add. Labor                           | 21.46      | 1117.04     | 1318.23       |
| 530-400     | - Supplies                             |            | 3.98        | 3.98          |
| 530-600     | - Traveling                            |            | 241.52      | 363.97        |
| 530-801     | - Sales Tax                            |            | .09         | .09           |
| 540-100     | Sampling, Assaying, Lab. - Salaries    |            | 1204.00     | 1407.00       |
| 540-150     | - Wages                                |            |             | 217.32        |
| 540-200     | - Add. Labor                           |            | 300.24      | 349.91        |
| 540-750     | - Services                             |            | 421.88      | 426.88        |
| 570-100     | Engineering - Salaries                 |            |             |               |
| 570-200     | - Add. Labor                           |            |             |               |
| 570-750     | - Services                             |            |             |               |
| 580-100     | Temporary Construction - Salaries      |            |             |               |
| 580-200     | - Add. Labor                           |            |             |               |
| 580-400     | - Supplies                             |            |             |               |
| 580-750     | - Services                             | 100.83     | 546.99      | 1826.48       |
| 580-801     | - Sales Tax                            | 2.82       | 2.82        | 2.82          |
| 590-750     | Construction - Services                |            |             |               |
| 590-801     | - Sales Tax                            |            |             |               |
| 610-400     | Field Administration - Supplies        |            |             |               |
| 610-500     | - Communications                       | 16.16      | 177.28      | 259.85        |
| 610-600     | - Traveling                            |            | 300.47      | 300.42        |
| 610-780     | - Fuel, Power, Water                   | 41.87      | 190.08      | 226.98        |
| 610-790     | - Rent                                 |            | 1500.00     | 1500.00       |
| 620-100     | General Administration - Salaries      |            | 1629.00     | 2286.00       |
| 620-150     | - Wages                                |            |             |               |
| 620-200     | - Add. Labor                           |            | 363.16      | 495.28        |
| 620-400     | - Supplies                             |            | 31.55       | 40.84         |
| 620-750     | - Services                             | 35.00      | 35.00       | 35.00         |
| 620-801     | - Sales Tax                            |            | 1.88        | 2.43          |
| 620-950     | - Other                                |            | 3548.00     | 3552.00       |
| 641-400     | Distributable Accounts Auto - Supplies |            | 1255.99     | 1821.57       |
| 641-801     | - Sales Tax                            |            | 3.36        | 6.65          |
|             |  | \$ 2291.54 | \$ 15029.52 | \$ 169378.28  |

Authorized  
 expended

\$ 146 000.00  
 169378.28

Balance Unexpended

\$(23378.28)

521-550 Surface Drilling - Freight  
 521-400 - Supplies

21.00 21.00  
 2966.00 2966.00

Orig: TCOsborne  
 cc: FRM, NV, CWC, TES, FTG, File-2

A-11

# ASARCO

Southwestern Exploration Division

JDS

November 15, 1979

TO: C. D. Newton

FROM: N. P. Whaley

Superior East Project - 0010  
Joy Manufacturing Company  
Resolution on Invoices  
52117532 and 52117589

During a telephone conversation today with J. H. Koontz, General Manager of the Drill Division of Joy Manufacturing Company, it was agreed that Joy Manufacturing Company would accept as payment in full the amounts offered by Asarco in the enclosures of my letter of August 6th to Mr. Koontz. You received a copy of this letter, but without the enclosures.

Copies of the enclosures are now attached to this memo as documents for the rationale for the request for payment summarized below.

Please pay Joy Manufacturing Company the following amounts:

|                          |                    |                      |
|--------------------------|--------------------|----------------------|
| For Invoice No. 52117532 | \$13,228.82        | <i>dated 6/6/79</i>  |
| " " " 52117589           | 12,299.58          | <i>dated 7/16/79</i> |
|                          | <u>\$25,528.40</u> | TOTAL                |

These invoices reflect work done in drilling hole A-11 between April 26, 1979 and June 25, 1979.

*N. P. Whaley*

N. P. Whaley

NPW:jlh

attachments

c.c. L.A. Bormolini, w/attmts

F.T. Graybeal, w/attmts

J.D. Sell, w/attmts

Superior East Project: Cost Recap

Hole A-11 for period 4-26-79 through 5-25-79

Joy Invoice No. 52117532

| <u>Item</u>                              | <u>Joy Invoice</u>                     | <u>Asarco</u>  |
|--|--|--|
| a) Footage chgs.                         | -0-<br>(In lieu of 104' @ \$ 2,766.40) | <del>113'</del> @ \$ 3,005.80-<br>119' @ \$ 3,165.40 |
| b) Cementing and plugging                | 116 hrs. @ \$ 3,480.00                 | 120½ hrs. @ 3,615.00                                 |
| c) Set and pull casing                   | 24 hrs. @ 720.00                       | As invoiced 720.00                                   |
| d) Survey time                           | 6 hrs. @ 180.00                        | As invoiced 180.00                                   |
| e) Mud and additives used                | 1,408.92                               | As invoiced 1,408.92                                 |
| f) Core boxes used                       | 12.00                                  | As invoiced 12.00                                    |
| g) Water truck rental                    | 386.00                                 | As invoiced 386.00                                   |
| h) Wedging time and drilling<br>by wedge | 43 hrs. @ 1,548.00                     | 3 hrs. @ 108.00                                      |
| i) Deflecting wedge                      | 465.50                                 | As invoiced 465.50                                   |
| j) Rig time submitted for<br>approval    | 279 hrs. @ <u>10,044.00</u>            | 88 hrs. @ <u>3,168.00</u>                            |

Original Invoice Total (Items b thru j) \$18,244.42  
 Original Invoice Total (Items a\* thru i) \$10,966.82  
 Asarco Proposal Total (Items a\* thru j)

\$13,069.22  
 \$13,228.82

\*Represents cost equivalent for footage drilled during month.

difference of \$5,015.60  
 on credit memo #52000610  
 11/15/79  
 attached.

Superior East Project: Chronological Detail of Costs

Hole A-11 for period 4-26-79 through 5-25-79

Joy Invoice No. 52117532

| <u>Date</u> | <u>Asarco Proposal and Rationale</u>   |
|-------------|--|
| April 26    | 24 hrs. casing time; OK.   |
| April 27    | 10' core (from 4961'); no rig time applicable -- checking rods.  |
| April 30    | 6' core; no rig time applicable -- bit change.   |
| May 1       | 12' core; no rig time applicable -- bit change.  |
| May 2       | 19' core; no rig time applicable.  |
| May 3       | 16' core; no rig time applicable.  |
| May 4       | 10' core; no rig time applicable -- bit change.  |
| May 5       | 8' core; no rig time applicable.   |
| May 7       | 1' core (to 4939');<br>16 hrs. rig time; 3-1/2 hrs. delay not applicable.  |
| May 8       | 24 hrs. rig time; converting to LoLoss mud system.   |
| May 9       | 24 hrs. rig time; conditioning and cleaning hole.  |
| May 10      | 24 hrs. rig time; cleaning hole for setting wedge.   |
| May 11      | 6 hrs. survey time;<br>3 hrs. wedging time;<br>12 hrs. cementing time; no rig time applicable -- waiting on wedge from Tucson. |
| May 14      | 12 hrs. cementing time; no rig time applicable on information delay or rod cleaning.   |
| May 15      | 16 hrs. cementing time; OK.  |
| May 16      | 16 hrs. cementing time; OK.  |
| May 17      | 16 hrs. cementing time; OK.  |
| May 18      | 12-1/2 hrs. cementing time; no credit for PM shift going home 3-1/2 hrs. early.  |
| May 21      | 24 hrs. cementing time; OK. (Drilled 4' out along side of wedge.)  |
| May 22      | 12 hrs. cementing time; OK -- preparing to core again.<br>6' core (from 4924'); no rig time applicable.                        |
| May 23      | 16' core; no rig time applicable -- bit change.  |
| May 24      | 6' core; no rig time applicable -- no GY helper.   |
| May 25      | 9' core (to 4961'); no rig time applicable -- no GY shift.   |



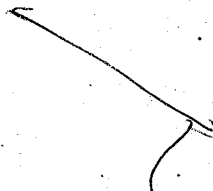
Superior East Project: Cost Recap

Hole A-11 for period 5-26-79 through 6-25-79

Joy Invoice No. 52117589

| <u>Item</u>   | <u>Joy Invoice</u> | <u>Asarco</u>             |
|---|--------------------|---------------------------|
| a) Footage chgs.<br>(in lieu of 214' @ \$ 6,392.40) | -0-                | 214' @ \$ 6,392.40        |
| b) Rig time submitted for approval<br>413 hrs. @    | \$14,868.00        | 75 hrs. @ 2,700.00        |
| c) Survey time<br>12 hrs. @                         | 360.00             | As invoiced 360.00        |
| d) Set and pull casing<br>40 hrs. @                 | 1,200.00           | As invoiced 1,200.00      |
| e) Mud and additives used                           | 1,247.48           | As invoiced 1,247.48      |
| f) Core boxes used                                  | 34.50              | As invoiced 34.50         |
| g) Water truck rental                               | <u>365.20</u>      | As invoiced <u>365.20</u> |
| Original Invoice Total (Items b thru g)             | \$18,075.18        |                           |
| Original Invoice Total (Items a* & c thru g)        | \$ 9,599.58        |                           |
| Asarco Proposal Total (Items a* thru g)             |                    | \$12,299.58               |

\*Represents cost equivalent for footage drilled during month.


  
 \$5,775.60  
 on credit memo  
 # 52000610  
 11/15/79  
 attached.

Superior East Project: Chronological Detail of Costs

Hole A-11 for period 5-26-79 through 6-25-79

Joy Invoice No. 52117589

| Date    | Asarco Proposal and Rationale  |
|---------|--|
| May 26  | 8' core (from 4961');<br>2 hrs. rig time to clean hole; no other rig time applicable, normal drilling procedures; no GY shift, hence necessary to pull back into casing. |
| May 29  | 6' core; no rig time applicable -- bit change (no GY).   |
| May 30  | 16' core; no rig time applicable -- completed bit change (no GY).  |
| May 31  | 6' core; no rig time applicable -- bit change (no GY).   |
| June 1  | 18' core; no rig time applicable -- completed bit change (no GY).  |
| June 2  | 11' core; no rig time applicable -- closed for weekend (no GY).  |
| June 4  | 12' core;<br>3 hrs. rig time to clean hole; no other rig time applicable.  |
| June 5  | 29' core; no rig time applicable.  |
| June 6  | 10' core;<br>3 hrs. rig time to clean hole; bit change; no other rig time applicable.  |
| June 7  | 25' core; no rig time applicable.  |
| June 8  | 25' core; no rig time applicable -- closed for weekend.  |
| June 11 | 3' core;<br>6 hrs. rig time to clean hole; bit change; no other rig time applicable.   |
| June 12 | 18' core; no rig time applicable.  |
| June 13 | 8' core;<br>3 hrs. rig time to clean hole; bit change; no other rig time applicable.   |
| June 14 | 4' core;<br>6 hrs. rig time to clean and condition hole with new mud; bit change;<br>no other rig time applicable.   |
| June 15 | 15' core; no rig time applicable -- bit change.  |
| June 16 | 12 hrs. rig time to clean hole; no other rig time applicable -- bit change.  |
| June 18 | 16 hrs. rig time to clean hole; no other rig time applicable -- recovered lost bit crown parts.  |
| June 19 | 16 hrs. rig time to clean hole for survey; no other rig time applicable.   |
| June 20 | 8 hrs. rig time to clean hole for survey;<br>12 hrs. survey time; no GY shift; terminated hole at 5175'.   |
| June 21 | 16 hrs. casing time, no GY.  |
| June 22 | 16 hrs. casing time.   |
| June 25 | 8 hrs. casing time.  |

JOY

# JOY MANUFACTURING COMPANY

105

OLIVER BUILDING

C. D. N.

PITTSBURGH, PENNSYLVANIA 15222

NOV 19 1979

|  |      |                    |               |      |               |           |                       |
|--|------|--------------------|---------------|------|---------------|-----------|-----------------------|
| CUSTOMER'S ORDER NO.<br><b>T-212-8</b> | DATE | REQ. NO.           | OUR ORDER NO. | DATE | AT REC. POINT | B. O. NO. | ORIGINAL INVOICE NO.  |
| CONTRACT                               | CODE | 99 69 05 03 02 209 |               | DATE | AT SHIP POINT |           | ORIGINAL INVOICE DATE |
|  |      |                    |               |      | 418           |           |                       |

02250  
CREDIT  
TO

Asarco Inc.  
P. O. Box 5747  
Tucson, AZ 85703

Attn: Mr. N. P. Whaley

RETURNED  
FROM

11-19-79  
NPL

CREDIT

CREDIT NO. 52000610

CREDIT DATE 11/15/79

MEMORANDUM REASON

VIA

RETURNED TO LaPorte

| QUANTITY TO BE RETURNED | PART NUMBER | DESCRIPTION   | SALES CODE | UNIT PRICE | QUANTITY RECEIVED | QUANTITY CREDITED | AMOUNT       |
|-------------------------|-------------|---|------------|------------|-------------------|-------------------|--------------|
|                         |             | To correct our invoice #52117532 dated 6/6/79 to agree with customer deduction and per N. P. Whaley's letter dated 8/6/79 |            |            |                   |                   | \$5,015.60 ✓ |
|                         |             | OK AS SHOWN<br>NPL<br>11-19-79  |            |            |                   |                   |              |
|                         |             |   |            |            |                   |                   | DUPLICATE    |

# JCV MANUFACTURING COMPANY

JDS

OLIVER BUILDING

C. D. N.

PITTSBURGH, PENNSYLVANIA 15222

NOV 19 1979

T-212-8

|                      |                   |               |      |               |           |                       |
|----------------------|-------------------|---------------|------|---------------|-----------|-----------------------|
| CUSTOMER'S ORDER NO. | DATE              | REQ. NO.      | DATE | AT REC. POINT | B. O. NO. | ORIGINAL INVOICE NO.  |
| CONTRACT             | CODE              | NO.           | DATE | AT SHIP POINT |           | ORIGINAL INVOICE DATE |
| 02250                | 99 69 05 03 02 20 | OUR ORDER NO. |      | 418           |           |                       |

CREDIT TO

Asarco Inc.  
P. O. Box 5747  
Tucson, AZ 85703

11-19-79  
NPW

52000611

CREDIT NO. 11/15/79

CREDIT

CREDIT DATE

RETURNED FROM

MEMORANDUM REASON

LaPorte

VIA

RETURNED TO

| QUANTITY TO BE RETURNED | PART NUMBER | DESCRIPTION  | SALES CODE | UNIT PRICE | QUANTITY RECEIVED | QUANTITY CREDITED | AMOUNT       |
|-------------------------|-------------|--|------------|------------|-------------------|-------------------|--------------|
|                         |             | To correct our invoice #52117589 dated 7/16/79 to agree with customer deduction and per N. P. Whaley's letter dated 8/6/79 |            |            |                   |                   | \$5,775.60 ✓ |
|                         |             | OK AS SHOWN<br>NPW<br>11-19-79   |            |            |                   |                   |              |

DUPLICATE



# JOY MANUFACTURING COMPANY

OLIVER BUILDING  
PITTSBURGH, PENNSYLVANIA 15222

PLEASE REMIT TO  
P. O. BOX 360135M  
PITTSBURGH, PA. 15250

|                      |                    |          |               |      |                      |         |
|----------------------|--------------------|----------|---------------|------|----------------------|---------|
| CUSTOMER'S ORDER NO. | DATE               | REQ. NO. | OUR ORDER NO. | DATE | AT REC. POINT        | B.O.NO. |
| CONTRACT<br>T-212-8  | 99 69 05 03 02 209 | CODE     |               | DATE | AT SHIP POINT<br>418 |         |

02250  
SOLD TO Asarco Inc,  
P. O. Box 5747  
Tucson, AZ 85703  
Attn: Mr. N. P. Whaley

SHIPPED TO Superior, AZ

P. O. ADDRESS MARKS

REQUESTED ROUTING SHIPPED FROM LaPorte

TERMS NET 30 DAYS  
NO CASH DISCOUNT

PLEASE REMIT TO  
P. O. BOX 360135M  
PITTSBURGH, PA. 15250

INVOICE NO. 52117888  
INVOICE DATE 12/5/79  
DATE SHIPPED  
SHIPPED VIA

| ORIGINAL QUANTITY ORDERED | PART NUMBER             | DESCRIPTION  | CODE | UNIT PRICE | QUANTITY BACK ORDERED | QUANTITY SHIPPED | AMOUNT       |
|---------------------------|-------------------------|--|------|------------|-----------------------|------------------|--------------|
|                           |                         | To casing rental at Superior, AZ for period ending Nov. 25, 1979 as per agreement. |      |            |                       |                  |              |
|                           |                         | <u>CASING RENTAL</u>   |      |            |                       |                  |              |
|                           | <del>A-10</del><br>A-11 | 2580 ft. NX casing @ \$6.80/ft.  |      |            |                       | 17,544.00        |              |
|                           |                         | 3772 ft. BX casing @ \$5.50/ft.  |      |            |                       | 20,746.00        |              |
|                           |                         | 1 NXF casing shoe  |      |            |                       | 618.02           |              |
|                           |                         |  |      |            |                       | 38,908.02        |              |
|                           |                         | Rental for one month @ 5% per month  |      |            |                       |                  | \$1,945.40 ✓ |
|                           |                         | <b>SUPERIOR EAST</b><br>APPROVED FOR PAYMENT                                       |      |            |                       |                  |              |
|                           |                         | By: <u>NPW</u><br>(Signature) 12-11-79   |      |            |                       |                  |              |
|                           |                         | APPROVED FOR PAYMENT   |      |            |                       |                  |              |
|                           |                         | By: _____<br>(Signature)   |      |            |                       |                  |              |
|                           |                         | CC: JD SELL  |      |            |                       |                  |              |

DUPLICATE

F. O. B. SHIPPING POINT UNLESS OTHERWISE SPECIFIED

NO RETURNS ALLOWED UNLESS AUTHORIZED BY THIS OFFICE

09007

GOODS COVERED BY THIS INVOICE WERE PRODUCED IN COMPLIANCE WITH THE REQUIREMENTS OF THE FAIR LABOR STANDARDS ACT OF 1938, AS AMENDED, INCLUDING SECTION 12(A).

SOUTHWESTERN EXPLORATION DIVISION

26th OCT thru  
25th NOV, 1979

MONTHLY COST SUMMARY

SUPERIOR EAST

Project, PINAL  
(County)

AZ.  
(State)

A. DIRECT DRILLING (Acct. 521-)

CONTRACTORS' CHARGES

Invoiced during month covering current month's work

| <u>Contractors' Services</u> | <u>Statement Amt.</u> |
|------------------------------|-----------------------|
| _____                        | _____                 |
| _____                        | _____                 |
| _____                        | _____                 |
| _____                        | _____                 |

X

Estimated balance of contractors' charges covering work through end of current month

| <u>Contractors' Services</u>                                 | <u>Estimated Cost</u> |
|--|-----------------------|
| <u>Joy Mfg. Co. (MONTHLY RENTAL OF CASING IN HOLE A-11.)</u> | <u>\$ 1,945.40</u>    |
| _____  | _____                 |
| _____  | _____                 |

\$ 1,945.40

Supplies and Freight

|       |       |
|-------|-------|
| _____ | _____ |
| _____ | _____ |

X

Field Trailer Rental

|       |       |
|-------|-------|
| _____ | _____ |
| _____ | _____ |

X

Water Purchases (Drilling)

|       |       |
|-------|-------|
| _____ | _____ |
| _____ | _____ |

X

B. SITE PREPARATION (Acct. 580-)

CONTRACTORS' CHARGES

Invoiced during month covering current month's work

| <u>Contractors' Services</u> | <u>Statement Amt.</u> |
|------------------------------|-----------------------|
| _____                        | _____                 |
| _____                        | _____                 |
| _____                        | _____                 |

X

Estimated balance of contractors' charges covering work through end of current month

| <u>Contractors' Services</u> | <u>Estimated Cost</u> |
|------------------------------|-----------------------|
| _____                        | _____                 |
| _____                        | _____                 |
| _____                        | _____                 |

X

Supplies and Freight

|       |       |
|-------|-------|
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |

X

C. SAMPLERS, SAMPLING, SAMPLE PREPARATION, ASSAYING (Acct. 540-)

Yes (Temporary Help)

| <u>Name</u> | <u>No. of Straight Time Hours During Month</u> | <u>No. of Overtime Hours During Month</u> |
|-------------|--|---|
| _____       | _____  | _____                                     |
| _____       | _____  | _____                                     |

\_\_\_\_\_ X \_\_\_\_\_

Assaying

| <u>Assayer</u> | <u>Charge or Estimated Expense for Assaying Performed During Month</u> |
|----------------|--|
| _____          | _____  |
| _____          | _____  |

\_\_\_\_\_ X \_\_\_\_\_

D. CLAIM STAKING, VALIDATION (Acct. 507-)

Invoiced during month covering current month's work

| <u>Contractors' Services</u> | <u>Statement Amt.</u> |
|------------------------------|-----------------------|
| _____                        | _____                 |
| _____                        | _____                 |

\_\_\_\_\_ X \_\_\_\_\_

Estimated balance of contractors' charges covering work through end of current month

| <u>Contractors' Services</u> | <u>Estimated Cost</u> |
|------------------------------|-----------------------|
| _____                        | _____                 |
| _____                        | _____                 |

\_\_\_\_\_ X \_\_\_\_\_

Wages

| <u>Name</u> | <u>No. of Straight Time Hours During Month</u> | <u>No. of Overtime Hours During Month</u> |
|-------------|--|---|
| _____       | _____  | _____                                     |
| _____       | _____  | _____                                     |

\_\_\_\_\_ X \_\_\_\_\_

E. OTHER (Itemize any other major expenses not covered above or by invoice.)

| <u>Item</u> | <u>Cost</u> |
|-------------|-------------|
| _____       | _____       |
| _____       | _____       |
| _____       | _____       |
| _____       | _____       |

\_\_\_\_\_ X \_\_\_\_\_

TOTAL = \$ 1,945.40

CC : CDN  
JDS

NPW  
11-27-79

| Account No. | Item                                   | This Month        | This Year          | Total to Date      |
|-------------|--|-------------------|--------------------|--------------------|
| 506-950     | Rental Payments - Other                | \$                | \$                 | \$                 |
| 521-100     | Surface Drilling - Salaries            | 179.00            | 1044.00            | 1623.00            |
| 521-200     | - Add. Labor                           | 33.28             | 200.01             | 287.66             |
| 521-350     | - Equip. Rental                        |                   | 988.60             | 988.60             |
| 521-600     | - Traveling                            |                   | 12.90              | 24.90              |
| 521-750     | - Services                             | 6473.80           | 98510.21           | 147235.46          |
| 521-780     | - Fuel, Power, Water                   |                   |                    | 69.44              |
| 521-801     | - Sales Tax                            |                   | 56.60              | 56.60              |
| 530-100     | Geology - Salaries                     | 469.00            | 5511.00            | 6817.00            |
| 530-200     | - Add. Labor                           | 85.72             | 1202.76            | 1403.95            |
| 530-400     | - Supplies                             |                   | 3.98               | 3.98               |
| 530-600     | - Traveling                            |                   | 241.52             | 363.97             |
| 530-801     | - Sales Tax                            |                   | .09                | .09                |
| 540-100     | Sampling, Assaying, Lab. - Salaries    |                   | 1204.00            | 1407.00            |
| 540-150     | - Wages                                |                   |                    | 217.32             |
| 540-200     | - Add. Labor                           |                   | 300.24             | 349.91             |
| 540-750     | - Services                             |                   | 421.88             | 426.88             |
| 570-100     | Engineering - Salaries                 |                   |                    |                    |
| 570-200     | - Add. Labor                           |                   |                    |                    |
| 570-750     | - Services                             |                   |                    |                    |
| 580-100     | Temporary Construction - Salaries      |                   |                    |                    |
| 580-200     | - Add. Labor                           |                   |                    |                    |
| 580-400     | - Supplies                             |                   |                    |                    |
| 580-750     | - Services                             |                   | 546.99             | 1826.48            |
| 580-801     | - Sales Tax                            |                   | 2.82               | 2.82               |
| 590-750     | Construction - Services                |                   |                    |                    |
| 590-801     | - Sales Tax                            |                   |                    |                    |
| 610-400     | Field Administration - Supplies        |                   |                    |                    |
| 610-500     | - Communications                       | 16.70             | 193.98             | 276.55             |
| 610-600     | - Traveling                            |                   | 300.42             | 300.42             |
| 610-780     | - Fuel, Power, Water                   | 11.87             | 201.95             | 238.85             |
| 610-790     | - Rent                                 |                   | 1500.00            | 1500.00            |
| 620-100     | General Administration - Salaries      |                   | 1629.00            | 2286.00            |
| 620-150     | - Wages                                |                   |                    |                    |
| 620-200     | - Add. Labor                           |                   | 363.16             | 495.28             |
| 620-400     | - Supplies                             |                   | 31.55              | 40.84              |
| 620-750     | - Services                             | 50.00             | 85.00              | 85.00              |
| 620-801     | - Sales Tax                            |                   | 1.88               | 2.43               |
| 620-950     | - Other                                |                   | 3548.00            | 3552.00            |
| 641-400     | Distributable Accounts Auto - Supplies |                   | 1255.99            | 1821.57            |
| 641-801     | - Sales Tax                            |                   | 3.36               | 6.65               |
|             |  | <u>\$ 7319.37</u> | <u>\$122348.89</u> | <u>\$176697.65</u> |

Authorized  
Expended

\$ 146 000.00  
176 697.65

Balance Unexpended

\$ <30 697.65 >

521-550 Surface Drilling - Freight  
521-400 - Supplies

21.00  
2966.00

21.00  
2966.00



SOUTHWESTERN EXPLORATION DIVISION

26th Nov thru  
25th DEC, 1979

MONTHLY COST SUMMARY

SUPERIOR EAST

Project, PINAL, AZ.  
(County) (State)

A. DIRECT DRILLING (Acct. 521-)

CONTRACTORS' CHARGES

Invoiced during month covering current month's work

| <u>Contractors' Services</u> | <u>Statement Amt.</u> |          |
|------------------------------|-----------------------|----------|
| _____                        | _____                 |          |
| _____                        | _____                 |          |
| _____                        | _____                 |          |
| _____                        | _____                 | <u>X</u> |

Estimated balance of contractors' charges covering work through end of current month

| <u>Contractors' Services</u>                                 | <u>Estimated Cost</u> |                    |
|--|-----------------------|--------------------|
| <u>JOY MFG. Co. (MONTHLY RENTAL OF CASING IN HOLE A-11.)</u> | <u>\$ 1,945.40</u>    |                    |
| _____  | _____                 |                    |
| _____  | _____                 | <u>\$ 1,945.40</u> |

Supplies and Freight

|       |       |          |
|-------|-------|----------|
| _____ | _____ | <u>X</u> |
|-------|-------|----------|

Field Trailer Rental

|       |       |          |
|-------|-------|----------|
| _____ | _____ | <u>X</u> |
|-------|-------|----------|

Water Purchases (Drilling)

|       |       |          |
|-------|-------|----------|
| _____ | _____ | <u>X</u> |
|-------|-------|----------|

B. SITE PREPARATION (Acct. 580-)

CONTRACTORS' CHARGES

Invoiced during month covering current month's work

| <u>Contractors' Services</u> | <u>Statement Amt.</u> |          |
|------------------------------|-----------------------|----------|
| _____                        | _____                 |          |
| _____                        | _____                 | <u>X</u> |

Estimated balance of contractors' charges covering work through end of current month

| <u>Contractors' Services</u>  | <u>Estimated Cost</u> |                    |
|---|-----------------------|--------------------|
| <u>BRYANT CONSTRUCTION Co. (RENOVATION OF ACCESS RD. &amp; DRILL SITE FOR A-12)</u> | <u>\$ 7,000.00</u>    |                    |
| _____   | _____                 | <u>\$ 7,000.00</u> |

Supplies and Freight

|       |       |          |
|-------|-------|----------|
| _____ | _____ | <u>X</u> |
|-------|-------|----------|

C. SAMPLERS, SAMPLING, SAMPLE PREPARATION, ASSAYING (Acct. 540-)

Wages (Temporary Help)

| <u>Name</u> | <u>No. of Straight Time Hours During Month</u> | <u>No. of Overtime Hours During Month</u> |
|-------------|--|---|
| _____       | _____  | _____                                     |
| _____       | _____  | _____                                     |

\_\_\_\_\_ X

Assaying

| <u>Assayer</u> | <u>Charge or Estimated Expense for Assaying Performed During Month</u> |
|----------------|--|
| _____          | _____  |
| _____          | _____  |

\_\_\_\_\_ X

D. CLAIM STAKING, VALIDATION (Acct. 507-)

Invoiced during month covering current month's work

| <u>Contractors' Services</u> | <u>Statement Amt.</u> |
|------------------------------|-----------------------|
| _____                        | _____                 |
| _____                        | _____                 |

\_\_\_\_\_ X

Estimated balance of contractors' charges covering work through end of current month

| <u>Contractors' Services</u> | <u>Estimated Cost</u> |
|------------------------------|-----------------------|
| _____                        | _____                 |
| _____                        | _____                 |

\_\_\_\_\_ X

Wages

| <u>Name</u> | <u>No. of Straight Time Hours During Month</u> | <u>No. of Overtime Hours During Month</u> |
|-------------|--|---|
| _____       | _____  | _____                                     |
| _____       | _____  | _____                                     |

\_\_\_\_\_ X

E. OTHER (Itemize any other major expenses not covered above or by invoice.)

| <u>Item</u> | <u>Cost</u> |
|-------------|-------------|
| _____       | _____       |
| _____       | _____       |
| _____       | _____       |
| _____       | _____       |

\_\_\_\_\_ X

TOTAL = \$ 8,945.40

SAY \$ 9,000.00

CC : CDN  
JDS

APW  
12-27-79

P. Bryant, Construction

ROAD COSTS, General Access

DOZER - ROAD REPAIR - FROM HWY 60-70 TO A-11

DRILL SITE 22 HRS @ \$80.00 HR ----- \$1,760.00

LABOR ---- 24 HRS @ \$15.00 HR. BARRING DOWN. \$ 360.00

12 YD. DUMP TRUCK @ \$40.00 HR. 16 HRS \$ 640.00

INSTALL WATER BARS - DOZER @ \$80.00 HR. 6 HRS \$480.00

MOBOLIZATION \$ 250.00

\$ 3,490.00

4% STATE TAX 90.74

\$ 3,580.74

DRILL SITE COSTS - A-12

DRILLING & BLASTING EQUIPMENT & 3 MEN @ \$650.00 DAY

24 HRS - 3 SHIFTS \$ 1,950.00

DOZER @ \$80.00 HR - 5 HRS 400.00

DRILLING & BLASTING SUPPLIES 350.00

2,700.00

4% STATE TAX 61.10

\$ 2,761.10

Estimated total 12/24/79

\$ 6,341.84

P. Bryant, Construction

ROAD COSTS, General Access

DOZER - ROAD REPAIR - FROM HWY 60-70 TO A-11

DRILL SITE 22 HRS @ \$80.00 HR ----- \$1,760.00

LABOR ---- 24 HRS @ \$15.00 HR. BARRING DOWN. \$ 360.00

12 YD. DUMP TRUCK @ \$40.00 HR. 16 HRS \$ 640.00

INSTALL WATER BARS - DOZER @ \$80.00 HR. 6 HRS \$480.00

MOBOLIZATION \$ 250.00

\$ 3,490.00

4% STATE TAX 90.74

\$ 3,580.74

DRILL SITE COSTS - A-12

DRILLING & BLASTING EQUIPMENT & 3 MEN @ \$650.00 DAY

24 HRS - 3 SHIFTS \$1,950.00

DOZER @ \$80.00 HR - 5 HRS 400.00

DRILLING & BLASTING SUPPLIES 350.00

2,700.00

4% STATE TAX 61.10

\$ 2,761.10

Estimated total 12/24/79

\$ 6,341.84

EXPLORATION AUTHORIZATION NO. 0010-15  
 SUPERIOR EAST PROJECT  
 PINAL COUNTY, ARIZONA

TUCSON OFFICE

DECEMBER - 1979

| Account No. | Item                                   | This Month        | This Year           | Total To Date       |
|-------------|--|-------------------|---------------------|---------------------|
| 521-100     | Surface Drilling - Salaries            | \$ 94.00          | \$ 1,138.00         | \$ 1,717.00         |
| 521-200     | - Add. Labor                           | 15.39             | 215.40              | 303.05              |
| 521-350     | - Equip. Rental                        | -                 | 988.60              | 988.60              |
| 521-550     | - Freight                              | -                 | 21.00               | 21.00               |
| 521-400     | - Supplies                             | -                 | 2,966.00            | 2,966.00            |
| 521-600     | - Traveling                            | -                 | 12.90               | 24.90               |
| 521-750     | - Services                             | 8,945.40          | 107,455.61          | 156,180.86          |
| 521-780     | - Fuel, Power, Water                   | -                 | -                   | 69.44               |
| 521-801     | - Sales Tax                            | -                 | 56.60               | 56.60               |
| 530-100     | Geology - Salaries                     | 561.00            | 6,072.00            | 7,378.00            |
| 530-200     | - Add. Labor                           | 93.64             | 1,296.40            | 1,497.59            |
| 530-400     | - Supplies                             | -                 | 3.98                | 3.98                |
| 530-600     | - Traveling                            | -                 | 241.52              | 363.97              |
| 530-801     | - Sales Tax                            | -                 | .09                 | .09                 |
| 540-100     | Sampling, Assaying, Lab. - Salaries    | -                 | 1,204.00            | 1,407.00            |
| 540-150     | - Wages                                | -                 | -                   | 217.32              |
| 540-200     | - Add. Labor                           | -                 | 300.24              | 349.91              |
| 540-750     | - Services                             | -                 | 421.88              | 426.88              |
| 580-750     | Temporary Construction - Services      | -                 | 546.99              | 1,826.48            |
| 580-801     | - Sales Tax                            | -                 | 2.82                | 2.82                |
| 600-500     | Field Administration - Communications  | 16.16             | 210.14              | 292.71              |
| 610-600     | - Traveling                            | 6.30              | 306.72              | 306.72              |
| 610-780     | - Fuel, Power, Water                   | 13.45             | 215.40              | 252.30              |
| 610-790     | - Rent                                 | -                 | 1,500.00            | 1,500.00            |
| 620-100     | General Administration - Salaries      | 116.00            | 1,745.00            | 2,402.00            |
| 620-200     | - Add. Labor                           | 19.24             | 382.40              | 514.52              |
| 620-400     | - Supplies                             | 2.50              | 34.05               | 43.34               |
| 620-750     | - Services                             | -                 | 85.00               | 85.00               |
| 620-801     | - Sales Tax                            | .15               | 2.03                | 2.58                |
| 620-950     | - Other                                | -                 | 3,548.00            | 3,552.00            |
| 641-400     | Distributable Accounts Auto - Supplies | 100.19            | 1,356.18            | 1,921.76            |
| 641-801     | - Sales Tax                            | -                 | 3.36                | 6.65                |
|             |  | <u>\$9,983.42</u> | <u>\$132,332.31</u> | <u>\$186,681.07</u> |

Authorized  
 Expended

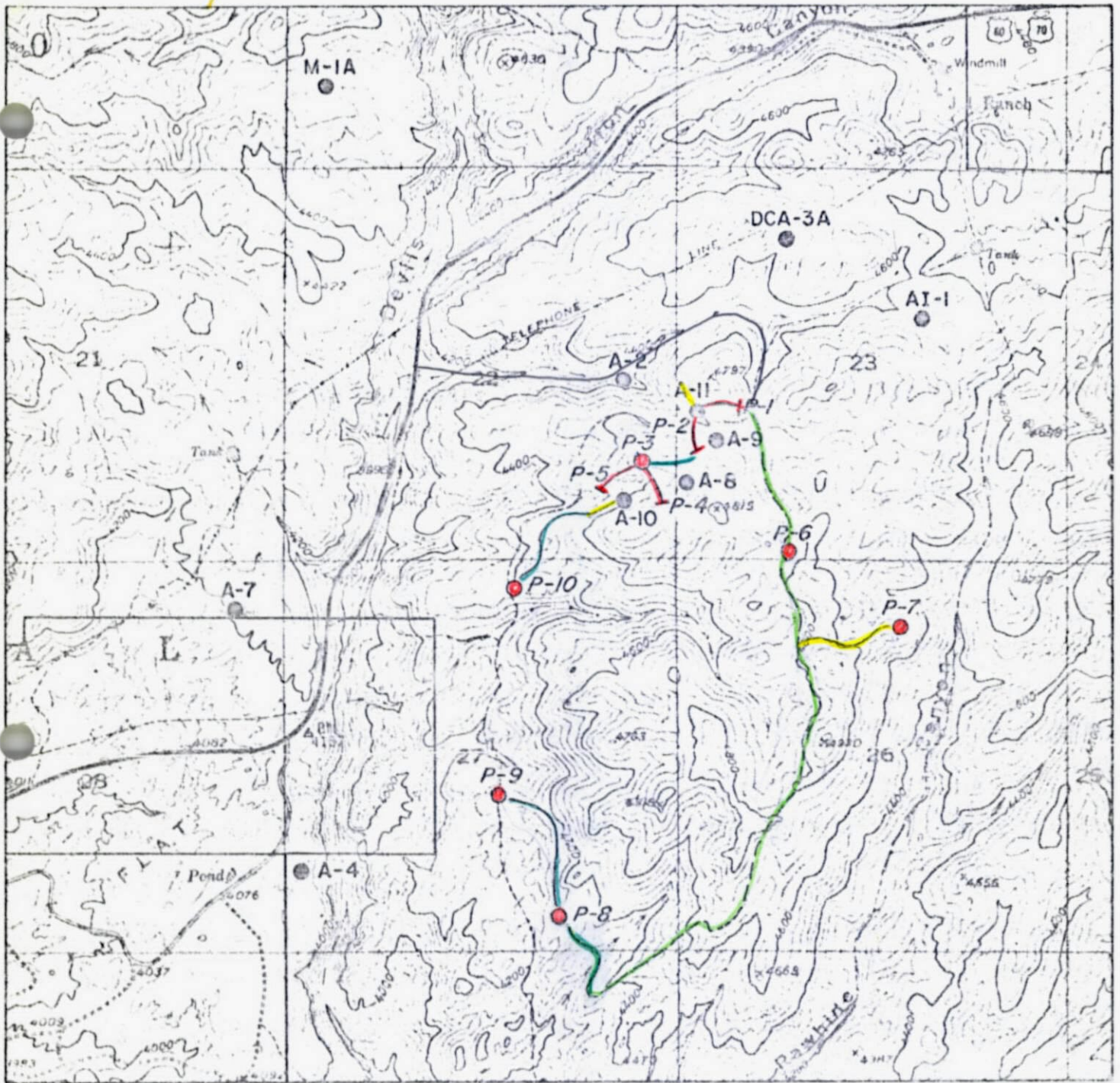
\$146,000.00  
186,681.07

Balance Unexpended

\$ (40,681.07)








Orig: TCOsborne  
 cc: FRM, NV, CWC, TES, FTG, File - 2

*End All billing  
 except part of Jan 1980 - See*



Base from Superior Ar., U.S.G.S. 75' Quad.

EXPLANATION

-  ASARCO
-  Mogma
-  Oak Flat
-  A-2  
Completed Holes
-  P-3  
Proposed Vertical Holes
-  P-4  
Proposed Inclined Holes
-  Road To Be Improved
-  Road To Be Built *has permit*

|              |                      |
|--------------|----------------------|
| TO ACCOMPANY | <i>Memo</i>          |
| DATED        | <i>Aug. 6, 1979</i>  |
| BY           | <i>F.T. Graybeal</i> |

*Proposed Future Drilling*  
**SUPERIOR EAST PROJECT**  
 PINAL COUNTY, ARIZONA  
 SCALE: 1"=2000'

F.T. Graybeal Aug. 1979