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James Doyle Sell Mining Collection

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Phone Call.

11-10-89

MAM - Olsen

15K for Gold Rock #1 & #2

+ Mill Site.

cc: WLK

SLL

Typed 11/15/89

WLKurtz
JDSell

11-10-89

Drill Indicated Reserve
Yarnell Project
Yavapai County, Arizona

Summary and Conclusion:

The following tonnage and grade of material remaining at the Yarnell Project, based on parameters discussed below, have been calculated.

1. The Main "B" zone mineralization of 4.111 million tons of 0.051 opt gold, with 209,661 contained ounces of gold.
2. The Total Waste, above the Main "B" zone, of 12.671 million tons of material.
3. A ratio of 3.08 waste/ore for the above.
4. Above the Main "B" zone is a lower grade zone designated as the Upper "A" zone. This "A" zone mineralization of 2.738 million tons of 0.017 opt gold, contains 46,546 ounces of gold. The "A" zone is within the Total Waste tonnage area.
5. Combining both the "A" and "B" zones, a total of 6.849 million tons of 0.038 opt gold, containing 256,207 ounces of gold, is within the indicated reserve.
6. With the "A" zone removed from the Total Waste, a reduced waste value of 9.933 million tons is indicated.

Drill ind Res
Addrs/Comments

3a. The Main "B" zone assay cut-off was based on the best interval of assays in the vicinity of the Yarnell Fault structure. Within this zone, some assay intervals were as low as 0.00x opt. gold, but unless the thickness and grade was sufficient to be included within the proposed pit outline, ~~the~~ combined main "B" zone interval was not included in the drill indicated reserve. Table 4 tabulates the main "B" zone ~~grade-tons~~ and only one grade block (Transit No. 104) ~~interval~~ averaged less than 0.034 opt gold.

avr 0.0

Ym-1	B	.023	A 0.00x
2		.005	

3b. The Upper "A" zone assays ~~were often in the 0.00x opt gold range, and the~~ cut-off for this zone was based on the best interval of assays which would average in excess of 0.010 opt gold. Some assays within this zone were in the 0.00x opt gold range. Table 3 tabulates the blocks included in the drill indicated reserve and the range of interval values.

7. The revised ratio of 1.45 waste/ore ~~is~~ results from combining zones "A" and "B".
8. The average thickness of the Main "B" zone mineralization is 62.1 feet as measured vertically in the drill hole intercepts. This figure is 53.8 feet (Vertical feet times 0.866) measured perpendicular to the thirty degree dip of the Yarnell Fault structure.

James A Sell

Attachment
cc: RL Brown (2 copies)
MA Miller
SL Lahosky

W L Kurtz
J D Sell

11-10-89

Calculations
Drill Indicated Reserve
Yarnell Project
Yavapai County, AZ

I submit my report on the calculation methods and parameters used for the drill indicated reserve at Yarnell, Arizona.

The Main mineralization dips subparallel to the Yarnell Fault, which is thirty degrees northwest. Graphic solution indicates that in this case a plan area multiplied by the vertical drill hole intercept contains the same approximate tonnage as would the inclined plan area multiplied by the thickness measured perpendicular to the inclined plane. As a result, the values in the vertical drill holes can be used in the calculations with no further adjustments due to attitude of the mineral zone.

Figure 1 is the drill progress map with the ninety-six drill holes used in this study. A total of 24,325 feet has been rotary drilled (reverse air) and 4 diamond drill holes totaling 1,295 feet has been drilled. Also shown is the footwall outcrop of the base of the Main "B" zone mineralization which is also the east and south edges of the study pit. The fifty degree back-slope of the study pit is shown as the crest and toe lines on the north and northwest

sides of the study pit.

The main structural feature within the area is the Yarnell Fault which strikes N 40° E and dips ~~35~~ thirty degrees ~~NW~~ northwestly. The fault is near the ~~[illegible]~~ footwall line shown on Figure 1.

A packet of silicification, quartz veining, and clay, quartz-sericite alteration of the granite host trends subparallel to the Yarnell fault. This packet is the main "B" zone and averages 54 feet thick measured ~~subparallel to the Yarnell~~ subperpendicular to the Yarnell Fault. Also within the zone the drill hole averages in excess of 0.035 opt gold values.

Thus the Main "B" zone mineralization tabulated for this pit study is within the pit design as shown in Figure 1.

In the up-dip and central part of the study pit, previous mining has extracted a portion of the high-grade vein within the Yarnell Fault of the Main "B" zone. The memo of 10-31-89 indicates that 250,000 tons had been mined by underground and open-cut methods within the study pit outline. A grade of 0.051 opt gold was assigned to this material for calculating purposes, but it is believed that the historic grade was quarter ounce or better when it was mined.

The triangle method was used to calculate the tonnage and grade within the drill indicated

mineralization within the study pit.

Three type of material are within the pit outline — 1) the Main "B" zone mineralization, 2) the Upper "A" zone mineralization, & 3) the Total Waste material. The Upper "A" zone material may be profitable to segregate and is included within the Total Waste calculation. The Total Waste material is all the material above the Main "B" zone mineralization.

For calculations of the drill indicated reserve, the following tabulation were created. These tabulations are only attached to the File Copy. Pertinent portions are abstracted and included as Tables within the distributed report copies.

A. All drill holes were connected ~~by~~ to form triangles by connecting the three adjacent drill holes. An attempt was made to create equilateral triangles and/or to elongate them in the strike of the deposit. Modified (M) outlines were created at the edges of the pit either ~~adjacent to outcrop~~ adjacent to outcrop or along the back-slope wall after the first run had been made and the down-dip pit parameters reestablished.

Attachment A is a plan map showing the triangles used in the study pit

calculations.

B. The triangle plan areas, measured in square feet, was tabulated. (Tabulation A-File).

C. Table 1 (attached) was tabulated showing the drill hole, and the footage and assay for the intervals of the "A" and "B" mineralized zones, with Total Waste being the number from the surface to the top of the "B" zone.

D. From Table 1, each triangle was tabulated for height of block, by each unit — the Tw* (Total waste above "B" zone), the "A" zone, and the "B" zone, by averaging the respective intervals within the three drill holes, or outcrop, involved. (Tabulation B-File).

E. Each drill hole was tabulated showing the "A" and "B" zone thickness and grade and the resultant FT-OZ (Feet-ounces) per ton. (Tabulation C-File).

F. From the above data, the grade of each ~~triangle~~ zone was calculated to represent the triangle unit grade with a check on the thickness of each triangle zone (Tabulation D-File).

G. Using a 12.0 cubic feet per ton factor, a tabulation of tonnage and grade was calculated for each triangle for the "A" zone, the "B" zone, and the total waste above the "B" zone, within the study

pit parameters. A back-slope of fifty degrees was used to calculate the Total Waste outside the mineralized blocks.

Table 2 - Total Waste (Tabulation E-File).

Table 3 - Upper "A" zone, within the total waste (Tabulation F-File).

Table 4 - Main "B" zone (Tabulation G-File).

Each table tabulates the triangle number, the cubic feet ~~from~~ volume, the thickness of the unit, the resultant tons, using a 12.0 cubic feet per ton factor, and the grade of the interval within each triangle.

Should other cubic feet per ton factors need to be tabulated, the Tables 2, 3, & 4, can be used.

The totals within the Tables was calculated by summing the weighted multiples of Resultant tonnage and tonnage times grade and dividing by total tonnage to supply the average thickness of each unit and the average grade of each unit.

H. A previous memo, 10-31-89, details the consensus of the amount of ore previously removed from the main "B" zone mineralization by underground and open-pit methods within the proposed pit area. Using only the drill holes and surface samples from

within the area, a tonnage of 250,000 tons of 0.051 opt gold was calculated.

I. To restate from Tables 2, 3, and 4:

Total Waste – 12,471,085 tons above "B" zone.

Total "A" zone – 2,735,247 tons of 0.017 opt gold (The "A" zone mineralization is within the Total Waste tonnage).

Total "B" zone – 4,111,005 tons of 0.051 opt gold (after subtracting the previously mined tonnage).

J. Figure 2 is a bar-graph which plots "B" zone grades of ore with the tons of ore within that grade range. The same data is tabulated in Table 5 (attached).

At first glance, it is noted that the bulk of the mineralization tonnage is below a grade of 0.050 opt gold, and thus the grade might also be in ~~that~~ a lower range. However, the weighted totals of gold values indicates an 0.051 opt gold value.

Should it be decide to cut the high values above 0.080 opt gold, in Table 5, to a value of 0.050 opt gold, the result will be that the weighted average of the total tonnage only drops 0.001 opt, to a value of 0.050 opt gold.

K. Of some interest in viewing Figure 2 is the apparent "decreasing" slope spikes, such as noted between 0.036 – 0.040 and 0.054 – 0.061 opt gold, and of course the

big spike at 0.048-0.049 opt gold.

With the apparent multiple stages of flooding silica and silica veining, the several grade spikes may be indicative of the stages of quartz deposition and the contained gold values with these stages.

James D Sell

Attachments

cc: RL Brown (2 copies)
MA Miller
SL Sabosky

JDS/R TAB

TABLE 1 — ZONE INTERVAL TABULATION

Drill Hole	Zone *	From	To	Footage	Grade (opt Au).
YM-1	A	5	55	50'	0.025
YM-1	B	55	125	70'	0.053, incl. 20' stope
YM-2	A	45	140	95'	0.017
YM-2	B	140	245	105'	0.049, incl. 40' stope
YM-3	A	20	125	105'	0.011
YM-3	B	125	200	75'	0.060
YM-4	A	15	230	175'	0.013, 40' gap
YM-4	B	285	310	25'	0.037
YM-5	A	150	200	50'	0.005
YM-5	B	200	355	155	0.041, incl. 35' stope
YM-6	B	125	180	55'	0.042
YM-7	B	155	230	75'	0.047, incl. 5' stope
YM-8	A	30	225	195'	0.022
YM-8	B	225	275	50'	0.041
YM-9	B	275	315	40'	0.035

TABLE 1 — ZONE INTERVAL TABULATION

Drill Hole	Zone *	From	To	Footage	Grade (opt Au).
Ym-10	A	130	190	60'	0.021
Ym-10	B	190	225	35'	0.029
Ym-11	B	175	240	65'	0.049
Ym-12	A	40	150	110'	0.013
Ym-12	B	150	240	90'	0.039, incl. 15' stope
Ym-13	B	180	210	30'	0.022
Ym-14	B	15	90	75'	0.040
Ym-15	A	25	140	115'	0.015.
Ym-15	B	140	295	155'	0.034
Ym-16	A	0	40	40'	0.017
Ym-16	B	40	80	40'	0.039, incl. 5' stope
Ym-17	A	210	285	75'	0.015
Ym-17	B	285	325	40'	0.047
Ym-18	A	0	100	100'	0.022
Ym-18	B	100	140	40'	0.078

TABLE 1 — ZONE INTERVAL TABULATION

Drill Hole	Zone *	From	To	Footage	Grade (opt Au).
YM-19	A	10	85	75'	0.015
YM-19	B	205	235	30'	0.058
YM-20	B	0	35	35'	0.070
YM-21	A	25	55	30'	0.019
YM-21	B	80	90	10'	0.033
YM-22	A	215	225	10'	0.036
YM-22	B	270	285	15'	0.025
YM-23	B	40	125	85'	0.047
YM-24	B	65	115	50'	0.093, incl. 10' stope
YM-25	B	55	90	35'	0.070
YM-26	B	200	290	90'	0.054
YM-27	A	35	265	90'	0.015, 140' gap.
YM-27	B	300	315	15'	0.033

TABLE 1 — ZONE INTERVAL TABULATION

Drill Hole	Zone *	From	To	Footage	Grade (opt Au).
YM-28	A	95	225	130'	0.022
YM-28	B	225	245	20'	0.042
YM-29	B	220	230	10'	0.033
YM-30	A	170	200	30'	0.012
YM-30	B	215	250	35'	0.032
YM-31	A	115	135	20'	0.017
YM-31	B	365	385	20'	0.055
YM-32	A	0	190	155'	0.012, 35' gap
YM-32	B	190	200	10'	0.027.
YM-33	A	15	55	40'	0.015
YM-33	B	275	365	90'	0.051
YM-34	A	110	130	20'	0.013
YM-34	B	not	reached	- assume	from other holes
YM-34	B	240	250	10'	0.025
YM-35	B	15	40	25'	0.010

TABLE 1 — ZONE INTERVAL TABULATION

Drill Hole	Zone *	From	To	Footage	Grade (opt Au).
YM-36	A	35	55	20'	0.023
YM-36	B	130	140	10'	0.048
YM-37	B	120	180	60'	0.036
YM-38	B	185	220	35'	0.028
	Note: if no fault in area, then above may be "A" Zone				
YM-39	A	0	325	75'	0.024, 250' gap
YM-39	B	325	360	35'	0.048, and more.
YM-40	A	20	80	60'	0.014
YM-40	B	275	380	105'	0.062.
YM-41	B	295	335	40'	0.046
YM-42	B	330	340	10'	0.056
YM-43	B	65	85	20'	0.063
YM-44	A	115	235	120'	0.024
YM-44	B	235	265	30'	0.143

TABLE 1 — ZONE INTERVAL TABULATION

Drill Hole	Zone *	From	To	Footage	Grade (opt Au).
Ym-45	B	60	75	15'	0.084
Ym-46	B	200	260	60'	0.012
Ym-47	A	120	170	50'	0.014
Ym-47	B	170	205	35'	0.031
Ym-48	B	45	85	40'	0.049
Ym-49	B	140	160	20'	0.049
Ym-50	B	0	85	85'	0.059
Ym-51	B	165	170	5'	0.061
Ym-52	B	50	75	25'	0.049
Ym-53	B	65	140	75'	0.036
Ym-54	A	55	125	70'	0.015
Ym-54	B	180	270	90'	0.054

TABLE 1 — ZONE INTERVAL TABULATION

Drill Hole	Zone *	From	To	Footage	Grade (opt Au).
YM-55	A	0	70	70'	0.011
YM-55	B	70	165	95'	0.050, incl. 15' stope.
YM-56	A	0	45	45'	0.012
YM-56	B	70	105	35'	0.082
YM-57	A	0	15	15'	0.011
YM-57	B	15	60	45'	0.035, incl 13' stope
YM-58	B	0	20	20'	0.034
YM-59	B	50	100	50'	0.032
YM-60	dn	FW	—	—	—
YM-61	B	80	200	120'	0.037, incl. 15' stope
YM-62	A	115	190	75'	0.015
YM-62	B	190	295	105'	0.040, incl. 40' stope
YM-63	A	10	140	130'	0.011
YM-63	B	140	240	100'	0.081, end in ore

TABLE 1 — ZONE INTERVAL TABULATION

Drill Hole	Zone *	From	To	Footage	Grade (opt Au).
YM-64	A-	50	110	60'	0.025
YM-64	B	110	145	35'	0.053
YM-65	B	0	50	50'	0.049
YM-66	dn	FW	—	—	—
YM-67	B	0	50	50'	0.048
YM-68	dn	FW	—	—	—
YM-69	A	185	250	65'	0.011
YM-69	B	250	280	30'	0.069.
YM-70	A	60	95	35'	0.011
YM-70	B	95	135	40'	0.031
YM-71	B	45	110	65'	0.131
YM-72	B	0	35	35'	0.084
YM-73	B	0	20	20'	0.190

TABLE 1 — ZONE INTERVAL TABULATION

Drill Hole	Zone *	From	To	Footage	Grade (opt Au).
YM-74	In FW	—	—	—	—
YM-75	A	65	105	40'	0.023
YM-75	B	105	170	65'	0.066
YM-76	A	0	75	75'	0.012
YM-76	B	75	115	40'	0.034, incl. 15' stope
YM-77	A	70	107	37'	0.022
YM-77	B	107	180	73'	0.048, incl. 13' stope
YM-78	A	130	215	85'	0.011
YM-78	B	215	270	55'	0.070
YM-79	A	10	120	110'	0.019
YM-79	B	120	170	50'	0.046
YM-80	A	140	230	90'	0.023
YM-80	B	230	280	50'	0.040
YM-81	A	5	55	50'	0.015
YM-81	B	55	90	35'	0.066

TABLE 1 — ZONE INTERVAL TABULATION

Drill Hole	Zone *	From	To	Footage	Grade (opt Au).
YM-90	A.	10	120	110'	0.012
YM-90	B	120	215	95'	0.062
YM-90	Subzone	215	235	20'	0.019
YM-91	A	10	95	85'	0.010
YM-91	B	Hole lost in stope — assume from other holes.			
YM-91	B	95	180	85'	0.051
YM-92	B	35	55	20'	0.072
YM-93	B	5	25	20'	0.064
YM-94	B	105	155	50'	0.086, incl. 30' stope
YM-95	B	385	395	10'	0.015
YM-96	B	570	575	5'	0.061

*Zone A — Upper low-grade zone

*Zone B — Main Yarnell Fault Zone & envelope.

TABLE 1 — ZONE INTERVAL TABULATION

Drill Hole	Zone *	From	To	Footage	Grade (opt Au).
YM-82	A.	0	35	35'	0.015
YM-82	B	35	95	60'	0.049
YM-83	A	0	140	140'	0.014
YM-83	B	140	240	100'	0.044, incl 20' slope
YM-84	A	10	105	95'	0.017
YM-84	B	105	140	35'	0.062
YM-85	In FW		—	—	—
YM-86	B ?	50	70	20'	0.013
YM-87	A	245	285	40'	0.010
YM-87	B	285	305	20'	0.050
YM-88	A	180	240	60'	0.020
YM-88	B	240	295	55'	0.064
YM-89	A	40	180	140'	0.010
YM-89	B	180	270	90'	0.051
YM-89	Subzone	270	340	70'	0.016

JDSYRTWZ

Table 2. Total Waste Zone above "B" Zone

Using 12.0 ft³/ton factor

Triangle No.	Volume ft³	Thickness ft	Tons
1	237,375	63.3	19,781
2	414,500	70.0	34,708
3	1,572,075	123.3	131,006
4	78,204	13.3	6,517
5	182,250	30.3	15,188
6	28,500	5.0	2,375
7	126,784	28.3	10,565
8	138,579	36.7	11,548
9	245,700	60.0	20,475
10	279,630	71.7	23,303
11	298,350	65.0	24,863
12	435,272	98.3	36,273
13	413,595	105.0	34,466
14	495,720	90.0	41,310
15	533,449	76.7	44,454
16	1,811,413	148.3	150,951
17	3,115,350	210.0	259,613
18	106,880	16.7	8,907
19	101,500	35.0	8,458
20	238,637	46.7	19,886
21	301,065	81.7	25,089
22	297,554	86.7	24,796
23	306,363	113.3	25,530

Table 2. Total Waste Zone above "B" Zone

Using 12.0 ft^3/ton factor

Triangle No.	Volume ft^3	Thickness ft	Tons
24	324,480	120.0	27,040
25	436,108	116.7	36,342
26	580,210	170.0	48,351
27	471,510	156.7	39,293
28	531,570	183.3	44,298
29	631,800	120.0	52,650
30	1,361,394	148.3	113,450
31	917,150	170.0	76,429
32	965,978	218.3	80,498
33	759,513	231.7	63,293
34	1,710,000	250.0	142,500
35	2,463,300	230.0	205,275
36	165,186	48.3	13,766
37	266,370	68.3	22,198
38	261,450	90.0	21,788
39	417,431	121.7	34,786
40	555,026	128.3	46,252
41	736,490	156.7	61,374
42	821,100	170.0	68,425
43	897,560	190.0	74,797
44	1,319,115	221.7	109,926
45	1,421,013	253.3	118,418
46	2,156,450	295.0	179,704
47	2,564,960	291.7	213,913

Table 2. Total Waste Zone above "B" Zone

Using 12.0 ft³/ton factor

Triangle No.	Volume ft³	Thickness ft	Tons
48	2,621,500	281.7	218,458
49	179,400	60.0	14,950
50	325,125	86.7	45,000
51	523,600	110.0	43,633
52	693,600	120.0	57,800
53	368,863	128.3	30,739
54	417,450	150.0	34,788
55	282,004	113.3	23,500
56	332,100	135.0	27,675
57	539,400	155.0	44,950
58	710,600	190.0	59,217
59	1,131,683	206.7	94,307
60	1,451,247	238.3	120,937
61	1,400,175	266.7	116,681
62	2,009,250	285.0	167,438
63	127,400	20.0	10,617
64	236,156	56.7	19,680
65	131,600	40.0	10,967
66	422,089	93.3	35,174
67	442,394	92.3	36,866
68	158,440	75.7	13,203
69	344,440	109.0	28,703
70	417,690	119.0	34,808

✓4

Table 2 - Total Waste Zone above "B" Zone

Using 12.0 ft³/ton factor

Triangle No.	Volume ft³	Thickness ft	Tons
71	456,840	143.3	38,070
72	880,757	183.3	73,396
73	754,711	211.7	62,893
74	799,875	213.3	66,656
75	1,331,438	236.7	110,953
76	1,848,868	288.3	154,072
77	1,631,016	251.7	135,918
78	1,236,000	240.0	103,000
79A	68,351	18.3	5,696
79B	None	—	—
80A	166,430	55.0	13,869
80B	91,603	34.7	7,634
81	85,973	18.3	7,164
82	330,299	79.0	27,525
83	518,925	75.0	43,244
84	296,000	40.0	24,667
86	580,200	96.7	48,350
87	498,133	89.0	41,511
88	1,181,599	127.3	98,467
90	530,796	110.7	41,983
91	1,298,911	171.7	108,243
92	804,825	153.3	67,069
93	724,250	175.0	60,521
94	896,160	186.7	74,680
95	580,200	96.7	48,350

Table 2. Total Waste Zone above "B" Zone
Using 12.0 ft.³/ton factor

Triangle No.	Volume ft³	Thickness ft	Tons
96	812,236	138.3	67,686
97	1,051,250	145.0	87,604
98	1,694,700	188.3	141,225
99	3,251,311	236.7	270,943
100	1,513,103	221.7	126,092
101	215,129	23.3	17,927
102	312,000	40.0	26,000
103	439,800	73.3	36,650
104	175,760	65.0	14,647
105	536,130	105.0	44,678
106	812,820	155.0	67,735
107	1,065,750	210.0	88,813
108 M.	2,093,000	260.0	174,417
109	153,720	18.3	12,810
110	267,947	38.3	22,329
111	205,508	51.7	17,126
112	837,181	93.3	69,765
113	1,044,362	128.3	87,030
114	724,500	172.5	60,037
118	653,994	36.7	54,500
119	1,416,100	83.3	118,008
120	1,581,216	126.7	131,768
121	1,478,509	171.7	123,209
122 Mo	637,000	140.0	53,083

Table 2. Total Waste Zone above "B" Zone

Using 12.0 ft^3/ton factor

Triangle No.	Volume ft^3	Thickness ft	Tons
124	330,000	15.0	27,500
127 M.	1,205,559	93.0	100,463
128	837,000	75.0	69,750
129 M.	675,000	135.0	56,250
135 M.	424,360	220.0	35,530
137	3,388,550	275.0	282,379
138	3,220,368	291.7	268,364
145 M.	518,700	285.0	43,225
146 M.	862,750	290.0	71,896
147 M.	769,500	285.0	64,125
148	1,354,850	245.0	112,904
149	57,015	35.0	4,751
150	221,242	16.7	18,437
151 M.	23,000	5.0	1,917
152 M.	15,313	2.5	1,276
153 M.	None	—	—
154 M.	None	—	—
156 M.	None		
162 M.	1,361,419	63.0	113,468
163 M.	362,700	65.0	30,225
165 M.	135,000	30.0	11,250
166 M.	101,500	5.0	8,458

Table 2. Total Waste Zone above "B" Zone

Using 12.0 ft^3/ton factor

Triangle No.	Volume ft^3	Thickness ft	Tons
167M.	82,500	5.0	6,875
168M.	None	—	—
169M.	1,449,000	23.0	120,750
170M.	None	—	—

Back-slope, 50°, from bottom of black floor

Zone Section in ft^2 x length, ft = ft^3

From NE end, East of Line 3

	198,000	30.0	16,500
Line 3-4	1,073,250	90.0	89,438
Line 4-5	2,050,500	100.0	170,875
Line 5-6	2,774,800	100.0	231,392
Line 6-7	3,516,625	125.0	293,052
Line 7-8	5,004,500	100.0	417,042
Line 8-9	5,382,450	90.0	448,538
Line 9-10	4,951,560	120.0	412,630
Line 10-11	2,971,430	110.0	247,619
Line 11-12	3,765,160	245.0	313,763
Line 12-13	3,586,275	135.0	298,856
Line 13-14	2,430,635	145.0	202,553
Line 14-15	3,551,213	205.0	295,935
Line 15-16	2,882,000	200.0	240,167
	Total Waste Tons		12,671,085

Table 3 - Upper "A" Zone

JDS/RAZ

Using 12.0 ft³/ton factor

Triangle No.	Volume ft³	Thickness ft	Tons	Grade oz/ton
1	None	—	—	—
2	198,135	33.3	14,511	0.022
3	743,325	58.3	61,944	0.019
4	78,204	13.3	6,517	0.017
5	80,798	13.3	6,733	0.017
6	28,500	5.0	2,375	0.011
7	89,400	20.0	7,447	0.012
8	106,861	28.3	8,905	0.014
9	115,889	28.3	9,657	0.014
10	175,500	45.0	14,625	0.017
11	206,550	45.0	17,213	0.017
12	280,292	63.3	23,358	0.017
13	249,339	63.3	20,778	0.017
14	174,604	31.7	14,550	0.017
15	231,602	33.3	19,300	0.022
16	627,483	58.3	52,290	0.019
17	1,335,150	90.0	111,263	0.020
18	106,880	16.7	8,907	0.014
19	96,570	33.3	8,048	0.020
20	187,537	36.7	15,628	0.018
21	251,686	68.3	20,974	0.019
22	177,434	51.7	14,786	0.017
23	198,203	73.3	16,517	0.016

Table 3. Upper "A" Zone

Using 12.0 ft^3/ton factor

Triangle No.	Volume ft^3	Thickness ft	Tons	Grade oz/ton
24	225,243	83.3	18,770	0.014
25	292,607	78.3	24,384	0.015
26	369,628	108.3	30,802	0.017
27	321,060	106.7	26,755	0.014
28	290,000	100.0	24,167	0.017
29	368,550	70.0	30,713	0.016
30	948,294	103.3	79,025	0.019
31	539,500	100.0	44,958	0.018
32	560,648	124.7	46,721	0.016
33	366,153	111.7	30,513	0.016
34	832,428	121.7	69,369	0.016
35	1,374,093	128.3	114,508	0.020
36	153,900	45.0	12,825	0.019
37	175,500	45.0	14,625	0.018
38	188,825	65.0	15,735	0.019
39	291,550	85.0	24,296	0.015
40	396,694	91.7	33,058	0.012
41	485,510	103.3	40,459	0.013
42	442,911	91.7	36,909	0.013
43	228,169	48.3	19,014	0.015
44	486,115	81.7	40,510	0.014
45	439,243	78.3	36,605	0.013
46	755,123	103.3	62,927	0.021
47	513,040	58.3	42,753	0.019

Table 3. Upper "A" Zone

Using 12.0 ft.³/ton factor

Triangle No.	Volume ft³	Thickness ft	Tons	Grade oz/ton
48	309,890	33.3	25,824	0.014
49	109,733	36.7	9,144	0.020
50	181,125	48.3	15,094	0.018
51	317,492	66.7	26,458	0.015
52	520,200	90.0	43,350	0.011
53	330,625	115.0	27,552	0.011
54	292,215	105.0	24,351	0.012
55	248,900	100.0	20,742	0.011
56	221,400	90.0	18,450	0.012
57	348,000	100.0	29,000	0.011
58	268,158	71.7	22,347	0.012
59	365,183	66.7	30,432	0.013
60	243,600	40.0	20,300	0.017
61	341,250	65.0	28,438	0.016
62	317,250	45.0	26,438	0.015
63	None	—	—	—
64	83,300	20.0	6,942	0.025
65	82,250	25.0	6,854	0.012
66	248,820	55.0	20,735	0.016
67	226,709	47.3	18,892	0.014
68	78,069	37.3	6,506	0.015
69	239,212	75.7	19,934	0.012
70	142,857	40.7	11,905	0.014

Table 3. Upper "A" Zone

Using 12.0 ft^3/ton factor

Triangle No.	Volume ft^3	Thickness ft	Tons	Grade oz/ton
71	239,100	75.0	19,925	0.010
72	360,375	75.0	30,031	0.010
73	338,675	95.0	28,223	0.012
74	181,125	48.3	15,094	0.015
75	253,125	45.0	21,094	0.017
76	245,618	38.3	20,468	0.013
77	248,184	38.3	20,682	0.013
78	180,250	35.0	15,021	0.011
79 A	None	—	—	—
79 B	None	—	—	—
80 A	75,650	25.0	6,304	0.012
80 B	62,400	25.0	5,200	0.012
81	None	—	—	—
82	155,951	37.3	12,996	0.015
83 M.	None	—	—	—
84	None	—	—	—
86 M.	None	—	—	—
87 M.	68,843	12.3	5,737	0.022
88	114,169	12.3	9,514	0.022
90 M.	55,977	12.3	4,665	0.022
91	151,300	20.0	12,608	0.020
92	148,575	28.3	12,381	0.011
93	117,445	28.3	9,787	0.011
94	104,160	21.7	8,680	0.011
95	79,800	13.3	6,650	0.023

Table 3 - Upper "A" Zone

Using 12.0 ft^3/ton factor

Triangle No.	Volume ft^3	Thickness ft	Tons	Grade oz/ton
96	195,571	33.3	16,298	0.022
97	145,000	20.0	12,083	0.021
98	375,300	41.7	31,275	0.016
99	618,120	45.0	51,510	0.017
100	216,353	31.7	13,522 (3/4)	0.011
101	None	—	—	—
102	None	—	—	—
103	79,800	13.3	6,650	0.023
104	35,963	13.3	2,997	0.023
105	153,180	30.0	12,765	0.018
106	262,200	50.0	12,850	0.019
107	203,000	40.0	16,917	0.019
108	537,880	35.0	22,412 (1/2)	0.014
109	None	—	—	—
110	None	—	—	—
111	None	—	—	—
112	None	—	—	—
113	135,938	16.7	11,328	0.014
114	110,938	16.7	6,934 (3/4)	0.014
118	None	—	—	—
119	None	—	—	—
120	None	—	—	—
121	None	—	—	—
122	None	—	—	—

Table 3 - Upper "A" Zone

Using 12.0 ft^3/ton factor

Triangle No.	Volume ft^3	Thickness ft	Tons	Grade oz/ton
124	None	—	—	—
127	None	—	—	—
128	371,628	33.3	30,969	0.022
129	623,034	74.7	25,960 (1/2)	0.013
135	1,158,690	130.0	48,279 (1/2)	0.021
136	1,228,500	105.0	102,375	0.023
137	1,108,980	90.0	92,415	0.023
138	422,832	38.3	35,236	0.021
144	253,700	20.0	6,977 (1/3)	0.016
145	183,300	20.0	7,638 (1/2)	0.016
146	139,360	20.0	5,807 (1/2)	0.012
147	208,000	20.0	8,667 (1/2)	0.012
148	193,550	35.0	14,129	0.011
149	46,101	28.3	3,842	0.015
150	155,002	11.7	12,917	0.015
151	None	—	—	—
152	None	—	—	—
153	None	—	—	—
154	None	—	—	—
156	None	—	—	—
142	None	—	—	—
143	None	—	—	—
145	None	—	—	—
146	None	—	—	—

Table 3. Upper "A" Zone

Using 12.0 ft^3/ton factor

Triangle No.	Volume ft^3	Thickness ft	Tons	Grade oz/ton
167	None	—	—	—
168	None	—	—	—
169	None	—	—	—
170	None	—	—	—
			2,738,247	46,875.871 Ton-ozs
	Total Upper "A"		2,738,247	0.017 opt gold

Table 4 Main "B" Zone

JDSYRBZONC

Using 12.0 ft³/ton factor

Triangle No.	Volume ft³	Thickness ft	Tons	Grade oz/ton
1	87,375	23.3	7,281	0.037
2	208,250	35.0	17,354	0.057
3	382,500	30.0	31,875	0.068
4	117,600	20.0	9,800	0.037
5	182,250	30.0	15,188	0.035
6	189,810	33.3	15,818	0.047
7	149,184	33.3	12,432	0.051
8	119,699	31.7	9,975	0.054
9	232,187	56.7	19,349	0.054
10	221,130	56.7	18,428	0.050
11	191,403	41.7	15,950	0.043
12	280,292	63.3	23,358	0.047
13	308,424	78.3	25,702	0.051
14	505,084	91.7	42,090	0.041
15	486,850	70.0	40,571	0.044
16	681,298	63.3	56,775	0.049
17	989,495	66.7	82,458	0.041
18	298,880	46.7	24,907	0.050
19	169,070	58.3	14,089	0.047
20	255,500	50.0	21,292	0.054
21	190,515	51.7	15,876	0.057
22	205,920	60.0	17,160	0.055
23	211,723	78.3	17,644	0.045

Table 4 Main "B" Zone

Using 12.0 ft³/ton factor

Triangle No.	Volume ft³	Thickness ft	Tons	Grade oz/ton
24	254,880	95.0	21,407	0.044
25	373,700	100.0	31,142	0.048
26	290,105	85.0	24,175	0.045
27	280,740	93.3	23,395	0.046
28	232,000	80.0	19,333	0.047
29	667,076	126.7	55,590	0.039
30	994,194	108.3	82,850	0.036
31	557,304	103.3	46,442	0.040
32	339,398	76.7	28,283	0.036
33	180,290	55.0	15,024	0.047
34	490,428	71.7	40,869	0.037
35	856,800	80.0	71,400	0.038
36	188,100	55.0	15,675	0.054
37	188,370	48.3	15,698	0.050
38	154,837	53.3	12,903	0.045
39	205,800	60.0	17,150	0.039
40	331,804	76.7	27,650	0.056
41	438,510	93.3	36,543	0.059
42	474,789	98.3	39,566	0.058
43	551,291	116.7	45,941	0.044
44	535,500	90.0	44,625	0.045
45	532,950	95.0	44,413	0.048
46	402,050	55.0	33,504	0.055
47	674,960	76.7	56,247	0.056

Table 4 - Main "B" Zone

Using 12.0 ft³/ton factor

Triangle No.	Volume ft³	Thickness ft	Tons	Grade oz/ton
48	728,640	78.3	60,722	0.055
49	144,417	48.3	12,035	0.049
50	137,625	36.7	11,469	0.049
51	238,000	50.0	19,833	0.051
52	414,426	71.7	34,536	0.064
53	258,750	90.0	21,563	0.068
54	278,300	100.0	23,192	0.061
55	211,565	85.0	17,630	0.058
56	233,700	95.0	19,475	0.051
57	324,684	93.3	27,057	0.047
58	436,458	116.7	36,372	0.043
59	547,500	100.0	45,625	0.048
60	639,450	105.0	53,288	0.052
61	350,175	66.7	29,181	0.060
62	434,985	61.7	36,249	0.055
63	371,371	58.3	30,948	0.083
64	242,820	58.3	20,235	0.076
65	153,643	46.7	12,804	0.092
66	263,749	58.3	21,979	0.085
67	340,303	71.0	28,359	0.078
68	124,115	59.3	10,343	0.075
69	245,532	77.7	20,461	0.053
70	272,727	77.7	22,727	0.049

Table 4 - Main "B" Zone

Using 12.0 ft.³/ton factor

Triangle No.	Volume ft³	Thickness ft	Tons	Grade oz/ton
71	265,560	83.3	21,130	0.050
72	352,207	73.3	29,351	0.054
73	237,786	66.7	19,815	0.060
74	181,125	48.3	15,094	0.058
75	243,563	43.3	20,297	0.049
76	213,553	33.3	17,796	0.047
77	205,416	31.7	17,118	0.041
78	145,745	28.3	12,145	0.048
79A	93,375	25.0	7,781	0.103
79B	81,250	25.0	6,771	0.109
80A	95,924	31.7	7,994	0.055
80B	79,123	31.7	6,594	0.060
81	85,973	18.3	7,164	0.114
82	206,123	49.3	17,177	0.049
83 M.	311,355	45.0	25,946	0.084
84	209,420	28.3	17,452	0.084
86 M.	319,800	53.3	26,650	0.069
87 M.	294,962	52.7	24,580	0.065
88	643,243	69.3	53,604	0.044
90 M.	277,611	61.0	23,134	0.054
91	478,865	63.3	39,905	0.048
92	297,675	56.7	24,806	0.049
93	200,445	48.3	16,704	0.049
94	192,000	40.0	16,000	0.045
95	349,800	58.3	29,150	0.063

Table 4. Main "B" Zone

Using 12.0 ft³/ton factor

Triangle No.	Volume ft³	Thickness ft	Tons	Grade oz/ton
96	313,031	53.3	26,086	0.047
97	362,500	50.0	30,208	0.037
98	360,000	40.0	30,000	0.045
99	366,751	26.7	30,563	0.043
100 M.	39,000	30.0	3,250	0.069
101	215,129	23.3	17,927	0.085
102	247,260	31.7	20,605	0.075
103	280,200	46.7	23,350	0.073
104	157,643	58.3	13,137	0.054
105	315,040	61.7	26,253	0.051
106	235,980	45.0	19,665	0.047
107	143,623	28.3	11,969	0.029
108 M.	181,125	22.5	15,094	0.054
109	363,720	43.3	30,310	0.058
110	431,653	61.7	35,971	0.048
111	245,258	61.7	20,438	0.043
112	672,975	75.0	56,081	0.044
113	502,238	61.7	41,853	0.045
114 M.	210,000	50.0	17,500	0.043
118	1,188,594	66.7	99,050	0.048
119	765,000	45.0	63,750	0.042
120	665,184	53.3	55,432	0.043
121	415,911	48.3	34,659	0.034
122 M.	91,000	20.0	7,583	0.049

Table 4 : Main "B" Zone

Using 12.0 ft^3/ton factor

Triangle No.	Volume ft^3	Thickness ft	Tons	Grade oz/ton
124	1,282,600	58.3	106,883	0.054
127 M.	388,890	30.0	32,408	0.049
128	279,000	25.0	23,250	0.075
129 M.	125,000	25.0	10,417	0.060
135 M.	77,520	40.0	6,460	0.057
136	468,000	40.0	39,000	0.065
137	513,827	41.7	42,819	0.041
138	607,200	55.0	50,600	0.046
144	507,400	40.0	42,283	0.052
145 M.	118,300	65.0	9,858	0.049
146 M.	89,250	30.0	7,438	0.050
147 M.	54,000	20.0	4,500	0.050
148	258,251	46.7	21,521	0.057
149	92,364	56.7	7,697	0.049
150	751,162	56.7	62,597	0.049
151 M.	92,000	20.0	7,667	0.064
152 M.	321,563	52.5	26,797	0.060
153 M.	813,484	68.0	67,790	0.055
154 M.	580,000	50.0	48,333	0.049
156 M.	172,500	50.0	14,375	0.049
162 M.	389,034	18.0	32,420	0.072
163 M.	97,650	17.5	8,138	0.063
165 M.	36,000	8.0	3,000	0.084
166 M.	852,600	42.0	71,050	0.049

Table 4 - Main "B" Zone

Using 12.0 ft^3/ton factor

Triangle No.	Volume ft^3	Thickness ft	Tons	Grade oz/ton
167M.	693,000	42.0	57,750	0.053
168M.	362,250	23.0	30,188	0.059
169M.	2,835,000	45.0	236,250	0.048
170M.	400,125	27.5	33,344	0.057
	Totals 271,014,959.8	ft-tons	4,341,005 tons	223,912.203 ton-oz
	Total	62.1 vertical	4,341,005 TONS	0.051 opt gold
	Previously Mined		250,000	0.051
	Total remaining	53.8' ⊥ to VF structure	4,111,005 tons	0.051 opt gold

Table 5. Total Grade intervals and Contained Tons in "B" Zone

15

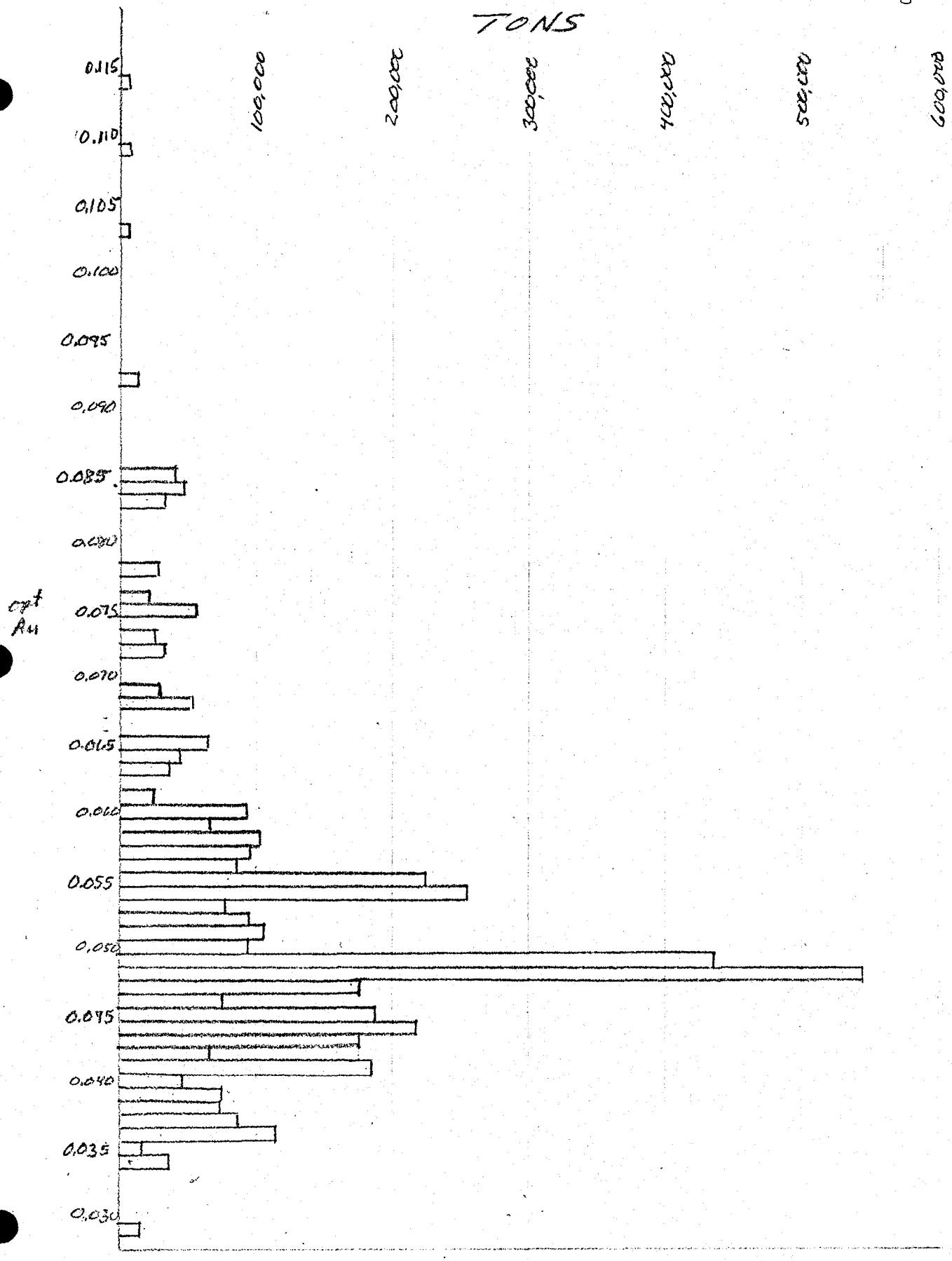
JDSYRTGR

20 oz/ton Grade ~~Grade/oz/ton~~	20 Tons	11 OZ-TON
0.029	11,969	347,101
0.034	34,659	1,178,406
0.035	15,188	531,580
0.036	111,133	4,000,788
0.037	88,158	3,241,846
0.038	71,400	2,713,200
0.039	72,740	2,836,860
0.040	46,442	1,857,680
0.041	184,485	7,563,885
0.042	63,750	2,677,500
0.043	176,255	7,578,965
0.044	217,604	9,574,576
0.045	187,200	8,424,000
0.046	73,995	3,403,770
0.047	178,226	8,376,622
0.048	544,501	26,136,048
0.049	435,891	21,358,659
0.050	92,101	4,605,050
0.051	103,695	5,288,445
0.052	95,571	4,969,692
0.053	78,211	4,145,183
0.054	253,890	13,710,060
0.055	223,419	12,288,045
0.056	83,897	4,698,232
0.057	94,555	5,389,435
0.058	102,600	5,950,800

oz/Ton, Grade	Tons	OZ-TON
0.059	66,731	3,937.129
0.060	92,804	5,568.240
0.061	23,192	1,414.712
0.062	—	—
0.063	37,288	2,349.144
0.064	42,203	2,700.992
0.065	63,580	4,132.700
0.066	—	—
0.067	—	—
0.068	53,438	3,633.784
0.069	29,900	2,063.100
0.070	—	—
0.071	—	—
0.072	32,420	2,334,240
0.073	23,350	1,704.550
0.074	—	—
0.075	54,198	4,064.850
0.076	20,235	1,537.860
0.077	—	—
0.078	28,359	2,212.002
0.079	—	—
0.080	—	—
0.081	—	—
0.082	—	—
0.083	30,948	2,568.684
0.084	46,398	3,897.432

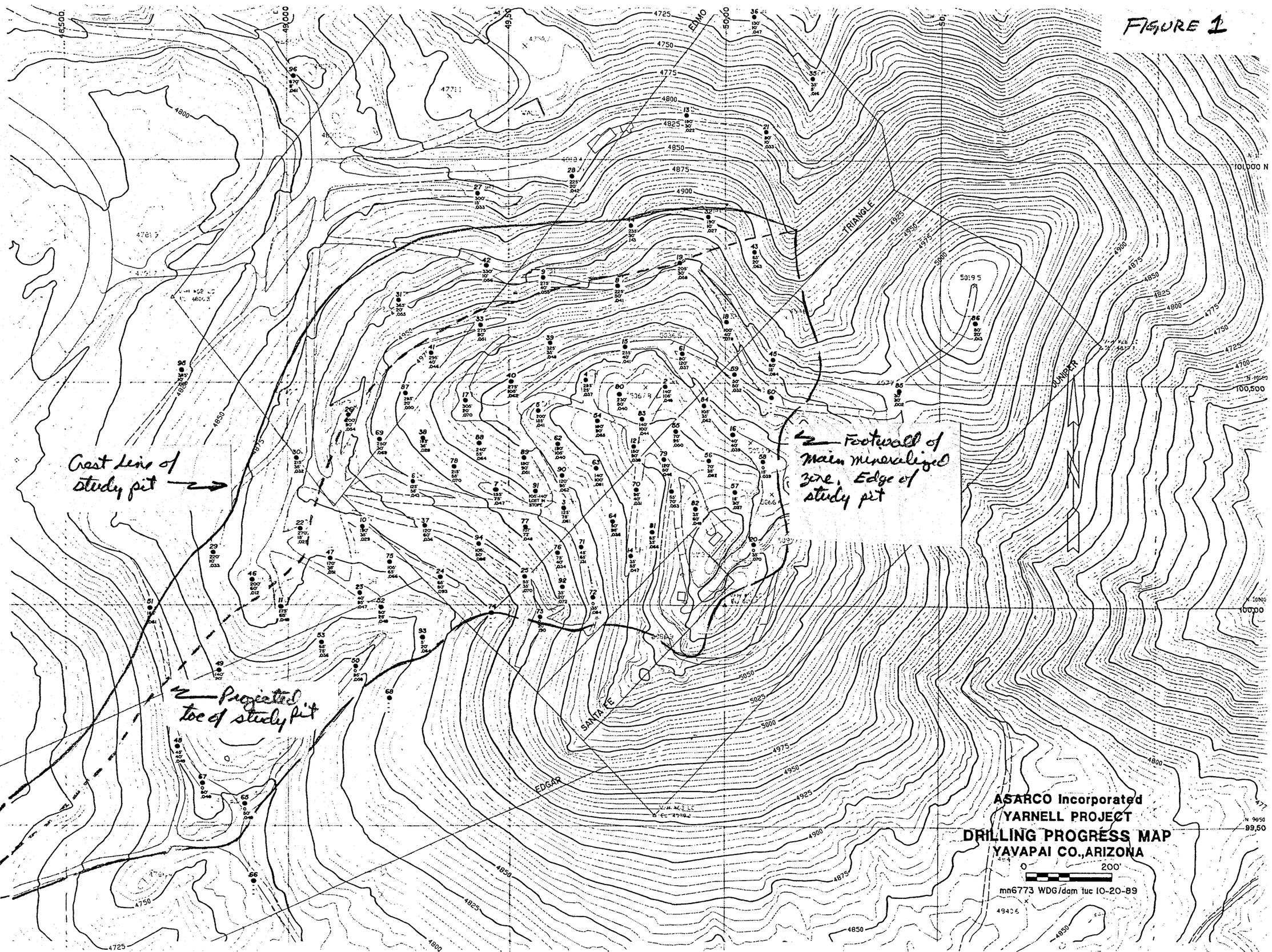
oz/Ton, Grade	Tons	oz-ton
0.085	39,906	3,392,010
+	+	+
0.092	12,804	1,177,968
+	+	+
0.103	7,781	801,443
+	+	+
0.109	6,771	738,039
+	+	+
0.114	7,164	816,696
	4,361,005	223,912,203
	at 0.051	

Figure 2.



Main "B" Zone Mineralization - opt Au-Tons

FIGURE 1


Crest line of study pit
Footwall of main mineralized zone. Edge of study pit
Projected toe of study pit
EDMO
TRIANGLE
JUNIPER
SANTA FE
EDGAR
ASARCO Incorporated
YARNELL PROJECT
DRILLING PROGRESS MAP
YAVAPAI CO., ARIZONA
0 200'
mn6773 WDG/dam tuc 10-20-89

Attachment A

Tracing Number + Well Hole Map.

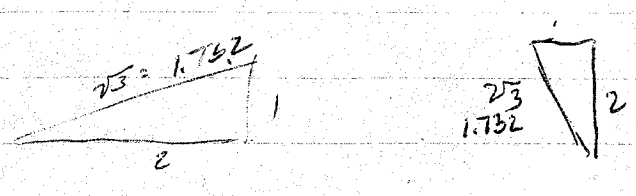
Vertical thickness 200'
true thickness 174

Using Vertical Thickness & drill hole assuming horizontal lines to boundary:

Area = 200 x 1000 = 200,000

but it is really ~~174~~ 173.2 true thickness, & at 30°

Area = 173.2 x 1055 =	~~183,520~~	182,515 (173)	182,724 (173.2)
+ 173.2 x 100 =	~~17,460~~	17,300	17,320
	~~200,970~~	199,815	200,044



$\frac{2}{1.732} = \frac{1}{x} = 0.866$

Thus very close.

~~To~~ True Thickness Length = Vertical Length x 0.866

Zone Blocks – Tonnage, Grade

Triangle Plan

No	ft^2 x height = ft^3 ÷	factor = Tonnage		Grade gold OZ
			TONS	
1. 3750 x	÷	=		
2. 5950 x	÷	=		
3. 12,750 x	÷	=		
4. 5880 x	÷	=		
5. 6075 x	÷	=		
6. 5700 x	÷	=		
7. 4480 x	÷	=		
8. 3776 x	÷	=		
9. 4095 x	÷	=		
10. 3900 x	÷	=		
11. 4590 x	÷	=		
12. 4428 x	÷	=		
13. 3939 x	÷	=		
14. 5508 x	÷	=		
15. 6955 x	÷	=		
16. 10,763 x	÷	=		
17. 14,835 x	÷	=		
18. 6400 x	÷	=		
19. 2900 x	÷	=		
20 5110 x	÷	=		
21. 3685 x	÷	=		
22. 3432 x	÷	=		
23. 2704 x	÷	=		

Zone Blocks - Tonnage, oz Au

Triangle Plan

No.	ft^2 x height = ft^3 ÷	factor = Tonnage		Grade gold
			TONS	OZ
24. 2704 X	÷	=		
25. 3737 X	÷	=		
26. 3413 X	÷	=		
27. 3009 X	÷	=		
28. 2900 X	÷	=		
29. 6245 X	÷	=		
30. 9180 X	÷	=		
31. 5395 X	÷	=		
32. 4425 X	÷	=		
33. 3278 X	÷	=		
34. 6840 X	÷	=		
35. 10,710 X	÷	=		
36. 3420 X	÷	=		
37. 3900 X	÷	=		
38. 2905 X	÷	=		
39. 3430 X	÷	=		
40. 4326 X	÷	=		
41. 4700 X	÷	=		
42. 4830 X	÷	=		
43. 4724 X	÷	=		
44. 5950 X	÷	=		
45. 5610 X	÷	=		
46. 7310 X	÷	=		

Zone Blocks - Tonnages, oz Au

Triangle Plan

No ft² x height = ft³ ÷ 12. factor = Tonnage

					TONS	Grade gold OZ
47.	8800 X	÷	12.	=		
48.	9306 X	÷		=		
49.	2990 X	÷		=		
50.	3750 X	÷		=		
51.	4760 X	÷		=		
52.	5780 X	÷		=		
53.	2875 X	÷		=		
54.	2783 X	÷		=		
55.	2489 X	÷		=		
56.	2460 X	÷		=		
57.	3480 X	÷		=		
58.	3740 X	÷		=		
59.	5475 X	÷		=		
60.	6090 X	÷		=		
61.	5250 X	÷		=		
62.	7050 X	÷		=		
63.	6370 X	÷		=		
64.	4165 X	÷		=		
65.	3290 X	÷		=		
66.	4524 X	÷		=		
67.	4793 X	÷		=		
68.	2093 X	÷		=		
69.	3160 X	÷		=		

Zone Blocks, — Tonnage, oz Au

Triangle Plan

No ft^2 x height = ft^3 ÷ 12. factor = Tonnage.

				Tons	Grade gold OZ
70.	3510 x	÷ 12	=		
71.	3188 x	÷	=		
72.	4805 x	÷	=		
73.	3545 x	÷	=		
74.	3750 x	÷	=		
75.	5625 x	÷	=		
76.	6413 x	÷	=		
77.	6480 x	÷	=		
78.	5150 x	÷	=		
79A.	3735 x	÷	=		
79B.	3250 x	÷	=		
80A.	3026 x	÷	=		
80B.	2494 x	÷	=		
81.	4698 x	÷	=		
82.	4181 x	÷	=		
~~83-87.~~	~~10,450 x~~	See 83m 087m ÷	=		
84-85.	7400 x	÷	=		
~~86-90.~~	~~12,708 x~~	See 86m 190m ÷	=		
88-89.	9282 x	÷	=		
91.	7565 x	÷	=		
92.	5250 x	÷	=		
93.	4150 x	÷	=		
94.	4800 x	÷	=		

Zone Blocks — Tonnage, oz Au

Triangle Plan

No.	ft^2 x height = ft^3 ÷ 12. factor = Tonnage			Grade gold
			TONS	OZ
95.	6000x	÷12.	=	
96.	5873x	÷	=	
97.	7250x	÷	=	
98.	9000x	÷	=	
99.	13,736x	÷	=	
100.	6825x	÷	=	
101.	9233x	÷	=	
102.	7800x	÷	=	
103.	6000x	÷	=	
104.	2704x	÷	=	
105.	5106x	÷	=	
106.	5244x	÷	=	
107.	5075x	÷	=	
108.	15,368x	÷	=	
109.	8400x	÷	=	
110.	6996x	÷	=	
111.	3975x	÷	=	
112.	8973x	÷	=	
113.	8140x	÷	=	
114.	6643x	÷	=	
115.	7553x	÷	=	
116.	8100x	÷	=	
117.	15,675x	÷	=	

Zone Blocks - Tonnage, oz Au

Triangle Plan

No ft^2 x height = ft^3 ÷ 12. factor = Tonnage

				TONS	Grade gold OZ
118.	17,820 x	÷ 12.	=		
119-126.	17,000 x	÷	=		
120.	12,480 x	÷	=		
121	8,611 x	÷	=		
122.	20,915 x	÷	=		
123.	9635 x	÷	=		
124-125.	22,000 x	÷	=		
127.	19,200 x	÷	=		
128.	11,160 x	÷	=		
129.	8123 x	÷	=		
130.	15,525 x	÷	=		
131.	20,184 x	÷	=		
132.	8550 x	÷	=		
133.	21,000 x	÷	=		
134.	23,600 x	÷	=		
135.	8,913 x	÷	=		
136.	11,700 x	÷	=		
137.	12,322 x	÷	=		
138.	11,040 x	÷	=		
139.	18,560 x	÷	=		
140.	14,648 x	÷	=		
141.	8218 x	÷	=		
142.	17,653 x	÷	=		

Zone Blocks, — Tonnage, oz Au

Triangle Plan

No $ft^2 \times height = ft^3 \div 12$, factor = Tonnage.

				Grade gold
			TONS	OZ
143.	17,100 x	÷ 12. =		
144.	12,685 x	÷ =		
145.	9165 x	÷ =		
146.	6968 x	÷ =		
147.	10,400 x	÷ =		
148.	5530 x	÷ =		
149.	1628 x	÷ =		
150.	13,248 x	÷ =		
151.	8579 x	÷ =		
152.	8085 x	÷ =		
153.	22,736 x	÷ =		
154.	18,560 x	÷ =		
155.	30,900 x	÷ =		
156.	7350 x	÷ =		
157.	15,210 x	÷ =		
158.	23,400 x	÷ =		
159.	29,970 x	÷ =		
160.	48,735 x	÷ =		
161.	49,832 x	÷ =		
162.	57,770 x	÷ =		
163.	70,400 x	÷ =		
164.	50,312 x	÷ =		

Zone Blocks – Tonnage, oz Au

Triangle Plan #	ft^2 x height = ft^3 ÷ 12, factor = Tonnage	TONS	Grade gold OZ
83M.	6,919 x		
86M.	6,000 x		
87M.	5597 x		
90M.	4551 x		
100M	1300 x		
107M	3600 x		
114M	4200 x		
122M	4550 x		
127M	12,963 x		
129M	5000 x		
135M	1938 x		
145M	1820 x		
146M	2975 x		
147M	2700 x		
153M	11,963 x		
154M	11,600 x		
156M	3450 x		
162M	21,613 x		
165M	4500 x		
166M	20,300 x		
167M	16,500 x		
168M	15,750 x		
169M	63,000 x		

Zone Blocks – Tonnage, oz Au

Triangle Plan #	ft^2 x height = ft^3 ÷	factor =	Tonnage Tons	Grade gold OZ
	÷	=		
	÷	=		
	÷	=		
	÷	=		
	÷	=		
	÷	=		
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ASARCO

Exploration Department

11/-13-89

October 2, 1989

R.L. Brown
F.T. Graybeal
J.C. Balla
D.D. Harper
J.D. Sell
D.M. Smith
P.G. Vikre
J.E. Worthington

1990 Program & Budget Meeting
Phoenix, Arizona

Reservations have been made for the 1990 Program and Budget Meeting on October 16 and 17 at:

Howard Johnson Plaza Hotel
Phoenix Sky Harbor Airport
3333 E. University Drive
Phoenix, AZ 85034

Phone: 602-437-8400

A single room has been reserved in your name for two nights, arriving October 16 and leaving October 18, at the rate of $54.00 per night. The meeting will be held on October 17 at 8:00 AM in my suite.

You will be responsible for payment of your room and for your meals.

Transportation to Yarnell will be arranged. Pioneer Ford 257-1933 on Visa card 2 days at HJP Hotel

Confirmation #
JDS P18475-00
RLB P18475-01

W. L. Kurtz

WLK:mek

W. L. Kurtz

Reservations for Monday Nov. 13 & holding 14th for RL Brown → JDSell
card on reservation

Hassayampa
then
Yarnell
then
back to Phoenix + gone → Denver (RLB)

******* UF-250 ********** -JOURNAL- ********** DATE NOV-03-1989 ***** TIME 09:15 *******

NO.	COM	DOC	DURATION	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]/DSTIC
13	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]3800

********** [illegible] **********

ASARCO

TELECOPIER COVER SHEET

TODAY'S DATE: 11/3/89	TIME: 9:10
DESTINATION FAX NUMBER: (212) 510 - 1978	
TO: Mr. Brown	
COMPANY:	
DEPARTMENT:	

FROM: Mr. Sell	
ASARCO Incorporated Tucson Office FAX: (602) 792-3934	
DEPARTMENT:	

You will receive this cover sheet and 1 additional pages.

If you do not receive all pages,
please call (602) 792-3010
as soon as possible.

MESSAGE:

ASARCO

Southwestern Exploration Division

November 10, 1989

Preliminary copy waiting for attachments.

W.L. Kurtz

Drill Indicated Reserve
Yarnell Project
Yavapai County, Arizona

Summary and Conclusion

The following tonnage and grade of material remaining at the Yarnell Project, based on the triangle method as discussed in the calculation section, have been calculated.

1. The Main "B" zone mineralization of 4.111 million tons of 0.051 opt gold, with 209,661 contained ounces of gold.

2. [illegible]

3. ~~2.~~ The Total Waste, above the Main "B" zone, of 12.671 million tons of material.

4. ~~3. A ratio of 3.08 waste/ore for the above.~~ [illegible]

5. ~~4.~~ Above the Main "B" zone is a lower grade zone designated as the Upper "A" zone. This "A" zone mineralization of 2.738 million tons of 0.017 opt gold, contains 46,546 ounces of gold. The "A" zone is within the Total Waste tonnage area.

6. [illegible]

7. ~~5.~~ Combining both the "A" and "B" zones, a total of 6.849 million tons of 0.038 opt gold, containing 256,207 ounces of gold, is within the indicated reserve.

8. ~~6.~~ With the "A" zone removed from the Total Waste, a reduced waste value of 9.933 million tons is indicated.

9. ~~7.~~ The revised ratio of 1.45 waste/ore results from combining zones "A" and "B."

10. ~~8.~~ The average thickness of the Main "B" zone mineralization is 62.1 feet as measured vertically in the drill hole intercepts. This figure is 53.8 feet (vertical feet times 0.866) measured perpendicular to the thirty degree dip of the Yarnell Fault structure.

JDS:mek
Att.

James D. Sell

cc: R.L. Brown (2 copies)
M.A. Miller
S.L. Lakosky

ASARCO

Southwestern Exploration Division

November 10, 1989

W.L. Kurtz

Calculations
Drill Indicated Reserve
Yarnell Project
Yavapai County, Arizona

I submit my report on the calculation methods and parameters used for the drill indicated reserve at Yarnell, Arizona.

The Main mineralization dips subparallel to the Yarnell Fault, which is thirty degrees northwest. Graphic solution indicates that in this case a plan area multiplied by the vertical drill hole intercept contains the same approximate tonnage as would the inclined plan area multiplied by the thickness measured perpendicular to the inclined plane. As a result, the values in the vertical drill holes can be used in the calculations with no further adjustments due to attitude of the mineral zone.

Figure 1 is the drill progress map with the ninety-six drill holes used in this study. A total of 24,325 feet has been rotary drilled (reverse air) and 4 diamond drill holes totaling 1,295 feet has been drilled. Also shown is the footwall outcrop of the base of the Main "B" zone mineralization which is also the east and south edges of the study pit. The fifty degree back-slope of the study pit is shown as the crest and toe lines on the north and northwest sides of the study pit.

The main structural feature within the area is the Yarnell Fault which strikes N40°E and dips thirty degrees northwesterly. The fault is near the footwall line shown on Figure 1.

A packet of silicification, quartz veining, clay, and quartz-sericite alteration of the granite host trends subparallel to the Yarnell Fault. This packet is the Main "B" zone and averages 54 feet thick measured subperpendicular to the Yarnell Fault. Also within the zone the drill hole averages in excess of 0.035 opt gold values.

Thus the Main "B" zone mineralization tabulated for this pit study is within the pit design as shown in Figure 1.

In the up-dip and central part of the study pit, previous mining has extracted a portion of the high-grade vein within the Yarnell Fault of the Main "B" zone. The memo of 10/31/89 indicates that 250,000 tons had been mined by underground and open-cut methods within the study pit outline. A grade of 0.051 opt gold was assigned to this material for calculating purposes, but it is believed that the historic grade was quarter ounce or better when it was mined.

The triangle method was used to calculate the tonnage and grade within the drill indicated mineralization within the study pit.

Three types of material are within the pit outline: 1) The Main "B" zone mineralization, 2) the Upper "A" zone mineralization, and 3) the Total Waste material. The Upper "A" zone material may be profitable to segregate and is included within the Total Waste calculation. The Total Waste material is all the material above the Main "B" zone mineralization.

For calculations of the drill indicated reserve, the following tabulations were created. These tabulations are only attached to the File Copy. Pertinent portions are abstracted and included as Tables within the distributed report copies.

A. All drill holes were connected to form triangles by connecting the three adjacent drill holes. An attempt was made to create equilateral triangles and/or to elongate them along the strike of the deposit. Modified (M) outlines were created at the edges of the pit either adjacent to outcrop or along the back slope wall after the first run had been made and the down-dip pit parameters reestablished.

   Attachment A is a plan map showing the triangles used in the study pit calculations.

B. The triangle plan areas, measured in square feet, were tabulated (Tabulation A-File).

C. Table 1 (attached) was tabulated showing the drill hole, and the footage and assay for the intervals of the "A" and "B" mineralized zones, with Total Waste being the number from the surface to the top of the "B" zone.

D. From Table 1, each triangle was tabulated for height of block, by each: the TW* (Total Waste above "B" zone), the "A" zone, and the "B" zone, by averaging the respective intervals within the three drill holes, or outcrop, involved (Tabulation B-File).

E. Each drill hole was tabulated showing the "A" and "B" zone thickness and grade and the resultant FT-OZ (Feet-ounces) figure (Tabulation C-File).

F. From the above data, the grade of each zone was calculated to represent the triangle unit grade with a check on the thickness of each triangle zone (Tabulation D-File).

G. Using a 12.0 cubic feet per ton factor, a tabulation of tonnage and grade was calculated for each triangle for the "A" zone, the "B" zone, and the Total Waste above the "B" zone, within the study pit parameters. A back-slope of fifty degrees was used to calculate the Total Waste outside the mineralized blocks.

Table 2 - Total Waste (Tabulation E-File).

Table 3 - Upper "A" zone, within the total waste (Tabulation F-File).

Table 4 - Main "B" zone (Tabulation G-File).

Each table tabulates the triangle number, the cubic feet volume, the thickness of the unit, the resultant tons, using a 12.0 cubic feet per ton factor, and the grade of the interval within each triangle.

Should other cubic feet per ton factors need to be tabulated, the Tables 2, 3, and 4, can be used.

The totals within the Tables were cumulated by summing the weighted multiples of feet times tonnage and tonnage times grade and dividing by total tonnage to supply the average thickness of each unit and the average grade of each unit.

H. A previous memo, 10/31/89, detailed the consensus of the amount of ore previously removed from the Main "B" zone mineralization by underground and open-pit methods within the proposed pit area. Using only the drill holes and surface samples from within the area, a tonnage of 250,000 tons of 0.051 opt gold was calculated.

I. To restate from Tables 2, 3, and 4:

Total Waste - 12,671,085 tons above "B" zone.

Total "A" zone - 2,738,247 tons of 0.017 opt gold
(The "A" zone mineralization is within the Total Waste tonnage).

Total "B" zone - 4,111,005 tons of 0.051 opt gold
(After subtracting the previously mined tonnage).

J. Figure 2 is a bar-graph which plots "B" zone grades of ore with the tons of ore within that grade range. The same data is tabulated in Table 5 (attached).

At first glance, it is noted that the bulk of the mineralization tonnage is below a grade of 0.050 opt gold, and thus the grade might also be in a lower range. However, the weighted totals of gold values indicate an 0.051 opt gold value.

Should it be decided to cut the high values above 0.080 opt gold, in Table 5, to a value of 0.050 opt gold, the result will be that the weighted average of the total tonnage only drops 0.001 opt, to a value of 0.050 opt gold.

K. Of some interest in viewing Figure 2 is the apparent "decreasing" slope spikes, such as noted between 0.036-0.040 and 0.054-0.061 opt gold, and, of course, the big spike at 0.048-0.049 opt gold.

With the apparent multiple stages of flooding silica and silica veining, the several grade spikes may be indicative of the stages of quartz deposition and the contained gold values with these stages.

JDS:mek
Atts.

James D. Sell

cc: R.L. Brown (2 copies)
M.A. Miller
S.L. Lakosky

YARNELL PROJECT

Yavapai County, Arizona

Table 1 - Zone Interval Tabulation

Drill Hole	Zone*	From	To	Footage	Grade (opt Au)
YM-1	A	5	55	50'	0.025
YM-1	B	55	125	70'	0.053, incl. 20' stope
YM-2	A	45	140	95'	0.017
YM-2	B	140	245	105'	0.049, incl. 40' stope
YM-3	A	20	125	105'	0.011
YM-3	B	125	200	75'	0.060
YM-4	A	15	230	175'	0.013, 40' gap
YM-4	B	285	310	25'	0.037
YM-5	A	150	200	50'	0.005
YM-5	B	200	355	155'	0.041, incl. 35' stope
YM-6	B	125	180	55'	0.042
YM-7	B	155	230	75'	0.047, incl. 5' stope
YM-8	A	30	225	195'	0.022
YM-8	B	225	275	50'	0.041
YM-9	B	275	315	40'	0.035
YM-10	A	130	190	60'	0.021
YM-10	B	190	225	35'	0.029
YM-11	B	175	240	65'	0.049
YM-12	A	40	150	110'	0.013
YM-12	B	150	240	90'	0.039, incl. 15' stope
YM-13	B	180	210	30'	0.022
YM-14	B	15	90	75'	0.040

YARNELL PROJECT - Table 1 - Zone Interval Tabulation

Drill Hole	Zone*	From	To	Footage	Grade (opt Au)
YM-15	A	25	140	115'	0.015
YM-15	B	140	295	155'	0.034
YM-16	A	0	40	40'	0.017
YM-16	B	40	80	40'	0.039, incl. 5' stope
YM-17	A	210	285	75'	0.015
YM-17	B	285	325	40'	0.047
YM-18	A	0	100	100'	0.022
YM-18	B	100	140	40'	0.078
YM-19	A	10	85	75'	0.015
YM-19	B	205	235	30'	0.058
YM-20	B	0	35	35'	0.070
YM-21	A	25	55	30'	0.019
YM-21	B	80	90	10'	0.033
YM-22	A	215	225	10'	0.036
YM-22	B	270	285	15'	0.025
YM-23	B	40	125	85'	0.047
YM-24	B	65	115	50'	0.093, incl. 10' stope
YM-25	B	55	90	35'	0.070
YM-26	B	200	290	90'	0.054
YM-27	A	35	265	90'	0.015, 140' gap.
YM-27	B	300	315	15'	0.033
YM-28	A	95	225	130'	0.022
YM-28	B	225	245	20'	0.042
YM-29	B	220	230	10'	0.033
YM-30	A	170	200	30'	0.012
YM-30	B	215	250	35'	0.032
YM-31	A	115	135	20'	0.017
YM-31	B	365	385	20'	0.055
YM-32	A	0	190	155'	0.012, 35' gap.

YARNELL PROJECT - Table 1 - Zone Interval Tabulation

Drill Hole	Zone*	From	To	Footage	Grade (opt Au)
YM-32	B	190	200	10'	0.027
YM-33	A	15	55	40'	0.015
YM-33	B	275	365	90'	0.051
YM-34	A	110	130	20'	0.013
YM-34	B	not reached - assume from other holes.			
YM-34	B	240	250	10'	0.025
YM-35	B	15	40	25'	0.010
YM-36	A	35	55	20'	0.023
YM-36	B	130	140	10'	0.048
YM-37	B	120	180	60'	0.036
YM-38	B	185	220	35'	0.028
	Note: if no fault in area, then above may be "A" Zone.				
YM-39	A	0	325	75'	0.024, 250' gap.
YM-39	B	325	360	35'	0.048, end in ore.
YM-40	A	20	80	60'	0.014
YM-40	B	275	380	105'	0.062
YM-41	B	295	335	40'	0.046
YM-42	B	330	340	10'	0.056
YM-43	B	65	85	20'	0.063
YM-44	A	115	235	120'	0.024
YM-44	B	235	265	30'	0.143
YM-45	B	60	75	15'	0.084
YM-46	B	200	260	60'	0.012
YM-47	A	120	170	50'	0.014
YM-47	B	170	205	35'	0.031
YM-48	B	45	85	40'	0.049
YM-49	B	140	160	20'	0.049
YM-50	B	0	85	85'	0.059

YARNELL PROJECT - Table 1 - Zone Interval Tabulation

Drill Hole	Zone*	From	To	Footage	Grade (opt Au)
YM-51	B	165	170	5'	0.061
YM-52	B	50	75	25'	0.049
YM-53	B	65	140	75'	0.036
YM-54	A	55	125	70'	0.015
YM-54	B	180	270	90'	0.054
YM-55	A	0	70	70'	0.011
YM-55	B	70	165	95'	0.050, incl. 15' stope.
YM-56	A	0	45	45'	0.012
YM-56	B	70	105	35'	0.082
YM-57	A	0	15	15'	0.011
YM-57	B	15	60	45'	0.035, incl. 13' stope.
YM-58	B	0	20	20'	0.034
YM-59	B	50	100	50'	0.032
YM-60	In FW	-	-	-	-
YM-61	B	80	200	120'	0.037, incl. 15' stope.
YM-62	A	115	190	75'	0.015
YM-62	B	190	295	105'	0.040, incl. 40' stope.
YM-63	A	10	140	130'	0.011
YM-63	B	140	240	100'	0.081, end in ore.
YM-64	A	50	110	60'	0.025
YM-64	B	110	145	35'	0.053
YM-65	B	0	50	50'	0.049
YM-66	In FW	-	-	-	-
YM-67	B	0	50	50'	0.048
YM-68	In FW	-	-	-	-
YM-69	A	185	250	65'	0.011
YM-69	B	250	280	30'	0.069

YARNELL PROJECT - Table 1 - Zone Interval Tabulation

Drill Hole	Zone*	From	To	Footage	Grade (opt Au)
YM-70	A	60	95	35'	0.011
YM-70	B	95	135	40'	0.031
YM-71	B	45	110	65'	0.131
YM-72	B	0	35	35'	0.084
YM-73	B	0	20	20'	0.190
YM-74	In FW	-	-	-	-
YM-75	A	65	105	40'	0.023
YM-75	B	105	170	65'	0.066
YM-76	A	0	75	75'	0.012
YM-76	B	75	115	40'	0.034, incl. 15' stope.
YM-77	A	70	107	37'	0.022
YM-77	B	107	180	73'	0.048, incl. 13' stope.
YM-78	A	130	215	85'	0.011
YM-78	B	215	270	55'	0.070
YM-79	A	10	120	110'	0.019
YM-79	B	120	170	50'	0.046
YM-80	A	140	230	90'	0.023
YM-80	B	230	280	50'	0.040
YM-81	A	5	55	50'	0.015
YM-81	B	55	90	35'	0.066
YM-82	A	0	35	35'	0.015
YM-82	B	35	95	60'	0.049
YM-83	A	0	140	140'	0.014
YM-83	B	140	240	100'	0.044, incl. 20' slope.
YM-84	A	10	105	95'	0.017
YM-84	B	105	140	35'	0.062
YM-85	In FW	-	-	-	-
YM-86	B?	50	70	20'	0.013

YARNELL PROJECT - Table 1 - Zone Interval Tabulation

Drill Hole	Zone*	From	To	Footage	Grade (opt Au)
YM-87	A	245	285	40'	0.010
YM-87	B	285	305	20'	0.050
YM-88	A	180	240	60'	0.020
YM-88	B	240	295	55'	0.064
YM-89	A	40	180	140'	0.010
YM-89	B	180	270	90'	0.051
YM-89	Subzone	270	340	70'	0.016
YM-90	A	10	120	110'	0.012
YM-90	B	120	215	95'	0.062
YM-90	Subzone	215	235	20'	0.019
YM-91	A	10	95	85'	0.010
YM-91	B	Hole lost in stope - assume from other holes.			
YM-91	B	95	180	85'	0.051
YM-92	B	35	55	20'	0.072
YM-93	B	5	25	20'	0.064
YM-94	B	105	155	50'	0.086, incl. 30' stope.
YM-95	B	385	395	10'	0.015
YM-96	B	570	575	5'	0.061

*Zone A - Upper low-grade zone.
*Zone B - Main Yarnell Fault Zone & envelope.

YARNELL PROJECT

Yavapai County, Arizona

Table 2 - Total Waste Zone Above "B" Zone

Using 12.0 ft.^{3}/ton factor

Triangle No.	Volume ft.^{3}	Thickness ft.	Tons
1	237,375	63.3	19,781
2	416,500	70.0	34,708
3	1,572,075	123.3	131,006
4	78,204	13.3	6,517
5	182,250	30.3	15,188
6	28,500	5.0	2,375
7	126,784	28.3	10,565
8	138,579	36.7	11,548
9	245,700	60.0	20,475
10	279,630	71.7	23,303
11	298,350	65.0	24,863
12	435,272	98.3	36,273
13	413,595	105.0	34,466
14	495,720	90.0	41,310
15	533,449	76.7	44,454
16	1,811,413	168.3	150,951
17	3,115,350	210.0	259,613
18	106,880	16.7	8,907
19	101,500	35.0	8,458
20	238,637	46.7	19,886
21	301,065	81.7	25,089
22	297,554	86.7	24,796
23	306,363	113.3	25,530
24	324,480	120.0	27,040
25	436,108	116.7	36,342
26	580,210	170.0	48,351
27	471,510	156.7	39,293
28	531,570	183.3	44,298
29	631,800	120.0	52,650
30	1,361,394	148.3	113,450
31	917,150	170.0	76,429
32	965,978	218.3	80,498
33	759,513	231.7	63,293
34	1,710,000	250.0	142,500

YARNELL PROJECT - Table 2 - Total Waste Zone Above "B" Zone

Triangle No.	Volume ft.^{3}	Thickness ft.	Tons
35	2,463,300	230.0	205,275
36	165,186	48.3	13,766
37	266,370	68.3	22,198
38	261,450	90.0	21,788
39	417,431	121.7	34,786
40	555,026	128.3	46,252
41	736,490	156.7	61,374
42	821,100	170.0	68,425
43	897,560	190.0	74,797
44	1,319,115	221.7	109,926
45	1,421,013	253.3	118,418
46	2,156,450	295.0	179,704
47	2,566,960	291.7	213,913
48	2,621,500	281.7	218,458
49	179,400	60.0	14,950
50	325,125	86.7	45,000
51	523,600	110.0	43,633
52	693,600	120.0	57,800
53	368,863	128.3	30,739
54	417,450	150.0	34,788
55	282,004	113.3	23,500
56	332,100	135.0	27,675
57	539,400	155.0	44,950
58	710,600	190.0	59,217
59	1,131,683	206.7	94,307
60	1,451,247	238.3	120,937
61	1,400,175	266.7	116,681
62	2,009,250	285.0	167,438
63	127,400	20.0	10,617
64	236,156	56.7	19,680
65	131,600	40.0	10,967
66	422,089	93.3	35,174
67	442,394	92.3	36,866
68	158,440	75.7	13,203
69	344,440	109.0	28,703
70	417,690	119.0	34,808
71	456,840	143.3	38,070
72	880,757	183.3	73,396
73	754,711	211.7	62,893
74	799,875	213.3	66,656
75	1,331,438	236.7	110,953
76	1,848,868	288.3	154,072
77	1,631,016	251.7	135,918
78	1,236,000	240.0	103,000
79A	68,351	18.3	5,696
79B	None	-	-

YARNELL PROJECT - Table 2 - Total Waste Zone Above "B" Zone

Triangle No.	Volume ft.^{3}	Thickness ft.	Tons
80A	166,430	55.0	13,869
80B	91,603	36.7	7,634
81	85,973	18.3	7,164
82	330,299	79.0	27,525
83	518,925	75.0	43,244
84	296,000	40.0	24,667
86	580,200	96.7	48,350
87	498,133	89.0	41,511
88	1,181,599	127.3	98,467
90	530,796	110.7	41,983
91	1,298,911	171.7	108,243
92	804,825	153.3	67,069
93	726,250	175.0	60,521
94	896,160	186.7	74,680
95	580,200	96.7	48,350
96	812,236	138.3	67,686
97	1,051,250	145.0	87,604
98	1,694,700	188.3	141,225
99	3,251,311	236.7	270,943
100	1,513,103	221.7	126,092
101	215,129	23.3	17,927
102	312,000	40.0	26,000
103	439,800	73.3	36,650
104	175,760	65.0	14,647
105	536,130	105.0	44,678
106	812,820	155.0	67,735
107	1,065,750	210.0	88,813
108M.	2,093,000	260.0	174,417
109	153,720	18.3	12,810
110	267,947	38.3	22,329
111	205,508	51.7	17,126
112	837,181	93.3	69,765
113	1,044,362	128.3	87,030
114	724,500	172.5	60,037
118	653,994	36.7	54,500
119	1,416,100	83.3	118,008
120	1,581,216	126.7	131,768
121	1,478,509	171.7	123,209
122M.	637,000	140.0	53,083
124	330,000	15.0	27,500
127M.	1,205,559	93.0	100,463
128	837,000	75.0	69,750
129M.	675,000	135.0	56,250
135M.	426,360	220.0	35,530
137	3,388,550	275.0	282,379

YARNELL PROJECT - Table 2 - Total Waste Zone Above "B" Zone

Triangle No.	Volume ft.^{3}	Thickness ft.	Tons
138	3,220,368	291.7	268,364
145M.	518,700	285.0	43,225
146M.	862,750	290.0	71,896
147M.	769,500	285.0	64,125
148	1,354,850	245.0	112,904
149	57,015	35.0	4,751
150	221,242	16.7	18,437
151M.	23,000	5.0	1,917
152M.	15,313	2.5	1,276
153M.	None	-	-
154M.	None	-	-
156M.	None	-	-
162M.	1,361,619	63.0	113,468
163M.	362,700	65.0	30,225
165M.	135,000	30.0	11,250
166M.	101,500	5.0	8,458
167M.	82,500	5.0	6,875
168M.	None	-	-
169M.	1,449,000	23.0	120,750
170M.	None	-	-

Back-Slope, 50°, from bottom of block floor
Zone Section in ft.^{2} X length, ft. = ft.^{3}

From NE end, East of Line 3	198,000	30.0	16,500
Line 3-4	1,073,250	90.0	89,438
Line 4-5	2,050,500	100.0	170,875
Line 5-6	2,776,800	100.0	231,392
Line 6-7	3,516,625	125.0	293,052
Line 7-8	5,004,500	100.0	417,042
Line 8-9	5,382,450	90.0	448,538
Line 9-10	4,951,560	120.0	412,630
Line 10-11	2,971,430	110.0	247,619
Line 11-12	3,765,160	245.0	313,763
Line 12-13	3,586,275	135.0	298,856
Line 13-14	2,430,635	145.0	202,553
Line 14-15	3,551,213	205.0	295,935
Line 15-16	2,882,000	200.0	240,167
TOTAL WASTE TONS			12,671,085

YARNELL PROJECT

Yavapai County, Arizona

Table 3 - Upper "A" Zone

Using 12.0 ft.^{3}/ton factor

Triangle No.	Volume ft.^{3}	Thickness ft.	Tons	Grade oz/ton
1	None	-	-	-
2	198,135	33.3	16,511	0.022
3	743,325	58.3	61,944	0.019
4	78,204	13.3	6,517	0.017
5	80,798	13.3	6,733	0.017
6	28,500	5.0	2,375	0.011
7	89,600	20.0	7,467	0.012
8	106,861	28.3	8,905	0.014
9	115,889	28.3	9,657	0.014
10	175,500	45.0	14,625	0.017
11	206,550	45.0	17,213	0.017
12	280,292	63.3	23,358	0.017
13	249,339	63.3	20,778	0.017
14	174,604	31.7	14,550	0.017
15	231,602	33.3	19,300	0.022
16	627,483	58.3	52,290	0.019
17	1,335,150	90.0	111,263	0.020
18	106,880	16.7	8,907	0.014
19	96,570	33.3	8,048	0.020
20	187,537	36.7	15,628	0.018
21	251,686	68.3	20,974	0.019
22	177,434	51.7	14,786	0.017
23	198,203	73.3	16,517	0.016
24	225,243	83.3	18,770	0.014
25	292,607	78.2	24,384	0.015
26	369,628	108.3	30,802	0.017
27	321,060	106.7	26,755	0.014
28	290,000	100.0	24,167	0.017
29	368,550	70.0	30,713	0.016
30	948,294	103.3	79,025	0.019
31	539,500	100.0	44,958	0.018
32	560,648	126.7	46,721	0.016
33	366,153	111.7	30,513	0.016

YARNELL PROJECT - Table 3 - Upper "A" Zone

Triangle No.	Volume ft.^{3}	Thickness ft.	Tons	Grade oz/ton
34	832,428	121.7	69,369	0.016
35	1,374,093	128.3	114,508	0.020
36	153,900	45.0	12,825	0.019
37	175,500	45.0	14,625	0.018
38	188,825	65.0	15,735	0.019
39	291,550	85.0	24,296	0.015
40	396,694	91.7	33,058	0.012
41	485,510	103.3	40,459	0.013
42	442,911	91.7	36,909	0.013
43	228,169	48.3	19,014	0.015
44	486,115	81.7	40,510	0.014
45	439,263	78.3	36,605	0.013
46	755,123	103.3	62,927	0.021
47	513,040	58.3	42,753	0.019
48	309,890	33.3	25,824	0.014
49	109,733	36.7	9,144	0.020
50	181,125	48.3	15,094	0.018
51	317,492	66.7	26,458	0.015
52	520,200	90.0	43,350	0.011
53	330,625	115.0	27,552	0.011
54	292,215	105.0	24,351	0.012
55	248,900	100.0	20,742	0.011
56	221,400	90.0	18,450	0.012
57	348,000	100.0	29,000	0.011
58	268,158	71.7	22,347	0.012
59	365,183	66.7	30,432	0.013
60	243,600	40.0	20,300	0.017
61	341,250	65.0	28,438	0.016
62	317,250	45.0	26,438	0.015
63	None	-	-	-
64	83,300	20.0	6,942	0.025
65	82,250	25.0	6,854	0.012
66	248,820	55.0	20,735	0.016
67	226,709	47.3	18,892	0.014
68	78,069	37.3	6,506	0.015
69	239,212	75.7	19,934	0.012
70	142,857	40.7	11,905	0.014
71	239,100	75.0	19,925	0.010
72	360,375	75.0	30,031	0.010
73	338,675	95.0	28,223	0.012
74	181,125	48.3	15,094	0.015
75	253,125	45.0	21,094	0.017
76	245,618	38.3	20,468	0.013
77	248,184	38.3	20,682	0.013
78	180,250	35.0	15,021	0.011
79A	None	-	-	-

YARNELL PROJECT - Table 3 - Upper "A" Zone

Triangle No.	Volume ft.^{3}	Thickness ft.	Tons	Grade oz/ton
79B	None	-	-	-
80A	75,650	25.0	6,304	0.012
80B	62,400	25.0	5,200	0.012
81	None	-	-	-
82	155,951	37.3	12,996	0.015
83M.	None	-	-	-
84	None	-	-	-
86M.	None	-	-	-
87M.	68,843	12.3	5,737	0.022
88	114,169	12.3	9,514	0.022
90M.	55,977	12.3	4,665	0.022
91	151,300	20.0	12,608	0.020
92	148,575	28.3	12,381	0.011
93	117,445	28.3	9,787	0.011
94	104,160	21.7	8,680	0.011
95	79,800	13.3	6,650	0.023
96	195,571	33.3	16,298	0.022
97	145,000	20.0	12,083	0.021
98	375,300	41.7	31,275	0.016
99	618,120	45.0	51,510	0.017
100	216,353	31.7	13,522 (3/4)	0.011
101	None	-	-	-
102	None	-	-	-
103	79,800	13.3	6,650	0.023
104	35,963	13.3	2,997	0.023
105	153,180	30.0	12,765	0.018
106	262,200	50.0	12,850	0.019
107	203,000	40.0	16,917	0.019
108	537,880	35.0	22,412 (1/2)	0.014
109	None	-	-	-
110	None	-	-	-
111	None	-	-	-
112	None	-	-	-
113	135,938	16.7	11,328	0.014
114	110,938	16.7	6,934 (3/4)	0.014
118	None	-	-	-
119	None	-	-	-
120	None	-	-	-
121	None	-	-	-
122	None	-	-	-
124	None	-	-	-
127	None	-	-	-
128	371,628	33.3	30,969	0.022
129	623,034	76.7	25,960 (1/2)	0.013
135	1,158,690	130.0	48,279 (1/2)	0.021
136	1,228,500	105.0	102,375	0.023

YARNELL PROJECT - Table 3 - Upper "A" Zone

Triangle No.	Volume ft.^{3}	Thickness ft.	Tons	Grade oz/ton
137	1,108,980	90.0	92,415	0.023
138	422,832	38.3	35,236	0.021
144	253,700	20.0	6,977 (1/3)	0.016
145	183,300	20.0	7,638 (1/2)	0.016
146	139,360	20.0	5,807 (1/2)	0.012
147	208,000	20.0	8,667 (1/2)	0.012
148	193,550	35.0	16,129	0.011
149	46,101	28.3	3,842	0.015
150	155,002	11.7	12,917	0.015
151	None	-	-	-
152	None	-	-	-
153	None	-	-	-
154	None	-	-	-
156	None	-	-	-
162	None	-	-	-
163	None	-	-	-
165	None	-	-	-
166	None	-	-	-
167	None	-	-	-
168	None	-	-	-
169	None	-	-	-
170	None	-	-	-
			2,738,247	46,875,871 Ton-ozs.
TOTAL UPPER "A"			2,738,247	0.017 opt gold

YARNELL PROJECT

Yavapai County, Arizona

Table 4 - Main "B" Zone

Using 12.0 ft.^{3}/ton factor

Triangle No.	Volume ft.^{3}	Thickness ft.	Tons	Grade oz/ton
1	87,375	23.3	7,281	0.037
2	208,250	35.0	17,354	0.057
3	382,500	30.0	31,875	0.068
4	117,600	20.0	9,800	0.037
5	182,250	30.0	15,188	0.035
6	189,810	33.3	15,818	0.047
7	149,184	33.3	12,432	0.051
8	119,699	31.7	9,975	0.054
9	232,187	56.7	19,349	0.054
10	221,130	56.7	18,428	0.050
11	191,403	41.7	15,950	0.043
12	280,292	63.3	23,358	0.047
13	308,424	78.3	25,702	0.051
14	505,084	91.7	42,090	0.041
15	486,850	70.0	40,571	0.044
16	681,298	63.3	56,775	0.049
17	989,495	66.7	82,458	0.041
18	298,880	46.7	24,907	0.050
19	169,070	58.3	14,089	0.047
20	255,500	50.0	21,292	0.054
21	190,515	51.7	15,876	0.057
22	205,920	60.0	17,160	0.055
23	211,723	78.3	17,644	0.045
24	256,880	95.0	21,407	0.044
25	373,700	100.0	31,142	0.048
26	290,105	85.0	24,175	0.045
27	280,740	93.3	23,395	0.046
28	232,000	80.0	19,333	0.047
29	667,076	126.7	55,590	0.039
30	994,194	108.3	82,850	0.036
31	557,304	103.3	46,442	0.040
32	339,398	76.7	28,283	0.036
33	180,290	55.0	15,024	0.047

YARNELL PROJECT - Table 4 - Main "B" Zone

Triangle No.	Volume ft.^{3}	Thickness ft.	Tons	Grade oz/ton
34	490,428	71.7	40,869	0.037
35	856,800	80.0	71,400	0.038
36	188,100	55.0	15,675	0.054
37	188,370	48.3	15,698	0.050
38	154,837	53.3	12,903	0.045
39	205,800	60.0	17,150	0.039
40	331,840	76.7	27,650	0.056
41	438,510	93.3	36,543	0.059
42	474,789	98.3	39,566	0.058
43	551,291	116.7	45,941	0.044
44	535,500	90.0	44,625	0.045
45	532,950	95.0	44,413	0.048
46	402,050	55.0	33,504	0.055
47	674,960	76.7	56,247	0.056
48	728,660	78.3	60,722	0.055
49	144,417	48.3	12,035	0.049
50	137,625	36.7	11,469	0.049
51	238,000	50.0	19,833	0.051
52	414,426	71.7	34,536	0.064
53	258,750	90.0	21,563	0.068
54	278,300	100.0	23,192	0.061
55	211,565	85.0	17,630	0.058
56	233,700	95.0	19,475	0.051
57	324,684	93.3	27,057	0.047
58	436,458	116.7	36,372	0.043
59	547,500	100.0	45,625	0.048
60	639,450	105.0	53,288	0.052
61	350,175	66.7	298,181	0.060
62	434,985	61.7	36,249	0.055
63	371,371	58.3	30,948	0.083
64	242,820	58.3	20,235	0.076
65	153,643	46.7	12,804	0.092
66	263,749	58.3	21,979	0.085
67	340,303	71.0	28,359	0.078
68	124,115	59.3	10,343	0.075
69	245,532	77.7	20,461	0.053
70	272,727	77.7	22,727	0.049
71	265,560	83.3	21,130	0.050
72	352,207	73.3	29,351	0.054
73	237,786	66.7	19,815	0.060
74	181,125	48.3	15,094	0.058
75	243,563	43.3	20,297	0.049
76	213,553	33.3	17,796	0.047
77	205,416	31.7	17,118	0.041
78	145,745	28.3	12,145	0.048
79A	93,375	25.0	7,781	0.103

YARNELL PROJECT - Table 4 - Main "B" Zone

Triangle No.	Volume ft.^{3}	Thickness ft.	Tons	Grade oz/ton
79B	81,250	25.0	6,771	0.109
80A	95,924	31.7	7,994	0.055
80B	79,123	31.7	6,594	0.060
81	85,973	18.3	7,164	0.114
82	206,123	49.3	17,177	0.049
83M.	311,355	45.0	25,946	0.084
84	209,420	28.3	17,452	0.084
86M.	319,800	53.3	26,650	0.069
87M.	294,962	52.7	24,580	0.065
88	643,243	69.3	53,604	0.044
90M.	277,611	61.0	23,134	0.054
91	478,865	63.3	39,905	0.048
92	297,675	56.7	24,806	0.049
93	200,445	48.3	16,704	0.049
94	192,000	40.0	16,000	0.045
95	349,800	58.3	29,150	0.063
96	313,031	53.3	26,086	0.047
97	362,500	50.0	30,208	0.037
98	360,000	40.0	30,000	0.045
99	366,751	26.7	30,563	0.043
100M.	39,000	30.0	3,250	0.069
101	215,129	23.3	17,927	0.085
102	247,260	31.7	20,605	0.075
103	280,200	46.7	23,350	0.073
104	157,643	58.3	13,137	0.054
105	315,040	61.7	26,253	0.051
106	235,980	45.0	19,665	0.047
107	143,623	28.3	11,969	0.029
108M.	181,125	22.5	15,094	0.054
109	363,720	43.3	30,310	0.058
110	431,653	61.7	35,971	0.048
111	245,258	61.7	20,438	0.043
112	672,975	75.0	56,081	0.044
113	502,238	61.7	41,853	0.045
114M.	210,000	50.0	17,500	0.043
118	1,188,594	66.7	99,050	0.048
119	765,000	45.0	63,750	0.042
120	665,184	53.3	55,432	0.043
121	415,911	48.3	34,659	0.034
122M.	91,000	20.0	7,583	0.049
124	1,282,600	58.3	106,883	0.054
127M.	388,890	30.0	32,408	0.049
128	279,000	25.0	23,250	0.075
129M.	125,000	25.0	10,417	0.060
135M.	77,520	40.0	6,460	0.057
136	468,000	40.0	39,000	0.065

YARNELL PROJECT - Table 4 - Main "B" Zone

Triangle No.	Volume ft.^{3}	Thickness ft.	Tons	Grade oz/ton
137	513,827	41.7	42,819	0.041
138	607,200	55.0	50,600	0.046
144	507,400	40.0	42,283	0.052
145M.	118,300	65.0	9,858	0.049
146M.	89,250	30.0	7,438	0.050
147M.	54,000	20.0	4,500	0.050
148	258,251	46.7	21,521	0.057
149	92,364	56.7	7,697	0.049
150	751,162	56.7	62,597	0.049
151M.	92,000	20.0	7,667	0.064
152M.	321,563	52.5	26,797	0.060
153M.	813,484	68.0	67,790	0.055
154M.	580,000	50.0	48,333	0.049
156M.	172,500	50.0	14,375	0.049
162M.	389,034	18.0	32,420	0.072
163M.	97,650	17.5	8,139	0.063
165M.	36,000	8.0	3,000	0.084
166M.	852,600	42.0	71,050	0.049
167M.	693,000	42.0	57,750	0.053
168M.	362,250	23.0	30,188	0.059
169M.	2,835,000	45.0	236,250	0.048
170M.	400,125	27.5	33,344	0.057
TOTALS		271,014,989.8 ft.-tons	4,361,005 tons	223,912,203 ton-oz.
TOTAL		62.1 vertical	4,361,005 tons	0.051 opt gold
Previously Mined			250,000	0.051
Total Remaining		53.8 Perpendicular to YF structure	4,111,005 tons	0.051 opt gold

YARNELL PROJECT

Yavapai County, Arizona

Table 5 - Total Grade Intervals and Contained Tons in "B" Zone

Oz./Ton Grade	Tons	Oz.-Ton
0.029	11,969	347,101
0.034	34,659	1,178,406
0.035	15,188	531,580
0.036	111,133	4,000,788
0.037	88,158	3,261,846
0.038	71,400	2,713,200
0.039	72,740	2,836,860
0.040	46,442	1,857,680
0.041	184,485	7,563,885
0.042	63,750	2,677,500
0.043	176,255	7,578,965
0.044	217,604	9,574,576
0.045	187,200	8,424,000
0.046	73,995	3,403,770
0.047	178,226	8,376,622
0.048	544,501	26,136,048
0.049	435,891	21,358,659
0.050	92,101	4,605,050
0.051	103,695	5,288,445
0.052	95,571	4,969,692
0.053	78,211	4,145,183
0.054	253,890	13,710,060
0.055	223,419	12,288,045
0.056	83,897	4,698,232
0.057	94,555	5,389,635
0.058	102,600	5,950,800
0.059	66,731	3,937,129
0.060	92,804	5,568,240
0.061	23,192	1,414,712
0.062	-	-
0.063	37,288	2,349,144
0.064	42,203	2,700,992
0.065	63,580	4,132,700
0.066	-	-

YARNELL PROJECT - Table 5 - Total Grade Intervals and and Contained Tons in "B" Zone

Oz./Ton Grade	Tons	Oz.-Ton
0.067	-	-
0.068	53,438	3,633,784
0.069	29,900	2,063,100
0.070	-	-
0.071	-	-
0.072	32,420	2,334,240
0.073	23,350	1,704,550
0.074	-	-
0.075	54,198	4,064,850
0.076	20,235	1,537,860
0.077	-	-
0.078	28,359	2,212,002
0.079	-	-
0.080	-	-
0.081	-	-
0.082	-	-
0.083	30,948	2,568,684
0.084	46,398	3,897,432
0.085	39,906	3,392,010
-	-	-
0.092	12,804	1,177,968
-	-	-
0.103	7,781	801,443
-	-	-
0.109	6,771	738,039
-	-	-
0.114	7,164	816,696
	4,361,005 at 0.051	223,912,203

11-13-89

Nov ~~13~~ 13-19

RLB in town (Phoenix-yarnell)

3 copies Redrafted map

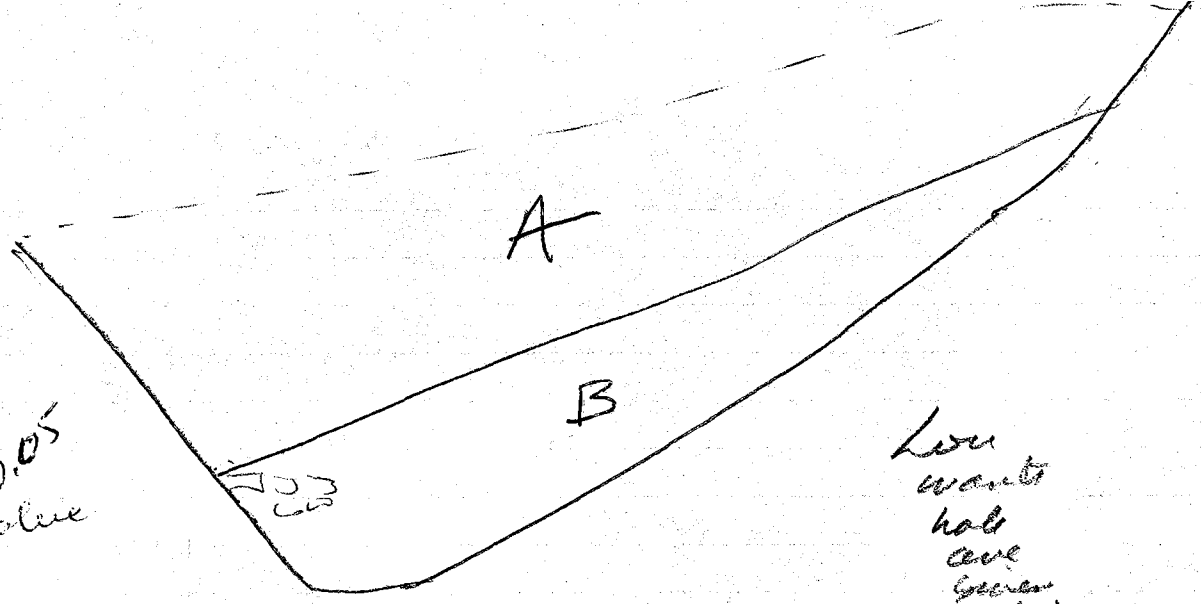
B zone
discovery points of claims
w/ pt-assay

Outline pit

One Specimen for Woods
so get.

10-24
Will
Do

Nov
5-8 meeting



Zero zone should be one side of all others

0.05 are "B" zero value

Lou wants hole area given to him in stop area

Lou Jansen

Inventory of B + A only within the outline provided by JDSell.

Inventory will be sized on Lou Jansen 20' trucks

Inventory be accumulated:

		TICKS	ONE-TENTH
.0 – .0099	0 – .0099	.05	.001
.01 – .015	01 – .015	.3	.012
.015 – .02	015 – .02		
.02 – .05	02 – 03		
.05 – 1	– 03 – 04		
> 1	04 – .05		
	.05 – .06		
	06 – 07		
	07 – .1		
	> .1		

12.327	2.6	=	162.24 #/c
12.09	2.65		165.36 #/cusic
12.5	2.56		160

2.47 = 164.61

RLB fly to Phoenix on 13th ← take mag
talk to JHG 8AM on early 14th
Go up to Yarnell w/ Mike & MAP
& back to Phoenix.
2 Reservations of H. Johnson & phone
for 13th - ~~[illegible]~~ & ? 14th.

Have Addison A
Fax to Brown

FAX
redo yearly expenditures to consolidate incl. 5000 - Aug Sept

~~Ch Ellie~~ WLK call RLB ~~TG~~

~~Ridge Knighton~~
Carmen Dunn Ridgecrest
619 - 446 - 7910

$5000 for BD-3

No Problem on Yellow Jacket to Commission
informal request concurrent with everyone else

Make TG Royal Sun Tuesday night 14
very late

~~882-5526~~ 422-8871

Done

Yarnell 150 more?

2,760,247	46,875.871
4,029,722	205,515.822
6,789,969	252,391.693
.037	

10-30-89

FTG in Tucson Wed 15th Nov — Thur 16th reservations made Royal Sun 10/30

1) Wed Tacks

2) Thur Tacks WLK, JTS, HGK Lunch FTG & Sandy mytes

Accepted handshake of talked in front of the 4 of us.

Charlie Jim Fred

OK w/ CMM AIPG dinner Thursday

AIPG dinner that night

OK by CMM, back late Thursday.

11-13-89

Lou:

Can you give me (4/or Wik) to give to Don a printout of the following holes in Section with Histogram.

1) N50W 45-18-19-44-28

2) N50W Open-Cut-14-64-3-90-89-88-17-87-31

3) N50W 68-50-53-11-46-29

4) N40E 43-18-59-84-55-79-70-64-71-25-73-93-68-66

5) N40E 35-21-32-44-8-39-40-88-78-6-10-47-11-49-48.

1" = 50'

JWell

YARNELL CLAIMS

1. LAYTON - Purchase for advance royalty payments

April 21, 1989	-	$10,000
April 21, 1990	-	15,000
April 21, 1991	-	25,000
April 21, 1992	-	40,000
April 21, 1993	-	60,000
April 21, 1994	-	100,000
		$250,000

A. 1% NSR - commercial production

B. Attempt to patent claims

C. 50% of land will be quit claimed back @ end of operation

D. unpatented claims - Victoria 1 thru 5, two(2) most northern (?) (Only 1 exists) Black Dikes, Thunder Hill and Kachina Doll.

E. First right of refusal other unpatented claims in area

2. WESTERN BUILDING - (Option to purchase expires 1-1-93)

Purchase payments -

3,000	-	Upon execution
1,000	-	March 1, 1989
100,000	-	January 1, 1990
100,000	-	[illegible] 1, 1991

3 HEINTZELMAN Total sum $15,000 for option to purchase.

Executed 6-30-89

$5,000 upon execution
5,000 on or before 6 mo. after agreement
5,000 " " " 12 mo " "
$15,000

To maintain option in effect
a) $12,500 on or before 18 mo. after agreement
b) $12,500 " " " 24 " " "
c) 10,000 " " " 36 " " "
$35,000

A. No NSR

cc: J.W. Sell FILE

New York, N.Y., November 13, 1989

ASARCO Incorporated

NOV 1 5 1989

SW Exploration

MEMORANDUM FOR T. C. Osborne

Yarnell Project
Arizona

At a recent meeting attended by Messrs. Kupsch, Kurtz, Sell, Lakoski and myself, the passage of responsibility for the Yarnell Project from the Exploration Department to the Mining Department was organized. It was agreed during the meeting that I would submit a supplemental exploration appropriation covering the remaining Exploration Department costs, land costs to the end of February 1990 and Mining Department costs to be incurred through the completion of the first phase broad brush, feasibility study, also due by the end of February 1990. It was agreed that this appropriation request would be substituted for the request Mr. Sell had submitted and was then pending on my desk. Exploration drilling has been completed.

Ninety-two rotary holes and 4 diamond drill holes, totalling about 26,000 ft. have been drilled. Large column leaching tests, designed to determine recovery from various-sized material are now about complete although final recovery figures await completion of detailed assays of leached tail material in the columns and are not yet complete. Preliminary recovery numbers are about 68%.

At current metal prices the mineral inventory is about 9.7 million tons, grading about .031 opt, at a stripping ratio of 3 waste to 1 ore.

Exploration Department expenditures in excess of those already approved are estimated to be $202,000. Land payments include a $20,000 payment soon to be made to Norgold, the lessor/joint venture partner, a $103,000 payment to the underlying lessor, Western Building, and a $5,000 payment to the owner of 1 claim. Two landowners who have ground in the vicinity of a proposed plant site have agreed to sell out for a total of $6,500. Total land payments to the end of February will be $134,500. These costs are detailed on the attached sheet.

Mining Department estimates are that the cost of detailed metallurgical study, preliminary plant design, environmental testing of heap sites, surveying and other activities will cost a total of $117,700. The total of all these costs is $454,200. Authority to spend this money is requested.

R. L. Brown

R. L. Brown

RLB:mc
Att.
cc: W.L. Kurtz

Questions & Answers
to Rob - Computer Gp
11-13-89

TABLE 1

Yarnell Project

Drill Holes with Openings - Grade Assignment

Drilling at Yarnell has encountered open stopes in the main, "B," zone mineralization where no sample was available for assay or some values suspect. Assign these zones the following assays in calculating the mineral inventory of the complete main mineralized "B" zone.

Hole No.	Footage		Assigned Assay, oz Au	
YM-1	100 - 120	4	0.053 ✓	
YM-2	200 - 240	8	0.049 ✓	
YM-5	295 - 335	8	0.041 ✓	
YM-7	220 - 230	2	0.047 ✓	
YM-12	180 - 195	~~3~~ 4	0.039 ✓	
YM-16	65 - 70	1	0.039 ✓	
YM-24	65 - 75	2	0.093 ✓	
YM-55	150 - 165	3	0.050 ✓	
YM-57	50 - 60	2	0.035 ✓	
YM-61	175 - 190	3	0.037 ✓	
YM-62	250 - 290	~~8~~ 1	0.040 ✓	
YM-76	75 - 90	3	0.034 ✓	
YM-77	107 - 120	3	0.048 ✓	
YM-83	205 - 225	~~4~~ 1	0.044 ✓	
YM-91	95 - 180	17	0.051*	— Data Extend only to 150'
YM-94	127 - 135	2	0.086	— Data Not present in file.

extend to 150'

Give Rob hole by assay

* Note: All assays recorded in this interval are suspect, use assigned value for entire "B" zone interval.

Non highlit Values Still 0.00 in Sanson inventory 11/13/89

						Fr	To		Current Au	New Au	
100255.50	49875.40	5078.50	YM-1	220.0	0.0180.0	100.0	105.0	0.0	-1.000	0.053	
100255.50	49875.40	5078.50	YM-1	220.0	0.0180.0	105.0	110.0	0.0	-1.000	0.053	
100255.50	49875.40	5078.50	YM-1	220.0	0.0180.0	110.0	115.0	0.0	-1.000	0.053	
100255.50	49875.40	5078.50	YM-1	220.0	0.0180.0	115.0	120.0	0.0	-1.000	0.053	
100490.70	49860.60	5063.00	YM-2	350.0	0.0180.0	200.0	205.0	0.0	-1.000	0.049	
100490.70	49860.60	5063.00	YM-2	350.0	0.0180.0	205.0	210.0	0.0	-1.000	0.049	
100490.70	49860.60	5063.00	YM-2	350.0	0.0180.0	210.0	215.0	0.0	-1.000	0.049	
100490.70	49860.60	5063.00	YM-2	350.0	0.0180.0	215.0	220.0	0.0	-1.000	0.049	
100490.70	49860.60	5063.00	YM-2	350.0	0.0180.0	220.0	225.0	0.0	-1.000	0.049	
100490.70	49860.60	5063.00	YM-2	350.0	0.0180.0	225.0	230.0	0.0	-1.000	0.049	
100490.70	49860.60	5063.00	YM-2	350.0	0.0180.0	230.0	235.0	0.0	-1.000	0.049	
100490.70	49860.60	5063.00	YM-2	350.0	0.0180.0	235.0	240.0	0.0	-1.000	0.049	
100437.10	49565.20	5041.80	YM-5	370.0	0.0180.0	295.0	300.0	0.0	-1.000	0.041	
100437.10	49565.20	5041.80	YM-5	370.0	0.0180.0	300.0	305.0	0.0	-1.000	0.041	
100437.10	49565.20	5041.80	YM-5	370.0	0.0180.0	305.0	310.0	0.0	-1.000	0.041	
100437.10	49565.20	5041.80	YM-5	370.0	0.0180.0	310.0	315.0	0.0	-1.000	0.041	
100437.10	49565.20	5041.80	YM-5	370.0	0.0180.0	315.0	320.0	0.0	-1.000	0.041	
100437.10	49565.20	5041.80	YM-5	370.0	0.0180.0	320.0	325.0	0.0	-1.000	0.041	
100437.10	49565.20	5041.80	YM-5	370.0	0.0180.0	325.0	330.0	0.0	-1.000	0.041	
100437.10	49565.20	5041.80	YM-5	370.0	0.0180.0	330.0	335.0	0.0	0.004	0.041	
100260.50	49471.60	4986.90	YM-7	292.0	0.0180.0	220.0	225.0	0.0	-1.000	0.047	
100356.50	49788.40	5073.60	YM-12	0.0	0.0180.0	180.0	183.0	0.0	0.008	0.039	
100356.50	49788.40	5073.60	YM-12	0.0	0.0180.0	183.0	190.0	0.0	-1.000	0.039	
100356.50	49788.40	5073.60	YM-12	0.0	0.0180.0	190.0	195.0	0.0	-1.000	0.039	
100383.90	50017.00	5057.10	YM-16	0.0	0.0180.0	65.0	70.0	0.0	-1.000	0.039	
100383.90	50017.00	5057.10	YM-16	0.0	0.0180.0	80.0	85.0	0.0	-1.000	-1.000	0.39
100062.90	49349.40	4893.50	YM-24	0.0	0.0180.0	65.0	70.0	0.0	-1.000	0.093	
100062.90	49349.40	4893.50	YM-24	0.0	0.0180.0	70.0	75.0	0.0	-1.000	0.093	
100063.10	49533.70	4947.30	YM-25	0.0	0.0180.0	20.0	25.0	0.0	-1.000	-1.000	0.007
100063.10	49533.70	4947.30	YM-25	0.0	0.0180.0	45.0	50.0	0.0	-1.000	-1.000	0.015
100427.50	49139.40	4911.00	YM-26	0.0	0.0180.0	5.0	10.0	0.0	-1.000	-1.000	0.002
100427.50	49139.40	4911.00	YM-26	0.0	0.0180.0	15.0	20.0	0.0	-1.000	-1.000	0.002
100427.50	49139.40	4911.00	YM-26	0.0	0.0180.0	25.0	30.0	0.0	-1.000	-1.000	0.002
100427.50	49139.40	4911.00	YM-26	0.0	0.0180.0	35.0	40.0	0.0	-1.000	-1.000	0.002
100427.50	49139.40	4911.00	YM-26	0.0	0.0180.0	45.0	50.0	0.0	-1.000	-1.000	0.002
100427.50	49139.40	4911.00	YM-26	0.0	0.0180.0	55.0	60.0	0.0	-1.000	-1.000	0.002
100427.50	49139.40	4911.00	YM-26	0.0	0.0180.0	65.0	70.0	0.0	-1.000	-1.000	0.002
100427.50	49139.40	4911.00	YM-26	0.0	0.0180.0	75.0	80.0	0.0	-1.000	-1.000	0.002
100427.50	49139.40	4911.00	YM-26	0.0	0.0180.0	85.0	90.0	0.0	-1.000	-1.000	0.001
100427.50	49139.40	4911.00	YM-26	0.0	0.0180.0	95.0	100.0	0.0	-1.000	-1.000	0.001
100427.50	49139.40	4911.00	YM-26	0.0	0.0180.0	105.0	110.0	0.0	-1.000	-1.000	0.001
100427.50	49139.40	4911.00	YM-26	0.0	0.0180.0	115.0	120.0	0.0	-1.000	-1.000	0.002
100427.50	49139.40	4911.00	YM-26	0.0	0.0180.0	125.0	130.0	0.0	-1.000	-1.000	0.002
100427.50	49139.40	4911.00	YM-26	0.0	0.0180.0	135.0	140.0	0.0	-1.000	-1.000	0.003
100427.50	49139.40	4911.00	YM-26	0.0	0.0180.0	145.0	150.0	0.0	-1.000	-1.000	0.003
100427.50	49139.40	4911.00	YM-26	0.0	0.0180.0	155.0	160.0	0.0	-1.000	-1.000	0.003
100427.50	49139.40	4911.00	YM-26	0.0	0.0180.0	165.0	170.0	0.0	-1.000	-1.000	0.002
100427.50	49139.40	4911.00	YM-26	0.0	0.0180.0	175.0	180.0	0.0	-1.000	-1.000	0.002
100427.50	49139.40	4911.00	YM-26	0.0	0.0180.0	185.0	190.0	0.0	-1.000	-1.000	0.003
100427.50	49139.40	4911.00	YM-26	0.0	0.0180.0	195.0	200.0	0.0	-1.000	-1.000	0.010
100923.00	49436.30	4835.40	YM-27	0.0	0.0180.0	0.0	5.0	0.0	-1.000	-1.000	0.002
100118.70	48832.50	4858.60	YM-29	0.0	0.0180.0	265.0	270.0	0.0	-1.000	-1.000	0.003
100587.80	49594.90	5010.70	YM-39	0.0	0.0180.0	220.0	225.0	0.0	-1.000	-1.000	0.002
100587.80	49594.90	5010.70	YM-39	0.0	0.0180.0	240.0	245.0	0.0	-1.000	-1.000	0.003
100564.30	49330.10	4978.40	YM-41	0.0	0.0180.0	405.0	410.0	0.0	-1.000	-1.000	0.001
100760.10	49454.90	4909.60	YM-42	0.0	0.0180.0	390.0	395.0	0.0	-1.000	-1.000	0.001
100760.10	49454.90	4909.60	YM-42	0.0	0.0180.0	395.0	400.0	0.0	-1.000	-1.000	0.001
100850.20	49780.10	4910.50	YM-44	0.0	0.0180.0	120.0	125.0	0.0	-1.000	-1.000	0.005

						FROM	TO		CURRENT AU	NEW AU	
100194.00	50136.70	5086.00	270E	0.0	0.0180.0	5.0	10.0	0.0	-1.000	-1.000	0.022
100104.50	49097.30	4873.40	YM-47	0.0	0.0180.0	50.0	55.0	0.0	-1.000	-1.000	0.003
100391.20	49885.20	5073.80	YM-55	0.0	0.0180.0	150.0	155.0	0.0	-1.000	0.500	fixed 0.05
100391.20	49885.20	5073.80	YM-55	0.0	0.0180.0	155.0	160.0	0.0	-1.000	0.050	
100391.20	49885.20	5073.80	YM-55	0.0	0.0180.0	160.0	165.0	0.0	-1.000	0.050	
100254.50	50021.20	5090.10	YM-57	0.0	0.0180.0	50.0	55.0	0.0	-1.000	0.035	
100254.50	50021.20	5090.10	YM-57	0.0	0.0180.0	55.0	60.0	0.0	-1.000	0.035	
100254.50	50021.20	5090.10	YM-57	0.0	0.0180.0	60.0	65.0	0.0	-1.000	0.035	
100467.50	50107.50	5009.90	YM-60	0.0	0.0180.0	15.0	20.0	0.0	-1.000	-1.000	0.003
100564.30	49899.70	5036.10	YM-61	0.0	0.0180.0	175.0	180.0	0.0	0.000	0.037	
100564.30	49899.70	5036.10	YM-61	0.0	0.0180.0	180.0	185.0	0.0	0.000	0.037	
100564.30	49899.70	5036.10	YM-61	0.0	0.0180.0	185.0	190.0	0.0	0.000	0.037	
100361.30	49612.90	5039.50	YM-62	0.0	0.0180.0	250.0	290.0	0.0	-1.000	0.040	
100361.30	49612.90	5039.50	YM-62	0.0	0.0180.0	290.0	295.0	0.0	-1.000	-1.000	0.043
100188.00	49738.10	5041.50	YM-64	0.0	0.0180.0	190.0	195.0	0.0	-1.000	-1.000	0.023
99789.80	49232.80	4848.50	YM-68	0.0	0.0180.0	5.0	10.0	0.0	-1.000	-1.000	0.002
100371.20	49213.10	4951.20	YM-69	0.0	0.0180.0	20.0	25.0	0.0	-1.000	-1.000	0.012
100116.00	49610.10	4989.50	YM-76	0.0	0.0180.0	75.0	80.0	0.0	-1.000	0.034	
100116.00	49610.10	4989.50	YM-76	0.0	0.0180.0	80.0	85.0	0.0	-1.000	0.034	
100116.00	49610.10	4989.50	YM-76	0.0	0.0180.0	85.0	90.0	0.0	-1.000	0.034	
100175.70	49536.70	4982.10	YM-77	0.0	0.0180.0	107.0	110.0	0.0	-1.000	0.048	
100175.70	49536.70	4982.10	YM-77	0.0	0.0180.0	110.0	115.0	0.0	-1.000	0.048	
100175.70	49536.70	4982.10	YM-77	0.0	0.0180.0	115.0	120.0	0.0	-1.000	0.048	
100475.40	49755.90	5067.10	YM-80	0.0	0.0180.0	0.0	5.0	0.0	-1.000	-1.000	0.002
100475.40	49755.90	5067.10	YM-80	0.0	0.0180.0	5.0	10.0	0.0	-1.000	-1.000	0.002
100419.10	49805.20	5072.60	YM-83	0.0	0.0180.0	205.0	225.0	0.0	-1.000	0.044	
100419.10	49805.20	5072.60	YM-83	0.0	0.0180.0	275.0	280.0	0.0	-1.000	-1.000	0.001
100483.60	50401.70	4975.90	YM-85	0.0	0.0180.0	45.0	50.0	0.0	-1.000	-1.000	0.001
100636.90	50574.20	5010.20	YM-86	0.0	0.0180.0	40.0	45.0	0.0	-1.000	-1.000	0.001
100636.90	50574.20	5010.20	YM-86	0.0	0.0180.0	110.0	115.0	0.0	-1.000	-1.000	0.001
100636.90	50574.20	5010.20	YM-86	0.0	0.0180.0	120.0	125.0	0.0	-1.000	-1.000	0.001
100636.90	50574.20	5010.20	YM-86	0.0	0.0180.0	125.0	130.0	0.0	-1.000	-1.000	0.001
100636.90	50574.20	5010.20	YM-86	0.0	0.0180.0	135.0	140.0	0.0	-1.000	-1.000	0.001
100477.20	49270.80	4977.50	YM-87	0.0	0.0180.0	95.0	100.0	0.0	-1.000	-1.000	0.001
100477.20	49270.80	4977.50	YM-87	0.0	0.0180.0	135.0	140.0	0.0	-1.000	-1.000	0.001
100477.20	49270.80	4977.50	YM-87	0.0	0.0180.0	150.0	155.0	0.0	-1.000	-1.000	0.001
100365.60	49438.80	5012.30	YM-88	0.0	0.0180.0	55.0	60.0	0.0	-1.000	-1.000	0.007
100365.60	49438.80	5012.30	YM-88	0.0	0.0180.0	200.0	205.0	0.0	-1.000	-1.000	0.003
100365.60	49438.80	5012.30	YM-88	0.0	0.0180.0	280.0	285.0	0.0	-1.000	-1.000	0.141
100365.60	49438.80	5012.30	YM-88	0.0	0.0180.0	360.0	365.0	0.0	-1.000	-1.000	0.003
100292.00	49620.80	5027.00	YM-90	0.0	0.0180.0	260.0	265.0	0.0	-1.000	-1.000	0.001
100292.00	49620.80	5027.00	YM-90	0.0	0.0180.0	315.0	320.0	0.0	-1.000	-1.000	0.001
100257.20	49559.20	5003.30	YM-91	0.0	0.0180.0	95.0	100.0	0.0	0.030	0.051	
100257.20	49559.20	5003.30	YM-91	0.0	0.0180.0	100.0	105.0	0.0	0.004	0.051	
100257.20	49559.20	5003.30	YM-91	0.0	0.0180.0	105.0	125.0	0.0	-1.000	0.051	
100257.20	49559.20	5003.30	YM-91	0.0	0.0180.0	125.0	130.0	0.0	0.024	0.051	
100257.20	49559.20	5003.30	YM-91	0.0	0.0180.0	130.0	140.0	0.0	-1.000	0.051	
100257.20	49559.20	5003.30	YM-91	0.0	0.0180.0	140.0	145.0	0.0	0.003	0.051	
100257.20	49559.20	5003.30	YM-91	0.0	0.0180.0	145.0	150.0	0.0	0.014	0.051	

no data in file for 150'–180' —— use 0.051 150-155
" " 155-160
" " 160-165
" " 165-170
" " 170-175
" " 175-180

Changes Re: SDSell Oct 24, 1989 Table I

100255.50	49875.40	5078.50	YM-1	220.00	0.00	180.00	100.00	105.00	0.00	-1.000	0.053
100255.50	49875.40	5078.50	YM-1	220.00	0.00	180.00	105.00	110.00	0.00	-1.000	0.053
100255.50	49875.40	5078.50	YM-1	220.00	0.00	180.00	110.00	115.00	0.00	-1.000	0.053
100255.50	49875.40	5078.50	YM-1	220.00	0.00	180.00	115.00	120.00	0.00	-1.000	0.053
100490.70	49860.60	5063.00	YM-2	350.00	0.00	180.00	200.00	205.00	0.00	-1.000	0.049
100490.70	49860.60	5063.00	YM-2	350.00	0.00	180.00	205.00	210.00	0.00	-1.000	0.049
100490.70	49860.60	5063.00	YM-2	350.00	0.00	180.00	210.00	215.00	0.00	-1.000	0.049
100490.70	49860.60	5063.00	YM-2	350.00	0.00	180.00	215.00	220.00	0.00	-1.000	0.049
100490.70	49860.60	5063.00	YM-2	350.00	0.00	180.00	220.00	225.00	0.00	-1.000	0.049
100490.70	49860.60	5063.00	YM-2	350.00	0.00	180.00	225.00	230.00	0.00	-1.000	0.049
100490.70	49860.60	5063.00	YM-2	350.00	0.00	180.00	230.00	235.00	0.00	-1.000	0.049
100490.70	49860.60	5063.00	YM-2	350.00	0.00	180.00	235.00	240.00	0.00	-1.000	0.049
100437.10	49565.20	5041.80	YM-5	370.00	0.00	180.00	295.00	300.00	0.00	-1.000	0.041
100437.10	49565.20	5041.80	YM-5	370.00	0.00	180.00	300.00	305.00	0.00	-1.000	0.041
100437.10	49565.20	5041.80	YM-5	370.00	0.00	180.00	305.00	310.00	0.00	-1.000	0.041
100437.10	49565.20	5041.80	YM-5	370.00	0.00	180.00	310.00	315.00	0.00	-1.000	0.041
100437.10	49565.20	5041.80	YM-5	370.00	0.00	180.00	315.00	320.00	0.00	-1.000	0.041
100437.10	49565.20	5041.80	YM-5	370.00	0.00	180.00	320.00	325.00	0.00	-1.000	0.041
100437.10	49565.20	5041.80	YM-5	370.00	0.00	180.00	325.00	330.00	0.00	-1.000	0.041
100437.10	49565.20	5041.80	YM-5	370.00	0.00	180.00	330.00	335.00	0.00	0.004	0.041
100260.50	49471.60	4986.90	YM-7	292.00	0.00	180.00	220.00	225.00	0.00	-1.000	0.047
100356.50	49788.40	5073.60	YM-12	0.00	0.00	180.00	180.00	183.00	0.00	0.008	0.039
100356.50	49788.40	5073.60	YM-12	0.00	0.00	180.00	183.00	190.00	0.00	-1.000	0.039
100356.50	49788.40	5073.60	YM-12	0.00	0.00	180.00	190.00	195.00	0.00	-1.000	0.039
100383.90	50017.00	5057.10	YM-16	0.00	0.00	180.00	65.00	70.00	0.00	-1.000	0.039
100062.90	49349.40	4893.50	YM-24	0.00	0.00	180.00	65.00	70.00	0.00	-1.000	0.093
100062.90	49349.40	4893.50	YM-24	0.00	0.00	180.00	70.00	75.00	0.00	-1.000	0.093
100391.20	49885.20	5073.80	YM-55	0.00	0.00	180.00	150.00	155.00	0.00	-1.000	0.050
100391.20	49885.20	5073.80	YM-55	0.00	0.00	180.00	155.00	160.00	0.00	-1.000	0.050
100391.20	49885.20	5073.80	YM-55	0.00	0.00	180.00	160.00	165.00	0.00	-1.000	0.050
100254.50	50021.20	5090.10	YM-57	0.00	0.00	180.00	50.00	55.00	0.00	-1.000	0.035
100254.50	50021.20	5090.10	YM-57	0.00	0.00	180.00	55.00	60.00	0.00	-1.000	0.035
100254.50	50021.20	5090.10	YM-57	0.00	0.00	180.00	60.00	65.00	0.00	-1.000	0.035
100564.30	49899.70	5036.10	YM-61	0.00	0.00	180.00	175.00	180.00	0.00	0.000	0.037
100564.30	49899.70	5036.10	YM-61	0.00	0.00	180.00	180.00	185.00	0.00	0.000	0.037
100564.30	49899.70	5036.10	YM-61	0.00	0.00	180.00	185.00	190.00	0.00	0.000	0.037
100361.30	49612.90	5039.50	YM-62	0.00	0.00	180.00	250.00	290.00	0.00	-1.000	0.040
100116.00	49610.10	4989.50	YM-76	0.00	0.00	180.00	75.00	80.00	0.00	-1.000	0.034
100116.00	49610.10	4989.50	YM-76	0.00	0.00	180.00	80.00	85.00	0.00	-1.000	0.034
100116.00	49610.10	4989.50	YM-76	0.00	0.00	180.00	85.00	90.00	0.00	-1.000	0.034
100175.70	49536.70	4982.10	YM-77	0.00	0.00	180.00	107.00	110.00	0.00	-1.000	0.048
100175.70	49536.70	4982.10	YM-77	0.00	0.00	180.00	110.00	115.00	0.00	-1.000	0.048
100175.70	49536.70	4982.10	YM-77	0.00	0.00	180.00	115.00	120.00	0.00	-1.000	0.048
100419.10	49805.20	5072.60	YM-83	0.00	0.00	180.00	205.00	225.00	0.00	-1.000	0.044

100257.20	49559.20	5003.30	YM-91	0.00	0.00	180.00	95.00	100.00	0.00	0.030	0.051
100257.20	49559.20	5003.30	YM-91	0.00	0.00	180.00	100.00	105.00	0.00	0.004	0.051
100257.20	49559.20	5003.30	YM-91	0.00	0.00	180.00	105.00	125.00	0.00	-1.000	0.051
100257.20	49559.20	5003.30	YM-91	0.00	0.00	180.00	125.00	130.00	0.00	0.024	0.051
100257.20	49559.20	5003.30	YM-91	0.00	0.00	180.00	130.00	140.00	0.00	-1.000	0.051
100257.20	49559.20	5003.30	YM-91	0.00	0.00	180.00	140.00	145.00	0.00	0.003	0.051
100257.20	49559.20	5003.30	YM-91	0.00	0.00	180.00	145.00	150.00	0.00	0.014	0.051

Questions & Answers
Re Rob - Computer Gp
11-13-89

TABLE 1

Yarnell Project

Drill Holes with Openings - Grade Assignment

Drilling at Yarnell has encountered open stopes in the main, "B," zone mineralization where no sample was available for assay or some values suspect. Assign these zones the following assays in calculating the mineral inventory of the complete main mineralized "B" zone.

Hole No.	Footage		Assigned Assay, oz Au	
YM-1	100 - 120	4	0.053 ✓	
YM-2	200 - 240	8	0.049 ✓	
YM-5	295 - 335	8	0.041 ✓	
YM-7	220 - 230	2	0.047 ✓	
YM-12	180 - 195	~~3~~ 4	0.039 ✓	
YM-16	65 - 70	1	0.039 ✓	
YM-24	65 - 75	2	0.093 ✓	
YM-55	150 - 165	3	0.050 ✓	
YM-57	50 - 60	2	0.035 ✓	
YM-61	175 - 190	3	0.037 ✓	
YM-62	250 - 290	~~8~~ 1	0.040 ✓	
YM-76	75 - 90	3	0.034 ✓	
YM-77	107 - 120	3	0.048 ✓	
YM-83	205 - 225	~~7~~ 1	0.044 ✓	
YM-91	95 - 180	17	0.051*	— Data Extend only to 150'
YM-94	127 - 135	2	0.086	— Data Not present in file.

extend to 180'

Gave Rob hole & assay

* Note: All assays recorded in this interval are suspect, use assigned value for entire "B" zone interval.

JDS FILE

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November 14, 1989

ASARCO Incorporated
NOV 17 1989
SW Exploration

CONFIDENTIAL

Mr. R. L. Brown
Vice President
ASARCO Incorporated
180 Maiden Lane
New York, New York 10038

Re: Yarnell Project - Santa Fe Land

Dear Mr. Brown:

With your October 16, 1989 letter, you provided a map and information regarding a portion of the ore body called the "B Zone" which extends into land owned by Santa Fe Railway within the Juniper claim. A portion of the Juniper patented claim, consisting of a rectangle 150 feet by 500 feet extending northeasterly from the southwest end of the Juniper claim, was conveyed by the then owners of the Juniper claim to the California, Arizona and Santa Fe Railway Company by Warranty Deed dated September 29, 1961 and recorded in Yavapai County at Book 235, Page 8. The Deed also granted an easement for roadway purposes from U.S. Highway 89 to the granted tract, the said easement referring to a microwave site within the granted tract. The Deed made no reference to the conveyance or reservation of any mineral interests. This property, along with other property, was granted by California, Arizona and Santa Fe Railway Company to the Atchison, Topeka and Santa Fe Railway Company by a conveyance dated August 19, 1963 and recorded in Book 299, Page 510.

Except for the northeast line, the Juniper claim boundaries are regular in their dimension and shape. At a point approximately 300 feet northwest from the northeast corner of the claim, the northeast endline turns toward the southwest at an angle of approximately 18 degrees.

Your letter describes the B Zone of mineralization as being coincident in a major way, if not precisely, with the

Yarnell Fault which strikes north 35 degrees east and dips 30 degrees to the southwest. (However, it appears that the dip is actually to the northwest.) The gold mineralization occurs within a zone averaging 60 feet in thickness which follows the surface exposure and the dip in the Yarnell Fault. The zone enters the northeast end of the Santa Fe tract, follows a curved route southwest and westward and exits the northwest side line of the Santa Fe tract approximately 400 feet southwest of the northwest corner.

The B Zone contains little or no quartz stock work but is indurated or silicified with quartz. Most of the ore is above the foot wall of the fault but significant tonnages lie below the foot wall. It is believed that, at one time, the "highpoint" of the mineralization was on the Santa Fe land but it has been mined out from the surface.

We visited the Santa Fe tract on October 23 and have since reviewed the mineral grade cross sections of the Santa Fe tract and along the Yarnell Fault down dip from the Santa Fe tract. The hanging wall of the fault zone exposed in the cut on the Santa Fe tract is very distinct in places and less distinct but visible in others. The foot wall of the fault zone was not exposed on the surface but both the hanging wall and foot wall were detected in the drill holes. The cross sections show the higher gold values to be generally but not exclusively within the fault zone and that the gold ore grades with some significant values above and below the fault zone.

Finally, the map sent with your letter shows that a substantial part of the mineralized zone within the Santa Fe tract also extends to the southeast outside of that tract. We were advised during our visit to the site that more recent information discloses the mineralized zone southeast of the Santa Fe tract to be broader than shown on your map.

The following questions are raised by the foregoing facts:

1. Whether the crooked northeast endline of the Juniper claim affects any extralateral rights in the Santa Fe tract.

2. Whether the ore zone is a type of vein to which extralateral rights apply.

3. Whether the depletion of the top of the ore body within the Santa Fe lands affects any extralateral rights appurtenant to that land.

4. Whether the extension of the broad width of the mineral zone outside of the Santa Fe tract affects any extralateral rights otherwise attached to that tract.

5. Whether any extralateral rights were granted in the conveyance of the portion of the Juniper claim to Santa Fe.

Those questions are addressed as follows:

Irregular Endline

The irregular northeast endline of the Juniper claim raises the question of whether any extralateral rights can be attached to that claim. The ASARCO map and the mineral patent plat show that northeast endline to bend one-half way along its length at an angle of approximately 18 degrees. The general rule is that the endlines of a mining claim must be parallel in order to pursue extralateral rights from the mining claim. The courts have made various exceptions to this rule causing the effect of nonparallelism of sidelines to be somewhat uncertain. See 2 Am. L. of Mining § 37.02[4] (2d ed. 1984). However, to accommodate situations in which it is impossible to create straight parallel endlines because patented or unpatented senior claims intrude into the area, endlines are allowed to be placed over the senior claim in order to establish the parallelism even though the overlapping area remains with the senior claim. Id.

This appears to be the situation with the Juniper claim. Its original location notice describes the claim as having regular 1,500 feet by 600 feet dimensions with no bend in the northeast endline. However, the patent survey describes the bend of the northeast end line as following the south sideline of the Way Up mining claim. Therefore, it appears that the Juniper claim was originally located with parallel end lines and the bend in the northeast end line of the patented Juniper claim would not eliminate any extralateral rights of that claim.

Type of Vein

Veins to which extralateral rights may apply include both discrete intrusions with sharply defined boundaries as well as mineralized zones grading into less mineralized zones the boundaries of which may not be visually apparent but can be established by assay or analysis. 1 Am. L. of Mining § 32.02[2] (2d ed. 1984). The description of the B Zone mineralization would appear to make it qualify as a vein which could support extralateral rights for two reasons. First, the highest grade mineralization is found within the Yarnell fault zone the planes of which, at least in parts, are visually apparent. Secondly, the ASARCO cross section shows that the boundaries of the ore zone which extend outside of the fault zone can be established by assays of the drilling samples.

Mining Out of the Apex

The fact that the top part of a vein (the apex) has been entirely depleted does not affect the right of a person who owns the land which contained the apex to follow the extralateral extension of the vein. The extralateral right attaches upon the valid location of a mining claim. If the exhaustion of the apex zone eliminated the extralateral right, there would be few extralateral rights remaining because mining normally commences at the top of the vein and continues down its dip. See 2 Lindley on Mines § 568 (3d ed. 1914).

Effect of Broad Apex Extending Outside of the Santa Fe Tract

The ASARCO map shows the ore zone within the Santa Fe tract to widen and extend southeast into portions of the Juniper claim not owned by Santa Fe. Drilling conducted after this map was prepared indicates that an even broader area of the ore zone lies outside of the Santa Fe tract although the greater width of the ore zone remains within the Santa Fe tract. The courts have dealt with analogous situations in which a wide apex of a lode is bisected by the common sideline of two mining claims. In these situations, the majority of the decisions have held that the senior claim has the right to the entire width of the vein in its downward dip and even the part which apexes in the junior claim. The rationale for this rule is that it is impracticable or impossible for each claim owner to mine his own continued longitudinal bisection of the apex throughout its downward dip. Therefore, the reward of the entire vein is given to the senior locator. 1 Am. L. of Mining §§ 32.03[2][b], 37.03 [5] (2d ed. 1984); Kenny, The Law of the Apex, 190 (1914).

We have found no cases applying this rule to a vein apex bisected by a tract of land conveyed from a mining claim as exists in the Santa Fe tract situation. However, because the rationale for the rule would be equally applicable, the stronger argument should be that the rule should also apply to place the original owner of the Juniper claim in the place of the senior locator having the right to mine the entire width of the vein. At the least, this argument might be sufficient, in conjunction with the following discussion, to tip the balance in ASARCO's favor.

Effect of Conveying a Part of the Juniper Claim

As stated above, the Deed to Santa Fe contains no language expressly granting or reserving minerals or extralateral rights from the portion of the Juniper claim which was conveyed. This Deed also granted an easement to the "microwave site". The circumstances revealed in this Deed indicate, and it is likely that there is proof available to establish, that the purpose of Santa Fe in acquiring this land was to establish a microwave facility and that there was no purpose in acquiring the land for mining.

Under established principles of general property law, this Deed would have conveyed to Santa Fe the mineral interests within the verticle boundaries of the conveyed parcel. The question is whether this Deed also conveyed any extralateral rights to Santa Fe. The American Law of Mining makes the following statement:

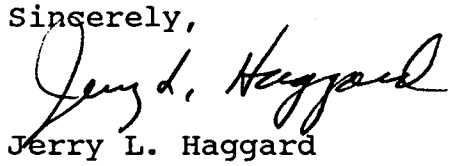
> "Extralateral rights are presumed to pass with a lode conveyance for all deposits apexing within the boundaries of the granted claim . . . Consequently, it is not necessary to provide that a conveyance passes or reserves the minerals, 'together with dips, spurs, angles and extralateral rights'. The use of such language, however, is common and makes it clear to the parties that each may invade the lands of the other in the lawful development of their respective lode claims."

3 Am. L. of Mining § 82.02. This principle has been applied consistently when mining claims and parts of mining claims have been conveyed for mining purposes. See 2 Lindley on Mines § 618 (3d ed. 1914); Kenny, The Law of the Apex, 238-246 (1914). The Supreme Court in Montana Mining Co. stated by dictum that "it is probably not necessary to specify extralateral rights in order that a conveyance of a mining claim be operative to transfer them." Montana Mining Co. v. St. Louis Mining & Milling Co., 204 U.S. 204, 207, 51 L. Ed. 444 (1907).

However, this general rule that mining claim conveyances which are silent respecting extralateral rights are presumed to convey those rights, does not appear to apply to conveyances which are not made for mining purposes. In those cases the nature of the property and its intended use are considered in determining the intent of the parties to a conveyance which is silent respecting the grant or reservation of extralateral rights. In cases in which the intended use of the property conveyed would be unrelated to the existence of extralateral rights and there is no reference to extralateral rights in the conveyance, it is expected that the courts would rule that the extralateral rights were not conveyed. 2 Lindley on Mines § 618a (3d ed. 1914). The only case we have found addressing this issue ruled that the extralateral rights were retained by the grantor. Central Eureka Min. Co. v. East Central Eureka Min. Co., 146 Cal. 147, 79 P. 834 (Cal. 1907). It should be noted, however, that this case did not involve the conveyance of the parcel which contains the apex.

Notwithstanding that it appears that ASARCO does have the stronger position with respect to the extralateral rights questions arising from the Santa Fe tract, it cannot be concluded definitely that ASARCO would hold those rights. Therefore, it would be advisable to avoid possible disruptions of future operations and jeopardy of investments to clarify the question by entering an agreement with Santa Fe as Norgold is presently attempting.

Sincerely,



Jerry L. Haggard
For APKER, APKER, HAGGARD
& KURTZ, P.C.

JLH/jb

cc: James L. Woods, Esq.
Mr. W. L. Kurtz
Mr. S. L. Lakosky, Jr.
Mr. T. E. Scartaccini
Mr. J. D. Sell

ASARCO

Exploration Department
Southwestern United States Division

CERTIFIED MAIL
RETURN RECEIPT

November 15, 1989

Office of the Recorder
Yavapai County
Administration Center
255 E. Gurley Street
Prescott, AZ 86301

Affidavit of Labor
Yavapai/Weaver Mining District
Yavapai County, Arizona

Gentlemen:

Enclosed is Asarco's check of $14.00 as the recording fee for the Affidavit of Labor for the YAR #1, et al unpatented lode claims located in Yavapai/ Weaver Mining District, Yavapai County, Arizona.

Also enclosed is a return, stamped envelope.

Very truly yours,

William D. Gay

William D. Gay
Land Engineer, SWED

WDG:mek
encs.

cc: J.D. Sell
S.L. Lakosky
M.A. Miller
C.L. Snow

ASARCO Incorporated P. O. Box 5747 Tucson, Az 85703-0747
1150 North 7th Avenue (602) 792-3010

AFFIDAVIT OF LABOR PERFORMED
AND IMPROVEMENTS MADE

STATE OF ARIZONA)
) ss
County of Pima)

William D. Gay, being first duly sworn, deposes and says that he is a citizen of the United States and more than twenty-one (21) years of age, and resides in Tucson, County of Pima, State of Arizona, and is personally acquainted with the mining claims situated in the Yarnell/Weaver Mining District, Yavapai County, Arizona, the names and books and pages of record in the office of the County Recorder of Yavapai, Arizona, and the Bureau of Land Management serial number of the Notices of Location whereof are as follows:

	Recording Data		AMC
Name of claim	Book	Page	Serial No.
YAR #1	2131	587-588	294316
YAR #2	2131	589-590	294317
YAR #3	2131	591-502	294318
YAR #4	2131	593-594	294319
YAR #5	2131	595-596	294320
YAR #6	2131	597-598	294321
YAR #7	2131	599-600	294322
YAR #8	2131	601-602	294323
YAR #9	2131	603-604	294324
YAR #10	2131	605-606	294325
YAR #11	2131	607-608	294326
YAR #12	2131	609-610	294327
Amended	2135	263-264	
YAR #13	2131	611-612	294328
YAR #14	2131	613-614	204329
YAR #15	2131	615-616	294330
YAR #16	2131	617-618	294331
YAR #17	2131	619-620	294332
YAR #18	2131	621-622	294333
YAR #19	2131	623-624	294334
YAR #20	2131	625-626	294335
YAR #21	2131	627-628	294336

YAR #22	2131	629-630	294337
Amended	2174	858-959	
YAR #23	2131	631-632	294338
YAR #24	2131	633-634	294339
YAR #25	2131	635-636	294340
Amended	2174	860-861	
YAR #26	2131	637-638	294341
Amended	2174	862-863	
YAR #27	2131	639-640	294342
Amended	2174	864-865	
YAR #28	2131	641-642	294343
Amended	2174	866-867	
YAR #29	2131	643-644	294344
YAR #30	2131	645-646	294345
YAR-31	2155	256	296357
Amended	2158	895-896	
YAR-32	2155	257	296358
Amended	2158	897-898	
YAR-33	2155	258	296359
Amended	2158	899-900	
YAR-34	2155	259	296360
Amended	2158	901-902	
YAR-35	2155	260	296361
Amended	2158	903-904	
YAR-36	2155	261	296362
Amended	2158	905-906	
YAR-37	2155	262	296363
Amended	2158	907-908	
YAR-38	2155	263	296364
Amended	2158	909-910	
YAR-39	2155	264	296365
Amended	2158	911-912	
YAR-41	2178	170	298732
YAR-42	2178	169	298733
YAR-43	2189	128	299488

Located in Sections 14, 15, 22 & 23, T10N, R5W.

That all of said mining claims are owned by ASARCO Incorporated, the mailing address for which is P.O. Box 5747, Tucson, Arizona 85703; that between September 1, 1988 and August 31, 1989, in excess of $4,200 worth of work and improvements were done and performed for the benefit of the aforementioned claims. Work and improvements consisted of drilling by Drilling Services Company, 12030 East Riggs Road, Chandler, Arizona 85249; and road work by Yannuzzi Overland Unlimited, 527 South Church St., Hazelton, Pennsylvania 18201, and Universal Drilling, P.O. Box 593, Yarnell, Arizona 85362.

Said labor was performed and improvements made at the expense of ASARCO Incorporated for the benefit of each and all of said mining claims

comprising said contiguous group as part of a general plan of exploration, improvements and development, and they tend to explore, improve and develop each and all of said mining claims. The amount expended for and the value of said labor and improvements is more that One Hundred Dollars ($100.00) for each of the mining claims and at least said amount was allocated to each of the mining claims. Said expenditure was made in good faith for the purpose of exploring, improving and developing said contiguous group of mining claims, and was intended as annual labor and improvements for each and all of the above-described unpatented lode mining claims for the assessment year ending at 12:00 o'clock Meridian, September 1, 1989.

ASARCO Incorporated

By William D. Gay
Agent

STATE OF ARIZONA)
) ss
County of Pima)

On the 10th day of November, 1989, personally appeared before me William D. Gay, Land Engineer, SWED, ASARCO Incorporated, the signer of the above instrument who duly acknowledged to me that he executed the same.

Kathleen Herrugan
Notary Public

My Commission Expires:

My Commission Expires July 6, 1992

I 10-15-89

YARNELL ORE RESERVES (PRELIMINARY)

All inventories were calculated using a 20 foot block mineralization model and assays of 93 reverse circulation drill holes on approximate 125 foot centers and numerous surface outcrop samples. An ultimate pit slope of 50° and a material density for ore and waste of 12.5 cubic feet per ton were used in all inventories.

Mineralized Inventory Pit Using a Cutoff of 0.010 Opt Au

Greater Than	Tons	Assay	Waste Tons	Strip Ratio	Contained Au
.010 Opt	9,659,000	.031	29,440,000	3.05:1	299,429
.020 Opt	5,196,000	.046	33,903,000	6.52:1	239,016

Mineralized Inventory Pit Using A Cutoff of 0.020 Opt Au

Greater Than	Tons	Assay	Waste Tons	Strip Ratio	Contained Au
.010 Opt	8,748,000	0.033	24,293,000	2.78:1	288,684
.020 Opt	5,196,000	0.046	27,844,000	5.36:1	239,016

Economic Pit (Base Case)

At $350 Au, 67.5% Rec, $1.00 mining cost per ton ore, $1.00 mining cost per ton waste, $3.82 heap leach processing cost per ton of ore and $3.50 smelting cost per recoverable ounce

Tons	Assay	Waste Tons	Strip Ratio	Contained Au	Recoverable Au
2,431,000*	0.054	5,726,000	2.36:1	131,274	88,610

Economic Pit (Case I)

At $350 Au, 67.5% Rec and a 20% reduction in operating costs

Tons	Assay	Waste Tons	Strip Ratio	Contained Au	Recoverable Au
3,632,000*	0.044	6,774,000	1.86:1	159,808	107,870

Economic Pit (Case II)

At $350 Au, 67.5% Rec and a 20% increase in operating costs

Tons	Assay	Waste Tons	Strip Ratio	Contained Au	Recoverable Au
941,000*	.080	2,564,000	2.72:1	75,280	50,814

*These figures have not yet been adjusted for ore tonnage previously mined by underground methods (estimated at 250,000 to 750,000 tons of ore). In addition, no factor for dilution has been assigned yet.

YARNELL DATA (PRELIMINARY)

		CASE I	BASE CASE	CASE II
Ore Tons		3,632,000	2,431,000	941,000
Au Opt		0.044	0.054	0.080
Waste Tons		6,774,000	5,726,000	2,564,000
Strip Ratio		1:86:1	2.36:1	2.72:1
Ore Tons Mined/Day		2,000	2,000	2,000
Ore & Waste Mined/Day		5,720	6,720	7,440
Mine Life (Yrs)		5.04	3.38	1.31
Recoverable Ounces		107,870	88,610	50,814
Recoverable Oz/Yr.		21,403	26,216	38,789
Au Value/Ton Ore @ 350/oz	($)	10.39	12.76	16.54
Total Recoverable Value In Pit	($)	37,754,500	31,013,500	17,784,900
Operating Cost/Ton Ore	($)	5.42	7.31	9.28
Total Operating Cost	($)	19,685,400	17,770,600	8,732,500
Operating Cost/Oz Au	($)	183	200	172
Capital Expenditure - Rough Estimate	($)	6,300,000	6,200,000	5,900,000

300,000 Santa Fe
150,000 management
500,000 Modular Recovery
60,000 Bonds Bonds
200,000 - 500,000 Pads
Power Plant Backup
Site Prep
two haul
monitor wells
400,000 Water Supplying Study
900,000 Water Supplying
Underlying

Operating Costs

Kendall

Crush contract .75 royalty 20	1.01
Engineering	.62
Leaching Labor 48 royalty .17 additional 25	.90
Power	.11
Lab/recovery	.27
Admin (includes cost of sales)	.56
	3.47
Royalties 5% accrued	.71
Taxes. Gross proceeds, mineral, property, reserve idem.	.46

JDS

YARNELL DRILL HOLE SURVEY DATA

DRILL HOLE NUMBER	≥ 20' of .04?	COORDINATES NORTH	COORDINATES EAST	ELEVATION
YM-1	yes	100,255.5	49,875.4	5,078.5
YM-2	yes	100,490.7	49,860.6	5,063.0
YM-3	yes	100,218.5	49,625.8	5,010.7
YM-4	No	100,505.3	49,675.8	5,052.3
YM-5	yes	100,437.1	49,565.2	5,041.8
YM-6	yes	100,278.7	49,286.7	4,949.0
YM-7	yes	100,260.5	49,471.6	4,986.9
YM-8	yes	100,717.9	49,749.2	4,957.9
YM-9	yes	100,734.8	49,577.2	4,930.2
YM-10	No	100,177.0	49,171.1	4,893.9
YM-11	yes	99,998.0	48,983.2	4,874.0
YM-12	yes	100,356.5	49,788.4	5,073.6
YM-13	No	101,099.2	49,909.0	4,810.1
YM-14	yes	100,110.1	49,780.1	5,050.5
YM-15	yes	100,581.8	49,765.5	5,036.8
YM-16	No	100,383.9	50,017.0	5,057.1
YM-17	yes	100,458.2	49,405.8	5,017.2
YM-18	yes	100,637.8	50,002.4	4,990.8
YM-19	yes	100,769.4	49,894.2	4,973.5
YM-20	yes	100,136.5	50,065.9	5,074.7
YM-21	No	101,062.1	50,094.4	4,806.2
YM-22	No	100,172.6	49,027.2	4,884.0
YM-23	yes	100,027.2	49,165.2	4,860.9
YM-24	yes	100,062.9	49,349.4	4,893.5
YM-25	yes	100,063.1	49,533.7	4,947.3
YM-26	yes	100,427.5	49,139.4	4,911.0
YM-27	No	100,923.0	49,436.3	4,835.4
YM-28	yes	100,959.3	49,648.0	4,817.0
YM-29	No	100,118.7	48,832.5	4,858.6
YM-30	yes	100,331.8	49,022.5	4,894.1
YM-31	yes	100,684.2	49,253.6	4,918.6
YM-32	No	100,873.5	49,960.0	4,920.2
YM-33	yes	100,629.8	49,440.8	4,969.7
YM-34	No	101,468.1	49,898.0	4,671.9
YM-35	No	101,181.8	50,199.4	4,729.8
YM-36	No	101,319.7	50,064.8	4,705.2
YM-37	yes	100,178.0	49,314.9	4,925.1
YM-38	No	100,374.7	49,312.5	4,983.9
YM-39	yes	100,587.8	49,594.9	5,010.7
YM-40	yes	100,501.3	49,506.1	5,024.4
YM-41	yes	100,564.3	49,330.1	4,978.4
YM-42	No	100,760.1	49,454.9	4,909.6
YM-43	yes	100,793.2	50,066.0	4,907.9
YM-44	yes	100,850.2	49,780.1	4,910.5
YM-45	yes	100,551.4	50,110.8	4,980.4

> .04 for 20'?

YM-46 No	100,057.8	48,921.0	4,883.5
YM-47 yes	100,104.5	49,097.3	4,873.4
YM-48 yes	99,681.3	48,754.2	4,776.6
YM-49 yes	99,853.3	48,847.1	4,827.6
YM-50 yes	99,861.6	49,155.5	4,818.2
YM-51 No	99,994.7	48,694.1	4,789.0
YM-52 yes	99,996.4	49,214.3	4,854.5
YM-53 yes	99,916.2	49,077.7	4,844.7
YM-54 yes	100,413.6	49,704.6	5,060.0
YM-55 yes	100,391.2	49,885.2	5,073.8
YM-56 yes	100,324.7	49,962.1	5,078.2
YM-57 No	100,254.5	50,021.2	5,090.1
YM-58 No	100,323.3	50,088.3	5,055.8
YM-59 No	100,517.2	50,020.0	5,019.0
YM-60 No	100,467.5	50,107.5	5,009.9
YM-61 yes	100,564.3	49,899.7	5,036.1
YM-62 yes	100,361.3	49,612.9	5,039.5
YM-63 yes	100,306.6	49,701.4	5,045.0
YM-64 yes	100,188.0	49,738.1	5,041.5
YM-65 yes	99,551.4	48,903.2	4,765.6
YM-66 NO	99,378.5	48,923.0	4,764.5
YM-67 yes	99,597.7	48,811.0	4,776.5
YM-68 NO	99,789.8	49,232.8	4,848.5
YM-69 yes	100,371.2	49,213.1	4,951.2
YM-70 yes	100,258.4	49,792.7	5,058.4
YM-71 yes	100,129.8	49,664.8	5,010.7
YM-72 yes	100,016.3	49,691.4	5,008.8
YM-73 yes	99,972.5	49,569.8	4,947.4
YM-74 NO	99,982.5	49,463.8	4,899.1
YM-75 yes	100,096.1	49,233.7	4,880.3
YM-76 NO	100,116.0	49,610.1	4,989.5
YM-77 yes	100,175.7	49,536.7	4,982.1
YM-78 yes	100,309.6	49,381.9	4,985.8
YM-79 yes	100,327.0	49,857.7	5,076.2
YM-80 yes	100,475.4	49,755.9	5,067.1
YM-81 yes	100,165.3	49,829.4	5,067.4
YM-82 yes	100,217.1	49,927.8	5,091.9
YM-83 yes	100,419.1	49,805.2	5,072.6
YM-84 yes	100,449.6	49,950.0	5,051.8
YM-85 NO	100,483.6	50,401.7	4,975.9
YM-86 NO	100,636.9	50,574.2	5,010.2
YM-87 yes	100,477.2	49,270.8	4,977.5
YM-88 yes	100,365.6	49,438.8	5,012.3
YM-89 yes	100,332.0	49,532.8	5,016.6
YM-90 yes	100,292.0	49,620.8	5,027.0
YM-91 yes, lost hole, based on surrounding	100,257.2	49,559.2	5,003.3
YM-92 yes	100,040.8	49,620.6	4,984.9
YM-93 yes	99,929.2	49,309.7	4,855.0
YM-94 yes	100,137.6	49,436.6	4,939.9
YM-95 NO	100,526.5	48,764.8	4,822.1
YM-96 NO	101,187.1	49,017.0	4,846.3

JDS

ASARCO

Southwestern Exploration Division

November 15, 1989

W.L. Kurtz

Contour & Isopachs
Yarnell Project
Yavapai County, AZ

In preparing the "Indicated Mineral Reserve" of the Yarnell Deposit, several maps were constructed to aid in the study.

Structural Contour, Top of Main "B" Mineralization, Map 6778

Structural Contour, Base of Main "B" Mineralization, Map 6779

Isopach, Thickness of Main "B" Mineralization, Map 6814

Isopach, Thickness of Upper "A" Mineralization, Map 6812

Isopach, Foot-ounces of Gold, Main "B" Mineralization, Map 6813

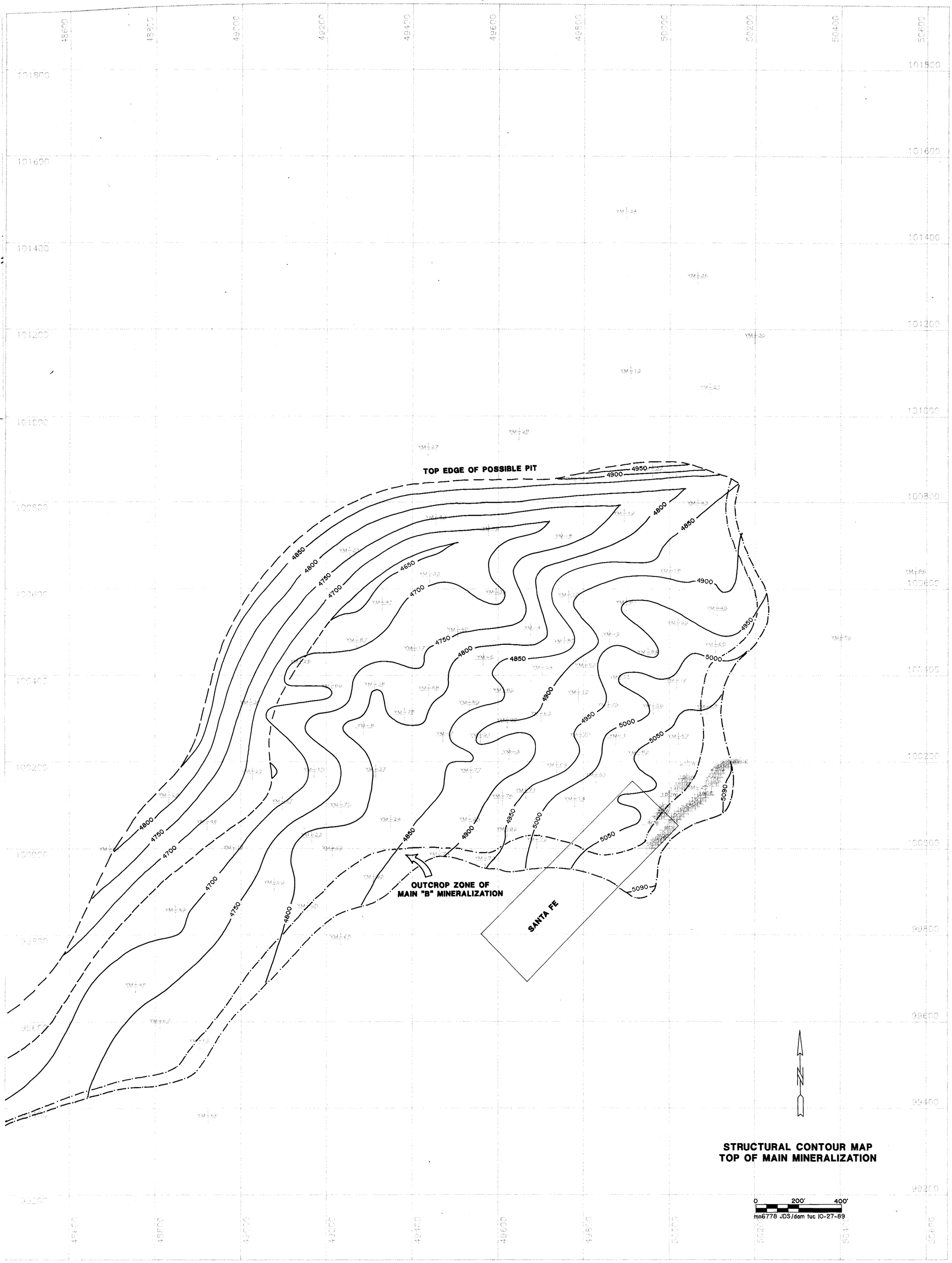
James D. Sell

James D. Sell

JDS:mek
Atts

cc: R.L. Brown

HORIZONTAL SECTION, Elevation 5200



STRUCTURAL CONTOUR MAP
TOP OF MAIN MINERALIZATION

Structural Contour
Top of Main "B" Mineralization

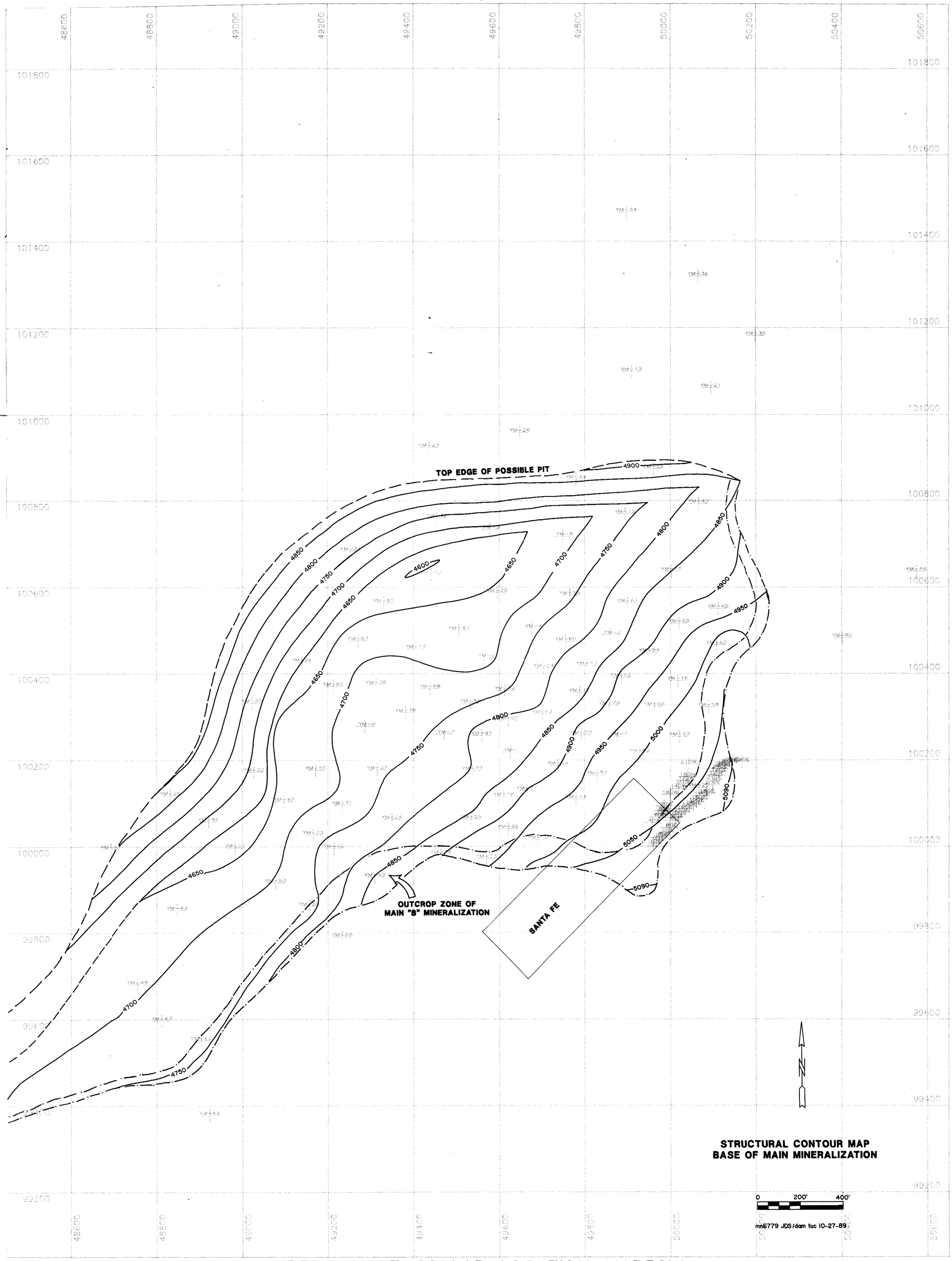
ASARCO Engineering and Computer Services

YARNELL PROJECT
COLLAR LOCATION MAP

SCALE in/feet	CHECKED BY	PLOT DATE	FILE
1:100.00		25-OCT-89	YARN-COLLAR

DRILL HOLE COLLAR LOCATION MAP50W

HORIZONTAL SECTION, Elevation 5200



Structural Contour
Base of Main "B" Mineralization

ASARCO Engineering and Computer Services

YARNELL PROJECT
COLLAR LOCATION MAP

SCALE in Feet	CHECKED BY	PLOT DATE	FILE
1:100.00		25-OCT-89	YARN-COLLAR

DRILL HOLE COLLAR LOCATION MAP50W

HORIZONTAL SECTION, Elevation 5200

ISOPACH MAP
THICKNESS
MAIN 'B' ZONE MINERALIZATION
YARNELL PROJECT
YAVAPAI COUNTY, ARIZONA

J. D. SELL 11/2/89

YM 72 — DRILL HOLE NUMBER
2.5 — THICKNESS IN FEET DRILL HOLE

ASARCO Engineering and Computer Services

YARNELL PROJECT
COLLAR LOCATION MAP

DRILL HOLE COLLAR LOCATION MAP50W

mn6814 JDS/aam tuc 11-02-89

HORIZONTAL SECTION, Elevation 5200

0 100' 200' 300'

ISOPACH MAP
THICKNESS
UPPER 'A' ZONE MINERALIZATION
YARNELL PROJECT
YAVAPAI COUNTY, ARIZONA

J. D. SELL 11/2/89

YM 54 — DRILL HOLE NUMBER
70 — THICNESS IN FEET DRILL HOLE
55 — FOOTAGE BETWEEN BASE OF 'A' AND TOP OF 'B'
S — INTERVAL STARTS AT SURFACE, UNKNOWN AMOUNT ERODED OFF.

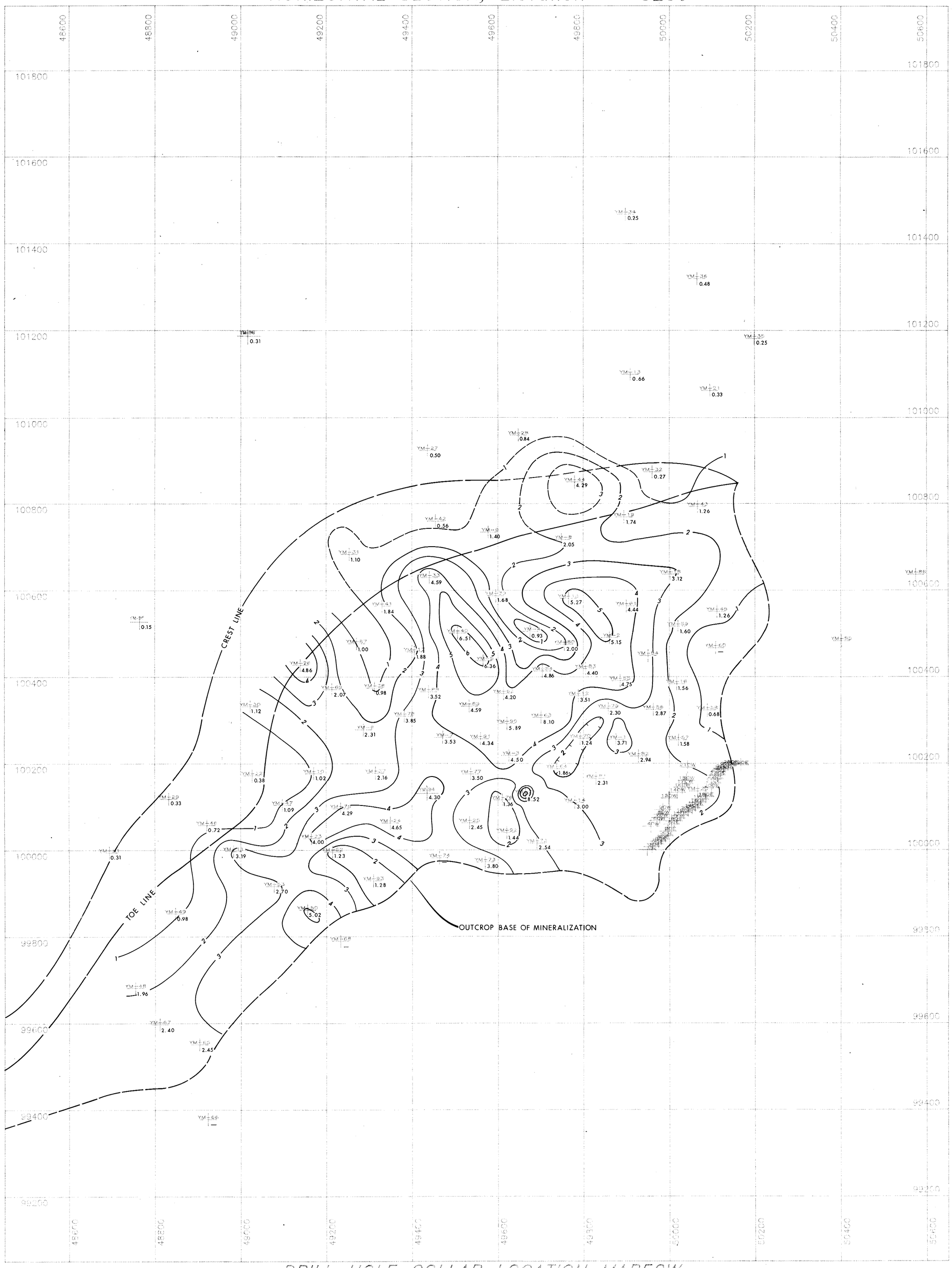
ASARCO Engineering and Computer Services

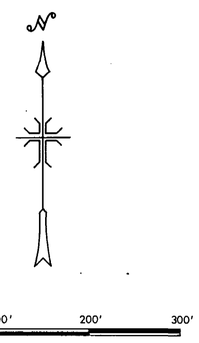
YARNELL PROJECT
COLLAR LOCATION MAP

SCALE in Feet	CHECKED BY	PLOT DATE	FILE
1:100.00		25-OCT-89	YARN-COLLAR

mn6812 JDS/aam tuc 11-02-89

HORIZONTAL SECTION, Elevation 5200





ISOPACH MAP
FEET-OUNCES OF GOLD
MAIN 'B' ZONE MINERALIZATION
YARNELL PROJECT
YAVAPAI COUNTY, ARIZONA

J.D. SELL 11/2/89

90 — DRILL HOLE NUMBER
5.89 — FOOT-OUNCE, Au

ASARCO Engineering and Computer Services

YARNELL PROJECT
COLLAR LOCATION MAP

SCALE In/Foot	CHECKED BY	PLOT DATE	FILE
1:100.00		25-OCT-89	YARN-COLLAR

DRILL HOLE COLLAR LOCATION MAP50W

mn6813 JDS/aam tuc 11-02-89

JDS

ASARCO

Southwestern Exploration Division

November 16, 1989

FILE NOTE

Computer Grade Additions
Yarnell Project
Yavapai County, AZ

Many of the drill holes had missing samples and values of NIL and TR. For the computer it was necessary to fill in a grade number for these or the computer would call it zero.

Also, the computer called the stope areas zero grade, and I have recalculated these values to be the average of the remaining Main "B" zone mineralization, thus preserving the grade in the zone.

Some samples were found by the assayer and put on separate sheets which the computer did not collate. These also have been updated on the attached sheets.

The attached sheets are my best guess at the value.

Any corrections should be brought to my attention.

James D. Sell

James D. Sell

JDS:mek
Att.

cc: W.L. Kurtz
M.A. Miller

						FROM	TO		Current AU	New Au	
100255.50	49875.40	5078.50	YM-1	220.0	0.0180.0	40.0	45.0	0.0	0.000	0.000	
100255.50	49875.40	5078.50	YM-1	220.0	0.0180.0	100.0	105.0	0.0	-1.000	0.053	
100255.50	49875.40	5078.50	YM-1	220.0	0.0180.0	105.0	110.0	0.0	-1.000	0.053	
100255.50	49875.40	5078.50	YM-1	220.0	0.0180.0	110.0	115.0	0.0	-1.000	0.053	
100255.50	49875.40	5078.50	YM-1	220.0	0.0180.0	115.0	120.0	0.0	-1.000	0.053	
100255.50	49875.40	5078.50	YM-1	220.0	0.0180.0	160.0	165.0	0.0	0.000	0.000	0.003
100255.50	49875.40	5078.50	YM-1	220.0	0.0180.0	165.0	170.0	0.0	0.000	0.000	0.001
100255.50	49875.40	5078.50	YM-1	220.0	0.0180.0	180.0	185.0	0.0	0.000	0.000	0.001
100255.50	49875.40	5078.50	YM-1	220.0	0.0180.0	185.0	190.0	0.0	0.000	0.000	0.001
100255.50	49875.40	5078.50	YM-1	220.0	0.0180.0	190.0	195.0	0.0	0.000	0.000	0.001
100490.70	49860.60	5063.00	YM-2	350.0	0.0180.0	200.0	205.0	0.0	-1.000	0.049	
100490.70	49860.60	5063.00	YM-2	350.0	0.0180.0	205.0	210.0	0.0	-1.000	0.049	
100490.70	49860.60	5063.00	YM-2	350.0	0.0180.0	210.0	215.0	0.0	-1.000	0.049	
100490.70	49860.60	5063.00	YM-2	350.0	0.0180.0	215.0	220.0	0.0	-1.000	0.049	
100490.70	49860.60	5063.00	YM-2	350.0	0.0180.0	220.0	225.0	0.0	-1.000	0.049	
100490.70	49860.60	5063.00	YM-2	350.0	0.0180.0	225.0	230.0	0.0	-1.000	0.049	
100490.70	49860.60	5063.00	YM-2	350.0	0.0180.0	230.0	235.0	0.0	-1.000	0.049	
100490.70	49860.60	5063.00	YM-2	350.0	0.0180.0	235.0	240.0	0.0	-1.000	0.049	
100490.70	49860.60	5063.00	YM-2	350.0	0.0180.0	320.0	325.0	0.0	0.000	0.000	0.001
100490.70	49860.60	5063.00	YM-2	350.0	0.0180.0	325.0	330.0	0.0	0.000	0.000	0.001
100490.70	49860.60	5063.00	YM-2	350.0	0.0180.0	330.0	335.0	0.0	0.000	0.000	0.001
100505.30	49675.80	5052.30	YM-4	440.0	0.0180.0	145.0	150.0	0.0	0.000	0.000	0.001
100505.30	49675.80	5052.30	YM-4	440.0	0.0180.0	155.0	160.0	0.0	0.000	0.000	0.001
100505.30	49675.80	5052.30	YM-4	440.0	0.0180.0	335.0	340.0	0.0	0.000	0.000	0.001
100505.30	49675.80	5052.30	YM-4	440.0	0.0180.0	340.0	345.0	0.0	0.000	0.000	0.001
100505.30	49675.80	5052.30	YM-4	440.0	0.0180.0	355.0	360.0	0.0	0.000	0.000	0.001
100505.30	49675.80	5052.30	YM-4	440.0	0.0180.0	405.0	410.0	0.0	0.000	0.000	0.001
100505.30	49675.80	5052.30	YM-4	440.0	0.0180.0	410.0	415.0	0.0	0.000	0.000	0.001
100505.30	49675.80	5052.30	YM-4	440.0	0.0180.0	415.0	420.0	0.0	0.000	0.000	0.001
100505.30	49675.80	5052.30	YM-4	440.0	0.0180.0	420.0	425.0	0.0	0.000	0.000	0.001
100505.30	49675.80	5052.30	YM-4	440.0	0.0180.0	425.0	430.0	0.0	0.000	0.000	0.001
100505.30	49675.80	5052.30	YM-4	440.0	0.0180.0	430.0	435.0	0.0	0.000	0.000	0.001
100437.10	49565.20	5041.80	YM-5	370.0	0.0180.0	0.0	5.0	0.0	0.000	0.000	0.002
100437.10	49565.20	5041.80	YM-5	370.0	0.0180.0	5.0	10.0	0.0	0.000	0.000	0.001
100437.10	49565.20	5041.80	YM-5	370.0	0.0180.0	30.0	35.0	0.0	0.000	0.000	0.001
100437.10	49565.20	5041.80	YM-5	370.0	0.0180.0	85.0	90.0	0.0	0.000	0.000	0.001
100437.10	49565.20	5041.80	YM-5	370.0	0.0180.0	100.0	105.0	0.0	0.000	0.000	0.001
100437.10	49565.20	5041.80	YM-5	370.0	0.0180.0	105.0	110.0	0.0	0.000	0.000	0.001
100437.10	49565.20	5041.80	YM-5	370.0	0.0180.0	125.0	130.0	0.0	0.000	0.000	0.001
100437.10	49565.20	5041.80	YM-5	370.0	0.0180.0	135.0	140.0	0.0	0.000	0.000	0.001
100437.10	49565.20	5041.80	YM-5	370.0	0.0180.0	140.0	145.0	0.0	0.000	0.000	0.001
100437.10	49565.20	5041.80	YM-5	370.0	0.0180.0	145.0	150.0	0.0	0.000	0.000	0.001
100437.10	49565.20	5041.80	YM-5	370.0	0.0180.0	295.0	300.0	0.0	-1.000	0.041	
100437.10	49565.20	5041.80	YM-5	370.0	0.0180.0	300.0	305.0	0.0	-1.000	0.041	
100437.10	49565.20	5041.80	YM-5	370.0	0.0180.0	305.0	310.0	0.0	-1.000	0.041	
100437.10	49565.20	5041.80	YM-5	370.0	0.0180.0	310.0	315.0	0.0	-1.000	0.041	
100437.10	49565.20	5041.80	YM-5	370.0	0.0180.0	315.0	320.0	0.0	-1.000	0.041	
100437.10	49565.20	5041.80	YM-5	370.0	0.0180.0	320.0	325.0	0.0	-1.000	0.041	
100437.10	49565.20	5041.80	YM-5	370.0	0.0180.0	325.0	330.0	0.0	-1.000	0.041	
100437.10	49565.20	5041.80	YM-5	370.0	0.0180.0	330.0	335.0	0.0	0.004	0.041	
100278.70	49286.70	4949.00	YM-6	400.0	0.0180.0	240.0	245.0	0.0	0.000	0.000	0.003
100278.70	49286.70	4949.00	YM-6	400.0	0.0180.0	395.0	400.0	0.0	0.000	0.000	0.001
100260.50	49471.60	4986.90	YM-7	292.0	0.0180.0	220.0	225.0	0.0	-1.000	0.047	
100717.90	49749.20	4957.90	YM-8	350.0	0.0180.0	135.0	140.0	0.0	0.000	0.000	0.017
100734.80	49577.20	4930.20	YM-9	350.0	0.0180.0	180.0	185.0	0.0	0.000	0.000	0.005
100734.80	49577.20	4930.20	YM-9	350.0	0.0180.0	185.0	190.0	0.0	0.000	0.000	0.010
100734.80	49577.20	4930.20	YM-9	350.0	0.0180.0	195.0	200.0	0.0	0.000	0.000	0.001
100734.80	49577.20	4930.20	YM-9	350.0	0.0180.0	205.0	210.0	0.0	0.000	0.000	0.001

Jim

This is a file showing all intervals with

① NEW value different from CURRENT value

② NEW value = -1.000

③ NEW value = 0.000

The list on which you added values did not include ③ above. Thought you should review these one more time before we build the final model.

Rob

100734.80	49577.20	4930.20	YM-9	350.0	0.0180.0	210.0	215.0	0.0	0.000	0.000	0.001
100356.50	49788.40	5073.60	YM-12	0.0	0.0180.0	180.0	183.0	0.0	0.008	0.039	
100356.50	49788.40	5073.60	YM-12	0.0	0.0180.0	183.0	190.0	0.0	-1.000	0.039	
100356.50	49788.40	5073.60	YM-12	0.0	0.0180.0	190.0	195.0	0.0	-1.000	0.039	
100383.90	50017.00	5057.10	YM-16	0.0	0.0180.0	65.0	70.0	0.0	-1.000	0.039	
100383.90	50017.00	5057.10	YM-16	0.0	0.0180.0	80.0	85.0	0.0	-1.000	-1.000	0.039
100062.90	49349.40	4893.50	YM-24	0.0	0.0180.0	65.0	70.0	0.0	-1.000	0.093	
100062.90	49349.40	4893.50	YM-24	0.0	0.0180.0	70.0	75.0	0.0	-1.000	0.093	
100063.10	49533.70	4947.30	YM-25	0.0	0.0180.0	20.0	25.0	0.0	-1.000	-1.000	0.007
100063.10	49533.70	4947.30	YM-25	0.0	0.0180.0	45.0	50.0	0.0	-1.000	-1.000	0.015
100427.50	49139.40	4911.00	YM-26	0.0	0.0180.0	5.0	10.0	0.0	-1.000	-1.000	0.002
100427.50	49139.40	4911.00	YM-26	0.0	0.0180.0	15.0	20.0	0.0	-1.000	-1.000	0.002
100427.50	49139.40	4911.00	YM-26	0.0	0.0180.0	25.0	30.0	0.0	-1.000	-1.000	0.002
100427.50	49139.40	4911.00	YM-26	0.0	0.0180.0	35.0	40.0	0.0	-1.000	-1.000	0.002
100427.50	49139.40	4911.00	YM-26	0.0	0.0180.0	45.0	50.0	0.0	-1.000	-1.000	0.002
100427.50	49139.40	4911.00	YM-26	0.0	0.0180.0	55.0	60.0	0.0	-1.000	-1.000	0.002
100427.50	49139.40	4911.00	YM-26	0.0	0.0180.0	65.0	70.0	0.0	-1.000	-1.000	0.002
100427.50	49139.40	4911.00	YM-26	0.0	0.0180.0	75.0	80.0	0.0	-1.000	-1.000	0.002
100427.50	49139.40	4911.00	YM-26	0.0	0.0180.0	85.0	90.0	0.0	-1.000	-1.000	0.001
100427.50	49139.40	4911.00	YM-26	0.0	0.0180.0	95.0	100.0	0.0	-1.000	-1.000	0.001
100427.50	49139.40	4911.00	YM-26	0.0	0.0180.0	105.0	110.0	0.0	-1.000	-1.000	0.001
100427.50	49139.40	4911.00	YM-26	0.0	0.0180.0	115.0	120.0	0.0	-1.000	-1.000	0.002
100427.50	49139.40	4911.00	YM-26	0.0	0.0180.0	125.0	130.0	0.0	-1.000	-1.000	0.002
100427.50	49139.40	4911.00	YM-26	0.0	0.0180.0	135.0	140.0	0.0	-1.000	-1.000	0.003
100427.50	49139.40	4911.00	YM-26	0.0	0.0180.0	145.0	150.0	0.0	-1.000	-1.000	0.003
100427.50	49139.40	4911.00	YM-26	0.0	0.0180.0	155.0	160.0	0.0	-1.000	-1.000	0.003
100427.50	49139.40	4911.00	YM-26	0.0	0.0180.0	165.0	170.0	0.0	-1.000	-1.000	0.002
100427.50	49139.40	4911.00	YM-26	0.0	0.0180.0	175.0	180.0	0.0	-1.000	-1.000	0.002
100427.50	49139.40	4911.00	YM-26	0.0	0.0180.0	185.0	190.0	0.0	-1.000	-1.000	0.003
100427.50	49139.40	4911.00	YM-26	0.0	0.0180.0	195.0	200.0	0.0	-1.000	-1.000	0.007
100923.00	49436.30	4835.40	YM-27	0.0	0.0180.0	0.0	5.0	0.0	-1.000	-1.000	0.002
100118.70	48832.50	4858.60	YM-29	0.0	0.0180.0	265.0	270.0	0.0	-1.000	-1.000	0.004
100587.80	49594.90	5010.70	YM-39	0.0	0.0180.0	220.0	225.0	0.0	-1.000	-1.000	0.002
100587.80	49594.90	5010.70	YM-39	0.0	0.0180.0	240.0	245.0	0.0	-1.000	-1.000	0.003
100564.30	49330.10	4978.40	YM-41	0.0	0.0180.0	245.0	250.0	0.0	0.000	0.000	0.001
100564.30	49330.10	4978.40	YM-41	0.0	0.0180.0	405.0	410.0	0.0	-1.000	-1.000	0.001
100760.10	49454.90	4909.60	YM-42	0.0	0.0180.0	60.0	65.0	0.0	0.000	0.000	0.001
100760.10	49454.90	4909.60	YM-42	0.0	0.0180.0	65.0	70.0	0.0	0.000	0.000	0.001
100760.10	49454.90	4909.60	YM-42	0.0	0.0180.0	155.0	160.0	0.0	0.000	0.000	0.001
100760.10	49454.90	4909.60	YM-42	0.0	0.0180.0	390.0	395.0	0.0	-1.000	-1.000	0.001
100760.10	49454.90	4909.60	YM-42	0.0	0.0180.0	395.0	400.0	0.0	-1.000	-1.000	0.001
100793.20	50066.00	4907.90	YM-43	0.0	0.0180.0	110.0	115.0	0.0	0.000	0.000	0.001
100793.20	50066.00	4907.90	YM-43	0.0	0.0180.0	130.0	135.0	0.0	0.000	0.000	0.001
100793.20	50066.00	4907.90	YM-43	0.0	0.0180.0	135.0	140.0	0.0	0.000	0.000	0.001
100850.20	49780.10	4910.50	YM-44	0.0	0.0180.0	120.0	125.0	0.0	-1.000	-1.000	0.005
100850.20	49780.10	4910.50	YM-44	0.0	0.0180.0	305.0	310.0	0.0	0.000	0.000	0.001
100194.00	50136.70	5086.00	270E	0.0	0.0180.0	5.0	10.0	0.0	-1.000	-1.000	0.022
100104.50	49097.30	4873.40	YM-47	0.0	0.0180.0	50.0	55.0	0.0	-1.000	-1.000	0.002
100391.20	49885.20	5073.80	YM-55	0.0	0.0180.0	150.0	155.0	0.0	-1.000	0.500	
100391.20	49885.20	5073.80	YM-55	0.0	0.0180.0	155.0	160.0	0.0	-1.000	0.050	
100391.20	49885.20	5073.80	YM-55	0.0	0.0180.0	160.0	165.0	0.0	-1.000	0.050	
100254.50	50021.20	5090.10	YM-57	0.0	0.0180.0	50.0	55.0	0.0	-1.000	0.035	
100254.50	50021.20	5090.10	YM-57	0.0	0.0180.0	55.0	60.0	0.0	-1.000	0.035	
100254.50	50021.20	5090.10	YM-57	0.0	0.0180.0	60.0	65.0	0.0	-1.000	0.035	
100467.50	50107.50	5009.90	YM-60	0.0	0.0180.0	15.0	20.0	0.0	-1.000	-1.000	0.003
100564.30	49899.70	5036.10	YM-61	0.0	0.0180.0	175.0	180.0	0.0	0.000	0.037	
100564.30	49899.70	5036.10	YM-61	0.0	0.0180.0	180.0	185.0	0.0	0.000	0.037	
100564.30	49899.70	5036.10	YM-61	0.0	0.0180.0	185.0	190.0	0.0	0.000	0.037	

100361.30	49612.90	5039.50	YM-62	0.0	0.0180.0	250.0	290.0	0.0	-1.000	0.040		
100361.30	49612.90	5039.50	YM-62	0.0	0.0180.0	290.0	295.0	0.0	-1.000	-1.000	0.043
100188.00	49738.10	5041.50	YM-64	0.0	0.0180.0	190.0	195.0	0.0	-1.000	-1.000	0.023
99789.80	49232.80	4848.50	YM-68	0.0	0.0180.0	5.0	10.0	0.0	-1.000	-1.000	0.002
100371.20	49213.10	4951.20	YM-69	0.0	0.0180.0	20.0	25.0	0.0	-1.000	-1.000	0.012
100116.00	49610.10	4989.50	YM-76	0.0	0.0180.0	75.0	80.0	0.0	-1.000	0.034		
100116.00	49610.10	4989.50	YM-76	0.0	0.0180.0	80.0	85.0	0.0	-1.000	0.034		
100116.00	49610.10	4989.50	YM-76	0.0	0.0180.0	85.0	90.0	0.0	-1.000	0.034		
100175.70	49536.70	4982.10	YM-77	0.0	0.0180.0	107.0	110.0	0.0	-1.000	0.048		
100175.70	49536.70	4982.10	YM-77	0.0	0.0180.0	110.0	115.0	0.0	-1.000	0.048		
100175.70	49536.70	4982.10	YM-77	0.0	0.0180.0	115.0	120.0	0.0	-1.000	0.048		
100475.40	49755.90	5067.10	YM-80	0.0	0.0180.0	0.0	5.0	0.0	-1.000	-1.000	0.002
100475.40	49755.90	5067.10	YM-80	0.0	0.0180.0	5.0	10.0	0.0	-1.000	-1.000	0.002
100419.10	49805.20	5072.60	YM-83	0.0	0.0180.0	205.0	225.0	0.0	-1.000	0.044		
100419.10	49805.20	5072.60	YM-83	0.0	0.0180.0	275.0	280.0	0.0	-1.000	-1.000	0.001
100483.60	50401.70	4975.90	YM-85	0.0	0.0180.0	45.0	50.0	0.0	-1.000	-1.000	0.001
100636.90	50574.20	5010.20	YM-86	0.0	0.0180.0	40.0	45.0	0.0	-1.000	-1.000	0.001
100636.90	50574.20	5010.20	YM-86	0.0	0.0180.0	110.0	115.0	0.0	-1.000	-1.000	0.001
100636.90	50574.20	5010.20	YM-86	0.0	0.0180.0	120.0	125.0	0.0	-1.000	-1.000	0.001
100636.90	50574.20	5010.20	YM-86	0.0	0.0180.0	125.0	130.0	0.0	-1.000	-1.000	0.001
100636.90	50574.20	5010.20	YM-86	0.0	0.0180.0	135.0	140.0	0.0	-1.000	-1.000	0.001
100477.20	49270.80	4977.50	YM-87	0.0	0.0180.0	95.0	100.0	0.0	-1.000	-1.000	0.001
100477.20	49270.80	4977.50	YM-87	0.0	0.0180.0	135.0	140.0	0.0	-1.000	-1.000	0.001
100477.20	49270.80	4977.50	YM-87	0.0	0.0180.0	150.0	155.0	0.0	-1.000	-1.000	0.001
100365.60	49438.80	5012.30	YM-88	0.0	0.0180.0	55.0	60.0	0.0	-1.000	-1.000	0.007
100365.60	49438.80	5012.30	YM-88	0.0	0.0180.0	200.0	205.0	0.0	-1.000	-1.000	0.003
100365.60	49438.80	5012.30	YM-88	0.0	0.0180.0	280.0	285.0	0.0	-1.000	-1.000	0.141
100365.60	49438.80	5012.30	YM-88	0.0	0.0180.0	360.0	365.0	0.0	-1.000	-1.000	0.003
100292.00	49620.80	5027.00	YM-90	0.0	0.0180.0	260.0	265.0	0.0	-1.000	-1.000	0.001
100292.00	49620.80	5027.00	YM-90	0.0	0.0180.0	315.0	320.0	0.0	-1.000	-1.000	0.001
100257.20	49559.20	5003.30	YM-91	0.0	0.0180.0	95.0	100.0	0.0	0.030	0.051		
100257.20	49559.20	5003.30	YM-91	0.0	0.0180.0	100.0	105.0	0.0	0.004	0.051		
100257.20	49559.20	5003.30	YM-91	0.0	0.0180.0	105.0	125.0	0.0	-1.000	0.051		
100257.20	49559.20	5003.30	YM-91	0.0	0.0180.0	125.0	130.0	0.0	0.024	0.051		
100257.20	49559.20	5003.30	YM-91	0.0	0.0180.0	130.0	140.0	0.0	-1.000	0.051		
100257.20	49559.20	5003.30	YM-91	0.0	0.0180.0	140.0	145.0	0.0	0.003	0.051		
100257.20	49559.20	5003.30	YM-91	0.0	0.0180.0	145.0	150.0	0.0	0.014	0.051		

Non highlight Values Still 0.00 in Jason inventory 11/13/89

_PVAX02$DKA100:[PROJECT.YARNELL]YARN_CHANGED_AND_LT_0.DAT;1 13-NOV-1989 12:12 Page 1

						Fr	To		Current Au	New Au	
100255.50	49875.40	5078.50	YM-1	220.0	0.0180.0	100.0	105.0	0.0	-1.000	0.053	
100255.50	49875.40	5078.50	YM-1	220.0	0.0180.0	105.0	110.0	0.0	-1.000	0.053	
100255.50	49875.40	5078.50	YM-1	220.0	0.0180.0	110.0	115.0	0.0	-1.000	0.053	
100255.50	49875.40	5078.50	YM-1	220.0	0.0180.0	115.0	120.0	0.0	-1.000	0.053	
100490.70	49860.60	5063.00	YM-2	350.0	0.0180.0	200.0	205.0	0.0	-1.000	0.049	
100490.70	49860.60	5063.00	YM-2	350.0	0.0180.0	205.0	210.0	0.0	-1.000	0.049	
100490.70	49860.60	5063.00	YM-2	350.0	0.0180.0	210.0	215.0	0.0	-1.000	0.049	
100490.70	49860.60	5063.00	YM-2	350.0	0.0180.0	215.0	220.0	0.0	-1.000	0.049	
100490.70	49860.60	5063.00	YM-2	350.0	0.0180.0	220.0	225.0	0.0	-1.000	0.049	
100490.70	49860.60	5063.00	YM-2	350.0	0.0180.0	225.0	230.0	0.0	-1.000	0.049	
100490.70	49860.60	5063.00	YM-2	350.0	0.0180.0	230.0	235.0	0.0	-1.000	0.049	
100490.70	49860.60	5063.00	YM-2	350.0	0.0180.0	235.0	240.0	0.0	-1.000	0.049	
100437.10	49565.20	5041.80	YM-5	370.0	0.0180.0	295.0	300.0	0.0	-1.000	0.041	
100437.10	49565.20	5041.80	YM-5	370.0	0.0180.0	300.0	305.0	0.0	-1.000	0.041	
100437.10	49565.20	5041.80	YM-5	370.0	0.0180.0	305.0	310.0	0.0	-1.000	0.041	
100437.10	49565.20	5041.80	YM-5	370.0	0.0180.0	310.0	315.0	0.0	-1.000	0.041	
100437.10	49565.20	5041.80	YM-5	370.0	0.0180.0	315.0	320.0	0.0	-1.000	0.041	
100437.10	49565.20	5041.80	YM-5	370.0	0.0180.0	320.0	325.0	0.0	-1.000	0.041	
100437.10	49565.20	5041.80	YM-5	370.0	0.0180.0	325.0	330.0	0.0	-1.000	0.041	
100437.10	49565.20	5041.80	YM-5	370.0	0.0180.0	330.0	335.0	0.0	0.004	0.041	
100260.50	49471.60	4986.90	YM-7	292.0	0.0180.0	220.0	225.0	0.0	-1.000	0.047	
100356.50	49788.40	5073.60	YM-12	0.0	0.0180.0	180.0	183.0	0.0	0.008	0.039	
100356.50	49788.40	5073.60	YM-12	0.0	0.0180.0	183.0	190.0	0.0	-1.000	0.039	
100356.50	49788.40	5073.60	YM-12	0.0	0.0180.0	190.0	195.0	0.0	-1.000	0.039	
100383.90	50017.00	5057.10	YM-16	0.0	0.0180.0	65.0	70.0	0.0	-1.000	0.039	
100383.90	50017.00	5057.10	YM-16	0.0	0.0180.0	80.0	85.0	0.0	-1.000	-1.000	0.39
100062.90	49349.40	4893.50	YM-24	0.0	0.0180.0	65.0	70.0	0.0	-1.000	0.093	
100062.90	49349.40	4893.50	YM-24	0.0	0.0180.0	70.0	75.0	0.0	-1.000	0.093	
100063.10	49533.70	4947.30	YM-25	0.0	0.0180.0	20.0	25.0	0.0	-1.000	-1.000	0.007
100063.10	49533.70	4947.30	YM-25	0.0	0.0180.0	45.0	50.0	0.0	-1.000	-1.000	0.015
100427.50	49139.40	4911.00	YM-26	0.0	0.0180.0	5.0	10.0	0.0	-1.000	-1.000	0.002
100427.50	49139.40	4911.00	YM-26	0.0	0.0180.0	15.0	20.0	0.0	-1.000	-1.000	0.002
100427.50	49139.40	4911.00	YM-26	0.0	0.0180.0	25.0	30.0	0.0	-1.000	-1.000	0.002
100427.50	49139.40	4911.00	YM-26	0.0	0.0180.0	35.0	40.0	0.0	-1.000	-1.000	0.002
100427.50	49139.40	4911.00	YM-26	0.0	0.0180.0	45.0	50.0	0.0	-1.000	-1.000	0.002
100427.50	49139.40	4911.00	YM-26	0.0	0.0180.0	55.0	60.0	0.0	-1.000	-1.000	0.002
100427.50	49139.40	4911.00	YM-26	0.0	0.0180.0	65.0	70.0	0.0	-1.000	-1.000	0.002
100427.50	49139.40	4911.00	YM-26	0.0	0.0180.0	75.0	80.0	0.0	-1.000	-1.000	0.002
100427.50	49139.40	4911.00	YM-26	0.0	0.0180.0	85.0	90.0	0.0	-1.000	-1.000	0.001
100427.50	49139.40	4911.00	YM-26	0.0	0.0180.0	95.0	100.0	0.0	-1.000	-1.000	0.001
100427.50	49139.40	4911.00	YM-26	0.0	0.0180.0	105.0	110.0	0.0	-1.000	-1.000	0.001
100427.50	49139.40	4911.00	YM-26	0.0	0.0180.0	115.0	120.0	0.0	-1.000	-1.000	0.002
100427.50	49139.40	4911.00	YM-26	0.0	0.0180.0	125.0	130.0	0.0	-1.000	-1.000	0.002
100427.50	49139.40	4911.00	YM-26	0.0	0.0180.0	135.0	140.0	0.0	-1.000	-1.000	0.003
100427.50	49139.40	4911.00	YM-26	0.0	0.0180.0	145.0	150.0	0.0	-1.000	-1.000	0.003
100427.50	49139.40	4911.00	YM-26	0.0	0.0180.0	155.0	160.0	0.0	-1.000	-1.000	0.003
100427.50	49139.40	4911.00	YM-26	0.0	0.0180.0	165.0	170.0	0.0	-1.000	-1.000	0.002
100427.50	49139.40	4911.00	YM-26	0.0	0.0180.0	175.0	180.0	0.0	-1.000	-1.000	0.002
100427.50	49139.40	4911.00	YM-26	0.0	0.0180.0	185.0	190.0	0.0	-1.000	-1.000	0.003
100427.50	49139.40	4911.00	YM-26	0.0	0.0180.0	195.0	200.0	0.0	-1.000	-1.000	0.010
100923.00	49436.30	4835.40	YM-27	0.0	0.0180.0	0.0	5.0	0.0	-1.000	-1.000	0.002
100118.70	48832.50	4858.60	YM-29	0.0	0.0180.0	265.0	270.0	0.0	-1.000	-1.000	0.003
100587.80	49594.90	5010.70	YM-39	0.0	0.0180.0	220.0	225.0	0.0	-1.000	-1.000	0.002
100587.80	49594.90	5010.70	YM-39	0.0	0.0180.0	240.0	245.0	0.0	-1.000	-1.000	0.003
100564.30	49330.10	4978.40	YM-41	0.0	0.0180.0	405.0	410.0	0.0	-1.000	-1.000	0.001
100760.10	49454.90	4909.60	YM-42	0.0	0.0180.0	390.0	395.0	0.0	-1.000	-1.000	0.001
100760.10	49454.90	4909.60	YM-42	0.0	0.0180.0	395.0	400.0	0.0	-1.000	-1.000	0.001
100850.20	49780.10	4910.50	YM-44	0.0	0.0180.0	120.0	125.0	0.0	-1.000	-1.000	0.005

This file shows all intervals with

① NEW value different from CURRENT value

② NEW value = -1.000

						FROM	TO		CURRENT Au	NEW Au	
100194.00	50136.70	5086.00	270E	0.0	0.0180.0	5.0	10.0	0.0	-1.000	-1.000	0.022
100104.50	49097.30	4873.40	YM-47	0.0	0.0180.0	50.0	55.0	0.0	-1.000	-1.000	0.003
100391.20	49885.20	5073.80	YM-55	0.0	0.0180.0	150.0	155.0	0.0	-1.000	0.500	fixed 0.05
100391.20	49885.20	5073.80	YM-55	0.0	0.0180.0	155.0	160.0	0.0	-1.000	0.050	
100391.20	49885.20	5073.80	YM-55	0.0	0.0180.0	160.0	165.0	0.0	-1.000	0.050	
100254.50	50021.20	5090.10	YM-57	0.0	0.0180.0	50.0	55.0	0.0	-1.000	0.035	
100254.50	50021.20	5090.10	YM-57	0.0	0.0180.0	55.0	60.0	0.0	-1.000	0.035	
100254.50	50021.20	5090.10	YM-57	0.0	0.0180.0	60.0	65.0	0.0	-1.000	0.035	
100467.50	50107.50	5009.90	YM-60	0.0	0.0180.0	15.0	20.0	0.0	-1.000	-1.000	0.003
100564.30	49899.70	5036.10	YM-61	0.0	0.0180.0	175.0	180.0	0.0	0.000	0.037	
100564.30	49899.70	5036.10	YM-61	0.0	0.0180.0	180.0	185.0	0.0	0.000	0.037	
100564.30	49899.70	5036.10	YM-61	0.0	0.0180.0	185.0	190.0	0.0	0.000	0.037	
100361.30	49612.90	5039.50	YM-62	0.0	0.0180.0	250.0	290.0	0.0	-1.000	0.040	
100361.30	49612.90	5039.50	YM-62	0.0	0.0180.0	290.0	295.0	0.0	-1.000	-1.000	0.043
100188.00	49738.10	5041.50	YM-64	0.0	0.0180.0	190.0	195.0	0.0	-1.000	-1.000	0.023
99789.80	49232.80	4848.50	YM-68	0.0	0.0180.0	5.0	10.0	0.0	-1.000	-1.000	0.002
100371.20	49213.10	4951.20	YM-69	0.0	0.0180.0	20.0	25.0	0.0	-1.000	-1.000	0.012
100116.00	49610.10	4989.50	YM-76	0.0	0.0180.0	75.0	80.0	0.0	-1.000	0.034	
100116.00	49610.10	4989.50	YM-76	0.0	0.0180.0	80.0	85.0	0.0	-1.000	0.034	
100116.00	49610.10	4989.50	YM-76	0.0	0.0180.0	85.0	90.0	0.0	-1.000	0.034	
100175.70	49536.70	4982.10	YM-77	0.0	0.0180.0	107.0	110.0	0.0	-1.000	0.048	
100175.70	49536.70	4982.10	YM-77	0.0	0.0180.0	110.0	115.0	0.0	-1.000	0.048	
100175.70	49536.70	4982.10	YM-77	0.0	0.0180.0	115.0	120.0	0.0	-1.000	0.048	
100475.40	49755.90	5067.10	YM-80	0.0	0.0180.0	0.0	5.0	0.0	-1.000	-1.000	0.002
100475.40	49755.90	5067.10	YM-80	0.0	0.0180.0	5.0	10.0	0.0	-1.000	-1.000	0.002
100419.10	49805.20	5072.60	YM-83	0.0	0.0180.0	205.0	225.0	0.0	-1.000	0.044	
100419.10	49805.20	5072.60	YM-83	0.0	0.0180.0	275.0	280.0	0.0	-1.000	-1.000	0.001
100483.60	50401.70	4975.90	YM-85	0.0	0.0180.0	45.0	50.0	0.0	-1.000	-1.000	0.001
100636.90	50574.20	5010.20	YM-86	0.0	0.0180.0	40.0	45.0	0.0	-1.000	-1.000	0.001
100636.90	50574.20	5010.20	YM-86	0.0	0.0180.0	110.0	115.0	0.0	-1.000	-1.000	0.001
100636.90	50574.20	5010.20	YM-86	0.0	0.0180.0	120.0	125.0	0.0	-1.000	-1.000	0.001
100636.90	50574.20	5010.20	YM-86	0.0	0.0180.0	125.0	130.0	0.0	-1.000	-1.000	0.001
100636.90	50574.20	5010.20	YM-86	0.0	0.0180.0	135.0	140.0	0.0	-1.000	-1.000	0.001
100477.20	49270.80	4977.50	YM-87	0.0	0.0180.0	95.0	100.0	0.0	-1.000	-1.000	0.001
100477.20	49270.80	4977.50	YM-87	0.0	0.0180.0	135.0	140.0	0.0	-1.000	-1.000	0.001
100477.20	49270.80	4977.50	YM-87	0.0	0.0180.0	150.0	155.0	0.0	-1.000	-1.000	0.001
100365.60	49438.80	5012.30	YM-88	0.0	0.0180.0	55.0	60.0	0.0	-1.000	-1.000	0.007
100365.60	49438.80	5012.30	YM-88	0.0	0.0180.0	200.0	205.0	0.0	-1.000	-1.000	0.003
100365.60	49438.80	5012.30	YM-88	0.0	0.0180.0	280.0	285.0	0.0	-1.000	-1.000	0.141
100365.60	49438.80	5012.30	YM-88	0.0	0.0180.0	360.0	365.0	0.0	-1.000	-1.000	0.003
100292.00	49620.80	5027.00	YM-90	0.0	0.0180.0	260.0	265.0	0.0	-1.000	-1.000	0.001
100292.00	49620.80	5027.00	YM-90	0.0	0.0180.0	315.0	320.0	0.0	-1.000	-1.000	0.001
100257.20	49559.20	5003.30	YM-91	0.0	0.0180.0	95.0	100.0	0.0	0.030	0.051	
100257.20	49559.20	5003.30	YM-91	0.0	0.0180.0	100.0	105.0	0.0	0.004	0.051	
100257.20	49559.20	5003.30	YM-91	0.0	0.0180.0	105.0	125.0	0.0	-1.000	0.051	
100257.20	49559.20	5003.30	YM-91	0.0	0.0180.0	125.0	130.0	0.0	0.024	0.051	
100257.20	49559.20	5003.30	YM-91	0.0	0.0180.0	130.0	140.0	0.0	-1.000	0.051	
100257.20	49559.20	5003.30	YM-91	0.0	0.0180.0	140.0	145.0	0.0	0.003	0.051	
100257.20	49559.20	5003.30	YM-91	0.0	0.0180.0	145.0	150.0	0.0	0.014	0.051	

no data in file for 150'–180' —— use 0.051 150-155
" 155-160
" 160-165
" 165-170
" 170-175
" 175-180

Changes Re: SDSell Oct 27, 1989 Task I

100255.50	49875.40	5078.50	YM-1	220.00	0.00	180.00	100.00	105.00	0.00	-1.000	0.053
100255.50	49875.40	5078.50	YM-1	220.00	0.00	180.00	105.00	110.00	0.00	-1.000	0.053
100255.50	49875.40	5078.50	YM-1	220.00	0.00	180.00	110.00	115.00	0.00	-1.000	0.053
100255.50	49875.40	5078.50	YM-1	220.00	0.00	180.00	115.00	120.00	0.00	-1.000	0.053
100490.70	49860.60	5063.00	YM-2	350.00	0.00	180.00	200.00	205.00	0.00	-1.000	0.049
100490.70	49860.60	5063.00	YM-2	350.00	0.00	180.00	205.00	210.00	0.00	-1.000	0.049
100490.70	49860.60	5063.00	YM-2	350.00	0.00	180.00	210.00	215.00	0.00	-1.000	0.049
100490.70	49860.60	5063.00	YM-2	350.00	0.00	180.00	215.00	220.00	0.00	-1.000	0.049
100490.70	49860.60	5063.00	YM-2	350.00	0.00	180.00	220.00	225.00	0.00	-1.000	0.049
100490.70	49860.60	5063.00	YM-2	350.00	0.00	180.00	225.00	230.00	0.00	-1.000	0.049
100490.70	49860.60	5063.00	YM-2	350.00	0.00	180.00	230.00	235.00	0.00	-1.000	0.049
100490.70	49860.60	5063.00	YM-2	350.00	0.00	180.00	235.00	240.00	0.00	-1.000	0.049
100437.10	49565.20	5041.80	YM-5	370.00	0.00	180.00	295.00	300.00	0.00	-1.000	0.041
100437.10	49565.20	5041.80	YM-5	370.00	0.00	180.00	300.00	305.00	0.00	-1.000	0.041
100437.10	49565.20	5041.80	YM-5	370.00	0.00	180.00	305.00	310.00	0.00	-1.000	0.041
100437.10	49565.20	5041.80	YM-5	370.00	0.00	180.00	310.00	315.00	0.00	-1.000	0.041
100437.10	49565.20	5041.80	YM-5	370.00	0.00	180.00	315.00	320.00	0.00	-1.000	0.041
100437.10	49565.20	5041.80	YM-5	370.00	0.00	180.00	320.00	325.00	0.00	-1.000	0.041
100437.10	49565.20	5041.80	YM-5	370.00	0.00	180.00	325.00	330.00	0.00	-1.000	0.041
100437.10	49565.20	5041.80	YM-5	370.00	0.00	180.00	330.00	335.00	0.00	0.004	0.041
100260.50	49471.60	4986.90	YM-7	292.00	0.00	180.00	220.00	225.00	0.00	-1.000	0.047
100356.50	49788.40	5073.60	YM-12	0.00	0.00	180.00	180.00	183.00	0.00	0.008	0.039
100356.50	49788.40	5073.60	YM-12	0.00	0.00	180.00	183.00	190.00	0.00	-1.000	0.039
100356.50	49788.40	5073.60	YM-12	0.00	0.00	180.00	190.00	195.00	0.00	-1.000	0.039
100383.90	50017.00	5057.10	YM-16	0.00	0.00	180.00	65.00	70.00	0.00	-1.000	0.039
100062.90	49349.40	4893.50	YM-24	0.00	0.00	180.00	65.00	70.00	0.00	-1.000	0.093
100062.90	49349.40	4893.50	YM-24	0.00	0.00	180.00	70.00	75.00	0.00	-1.000	0.093
100391.20	49885.20	5073.80	YM-55	0.00	0.00	180.00	150.00	155.00	0.00	-1.000	0.050
100391.20	49885.20	5073.80	YM-55	0.00	0.00	180.00	155.00	160.00	0.00	-1.000	0.050
100391.20	49885.20	5073.80	YM-55	0.00	0.00	180.00	160.00	165.00	0.00	-1.000	0.050
100254.50	50021.20	5090.10	YM-57	0.00	0.00	180.00	50.00	55.00	0.00	-1.000	0.035
100254.50	50021.20	5090.10	YM-57	0.00	0.00	180.00	55.00	60.00	0.00	-1.000	0.035
100254.50	50021.20	5090.10	YM-57	0.00	0.00	180.00	60.00	65.00	0.00	-1.000	0.035
100564.30	49899.70	5036.10	YM-61	0.00	0.00	180.00	175.00	180.00	0.00	0.000	0.037
100564.30	49899.70	5036.10	YM-61	0.00	0.00	180.00	180.00	185.00	0.00	0.000	0.037
100564.30	49899.70	5036.10	YM-61	0.00	0.00	180.00	185.00	190.00	0.00	0.000	0.037
100361.30	49612.90	5039.50	YM-62	0.00	0.00	180.00	250.00	290.00	0.00	-1.000	0.040
100116.00	49610.10	4989.50	YM-76	0.00	0.00	180.00	75.00	80.00	0.00	-1.000	0.034
100116.00	49610.10	4989.50	YM-76	0.00	0.00	180.00	80.00	85.00	0.00	-1.000	0.034
100116.00	49610.10	4989.50	YM-76	0.00	0.00	180.00	85.00	90.00	0.00	-1.000	0.034
100175.70	49536.70	4982.10	YM-77	0.00	0.00	180.00	107.00	110.00	0.00	-1.000	0.048
100175.70	49536.70	4982.10	YM-77	0.00	0.00	180.00	110.00	115.00	0.00	-1.000	0.048
100175.70	49536.70	4982.10	YM-77	0.00	0.00	180.00	115.00	120.00	0.00	-1.000	0.048
100419.10	49805.20	5072.60	YM-83	0.00	0.00	180.00	205.00	225.00	0.00	-1.000	0.044

This file shows all intervals with

① NEW value different from CURRENT value.

100257.20	49559.20	5003.30	YM-91	0.00	0.00	180.00	95.00	100.00	0.00	0.030	0.051
100257.20	49559.20	5003.30	YM-91	0.00	0.00	180.00	100.00	105.00	0.00	0.004	0.051
100257.20	49559.20	5003.30	YM-91	0.00	0.00	180.00	105.00	125.00	0.00	-1.000	0.051
100257.20	49559.20	5003.30	YM-91	0.00	0.00	180.00	125.00	130.00	0.00	0.024	0.051
100257.20	49559.20	5003.30	YM-91	0.00	0.00	180.00	130.00	140.00	0.00	-1.000	0.051
100257.20	49559.20	5003.30	YM-91	0.00	0.00	180.00	140.00	145.00	0.00	0.003	0.051
100257.20	49559.20	5003.30	YM-91	0.00	0.00	180.00	145.00	150.00	0.00	0.014	0.051

JDS

BULK ASSAY REPORT

TRIAD MINERALS CO.
ASSAYING & CONSULTING
P.O. Box 2754 - Mile Post 115, Hwy. 89
Wickenburg, Arizona 85358
602-684-3616

DATE 9-29-89

ASARCO Incorporated
OCT 3 1989
SW Exploration

COMPANY ASARCO LAB #092889-2

HOLE # 94

PAGE 1

Sample Description	Ounces per ton AU (gold)	Ounces per ton AG (silver)	Remarks
YM 94 0-5	.008		
" " 5-10	.006		
" " 10-15	.011		
" " 15-20	.005		
" " 20-25	.005		
94 A 21-24	~~LOST BEAD~~ 0.006	contd	
YM 94 25-30	REFIRING		
" " 30-35	.003		
" " 35-40	.003		
" " 40-45	.007		
" " 45-50	.004		
" " 50-55	.003		
" " 55-60	.010		
" " 60-65	.007		
" " 65-70	.007		
" " 70-75	.011		
" " 75-80	.009		
" " 80-85	.013		
" " 85-90	.005		
" " 90-95	.003		
" " 95-100	.002		
" " 100-105	.006		

To be continued

Certified Assays When Signed And Dated
9-29-89 [illegible]
DATE SIGNATURE

BULK ASSAY REPORT

TRIAD MINERALS CO.
ASSAYING & CONSULTING
P.O. Box 2754 • Mile Post 115, Hwy. 89
Wickenburg, Arizona 85358
602-684-3816

DATE 9-30-89

ASARCO Incorporated

OCT 3 1989

COMPANY ASARCO LAB #092889-5

REFIRES

Sample Description	Ounces per ton AU (gold)	Ounces per ton AG (silver)	Remarks
YM 94 A 21-24	.022	contd	
" " 25-30	.006		
To be continued			

Certified Assays When Signed And Dated

9-30-89 [signature]
DATE SIGNATURE

BULK ASSAY REPORT

TRIAD MINERALS CO.
ASSAYING & CONSULTING
P.O. Box 2754 - Mile Post 115, Hwy. 89
Wickenburg, Arizona 85358
602-684-3816

DATE 10-16-89

ASARCO Incorporated

COMPANY ASARCO LAB #101389-2

OCT 16 1989

HOLE # 94

PAGE 2

SW Exploration

Sample Description	Ounces per ton AU (gold)	AG (silver)	Remarks
YM 94 105-110	.028		
" " 110-115	.010		
" " 115-120	.279		
" " 120-125	.140		B = 105-155 = 50' = 0.777/9 = 0.0863
" " 121-124	.009	contd	50' at 0.086
" " 125-127	.144		
" " 127-130	.084		
" " 130-135	~~NO SAMPLE~~	0.086	
" " 135-140	.121		
" " 140-145	.018		
" " 145-150	.014		
" " 150-155	.023		
" " 155-160	.005		
" " 160-165	.005		
" " 165-170	.006		
" " 170-175	.009		
" " 175-180	.013		
" " 180-185	.004		
" " 185-190	.059		
" " 190-195	.002		
" " 191-194 A	.020	contd	

Certified Assays When Signed And Dated

10-16-89 [illegible]

DATE SIGNATURE

ASARCO

Southwestern Exploration Division

JDS

November 16, 1989

FILE NOTE

Computer Grade Additions
Yarnell Project
Yavapai County, AZ

Many of the drill holes had missing samples and values of NIL and TR. For the computer it was necessary to fill in a grade number for these or the computer would call it zero.

Also, the computer called the stope areas zero grade, and I have recalculated these values to be the average of the remaining Main "B" zone mineralization, thus preserving the grade in the zone.

Some samples were found by the assayer and put on separate sheets which the computer did not collate. These also have been updated on the attached sheets.

The attached sheets are my best guess at the value.

Any corrections should be brought to my attention.

James D. Sell

James D. Sell

JDS:mek
Att.

cc: W.L. Kurtz
M.A. Miller

						FROM	TO		Current AU	New AU	
100255.50	49875.40	5078.50	YM-1	220.0	0.0180.0	40.0	45.0	0.0	0.000	0.000	
100255.50	49875.40	5078.50	YM-1	220.0	0.0180.0	100.0	105.0	0.0	-1.000	0.053	
100255.50	49875.40	5078.50	YM-1	220.0	0.0180.0	105.0	110.0	0.0	-1.000	0.053	
100255.50	49875.40	5078.50	YM-1	220.0	0.0180.0	110.0	115.0	0.0	-1.000	0.053	
100255.50	49875.40	5078.50	YM-1	220.0	0.0180.0	115.0	120.0	0.0	-1.000	0.053	
100255.50	49875.40	5078.50	YM-1	220.0	0.0180.0	160.0	165.0	0.0	0.000	0.000	0.003
100255.50	49875.40	5078.50	YM-1	220.0	0.0180.0	165.0	170.0	0.0	0.000	0.000	0.001
100255.50	49875.40	5078.50	YM-1	220.0	0.0180.0	180.0	185.0	0.0	0.000	0.000	0.001
100255.50	49875.40	5078.50	YM-1	220.0	0.0180.0	185.0	190.0	0.0	0.000	0.000	0.001
100255.50	49875.40	5078.50	YM-1	220.0	0.0180.0	190.0	195.0	0.0	0.000	0.000	0.001
100490.70	49860.60	5063.00	YM-2	350.0	0.0180.0	200.0	205.0	0.0	-1.000	0.049	
100490.70	49860.60	5063.00	YM-2	350.0	0.0180.0	205.0	210.0	0.0	-1.000	0.049	
100490.70	49860.60	5063.00	YM-2	350.0	0.0180.0	210.0	215.0	0.0	-1.000	0.049	
100490.70	49860.60	5063.00	YM-2	350.0	0.0180.0	215.0	220.0	0.0	-1.000	0.049	
100490.70	49860.60	5063.00	YM-2	350.0	0.0180.0	220.0	225.0	0.0	-1.000	0.049	
100490.70	49860.60	5063.00	YM-2	350.0	0.0180.0	225.0	230.0	0.0	-1.000	0.049	
100490.70	49860.60	5063.00	YM-2	350.0	0.0180.0	230.0	235.0	0.0	-1.000	0.049	
100490.70	49860.60	5063.00	YM-2	350.0	0.0180.0	235.0	240.0	0.0	-1.000	0.049	
100490.70	49860.60	5063.00	YM-2	350.0	0.0180.0	320.0	325.0	0.0	0.000	0.000	0.001
100490.70	49860.60	5063.00	YM-2	350.0	0.0180.0	325.0	330.0	0.0	0.000	0.000	0.001
100490.70	49860.60	5063.00	YM-2	350.0	0.0180.0	330.0	335.0	0.0	0.000	0.000	0.001
100505.30	49675.80	5052.30	YM-4	440.0	0.0180.0	145.0	150.0	0.0	0.000	0.000	0.001
100505.30	49675.80	5052.30	YM-4	440.0	0.0180.0	155.0	160.0	0.0	0.000	0.000	0.001
100505.30	49675.80	5052.30	YM-4	440.0	0.0180.0	335.0	340.0	0.0	0.000	0.000	0.001
100505.30	49675.80	5052.30	YM-4	440.0	0.0180.0	340.0	345.0	0.0	0.000	0.000	0.001
100505.30	49675.80	5052.30	YM-4	440.0	0.0180.0	355.0	360.0	0.0	0.000	0.000	0.001
100505.30	49675.80	5052.30	YM-4	440.0	0.0180.0	405.0	410.0	0.0	0.000	0.000	0.001
100505.30	49675.80	5052.30	YM-4	440.0	0.0180.0	410.0	415.0	0.0	0.000	0.000	0.001
100505.30	49675.80	5052.30	YM-4	440.0	0.0180.0	415.0	420.0	0.0	0.000	0.000	0.001
100505.30	49675.80	5052.30	YM-4	440.0	0.0180.0	420.0	425.0	0.0	0.000	0.000	0.001
100505.30	49675.80	5052.30	YM-4	440.0	0.0180.0	425.0	430.0	0.0	0.000	0.000	0.001
100505.30	49675.80	5052.30	YM-4	440.0	0.0180.0	430.0	435.0	0.0	0.000	0.000	0.001
100437.10	49565.20	5041.80	YM-5	370.0	0.0180.0	0.0	5.0	0.0	0.000	0.000	0.002
100437.10	49565.20	5041.80	YM-5	370.0	0.0180.0	5.0	10.0	0.0	0.000	0.000	0.001
100437.10	49565.20	5041.80	YM-5	370.0	0.0180.0	30.0	35.0	0.0	0.000	0.000	0.001
100437.10	49565.20	5041.80	YM-5	370.0	0.0180.0	85.0	90.0	0.0	0.000	0.000	0.001
100437.10	49565.20	5041.80	YM-5	370.0	0.0180.0	100.0	105.0	0.0	0.000	0.000	0.001
100437.10	49565.20	5041.80	YM-5	370.0	0.0180.0	105.0	110.0	0.0	0.000	0.000	0.001
100437.10	49565.20	5041.80	YM-5	370.0	0.0180.0	125.0	130.0	0.0	0.000	0.000	0.001
100437.10	49565.20	5041.80	YM-5	370.0	0.0180.0	135.0	140.0	0.0	0.000	0.000	0.001
100437.10	49565.20	5041.80	YM-5	370.0	0.0180.0	140.0	145.0	0.0	0.000	0.000	0.001
100437.10	49565.20	5041.80	YM-5	370.0	0.0180.0	145.0	150.0	0.0	0.000	0.000	0.001
100437.10	49565.20	5041.80	YM-5	370.0	0.0180.0	295.0	300.0	0.0	-1.000	0.041	
100437.10	49565.20	5041.80	YM-5	370.0	0.0180.0	300.0	305.0	0.0	-1.000	0.041	
100437.10	49565.20	5041.80	YM-5	370.0	0.0180.0	305.0	310.0	0.0	-1.000	0.041	
100437.10	49565.20	5041.80	YM-5	370.0	0.0180.0	310.0	315.0	0.0	-1.000	0.041	
100437.10	49565.20	5041.80	YM-5	370.0	0.0180.0	315.0	320.0	0.0	-1.000	0.041	
100437.10	49565.20	5041.80	YM-5	370.0	0.0180.0	320.0	325.0	0.0	-1.000	0.041	
100437.10	49565.20	5041.80	YM-5	370.0	0.0180.0	325.0	330.0	0.0	-1.000	0.041	
100437.10	49565.20	5041.80	YM-5	370.0	0.0180.0	330.0	335.0	0.0	0.004	0.041	
100278.70	49286.70	4949.00	YM-6	400.0	0.0180.0	240.0	245.0	0.0	0.000	0.000	0.003
100278.70	49286.70	4949.00	YM-6	400.0	0.0180.0	395.0	400.0	0.0	0.000	0.000	0.001
100260.50	49471.60	4986.90	YM-7	292.0	0.0180.0	220.0	225.0	0.0	-1.000	0.047	
100717.90	49749.20	4957.90	YM-8	350.0	0.0180.0	135.0	140.0	0.0	0.000	0.000	0.017
100734.80	49577.20	4930.20	YM-9	350.0	0.0180.0	180.0	185.0	0.0	0.000	0.000	0.005
100734.80	49577.20	4930.20	YM-9	350.0	0.0180.0	185.0	190.0	0.0	0.000	0.000	0.010
100734.80	49577.20	4930.20	YM-9	350.0	0.0180.0	195.0	200.0	0.0	0.000	0.000	0.001
100734.80	49577.20	4930.20	YM-9	350.0	0.0180.0	205.0	210.0	0.0	0.000	0.000	0.001

Jim

This is a file showing all intervals with

1. NEW value different from CURRENT value
2. NEW value = -1.000
3. NEW value = 0.000

The list on which you added values did not include 3 above. Thought you should review these one more time before we build the final model.

Rob

100734.80	49577.20	4930.20	YM-9	350.0	0.0180.0	210.0	215.0	0.0	0.000	0.000	0.001
100356.50	49788.40	5073.60	YM-12	0.0	0.0180.0	180.0	183.0	0.0	0.008	0.039	
100356.50	49788.40	5073.60	YM-12	0.0	0.0180.0	183.0	190.0	0.0	-1.000	0.039	
100356.50	49788.40	5073.60	YM-12	0.0	0.0180.0	190.0	195.0	0.0	-1.000	0.039	
100383.90	50017.00	5057.10	YM-16	0.0	0.0180.0	65.0	70.0	0.0	-1.000	0.039	
100383.90	50017.00	5057.10	YM-16	0.0	0.0180.0	80.0	85.0	0.0	-1.000	-1.000	0.039
100062.90	49349.40	4893.50	YM-24	0.0	0.0180.0	65.0	70.0	0.0	-1.000	0.093	
100062.90	49349.40	4893.50	YM-24	0.0	0.0180.0	70.0	75.0	0.0	-1.000	0.093	
100063.10	49533.70	4947.30	YM-25	0.0	0.0180.0	20.0	25.0	0.0	-1.000	-1.000	0.007
100063.10	49533.70	4947.30	YM-25	0.0	0.0180.0	45.0	50.0	0.0	-1.000	-1.000	0.015
100427.50	49139.40	4911.00	YM-26	0.0	0.0180.0	5.0	10.0	0.0	-1.000	-1.000	0.002
100427.50	49139.40	4911.00	YM-26	0.0	0.0180.0	15.0	20.0	0.0	-1.000	-1.000	0.002
100427.50	49139.40	4911.00	YM-26	0.0	0.0180.0	25.0	30.0	0.0	-1.000	-1.000	0.002
100427.50	49139.40	4911.00	YM-26	0.0	0.0180.0	35.0	40.0	0.0	-1.000	-1.000	0.002
100427.50	49139.40	4911.00	YM-26	0.0	0.0180.0	45.0	50.0	0.0	-1.000	-1.000	0.002
100427.50	49139.40	4911.00	YM-26	0.0	0.0180.0	55.0	60.0	0.0	-1.000	-1.000	0.002
100427.50	49139.40	4911.00	YM-26	0.0	0.0180.0	65.0	70.0	0.0	-1.000	-1.000	0.002
100427.50	49139.40	4911.00	YM-26	0.0	0.0180.0	75.0	80.0	0.0	-1.000	-1.000	0.002
100427.50	49139.40	4911.00	YM-26	0.0	0.0180.0	85.0	90.0	0.0	-1.000	-1.000	0.001
100427.50	49139.40	4911.00	YM-26	0.0	0.0180.0	95.0	100.0	0.0	-1.000	-1.000	0.001
100427.50	49139.40	4911.00	YM-26	0.0	0.0180.0	105.0	110.0	0.0	-1.000	-1.000	0.001
100427.50	49139.40	4911.00	YM-26	0.0	0.0180.0	115.0	120.0	0.0	-1.000	-1.000	0.002
100427.50	49139.40	4911.00	YM-26	0.0	0.0180.0	125.0	130.0	0.0	-1.000	-1.000	0.002
100427.50	49139.40	4911.00	YM-26	0.0	0.0180.0	135.0	140.0	0.0	-1.000	-1.000	0.003
100427.50	49139.40	4911.00	YM-26	0.0	0.0180.0	145.0	150.0	0.0	-1.000	-1.000	0.003
100427.50	49139.40	4911.00	YM-26	0.0	0.0180.0	155.0	160.0	0.0	-1.000	-1.000	0.003
100427.50	49139.40	4911.00	YM-26	0.0	0.0180.0	165.0	170.0	0.0	-1.000	-1.000	0.002
100427.50	49139.40	4911.00	YM-26	0.0	0.0180.0	175.0	180.0	0.0	-1.000	-1.000	0.002
100427.50	49139.40	4911.00	YM-26	0.0	0.0180.0	185.0	190.0	0.0	-1.000	-1.000	0.003
100427.50	49139.40	4911.00	YM-26	0.0	0.0180.0	195.0	200.0	0.0	-1.000	-1.000	0.007
100923.00	49436.30	4835.40	YM-27	0.0	0.0180.0	0.0	5.0	0.0	-1.000	-1.000	0.002
100118.70	48832.50	4858.60	YM-29	0.0	0.0180.0	265.0	270.0	0.0	-1.000	-1.000	0.004
100587.80	49594.90	5010.70	YM-39	0.0	0.0180.0	220.0	225.0	0.0	-1.000	-1.000	0.002
100587.80	49594.90	5010.70	YM-39	0.0	0.0180.0	240.0	245.0	0.0	-1.000	-1.000	0.003
100564.30	49330.10	4978.40	YM-41	0.0	0.0180.0	245.0	250.0	0.0	0.000	0.000	0.001
100564.30	49330.10	4978.40	YM-41	0.0	0.0180.0	405.0	410.0	0.0	-1.000	-1.000	0.001
100760.10	49454.90	4909.60	YM-42	0.0	0.0180.0	60.0	65.0	0.0	0.000	0.000	0.001
100760.10	49454.90	4909.60	YM-42	0.0	0.0180.0	65.0	70.0	0.0	0.000	0.000	0.001
100760.10	49454.90	4909.60	YM-42	0.0	0.0180.0	155.0	160.0	0.0	0.000	0.000	0.001
100760.10	49454.90	4909.60	YM-42	0.0	0.0180.0	390.0	395.0	0.0	-1.000	-1.000	0.001
100760.10	49454.90	4909.60	YM-42	0.0	0.0180.0	395.0	400.0	0.0	-1.000	-1.000	0.001
100793.20	50066.00	4907.90	YM-43	0.0	0.0180.0	110.0	115.0	0.0	0.000	0.000	0.001
100793.20	50066.00	4907.90	YM-43	0.0	0.0180.0	130.0	135.0	0.0	0.000	0.000	0.001
100793.20	50066.00	4907.90	YM-43	0.0	0.0180.0	135.0	140.0	0.0	0.000	0.000	0.001
100850.20	49780.10	4910.50	YM-44	0.0	0.0180.0	120.0	125.0	0.0	-1.000	-1.000	0.005
100850.20	49780.10	4910.50	YM-44	0.0	0.0180.0	305.0	310.0	0.0	0.000	0.000	0.001
100194.00	50136.70	5086.00	270E	0.0	0.0180.0	5.0	10.0	0.0	-1.000	-1.000	0.022
100104.50	49097.30	4873.40	YM-47	0.0	0.0180.0	50.0	55.0	0.0	-1.000	-1.000	0.002
100391.20	49885.20	5073.80	YM-55	0.0	0.0180.0	150.0	155.0	0.0	-1.000	0.500	
100391.20	49885.20	5073.80	YM-55	0.0	0.0180.0	155.0	160.0	0.0	-1.000	0.050	
100391.20	49885.20	5073.80	YM-55	0.0	0.0180.0	160.0	165.0	0.0	-1.000	0.050	
100254.50	50021.20	5090.10	YM-57	0.0	0.0180.0	50.0	55.0	0.0	-1.000	0.035	
100254.50	50021.20	5090.10	YM-57	0.0	0.0180.0	55.0	60.0	0.0	-1.000	0.035	
100254.50	50021.20	5090.10	YM-57	0.0	0.0180.0	60.0	65.0	0.0	-1.000	0.035	
100467.50	50107.50	5009.90	YM-60	0.0	0.0180.0	15.0	20.0	0.0	-1.000	-1.000	0.003
100564.30	49899.70	5036.10	YM-61	0.0	0.0180.0	175.0	180.0	0.0	0.000	0.037	
100564.30	49899.70	5036.10	YM-61	0.0	0.0180.0	180.0	185.0	0.0	0.000	0.037	
100564.30	49899.70	5036.10	YM-61	0.0	0.0180.0	185.0	190.0	0.0	0.000	0.037	

100361.30	49612.90	5039.50	YM-62	0.0	0.0180.0	250.0	290.0	0.0	-1.000	0.040		
100361.30	49612.90	5039.50	YM-62	0.0	0.0180.0	290.0	295.0	0.0	-1.000	-1.000	0.043	
100188.00	49738.10	5041.50	YM-64	0.0	0.0180.0	190.0	195.0	0.0	-1.000	-1.000	0.023	
99789.80	49232.80	4848.50	YM-68	0.0	0.0180.0	5.0	10.0	0.0	-1.000	-1.000	0.002	
100371.20	49213.10	4951.20	YM-69	0.0	0.0180.0	20.0	25.0	0.0	-1.000	-1.000	0.012	
100116.00	49610.10	4989.50	YM-76	0.0	0.0180.0	75.0	80.0	0.0	-1.000	0.034		
100116.00	49610.10	4989.50	YM-76	0.0	0.0180.0	80.0	85.0	0.0	-1.000	0.034		
100116.00	49610.10	4989.50	YM-76	0.0	0.0180.0	85.0	90.0	0.0	-1.000	0.034		
100175.70	49536.70	4982.10	YM-77	0.0	0.0180.0	107.0	110.0	0.0	-1.000	0.048		
100175.70	49536.70	4982.10	YM-77	0.0	0.0180.0	110.0	115.0	0.0	-1.000	0.048		
100175.70	49536.70	4982.10	YM-77	0.0	0.0180.0	115.0	120.0	0.0	-1.000	0.048		
100475.40	49755.90	5067.10	YM-80	0.0	0.0180.0	0.0	5.0	0.0	-1.000	-1.000	0.002	
100475.40	49755.90	5067.10	YM-80	0.0	0.0180.0	5.0	10.0	0.0	-1.000	-1.000	0.002	
100419.10	49805.20	5072.60	YM-83	0.0	0.0180.0	205.0	225.0	0.0	-1.000	0.044		
100419.10	49805.20	5072.60	YM-83	0.0	0.0180.0	275.0	280.0	0.0	-1.000	-1.000	0.001	
100483.60	50401.70	4975.90	YM-85	0.0	0.0180.0	45.0	50.0	0.0	-1.000	-1.000	0.001	
100636.90	50574.20	5010.20	YM-86	0.0	0.0180.0	40.0	45.0	0.0	-1.000	-1.000	0.001	
100636.90	50574.20	5010.20	YM-86	0.0	0.0180.0	110.0	115.0	0.0	-1.000	-1.000	0.001	
100636.90	50574.20	5010.20	YM-86	0.0	0.0180.0	120.0	125.0	0.0	-1.000	-1.000	0.001	
100636.90	50574.20	5010.20	YM-86	0.0	0.0180.0	125.0	130.0	0.0	-1.000	-1.000	0.001	
100636.90	50574.20	5010.20	YM-86	0.0	0.0180.0	135.0	140.0	0.0	-1.000	-1.000	0.001	
100477.20	49270.80	4977.50	YM-87	0.0	0.0180.0	95.0	100.0	0.0	-1.000	-1.000	0.001	
100477.20	49270.80	4977.50	YM-87	0.0	0.0180.0	135.0	140.0	0.0	-1.000	-1.000	0.001	
100477.20	49270.80	4977.50	YM-87	0.0	0.0180.0	150.0	155.0	0.0	-1.000	-1.000	0.001	
100365.60	49438.80	5012.30	YM-88	0.0	0.0180.0	55.0	60.0	0.0	-1.000	-1.000	0.007	
100365.60	49438.80	5012.30	YM-88	0.0	0.0180.0	200.0	205.0	0.0	-1.000	-1.000	0.003	
100365.60	49438.80	5012.30	YM-88	0.0	0.0180.0	280.0	285.0	0.0	-1.000	-1.000	0.141	
100365.60	49438.80	5012.30	YM-88	0.0	0.0180.0	360.0	365.0	0.0	-1.000	-1.000	0.003	
100292.00	49620.80	5027.00	YM-90	0.0	0.0180.0	260.0	265.0	0.0	-1.000	-1.000	0.001	
100292.00	49620.80	5027.00	YM-90	0.0	0.0180.0	315.0	320.0	0.0	-1.000	-1.000	0.001	
100257.20	49559.20	5003.30	YM-91	0.0	0.0180.0	95.0	100.0	0.0	0.030	0.051		
100257.20	49559.20	5003.30	YM-91	0.0	0.0180.0	100.0	105.0	0.0	0.004	0.051		
100257.20	49559.20	5003.30	YM-91	0.0	0.0180.0	105.0	125.0	0.0	-1.000	0.051		
100257.20	49559.20	5003.30	YM-91	0.0	0.0180.0	125.0	130.0	0.0	0.024	0.051		
100257.20	49559.20	5003.30	YM-91	0.0	0.0180.0	130.0	140.0	0.0	-1.000	0.051		
100257.20	49559.20	5003.30	YM-91	0.0	0.0180.0	140.0	145.0	0.0	0.003	0.051		
100257.20	49559.20	5003.30	YM-91	0.0	0.0180.0	145.0	150.0	0.0	0.014	0.051		

Non highlight Values Still 0.00 in Journal inventory 11/13/89

_PVAX02$DKA100:[PROJECT.YARNELL]YARN_CHANGED_AND_LT_0.DAT;1 13-NOV-1989 12:12

						Fr	To		Current Au	New Au	
100255.50	49875.40	5078.50	YM-1	220.0	0.0180.0	100.0	105.0	0.0	-1.000	0.053	
100255.50	49875.40	5078.50	YM-1	220.0	0.0180.0	105.0	110.0	0.0	-1.000	0.053	
100255.50	49875.40	5078.50	YM-1	220.0	0.0180.0	110.0	115.0	0.0	-1.000	0.053	
100255.50	49875.40	5078.50	YM-1	220.0	0.0180.0	115.0	120.0	0.0	-1.000	0.053	
100490.70	49860.60	5063.00	YM-2	350.0	0.0180.0	200.0	205.0	0.0	-1.000	0.049	
100490.70	49860.60	5063.00	YM-2	350.0	0.0180.0	205.0	210.0	0.0	-1.000	0.049	
100490.70	49860.60	5063.00	YM-2	350.0	0.0180.0	210.0	215.0	0.0	-1.000	0.049	
100490.70	49860.60	5063.00	YM-2	350.0	0.0180.0	215.0	220.0	0.0	-1.000	0.049	
100490.70	49860.60	5063.00	YM-2	350.0	0.0180.0	220.0	225.0	0.0	-1.000	0.049	
100490.70	49860.60	5063.00	YM-2	350.0	0.0180.0	225.0	230.0	0.0	-1.000	0.049	
100490.70	49860.60	5063.00	YM-2	350.0	0.0180.0	230.0	235.0	0.0	-1.000	0.049	
100490.70	49860.60	5063.00	YM-2	350.0	0.0180.0	235.0	240.0	0.0	-1.000	0.049	
100437.10	49565.20	5041.80	YM-5	370.0	0.0180.0	295.0	300.0	0.0	-1.000	0.041	
100437.10	49565.20	5041.80	YM-5	370.0	0.0180.0	300.0	305.0	0.0	-1.000	0.041	
100437.10	49565.20	5041.80	YM-5	370.0	0.0180.0	305.0	310.0	0.0	-1.000	0.041	
100437.10	49565.20	5041.80	YM-5	370.0	0.0180.0	310.0	315.0	0.0	-1.000	0.041	
100437.10	49565.20	5041.80	YM-5	370.0	0.0180.0	315.0	320.0	0.0	-1.000	0.041	
100437.10	49565.20	5041.80	YM-5	370.0	0.0180.0	320.0	325.0	0.0	-1.000	0.041	
100437.10	49565.20	5041.80	YM-5	370.0	0.0180.0	325.0	330.0	0.0	-1.000	0.041	
100437.10	49565.20	5041.80	YM-5	370.0	0.0180.0	330.0	335.0	0.0	0.004	0.041	
100260.50	49471.60	4986.90	YM-7	292.0	0.0180.0	220.0	225.0	0.0	-1.000	0.047	
100356.50	49788.40	5073.60	YM-12	0.0	0.0180.0	180.0	183.0	0.0	0.008	0.039	
100356.50	49788.40	5073.60	YM-12	0.0	0.0180.0	183.0	190.0	0.0	-1.000	0.039	
100356.50	49788.40	5073.60	YM-12	0.0	0.0180.0	190.0	195.0	0.0	-1.000	0.039	
100383.90	50017.00	5057.10	YM-16	0.0	0.0180.0	65.0	70.0	0.0	-1.000	0.039	
100383.90	50017.00	5057.10	YM-16	0.0	0.0180.0	80.0	85.0	0.0	-1.000	-1.000	0.39
100062.90	49349.40	4893.50	YM-24	0.0	0.0180.0	65.0	70.0	0.0	-1.000	0.093	
100062.90	49349.40	4893.50	YM-24	0.0	0.0180.0	70.0	75.0	0.0	-1.000	0.093	
100063.10	49533.70	4947.30	YM-25	0.0	0.0180.0	20.0	25.0	0.0	-1.000	-1.000	0.007
100063.10	49533.70	4947.30	YM-25	0.0	0.0180.0	45.0	50.0	0.0	-1.000	-1.000	0.015
100427.50	49139.40	4911.00	YM-26	0.0	0.0180.0	5.0	10.0	0.0	-1.000	-1.000	0.002
100427.50	49139.40	4911.00	YM-26	0.0	0.0180.0	15.0	20.0	0.0	-1.000	-1.000	0.002
100427.50	49139.40	4911.00	YM-26	0.0	0.0180.0	25.0	30.0	0.0	-1.000	-1.000	0.002
100427.50	49139.40	4911.00	YM-26	0.0	0.0180.0	35.0	40.0	0.0	-1.000	-1.000	0.002
100427.50	49139.40	4911.00	YM-26	0.0	0.0180.0	45.0	50.0	0.0	-1.000	-1.000	0.002
100427.50	49139.40	4911.00	YM-26	0.0	0.0180.0	55.0	60.0	0.0	-1.000	-1.000	0.002
100427.50	49139.40	4911.00	YM-26	0.0	0.0180.0	65.0	70.0	0.0	-1.000	-1.000	0.002
100427.50	49139.40	4911.00	YM-26	0.0	0.0180.0	75.0	80.0	0.0	-1.000	-1.000	0.002
100427.50	49139.40	4911.00	YM-26	0.0	0.0180.0	85.0	90.0	0.0	-1.000	-1.000	0.001
100427.50	49139.40	4911.00	YM-26	0.0	0.0180.0	95.0	100.0	0.0	-1.000	-1.000	0.001
100427.50	49139.40	4911.00	YM-26	0.0	0.0180.0	105.0	110.0	0.0	-1.000	-1.000	0.001
100427.50	49139.40	4911.00	YM-26	0.0	0.0180.0	115.0	120.0	0.0	-1.000	-1.000	0.002
100427.50	49139.40	4911.00	YM-26	0.0	0.0180.0	125.0	130.0	0.0	-1.000	-1.000	0.002
100427.50	49139.40	4911.00	YM-26	0.0	0.0180.0	135.0	140.0	0.0	-1.000	-1.000	0.003
100427.50	49139.40	4911.00	YM-26	0.0	0.0180.0	145.0	150.0	0.0	-1.000	-1.000	0.003
100427.50	49139.40	4911.00	YM-26	0.0	0.0180.0	155.0	160.0	0.0	-1.000	-1.000	0.003
100427.50	49139.40	4911.00	YM-26	0.0	0.0180.0	165.0	170.0	0.0	-1.000	-1.000	0.002
100427.50	49139.40	4911.00	YM-26	0.0	0.0180.0	175.0	180.0	0.0	-1.000	-1.000	0.002
100427.50	49139.40	4911.00	YM-26	0.0	0.0180.0	185.0	190.0	0.0	-1.000	-1.000	0.003
100427.50	49139.40	4911.00	YM-26	0.0	0.0180.0	195.0	200.0	0.0	-1.000	-1.000	0.010
100923.00	49436.30	4835.40	YM-27	0.0	0.0180.0	0.0	5.0	0.0	-1.000	-1.000	0.002
100118.70	48832.50	4858.60	YM-29	0.0	0.0180.0	265.0	270.0	0.0	-1.000	-1.000	0.003
100587.80	49594.90	5010.70	YM-39	0.0	0.0180.0	220.0	225.0	0.0	-1.000	-1.000	0.002
100587.80	49594.90	5010.70	YM-39	0.0	0.0180.0	240.0	245.0	0.0	-1.000	-1.000	0.003
100564.30	49330.10	4978.40	YM-41	0.0	0.0180.0	405.0	410.0	0.0	-1.000	-1.000	0.001
100760.10	49454.90	4909.60	YM-42	0.0	0.0180.0	390.0	395.0	0.0	-1.000	-1.000	0.001
100760.10	49454.90	4909.60	YM-42	0.0	0.0180.0	395.0	400.0	0.0	-1.000	-1.000	0.001
100850.20	49780.10	4910.50	YM-44	0.0	0.0180.0	120.0	125.0	0.0	-1.000	-1.000	0.005

This file shows all intervals with

① NEW value different from CURRENT value

② NEW value = -1.000

						FROM	TO		CURRENT AU	NEW AU	
100194.00	50136.70	5086.00	270E	0.0	0.0180.0	5.0	10.0	0.0	-1.000	-1.000	0.022
100104.50	49097.30	4873.40	YM-47	0.0	0.0180.0	50.0	55.0	0.0	-1.000	-1.000	0.003
100391.20	49885.20	5073.80	YM-55	0.0	0.0180.0	150.0	155.0	0.0	-1.000	0.500	fixed 0.05
100391.20	49885.20	5073.80	YM-55	0.0	0.0180.0	155.0	160.0	0.0	-1.000	0.050	
100391.20	49885.20	5073.80	YM-55	0.0	0.0180.0	160.0	165.0	0.0	-1.000	0.050	
100254.50	50021.20	5090.10	YM-57	0.0	0.0180.0	50.0	55.0	0.0	-1.000	0.035	
100254.50	50021.20	5090.10	YM-57	0.0	0.0180.0	55.0	60.0	0.0	-1.000	0.035	
100254.50	50021.20	5090.10	YM-57	0.0	0.0180.0	60.0	65.0	0.0	-1.000	0.035	
100467.50	50107.50	5009.90	YM-60	0.0	0.0180.0	15.0	20.0	0.0	-1.000	-1.000	0.003
100564.30	49899.70	5036.10	YM-61	0.0	0.0180.0	175.0	180.0	0.0	0.000	0.037	
100564.30	49899.70	5036.10	YM-61	0.0	0.0180.0	180.0	185.0	0.0	0.000	0.037	
100564.30	49899.70	5036.10	YM-61	0.0	0.0180.0	185.0	190.0	0.0	0.000	0.037	
100361.30	49612.90	5039.50	YM-62	0.0	0.0180.0	250.0	290.0	0.0	-1.000	0.040	
100361.30	49612.90	5039.50	YM-62	0.0	0.0180.0	290.0	295.0	0.0	-1.000	-1.000	0.043
100188.00	49738.10	5041.50	YM-64	0.0	0.0180.0	190.0	195.0	0.0	-1.000	-1.000	0.023
99789.80	49232.80	4848.50	YM-68	0.0	0.0180.0	5.0	10.0	0.0	-1.000	-1.000	0.002
100371.20	49213.10	4951.20	YM-69	0.0	0.0180.0	20.0	25.0	0.0	-1.000	-1.000	0.012
100116.00	49610.10	4989.50	YM-76	0.0	0.0180.0	75.0	80.0	0.0	-1.000	0.034	
100116.00	49610.10	4989.50	YM-76	0.0	0.0180.0	80.0	85.0	0.0	-1.000	0.034	
100116.00	49610.10	4989.50	YM-76	0.0	0.0180.0	85.0	90.0	0.0	-1.000	0.034	
100175.70	49536.70	4982.10	YM-77	0.0	0.0180.0	107.0	110.0	0.0	-1.000	0.048	
100175.70	49536.70	4982.10	YM-77	0.0	0.0180.0	110.0	115.0	0.0	-1.000	0.048	
100175.70	49536.70	4982.10	YM-77	0.0	0.0180.0	115.0	120.0	0.0	-1.000	0.048	
100475.40	49755.90	5067.10	YM-80	0.0	0.0180.0	0.0	5.0	0.0	-1.000	-1.000	0.002
100475.40	49755.90	5067.10	YM-80	0.0	0.0180.0	5.0	10.0	0.0	-1.000	-1.000	0.002
100419.10	49805.20	5072.60	YM-83	0.0	0.0180.0	205.0	225.0	0.0	-1.000	0.044	
100419.10	49805.20	5072.60	YM-83	0.0	0.0180.0	275.0	280.0	0.0	-1.000	-1.000	0.001
100483.60	50401.70	4975.90	YM-85	0.0	0.0180.0	45.0	50.0	0.0	-1.000	-1.000	0.001
100636.90	50574.20	5010.20	YM-86	0.0	0.0180.0	40.0	45.0	0.0	-1.000	-1.000	0.001
100636.90	50574.20	5010.20	YM-86	0.0	0.0180.0	110.0	115.0	0.0	-1.000	-1.000	0.001
100636.90	50574.20	5010.20	YM-86	0.0	0.0180.0	120.0	125.0	0.0	-1.000	-1.000	0.001
100636.90	50574.20	5010.20	YM-86	0.0	0.0180.0	125.0	130.0	0.0	-1.000	-1.000	0.001
100636.90	50574.20	5010.20	YM-86	0.0	0.0180.0	135.0	140.0	0.0	-1.000	-1.000	0.001
100477.20	49270.80	4977.50	YM-87	0.0	0.0180.0	95.0	100.0	0.0	-1.000	-1.000	0.001
100477.20	49270.80	4977.50	YM-87	0.0	0.0180.0	135.0	140.0	0.0	-1.000	-1.000	0.001
100477.20	49270.80	4977.50	YM-87	0.0	0.0180.0	150.0	155.0	0.0	-1.000	-1.000	0.001
100365.60	49438.80	5012.30	YM-88	0.0	0.0180.0	55.0	60.0	0.0	-1.000	-1.000	0.007
100365.60	49438.80	5012.30	YM-88	0.0	0.0180.0	200.0	205.0	0.0	-1.000	-1.000	0.003
100365.60	49438.80	5012.30	YM-88	0.0	0.0180.0	280.0	285.0	0.0	-1.000	-1.000	0.141
100365.60	49438.80	5012.30	YM-88	0.0	0.0180.0	360.0	365.0	0.0	-1.000	-1.000	0.003
100292.00	49620.80	5027.00	YM-90	0.0	0.0180.0	260.0	265.0	0.0	-1.000	-1.000	0.001
100292.00	49620.80	5027.00	YM-90	0.0	0.0180.0	315.0	320.0	0.0	-1.000	-1.000	0.001
100257.20	49559.20	5003.30	YM-91	0.0	0.0180.0	95.0	100.0	0.0	0.030	0.051	
100257.20	49559.20	5003.30	YM-91	0.0	0.0180.0	100.0	105.0	0.0	0.004	0.051	
100257.20	49559.20	5003.30	YM-91	0.0	0.0180.0	105.0	125.0	0.0	-1.000	0.051	
100257.20	49559.20	5003.30	YM-91	0.0	0.0180.0	125.0	130.0	0.0	0.024	0.051	
100257.20	49559.20	5003.30	YM-91	0.0	0.0180.0	130.0	140.0	0.0	-1.000	0.051	
100257.20	49559.20	5003.30	YM-91	0.0	0.0180.0	140.0	145.0	0.0	0.003	0.051	
100257.20	49559.20	5003.30	YM-91	0.0	0.0180.0	145.0	150.0	0.0	0.014	0.051	

no data in file for 150'–130' —— use 0.051

150-155
155-160
160-165
165-170
170-175
175-180

Changes Re: JBSell Oct 27, 1989 Task I

100255.50	49875.40	5078.50	YM-1	220.00	0.00	180.00	100.00	105.00	0.00	-1.000	0.053
100255.50	49875.40	5078.50	YM-1	220.00	0.00	180.00	105.00	110.00	0.00	-1.000	0.053
100255.50	49875.40	5078.50	YM-1	220.00	0.00	180.00	110.00	115.00	0.00	-1.000	0.053
100255.50	49875.40	5078.50	YM-1	220.00	0.00	180.00	115.00	120.00	0.00	-1.000	0.053
100490.70	49860.60	5063.00	YM-2	350.00	0.00	180.00	200.00	205.00	0.00	-1.000	0.049
100490.70	49860.60	5063.00	YM-2	350.00	0.00	180.00	205.00	210.00	0.00	-1.000	0.049
100490.70	49860.60	5063.00	YM-2	350.00	0.00	180.00	210.00	215.00	0.00	-1.000	0.049
100490.70	49860.60	5063.00	YM-2	350.00	0.00	180.00	215.00	220.00	0.00	-1.000	0.049
100490.70	49860.60	5063.00	YM-2	350.00	0.00	180.00	220.00	225.00	0.00	-1.000	0.049
100490.70	49860.60	5063.00	YM-2	350.00	0.00	180.00	225.00	230.00	0.00	-1.000	0.049
100490.70	49860.60	5063.00	YM-2	350.00	0.00	180.00	230.00	235.00	0.00	-1.000	0.049
100490.70	49860.60	5063.00	YM-2	350.00	0.00	180.00	235.00	240.00	0.00	-1.000	0.049
100437.10	49565.20	5041.80	YM-5	370.00	0.00	180.00	295.00	300.00	0.00	-1.000	0.041
100437.10	49565.20	5041.80	YM-5	370.00	0.00	180.00	300.00	305.00	0.00	-1.000	0.041
100437.10	49565.20	5041.80	YM-5	370.00	0.00	180.00	305.00	310.00	0.00	-1.000	0.041
100437.10	49565.20	5041.80	YM-5	370.00	0.00	180.00	310.00	315.00	0.00	-1.000	0.041
100437.10	49565.20	5041.80	YM-5	370.00	0.00	180.00	315.00	320.00	0.00	-1.000	0.041
100437.10	49565.20	5041.80	YM-5	370.00	0.00	180.00	320.00	325.00	0.00	-1.000	0.041
100437.10	49565.20	5041.80	YM-5	370.00	0.00	180.00	325.00	330.00	0.00	-1.000	0.041
100437.10	49565.20	5041.80	YM-5	370.00	0.00	180.00	330.00	335.00	0.00	0.004	0.041
100260.50	49471.60	4986.90	YM-7	292.00	0.00	180.00	220.00	225.00	0.00	-1.000	0.047
100356.50	49788.40	5073.60	YM-12	0.00	0.00	180.00	180.00	183.00	0.00	0.008	0.039
100356.50	49788.40	5073.60	YM-12	0.00	0.00	180.00	183.00	190.00	0.00	-1.000	0.039
100356.50	49788.40	5073.60	YM-12	0.00	0.00	180.00	190.00	195.00	0.00	-1.000	0.039
100383.90	50017.00	5057.10	YM-16	0.00	0.00	180.00	65.00	70.00	0.00	-1.000	0.039
100062.90	49349.40	4893.50	YM-24	0.00	0.00	180.00	65.00	70.00	0.00	-1.000	0.093
100062.90	49349.40	4893.50	YM-24	0.00	0.00	180.00	70.00	75.00	0.00	-1.000	0.093
100391.20	49885.20	5073.80	YM-55	0.00	0.00	180.00	150.00	155.00	0.00	-1.000	0.050
100391.20	49885.20	5073.80	YM-55	0.00	0.00	180.00	155.00	160.00	0.00	-1.000	0.050
100391.20	49885.20	5073.80	YM-55	0.00	0.00	180.00	160.00	165.00	0.00	-1.000	0.050
100254.50	50021.20	5090.10	YM-57	0.00	0.00	180.00	50.00	55.00	0.00	-1.000	0.035
100254.50	50021.20	5090.10	YM-57	0.00	0.00	180.00	55.00	60.00	0.00	-1.000	0.035
100254.50	50021.20	5090.10	YM-57	0.00	0.00	180.00	60.00	65.00	0.00	-1.000	0.035
100564.30	49899.70	5036.10	YM-61	0.00	0.00	180.00	175.00	180.00	0.00	0.000	0.037
100564.30	49899.70	5036.10	YM-61	0.00	0.00	180.00	180.00	185.00	0.00	0.000	0.037
100564.30	49899.70	5036.10	YM-61	0.00	0.00	180.00	185.00	190.00	0.00	0.000	0.037
100361.30	49612.90	5039.50	YM-62	0.00	0.00	180.00	250.00	290.00	0.00	-1.000	0.040
100116.00	49610.10	4989.50	YM-76	0.00	0.00	180.00	75.00	80.00	0.00	-1.000	0.034
100116.00	49610.10	4989.50	YM-76	0.00	0.00	180.00	80.00	85.00	0.00	-1.000	0.034
100116.00	49610.10	4989.50	YM-76	0.00	0.00	180.00	85.00	90.00	0.00	-1.000	0.034
100175.70	49536.70	4982.10	YM-77	0.00	0.00	180.00	107.00	110.00	0.00	-1.000	0.048
100175.70	49536.70	4982.10	YM-77	0.00	0.00	180.00	110.00	115.00	0.00	-1.000	0.048
100175.70	49536.70	4982.10	YM-77	0.00	0.00	180.00	115.00	120.00	0.00	-1.000	0.048
100419.10	49805.20	5072.60	YM-83	0.00	0.00	180.00	205.00	225.00	0.00	-1.000	0.044

This file shows all intervals with

① NEW value different from CURRENT value.

100257.20	49559.20	5003.30	YM-91	0.00	0.00	180.00	95.00	100.00	0.00	0.030	0.051
100257.20	49559.20	5003.30	YM-91	0.00	0.00	180.00	100.00	105.00	0.00	0.004	0.051
100257.20	49559.20	5003.30	YM-91	0.00	0.00	180.00	105.00	125.00	0.00	-1.000	0.051
100257.20	49559.20	5003.30	YM-91	0.00	0.00	180.00	125.00	130.00	0.00	0.024	0.051
100257.20	49559.20	5003.30	YM-91	0.00	0.00	180.00	130.00	140.00	0.00	-1.000	0.051
100257.20	49559.20	5003.30	YM-91	0.00	0.00	180.00	140.00	145.00	0.00	0.003	0.051
100257.20	49559.20	5003.30	YM-91	0.00	0.00	180.00	145.00	150.00	0.00	0.014	0.051

FIGURE 1

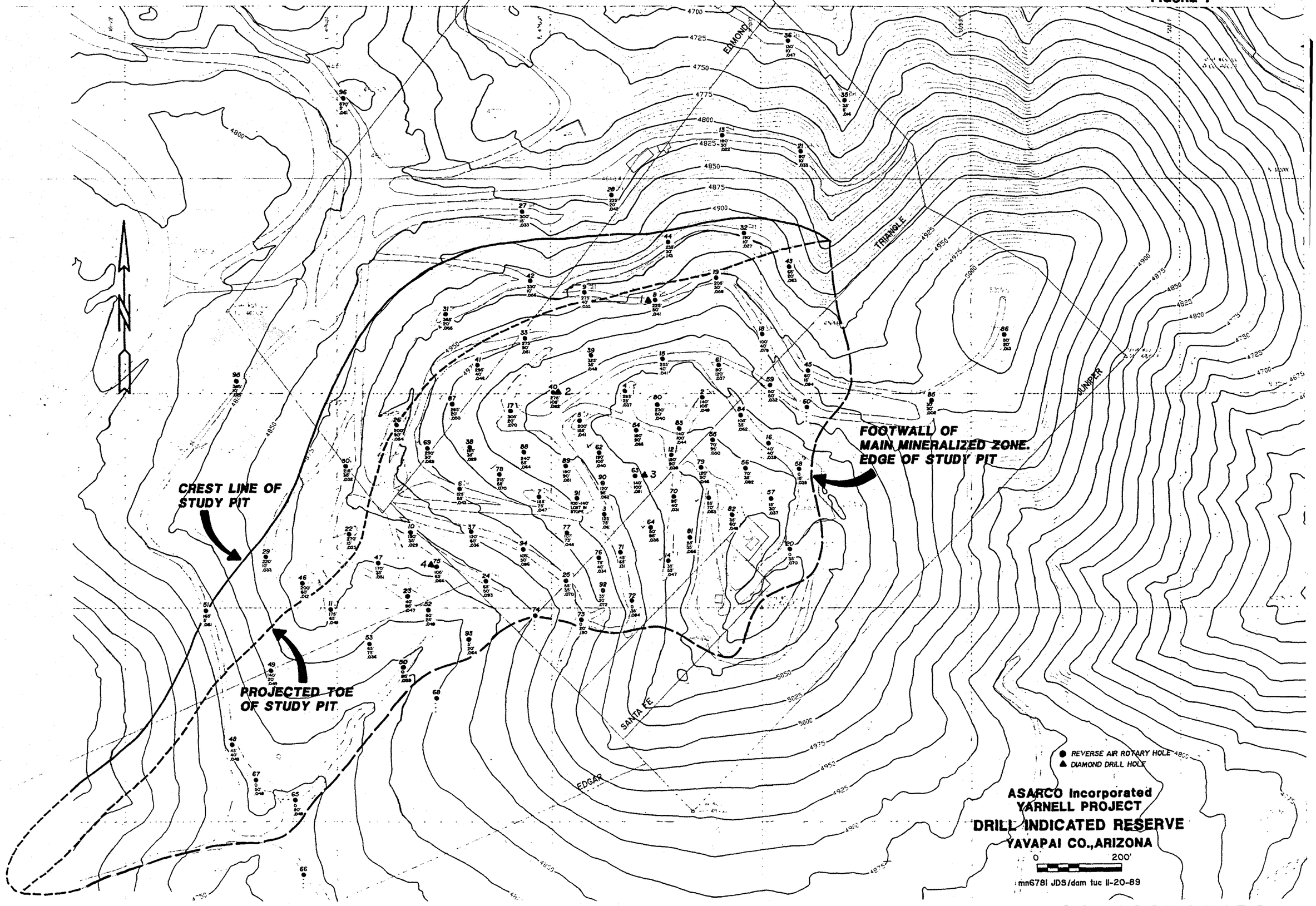
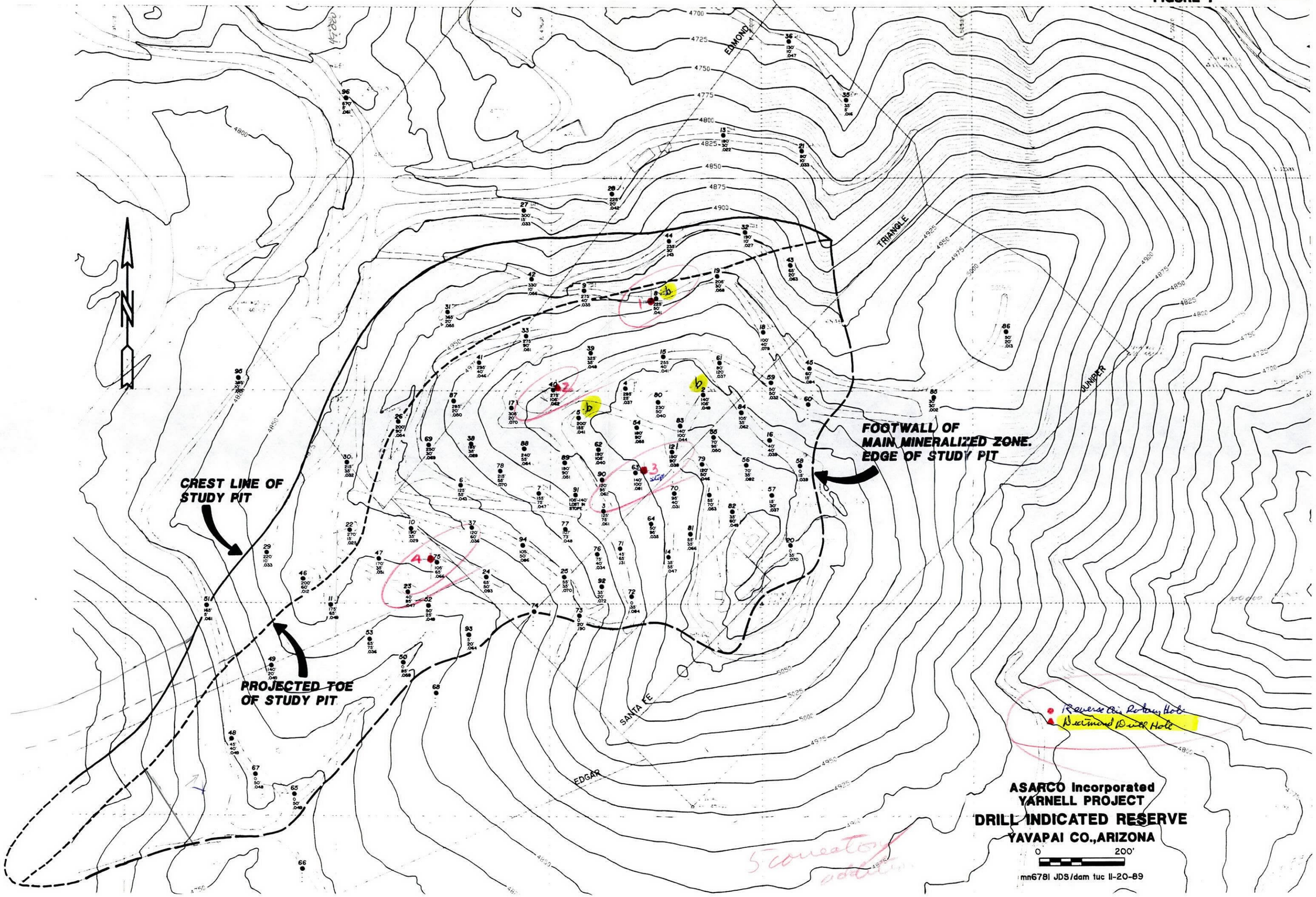

EDMOND
TRIANGLE
JUNIPER
SANTA FE
EDGAR
FOOTWALL OF
MAIN MINERALIZED ZONE.
EDGE OF STUDY PIT
CREST LINE OF
STUDY PIT
PROJECTED TOE
OF STUDY PIT
REVERSE AIR ROTARY HOLE
DIAMOND DRILL HOLE
ASARCO Incorporated
YARNELL PROJECT
DRILL INDICATED RESERVE
YAVAPAI CO.,ARIZONA
0
200'
mn6781 JDS/dam tuc 11-20-89

FIGURE 1 11-20-89



1=8
2=40
3=63
4=75

Dozen Copies

"Hill Indicated Reserve
Yarnell Project
Yavapai County, AZ"

GOS Report

1=	100,715	49741	8
2=	100507	49510	40
3	100316	49723	63
4	100101	49,224	75

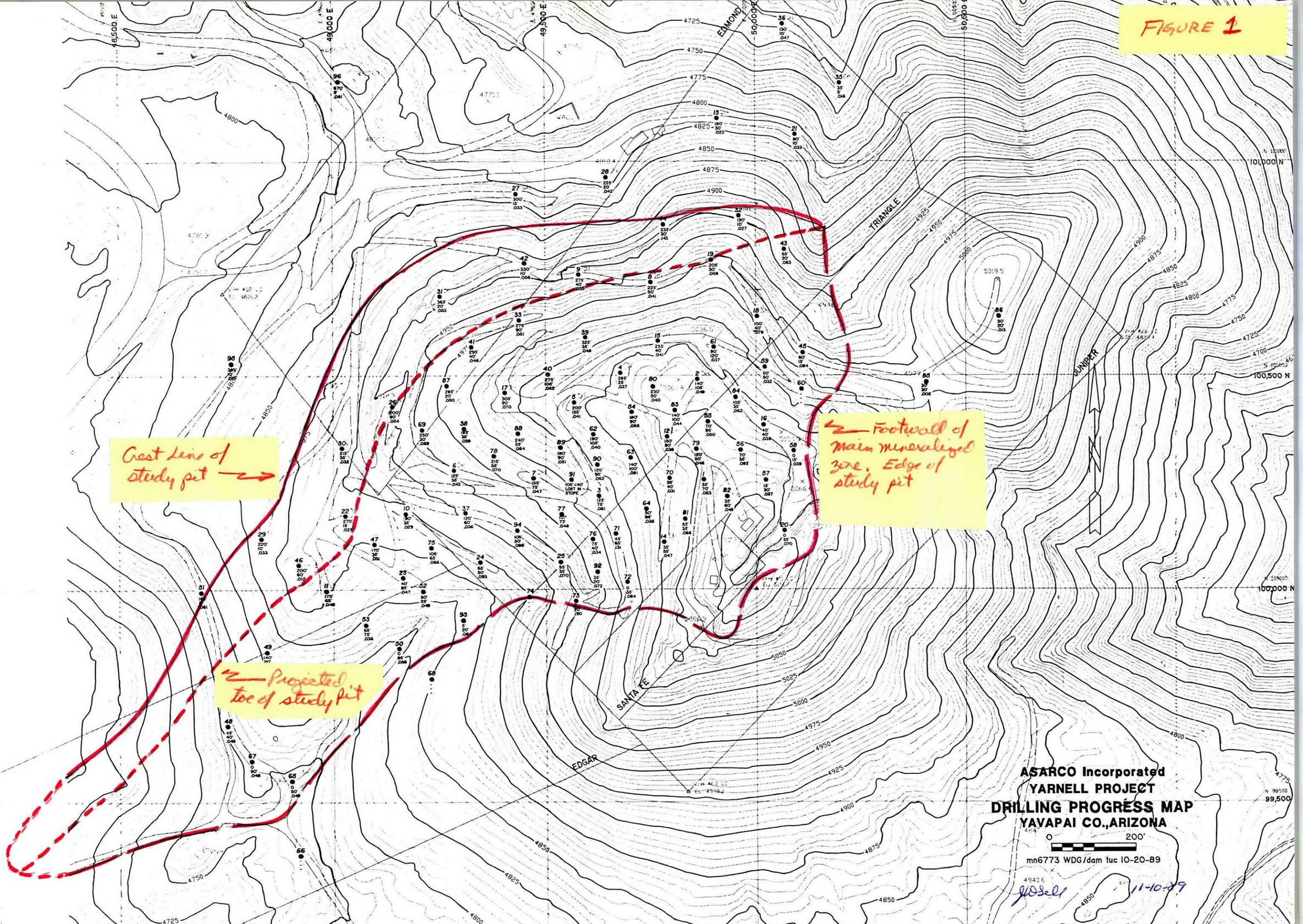


FIGURE 1
Crest line of study pit
Footwall of main mineralized zone. Edge of study pit
Projected toe of study pit
EDMOND
TRIANGLE
JUNIPER
SANTA FE
EDGAR
48,500 E
49,000 E
49,500 E
50,000 E
50,500 E
101,000 N
100,500 N
100,000 N
99,500
ASARCO Incorporated
YARNELL PROJECT
DRILLING PROGRESS MAP
YAVAPAI CO., ARIZONA
0 200'
mn6773 WDG/dam tuc 10-20-89
11-10-89

11/20/89

REVISED DAM LOCATION YARNELL

No Title except Yarnell

(1) Same Holes 1–9 (no numbers on slide)
△ plus road (highway) plus few contour lines

(2) All holes distinguish DDH ? (only four of those)
those ≥ .04 for 20' (from Sell) different color
~~no legend needed~~
Legend: + 20' @ .04

(3) Same as (2) plus a) Sell pit outline
b) Tick marks for cross-sections

will need 5 of this slide

Nov 20, 1989
5:05 A.M.

Jim S

Mark and I have gone to Yornell to get me oriented for the Mapping. Hope this is OK with you

See Ya
Jim R

JDS

ASARCO

Exploration Department
Southwestern United States Division

James D. Sell
Manager

CERTIFIED MAIL
RETURN RECEIPT

November 22, 1989

Mr. A.J. Roman, President
Western Building & Mining Co., Inc.
P.O. Box 4006
Reading, PA 19606

Western Building
Monthly Payment
Yarnell Project
Yavapai Co., AZ

Dear Mr. Roman:

Enclosed is Asarco's check of $1,000 U.S. for the monthly payment of December 1, 1989, due Western Building as per Article 4 of the Norgold Resources, Inc. - Western Building and Mining Co., Inc. Agreement dated December 30, 1988.

Sincerely,

James D. Sell

James D. Sell

JDS:mek

cc: W.L. Kurtz
C.L. Snow
C. Moat - Norgold

ASARCO Incorporated P. O. Box 5747 Tucson, Az 85703-0747
1150 North 7th Avenue (602) 792-3010

VOUCHER NO. 11-285 DATE Nov 1989

ASARCO INCORPORATED
TUCSON OFFICE
TUCSON, ARIZONA 85703

Monthly payment per agreement dated 12/30/88 $1,000.00
Due December 1, 1989

DETACH BEFORE PRESENTING FOR PAYMENT

ASARCO

DOWNTOWN OFFICE
THE VALLEY NATIONAL BANK
TUCSON, ARIZONA

ASARCO INCORPORATED
TUCSON OFFICE
TUCSON, ARIZONA 85703

91-2/1221

No. 0032386

PAY
TO THE ORDER OF

The sum of $1,000 and 00 cts

November 22, 1989
$1,000.00

WESTERN BUILDING & MINING CO., INC.
PO Bx 4006
Reading, PA 19606

ASARCO INCORPORATED
TUCSON OFFICE

S H Myers

J. E. Scartaccini

⑈032386⑈ ⑆122100024⑆ 2000⑈0673⑈

20' Composites
Bench Plans

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100255.5	49875.4	5078.5	YM-1	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100255.5	49875.4	5060.0	YM-1	0.0	0.0	0.0	0.0	18.5	0.0	0.023	0.023
100255.5	49875.4	5040.0	YM-1	0.0	0.0	0.0	18.5	38.5	0.0	0.030	0.030
100255.5	49875.4	5020.0	YM-1	0.0	0.0	0.0	38.5	58.5	0.0	0.021	0.021
100255.5	49875.4	5000.0	YM-1	0.0	0.0	0.0	58.5	78.5	0.0	0.040	0.040
100255.5	49875.4	4980.0	YM-1	0.0	0.0	0.0	78.5	98.5	0.0	0.068	0.068
100255.5	49875.4	4960.0	YM-1	0.0	0.0	0.0	98.5	118.5	0.0	0.065	0.054
100255.5	49875.4	4940.0	YM-1	0.0	0.0	0.0	118.5	138.5	0.0	0.027	0.029
100255.5	49875.4	4920.0	YM-1	0.0	0.0	0.0	138.5	158.5	0.0	0.004	0.004
100255.5	49875.4	4900.0	YM-1	0.0	0.0	0.0	158.5	178.5	0.0	0.007	0.005
100255.5	49875.4	4880.0	YM-1	0.0	0.0	0.0	178.5	198.5	0.0	0.002	0.001
100255.5	49875.4	4860.0	YM-1	0.0	0.0	0.0	198.5	218.5	0.0	0.010	0.010
100255.5	49875.4	4858.5	YM-1	0.0	0.0	0.0	218.5	220.0	0.0	0.040	0.040

22 Nov. 89
Computer
20' Bench Plan
Composites

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100490.7	49860.6	5063.0	YM-2	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100490.7	49860.6	5060.0	YM-2	0.0	0.0	0.0	0.0	3.0	0.0	0.014	0.014
100490.7	49860.6	5040.0	YM-2	0.0	0.0	0.0	3.0	23.0	0.0	0.009	0.009
100490.7	49860.6	5020.0	YM-2	0.0	0.0	0.0	23.0	43.0	0.0	0.001	0.001
100490.7	49860.6	5000.0	YM-2	0.0	0.0	0.0	43.0	63.0	0.0	0.020	0.020
100490.7	49860.6	4980.0	YM-2	0.0	0.0	0.0	63.0	83.0	0.0	0.013	0.013
100490.7	49860.6	4960.0	YM-2	0.0	0.0	0.0	83.0	103.0	0.0	0.017	0.017
100490.7	49860.6	4940.0	YM-2	0.0	0.0	0.0	103.0	123.0	0.0	0.018	0.018
100490.7	49860.6	4920.0	YM-2	0.0	0.0	0.0	123.0	143.0	0.0	0.024	0.024
100490.7	49860.6	4900.0	YM-2	0.0	0.0	0.0	143.0	163.0	0.0	0.026	0.026
100490.7	49860.6	4880.0	YM-2	0.0	0.0	0.0	163.0	183.0	0.0	0.063	0.063
100490.7	49860.6	4860.0	YM-2	0.0	0.0	0.0	183.0	203.0	0.0	0.061	0.059
100490.7	49860.6	4840.0	YM-2	0.0	0.0	0.0	203.0	223.0	0.0	0.000	0.049
100490.7	49860.6	4820.0	YM-2	0.0	0.0	0.0	223.0	243.0	0.0	0.027	0.046
100490.7	49860.6	4800.0	YM-2	0.0	0.0	0.0	243.0	263.0	0.0	0.009	0.009
100490.7	49860.6	4780.0	YM-2	0.0	0.0	0.0	263.0	283.0	0.0	0.003	0.003
100490.7	49860.6	4760.0	YM-2	0.0	0.0	0.0	283.0	303.0	0.0	0.003	0.003
100490.7	49860.6	4740.0	YM-2	0.0	0.0	0.0	303.0	323.0	0.0	0.002	0.002
100490.7	49860.6	4720.0	YM-2	0.0	0.0	0.0	323.0	343.0	0.0	0.004	0.002
100490.7	49860.6	4713.0	YM-2	0.0	0.0	0.0	343.0	350.0	0.0	0.003	0.003

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100218.5	49625.8	5010.7	YM-3	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100218.5	49625.8	5000.0	YM-3	0.0	0.0	0.0	0.0	10.7	0.0	0.013	0.013
100218.5	49625.8	4980.0	YM-3	0.0	0.0	0.0	10.7	30.7	0.0	0.011	0.011
100218.5	49625.8	4960.0	YM-3	0.0	0.0	0.0	30.7	50.7	0.0	0.013	0.013
100218.5	49625.8	4940.0	YM-3	0.0	0.0	0.0	50.7	70.7	0.0	0.004	0.004
100218.5	49625.8	4920.0	YM-3	0.0	0.0	0.0	70.7	90.7	0.0	0.018	0.018
100218.5	49625.8	4900.0	YM-3	0.0	0.0	0.0	90.7	110.7	0.0	0.006	0.006
100218.5	49625.8	4880.0	YM-3	0.0	0.0	0.0	110.7	130.7	0.0	0.011	0.011
100218.5	49625.8	4860.0	YM-3	0.0	0.0	0.0	130.7	150.7	0.0	0.050	0.050
100218.5	49625.8	4840.0	YM-3	0.0	0.0	0.0	150.7	170.7	0.0	0.061	0.061
100218.5	49625.8	4820.0	YM-3	0.0	0.0	0.0	170.7	190.7	0.0	0.063	0.063
100218.5	49625.8	4800.0	YM-3	0.0	0.0	0.0	190.7	210.7	0.0	0.055	0.055
100218.5	49625.8	4780.0	YM-3	0.0	0.0	0.0	210.7	230.7	0.0	0.002	0.002
100218.5	49625.8	4760.7	YM-3	0.0	0.0	0.0	230.7	250.0	0.0	0.001	0.001

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100505.3	49675.8	5052.3	YM-4	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100505.3	49675.8	5040.0	YM-4	0.0	0.0	0.0	0.0	12.3	0.0	0.003	0.003
100505.3	49675.8	5020.0	YM-4	0.0	0.0	0.0	12.3	32.3	0.0	0.013	0.013
100505.3	49675.8	5000.0	YM-4	0.0	0.0	0.0	32.3	52.3	0.0	0.010	0.010
100505.3	49675.8	4980.0	YM-4	0.0	0.0	0.0	52.3	72.3	0.0	0.011	0.011
100505.3	49675.8	4960.0	YM-4	0.0	0.0	0.0	72.3	92.3	0.0	0.010	0.010
100505.3	49675.8	4940.0	YM-4	0.0	0.0	0.0	92.3	112.3	0.0	0.019	0.019
100505.3	49675.8	4920.0	YM-4	0.0	0.0	0.0	112.3	132.3	0.0	0.009	0.009
100505.3	49675.8	4900.0	YM-4	0.0	0.0	0.0	132.3	152.3	0.0	0.006	0.005
100505.3	49675.8	4880.0	YM-4	0.0	0.0	0.0	152.3	172.3	0.0	0.005	0.004
100505.3	49675.8	4860.0	YM-4	0.0	0.0	0.0	172.3	192.3	0.0	0.017	0.017
100505.3	49675.8	4840.0	YM-4	0.0	0.0	0.0	192.3	212.3	0.0	0.016	0.016
100505.3	49675.8	4820.0	YM-4	0.0	0.0	0.0	212.3	232.3	0.0	0.011	0.011
100505.3	49675.8	4800.0	YM-4	0.0	0.0	0.0	232.3	252.3	0.0	0.004	0.004
100505.3	49675.8	4780.0	YM-4	0.0	0.0	0.0	252.3	272.3	0.0	0.010	0.010
100505.3	49675.8	4760.0	YM-4	0.0	0.0	0.0	272.3	292.3	0.0	0.012	0.012
100505.3	49675.8	4740.0	YM-4	0.0	0.0	0.0	292.3	312.3	0.0	0.042	0.042
100505.3	49675.8	4720.0	YM-4	0.0	0.0	0.0	312.3	332.3	0.0	0.005	0.005
100505.3	49675.8	4700.0	YM-4	0.0	0.0	0.0	332.3	352.3	0.0	0.001	0.001
100505.3	49675.8	4680.0	YM-4	0.0	0.0	0.0	352.3	372.3	0.0	0.002	0.002
100505.3	49675.8	4660.0	YM-4	0.0	0.0	0.0	372.3	392.3	0.0	0.005	0.005
100505.3	49675.8	4640.0	YM-4	0.0	0.0	0.0	392.3	412.3	0.0	0.003	0.002
100505.3	49675.8	4620.0	YM-4	0.0	0.0	0.0	412.3	432.3	0.0	0.000	0.001
100505.3	49675.8	4612.3	YM-4	0.0	0.0	0.0	432.3	440.0	0.0	0.005	0.004

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100437.1	49565.2	5041.8	YM-5	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100437.1	49565.2	5040.0	YM-5	0.0	0.0	0.0	0.0	1.8	0.0	0.000	0.002
100437.1	49565.2	5020.0	YM-5	0.0	0.0	0.0	1.8	21.8	0.0	0.003	0.002
100437.1	49565.2	5000.0	YM-5	0.0	0.0	0.0	21.8	41.8	0.0	0.001	0.001
100437.1	49565.2	4980.0	YM-5	0.0	0.0	0.0	41.8	61.8	0.0	0.027	0.027
100437.1	49565.2	4960.0	YM-5	0.0	0.0	0.0	61.8	81.8	0.0	0.004	0.004
100437.1	49565.2	4940.0	YM-5	0.0	0.0	0.0	81.8	101.8	0.0	0.001	0.001
100437.1	49565.2	4920.0	YM-5	0.0	0.0	0.0	101.8	121.8	0.0	0.005	0.004
100437.1	49565.2	4900.0	YM-5	0.0	0.0	0.0	121.8	141.8	0.0	0.003	0.002
100437.1	49565.2	4880.0	YM-5	0.0	0.0	0.0	141.8	161.8	0.0	0.012	0.007
100437.1	49565.2	4860.0	YM-5	0.0	0.0	0.0	161.8	181.8	0.0	0.004	0.004
100437.1	49565.2	4840.0	YM-5	0.0	0.0	0.0	181.8	201.8	0.0	0.005	0.005
100437.1	49565.2	4820.0	YM-5	0.0	0.0	0.0	201.8	221.8	0.0	0.070	0.070
100437.1	49565.2	4800.0	YM-5	0.0	0.0	0.0	221.8	241.8	0.0	0.023	0.023
100437.1	49565.2	4780.0	YM-5	0.0	0.0	0.0	241.8	261.8	0.0	0.042	0.042
100437.1	49565.2	4760.0	YM-5	0.0	0.0	0.0	261.8	281.8	0.0	0.018	0.018
100437.1	49565.2	4740.0	YM-5	0.0	0.0	0.0	281.8	301.8	0.0	0.051	0.048
100437.1	49565.2	4720.0	YM-5	0.0	0.0	0.0	301.8	321.8	0.0	0.000	0.041
100437.1	49565.2	4700.0	YM-5	0.0	0.0	0.0	321.8	341.8	0.0	0.046	0.053
100437.1	49565.2	4680.0	YM-5	0.0	0.0	0.0	341.8	361.8	0.0	0.035	0.035
100437.1	49565.2	4666.8	YM-5	0.0	0.0	0.0	361.8	375.0	0.0	0.009	0.009

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100278.7	49286.7	4949.0	YM-6	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100278.7	49286.7	4940.0	YM-6	0.0	0.0	0.0	0.0	9.0	0.0	0.010	0.010
100278.7	49286.7	4920.0	YM-6	0.0	0.0	0.0	9.0	29.0	0.0	0.004	0.004
100278.7	49286.7	4900.0	YM-6	0.0	0.0	0.0	29.0	49.0	0.0	0.003	0.003
100278.7	49286.7	4880.0	YM-6	0.0	0.0	0.0	49.0	69.0	0.0	0.002	0.002
100278.7	49286.7	4860.0	YM-6	0.0	0.0	0.0	69.0	89.0	0.0	0.001	0.001
100278.7	49286.7	4840.0	YM-6	0.0	0.0	0.0	89.0	109.0	0.0	0.006	0.006
100278.7	49286.7	4820.0	YM-6	0.0	0.0	0.0	109.0	129.0	0.0	0.006	0.006
100278.7	49286.7	4800.0	YM-6	0.0	0.0	0.0	129.0	149.0	0.0	0.026	0.026
100278.7	49286.7	4780.0	YM-6	0.0	0.0	0.0	149.0	169.0	0.0	0.044	0.044
100278.7	49286.7	4760.0	YM-6	0.0	0.0	0.0	169.0	189.0	0.0	0.050	0.050
100278.7	49286.7	4740.0	YM-6	0.0	0.0	0.0	189.0	209.0	0.0	0.007	0.007
100278.7	49286.7	4720.0	YM-6	0.0	0.0	0.0	209.0	229.0	0.0	0.022	0.022
100278.7	49286.7	4700.0	YM-6	0.0	0.0	0.0	229.0	249.0	0.0	0.006	0.005
100278.7	49286.7	4680.0	YM-6	0.0	0.0	0.0	249.0	269.0	0.0	0.004	0.004
100278.7	49286.7	4660.0	YM-6	0.0	0.0	0.0	269.0	289.0	0.0	0.048	0.048
100278.7	49286.7	4640.0	YM-6	0.0	0.0	0.0	289.0	309.0	0.0	0.004	0.004
100278.7	49286.7	4620.0	YM-6	0.0	0.0	0.0	309.0	329.0	0.0	0.003	0.003
100278.7	49286.7	4600.0	YM-6	0.0	0.0	0.0	329.0	349.0	0.0	0.002	0.002
100278.7	49286.7	4580.0	YM-6	0.0	0.0	0.0	349.0	369.0	0.0	0.003	0.003
100278.7	49286.7	4560.0	YM-6	0.0	0.0	0.0	369.0	389.0	0.0	0.002	0.002
100278.7	49286.7	4549.0	YM-6	0.0	0.0	0.0	389.0	400.0	0.0	0.001	0.001

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100260.5	49471.6	4986.9	YM-7	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100260.5	49471.6	4980.0	YM-7	0.0	0.0	0.0	0.0	6.9	0.0	0.006	0.006
100260.5	49471.6	4960.0	YM-7	0.0	0.0	0.0	6.9	26.9	0.0	0.007	0.007
100260.5	49471.6	4940.0	YM-7	0.0	0.0	0.0	26.9	46.9	0.0	0.003	0.003
100260.5	49471.6	4920.0	YM-7	0.0	0.0	0.0	46.9	66.9	0.0	0.007	0.007
100260.5	49471.6	4900.0	YM-7	0.0	0.0	0.0	66.9	86.9	0.0	0.004	0.004
100260.5	49471.6	4880.0	YM-7	0.0	0.0	0.0	86.9	106.9	0.0	0.005	0.005
100260.5	49471.6	4860.0	YM-7	0.0	0.0	0.0	106.9	126.9	0.0	0.003	0.003
100260.5	49471.6	4840.0	YM-7	0.0	0.0	0.0	126.9	146.9	0.0	0.004	0.004
100260.5	49471.6	4820.0	YM-7	0.0	0.0	0.0	146.9	166.9	0.0	0.016	0.016
100260.5	49471.6	4800.0	YM-7	0.0	0.0	0.0	166.9	186.9	0.0	0.079	0.079
100260.5	49471.6	4780.0	YM-7	0.0	0.0	0.0	186.9	206.9	0.0	0.032	0.032
100260.5	49471.6	4760.0	YM-7	0.0	0.0	0.0	206.9	226.9	0.0	0.051	0.050
100260.5	49471.6	4740.0	YM-7	0.0	0.0	0.0	226.9	246.9	0.0	0.016	0.016
100260.5	49471.6	4720.0	YM-7	0.0	0.0	0.0	246.9	266.9	0.0	0.012	0.012
100260.5	49471.6	4700.0	YM-7	0.0	0.0	0.0	266.9	286.9	0.0	0.004	0.004
100260.5	49471.6	4694.9	YM-7	0.0	0.0	0.0	286.9	292.0	0.0	0.003	0.003

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100717.9	49749.2	4957.9	YM-8	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100717.9	49749.2	4940.0	YM-8	0.0	0.0	0.0	0.0	17.9	0.0	0.010	0.010
100717.9	49749.2	4920.0	YM-8	0.0	0.0	0.0	17.9	37.9	0.0	0.043	0.043
100717.9	49749.2	4900.0	YM-8	0.0	0.0	0.0	37.9	57.9	0.0	0.043	0.043
100717.9	49749.2	4880.0	YM-8	0.0	0.0	0.0	57.9	77.9	0.0	0.016	0.016
100717.9	49749.2	4860.0	YM-8	0.0	0.0	0.0	77.9	97.9	0.0	0.014	0.014
100717.9	49749.2	4840.0	YM-8	0.0	0.0	0.0	97.9	117.9	0.0	0.013	0.013
100717.9	49749.2	4820.0	YM-8	0.0	0.0	0.0	117.9	137.9	0.0	0.022	0.022
100717.9	49749.2	4800.0	YM-8	0.0	0.0	0.0	137.9	157.9	0.0	0.015	0.015
100717.9	49749.2	4780.0	YM-8	0.0	0.0	0.0	157.9	177.9	0.0	0.024	0.024
100717.9	49749.2	4760.0	YM-8	0.0	0.0	0.0	177.9	197.9	0.0	0.015	0.015
100717.9	49749.2	4740.0	YM-8	0.0	0.0	0.0	197.9	217.9	0.0	0.012	0.012
100717.9	49749.2	4720.0	YM-8	0.0	0.0	0.0	217.9	237.9	0.0	0.029	0.029
100717.9	49749.2	4700.0	YM-8	0.0	0.0	0.0	237.9	257.9	0.0	0.035	0.035
100717.9	49749.2	4680.0	YM-8	0.0	0.0	0.0	257.9	277.9	0.0	0.040	0.040
100717.9	49749.2	4660.0	YM-8	0.0	0.0	0.0	277.9	297.9	0.0	0.004	0.004
100717.9	49749.2	4640.0	YM-8	0.0	0.0	0.0	297.9	317.9	0.0	0.004	0.004
100717.9	49749.2	4620.0	YM-8	0.0	0.0	0.0	317.9	337.9	0.0	0.004	0.004
100717.9	49749.2	4607.9	YM-8	0.0	0.0	0.0	337.9	350.0	0.0	0.003	0.003

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100734.8	49577.2	4930.2	YM-9	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100734.8	49577.2	4920.0	YM-9	0.0	0.0	0.0	0.0	10.2	0.0	0.004	0.004
100734.8	49577.2	4900.0	YM-9	0.0	0.0	0.0	10.2	30.2	0.0	0.009	0.009
100734.8	49577.2	4880.0	YM-9	0.0	0.0	0.0	30.2	50.2	0.0	0.017	0.017
100734.8	49577.2	4860.0	YM-9	0.0	0.0	0.0	50.2	70.2	0.0	0.006	0.006
100734.8	49577.2	4840.0	YM-9	0.0	0.0	0.0	70.2	90.2	0.0	0.013	0.013
100734.8	49577.2	4820.0	YM-9	0.0	0.0	0.0	90.2	110.2	0.0	0.006	0.006
100734.8	49577.2	4800.0	YM-9	0.0	0.0	0.0	110.2	130.2	0.0	0.004	0.004
100734.8	49577.2	4780.0	YM-9	0.0	0.0	0.0	130.2	150.2	0.0	0.004	0.004
100734.8	49577.2	4760.0	YM-9	0.0	0.0	0.0	150.2	170.2	0.0	0.002	0.002
100734.8	49577.2	4740.0	YM-9	0.0	0.0	0.0	170.2	190.2	0.0	0.008	0.008
100734.8	49577.2	4720.0	YM-9	0.0	0.0	0.0	190.2	210.2	0.0	0.009	0.005
100734.8	49577.2	4700.0	YM-9	0.0	0.0	0.0	210.2	230.2	0.0	0.005	0.004
100734.8	49577.2	4680.0	YM-9	0.0	0.0	0.0	230.2	250.2	0.0	0.008	0.008
100734.8	49577.2	4660.0	YM-9	0.0	0.0	0.0	250.2	270.2	0.0	0.003	0.003
100734.8	49577.2	4640.0	YM-9	0.0	0.0	0.0	270.2	290.2	0.0	0.011	0.011
100734.8	49577.2	4620.0	YM-9	0.0	0.0	0.0	290.2	310.2	0.0	0.055	0.055
100734.8	49577.2	4600.0	YM-9	0.0	0.0	0.0	310.2	330.2	0.0	0.010	0.010
100734.8	49577.2	4580.2	YM-9	0.0	0.0	0.0	330.2	350.0	0.0	0.005	0.005

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100177.0	49171.1	4893.9	YM-10	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100177.0	49171.1	4880.0	YM-10	0.0	0.0	0.0	0.0	13.9	0.0	0.003	0.003
100177.0	49171.1	4860.0	YM-10	0.0	0.0	0.0	13.9	33.9	0.0	0.002	0.002
100177.0	49171.1	4840.0	YM-10	0.0	0.0	0.0	33.9	53.9	0.0	0.008	0.008
100177.0	49171.1	4820.0	YM-10	0.0	0.0	0.0	53.9	73.9	0.0	0.004	0.004
100177.0	49171.1	4800.0	YM-10	0.0	0.0	0.0	73.9	93.9	0.0	0.006	0.006
100177.0	49171.1	4780.0	YM-10	0.0	0.0	0.0	93.9	113.9	0.0	0.008	0.008
100177.0	49171.1	4760.0	YM-10	0.0	0.0	0.0	113.9	133.9	0.0	0.005	0.005
100177.0	49171.1	4740.0	YM-10	0.0	0.0	0.0	133.9	153.9	0.0	0.040	0.040
100177.0	49171.1	4720.0	YM-10	0.0	0.0	0.0	153.9	173.9	0.0	0.015	0.015
100177.0	49171.1	4700.0	YM-10	0.0	0.0	0.0	173.9	193.9	0.0	0.010	0.010
100177.0	49171.1	4680.0	YM-10	0.0	0.0	0.0	193.9	213.9	0.0	0.030	0.030
100177.0	49171.1	4660.0	YM-10	0.0	0.0	0.0	213.9	233.9	0.0	0.020	0.020
100177.0	49171.1	4640.0	YM-10	0.0	0.0	0.0	233.9	253.9	0.0	0.009	0.009
100177.0	49171.1	4620.0	YM-10	0.0	0.0	0.0	253.9	273.9	0.0	0.005	0.005
100177.0	49171.1	4600.0	YM-10	0.0	0.0	0.0	273.9	293.9	0.0	0.009	0.009
100177.0	49171.1	4593.9	YM-10	0.0	0.0	0.0	293.9	300.0	0.0	0.003	0.003

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
99998.0	48983.2	4874.0	YM-11	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
99998.0	48983.2	4860.0	YM-11	0.0	0.0	0.0	0.0	14.0	0.0	0.002	0.002
99998.0	48983.2	4840.0	YM-11	0.0	0.0	0.0	14.0	34.0	0.0	0.003	0.003
99998.0	48983.2	4820.0	YM-11	0.0	0.0	0.0	34.0	54.0	0.0	0.003	0.003
99998.0	48983.2	4800.0	YM-11	0.0	0.0	0.0	54.0	74.0	0.0	0.002	0.002
99998.0	48983.2	4780.0	YM-11	0.0	0.0	0.0	74.0	94.0	0.0	0.006	0.006
99998.0	48983.2	4760.0	YM-11	0.0	0.0	0.0	94.0	114.0	0.0	0.002	0.002
99998.0	48983.2	4740.0	YM-11	0.0	0.0	0.0	114.0	134.0	0.0	0.001	0.001
99998.0	48983.2	4720.0	YM-11	0.0	0.0	0.0	134.0	154.0	0.0	0.002	0.002
99998.0	48983.2	4700.0	YM-11	0.0	0.0	0.0	154.0	174.0	0.0	0.004	0.004
99998.0	48983.2	4680.0	YM-11	0.0	0.0	0.0	174.0	194.0	0.0	0.022	0.022
99998.0	48983.2	4660.0	YM-11	0.0	0.0	0.0	194.0	214.0	0.0	0.027	0.027
99998.0	48983.2	4640.0	YM-11	0.0	0.0	0.0	214.0	234.0	0.0	0.078	0.078
99998.0	48983.2	4620.0	YM-11	0.0	0.0	0.0	234.0	254.0	0.0	0.035	0.035
99998.0	48983.2	4614.0	YM-11	0.0	0.0	0.0	254.0	260.0	0.0	0.001	0.001

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100356.5	49788.4	5073.6	YM-12	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100356.5	49788.4	5060.0	YM-12	0.0	0.0	0.0	0.0	13.6	0.0	0.006	0.006
100356.5	49788.4	5040.0	YM-12	0.0	0.0	0.0	13.6	33.6	0.0	0.004	0.004
100356.5	49788.4	5020.0	YM-12	0.0	0.0	0.0	33.6	53.6	0.0	0.011	0.011
100356.5	49788.4	5000.0	YM-12	0.0	0.0	0.0	53.6	73.6	0.0	0.007	0.007
100356.5	49788.4	4980.0	YM-12	0.0	0.0	0.0	73.6	93.6	0.0	0.009	0.009
100356.5	49788.4	4960.0	YM-12	0.0	0.0	0.0	93.6	113.6	0.0	0.004	0.004
100356.5	49788.4	4940.0	YM-12	0.0	0.0	0.0	113.6	133.6	0.0	0.036	0.036
100356.5	49788.4	4920.0	YM-12	0.0	0.0	0.0	133.6	153.6	0.0	0.007	0.007
100356.5	49788.4	4900.0	YM-12	0.0	0.0	0.0	153.6	173.6	0.0	0.053	0.053
100356.5	49788.4	4880.0	YM-12	0.0	0.0	0.0	173.6	193.6	0.0	0.047	0.047
100356.5	49788.4	4860.0	YM-12	0.0	0.0	0.0	193.6	213.6	0.0	0.033	0.034
100356.5	49788.4	4840.0	YM-12	0.0	0.0	0.0	213.6	233.6	0.0	0.029	0.029
100356.5	49788.4	4833.6	YM-12	0.0	0.0	0.0	233.6	240.0	0.0	0.031	0.031

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
101099.2	49909.0	4810.1	YM-13	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
101099.2	49909.0	4800.0	YM-13	0.0	0.0	0.0	0.0	10.1	0.0	0.004	0.004
101099.2	49909.0	4780.0	YM-13	0.0	0.0	0.0	10.1	30.1	0.0	0.004	0.004
101099.2	49909.0	4760.0	YM-13	0.0	0.0	0.0	30.1	50.1	0.0	0.002	0.002
101099.2	49909.0	4740.0	YM-13	0.0	0.0	0.0	50.1	70.1	0.0	0.008	0.008
101099.2	49909.0	4720.0	YM-13	0.0	0.0	0.0	70.1	90.1	0.0	0.004	0.004
101099.2	49909.0	4700.0	YM-13	0.0	0.0	0.0	90.1	110.1	0.0	0.006	0.006
101099.2	49909.0	4680.0	YM-13	0.0	0.0	0.0	110.1	130.1	0.0	0.005	0.005
101099.2	49909.0	4660.0	YM-13	0.0	0.0	0.0	130.1	150.1	0.0	0.021	0.021
101099.2	49909.0	4640.0	YM-13	0.0	0.0	0.0	150.1	170.1	0.0	0.004	0.004
101099.2	49909.0	4620.0	YM-13	0.0	0.0	0.0	170.1	190.1	0.0	0.015	0.015
101099.2	49909.0	4600.0	YM-13	0.0	0.0	0.0	190.1	210.1	0.0	0.022	0.022
101099.2	49909.0	4580.0	YM-13	0.0	0.0	0.0	210.1	230.1	0.0	0.005	0.005
101099.2	49909.0	4560.0	YM-13	0.0	0.0	0.0	230.1	250.1	0.0	0.003	0.003
101099.2	49909.0	4540.0	YM-13	0.0	0.0	0.0	250.1	270.1	0.0	0.011	0.011
101099.2	49909.0	4530.1	YM-13	0.0	0.0	0.0	270.1	280.0	0.0	0.003	0.003

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100110.1	49780.1	5050.5	YM-14	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100110.1	49780.1	5040.0	YM-14	0.0	0.0	0.0	0.0	10.5	0.0	0.004	0.004
100110.1	49780.1	5020.0	YM-14	0.0	0.0	0.0	10.5	30.5	0.0	0.020	0.020
100110.1	49780.1	5000.0	YM-14	0.0	0.0	0.0	30.5	50.5	0.0	0.022	0.022
100110.1	49780.1	4980.0	YM-14	0.0	0.0	0.0	50.5	70.5	0.0	0.063	0.063
100110.1	49780.1	4960.0	YM-14	0.0	0.0	0.0	70.5	90.5	0.0	0.048	0.048
100110.1	49780.1	4940.0	YM-14	0.0	0.0	0.0	90.5	110.5	0.0	0.007	0.007
100110.1	49780.1	4920.0	YM-14	0.0	0.0	0.0	110.5	130.5	0.0	0.005	0.005
100110.1	49780.1	4900.0	YM-14	0.0	0.0	0.0	130.5	150.5	0.0	0.004	0.004
100110.1	49780.1	4890.5	YM-14	0.0	0.0	0.0	150.5	160.0	0.0	0.037	0.037

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100581.8	49765.5	5036.8	YM-15	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100581.8	49765.5	5020.0	YM-15	0.0	0.0	0.0	0.0	16.8	0.0	0.003	0.003
100581.8	49765.5	5000.0	YM-15	0.0	0.0	0.0	16.8	36.8	0.0	0.017	0.017
100581.8	49765.5	4980.0	YM-15	0.0	0.0	0.0	36.8	56.8	0.0	0.022	0.022
100581.8	49765.5	4960.0	YM-15	0.0	0.0	0.0	56.8	76.8	0.0	0.024	0.024
100581.8	49765.5	4940.0	YM-15	0.0	0.0	0.0	76.8	96.8	0.0	0.014	0.014
100581.8	49765.5	4920.0	YM-15	0.0	0.0	0.0	96.8	116.8	0.0	0.005	0.005
100581.8	49765.5	4900.0	YM-15	0.0	0.0	0.0	116.8	136.8	0.0	0.007	0.007
100581.8	49765.5	4880.0	YM-15	0.0	0.0	0.0	136.8	156.8	0.0	0.056	0.056
100581.8	49765.5	4860.0	YM-15	0.0	0.0	0.0	156.8	176.8	0.0	0.017	0.017
100581.8	49765.5	4840.0	YM-15	0.0	0.0	0.0	176.8	196.8	0.0	0.030	0.030
100581.8	49765.5	4820.0	YM-15	0.0	0.0	0.0	196.8	216.8	0.0	0.042	0.042
100581.8	49765.5	4800.0	YM-15	0.0	0.0	0.0	216.8	236.8	0.0	0.020	0.020
100581.8	49765.5	4780.0	YM-15	0.0	0.0	0.0	236.8	256.8	0.0	0.022	0.022
100581.8	49765.5	4760.0	YM-15	0.0	0.0	0.0	256.8	276.8	0.0	0.030	0.030
100581.8	49765.5	4740.0	YM-15	0.0	0.0	0.0	276.8	296.8	0.0	0.047	0.047
100581.8	49765.5	4720.0	YM-15	0.0	0.0	0.0	296.8	316.8	0.0	0.005	0.005
100581.8	49765.5	4700.0	YM-15	0.0	0.0	0.0	316.8	336.8	0.0	0.004	0.004
100581.8	49765.5	4686.8	YM-15	0.0	0.0	0.0	336.8	350.0	0.0	0.006	0.006

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100383.9	50017.0	5057.1	YM-16	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100383.9	50017.0	5040.0	YM-16	0.0	0.0	0.0	0.0	17.1	0.0	0.020	0.020
100383.9	50017.0	5020.0	YM-16	0.0	0.0	0.0	17.1	37.1	0.0	0.016	0.016
100383.9	50017.0	5000.0	YM-16	0.0	0.0	0.0	37.1	57.1	0.0	0.036	0.036
100383.9	50017.0	4980.0	YM-16	0.0	0.0	0.0	57.1	77.1	0.0	0.037	0.037
100383.9	50017.0	4960.0	YM-16	0.0	0.0	0.0	77.1	97.1	0.0	0.014	0.020
100383.9	50017.0	4940.0	YM-16	0.0	0.0	0.0	97.1	117.1	0.0	0.004	0.004
100383.9	50017.0	4920.0	YM-16	0.0	0.0	0.0	117.1	137.1	0.0	0.006	0.006
100383.9	50017.0	4907.1	YM-16	0.0	0.0	0.0	137.1	150.0	0.0	0.005	0.005

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100458.2	49405.8	5017.2	YM-17	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100458.2	49405.8	5000.0	YM-17	0.0	0.0	0.0	0.0	17.2	0.0	0.016	0.016
100458.2	49405.8	4980.0	YM-17	0.0	0.0	0.0	17.2	37.2	0.0	0.005	0.005
100458.2	49405.8	4960.0	YM-17	0.0	0.0	0.0	37.2	57.2	0.0	0.005	0.005
100458.2	49405.8	4940.0	YM-17	0.0	0.0	0.0	57.2	77.2	0.0	0.006	0.006
100458.2	49405.8	4920.0	YM-17	0.0	0.0	0.0	77.2	97.2	0.0	0.002	0.002
100458.2	49405.8	4900.0	YM-17	0.0	0.0	0.0	97.2	117.2	0.0	0.002	0.002
100458.2	49405.8	4880.0	YM-17	0.0	0.0	0.0	117.2	137.2	0.0	0.003	0.003
100458.2	49405.8	4860.0	YM-17	0.0	0.0	0.0	137.2	157.2	0.0	0.008	0.008
100458.2	49405.8	4840.0	YM-17	0.0	0.0	0.0	157.2	177.2	0.0	0.003	0.003
100458.2	49405.8	4820.0	YM-17	0.0	0.0	0.0	177.2	197.2	0.0	0.003	0.003
100458.2	49405.8	4800.0	YM-17	0.0	0.0	0.0	197.2	217.2	0.0	0.009	0.009
100458.2	49405.8	4780.0	YM-17	0.0	0.0	0.0	217.2	237.2	0.0	0.009	0.009
100458.2	49405.8	4760.0	YM-17	0.0	0.0	0.0	237.2	257.2	0.0	0.020	0.020
100458.2	49405.8	4740.0	YM-17	0.0	0.0	0.0	257.2	277.2	0.0	0.017	0.017
100458.2	49405.8	4720.0	YM-17	0.0	0.0	0.0	277.2	297.2	0.0	0.026	0.026
100458.2	49405.8	4700.0	YM-17	0.0	0.0	0.0	297.2	317.2	0.0	0.054	0.054
100458.2	49405.8	4680.0	YM-17	0.0	0.0	0.0	317.2	337.2	0.0	0.023	0.023
100458.2	49405.8	4660.0	YM-17	0.0	0.0	0.0	337.2	357.2	0.0	0.016	0.016
100458.2	49405.8	4640.0	YM-17	0.0	0.0	0.0	357.2	377.2	0.0	0.006	0.006
100458.2	49405.8	4620.0	YM-17	0.0	0.0	0.0	377.2	397.2	0.0	0.001	0.001
100458.2	49405.8	4600.0	YM-17	0.0	0.0	0.0	397.2	417.2	0.0	0.004	0.004
100458.2	49405.8	4580.0	YM-17	0.0	0.0	0.0	417.2	437.2	0.0	0.004	0.004
100458.2	49405.8	4567.2	YM-17	0.0	0.0	0.0	437.2	450.0	0.0	0.003	0.003

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100637.8	50002.4	4990.8	YM-18	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100637.8	50002.4	4980.0	YM-18	0.0	0.0	0.0	0.0	10.8	0.0	0.015	0.015
100637.8	50002.4	4960.0	YM-18	0.0	0.0	0.0	10.8	30.8	0.0	0.041	0.041
100637.8	50002.4	4940.0	YM-18	0.0	0.0	0.0	30.8	50.8	0.0	0.013	0.013
100637.8	50002.4	4920.0	YM-18	0.0	0.0	0.0	50.8	70.8	0.0	0.025	0.025
100637.8	50002.4	4900.0	YM-18	0.0	0.0	0.0	70.8	90.8	0.0	0.013	0.013
100637.8	50002.4	4880.0	YM-18	0.0	0.0	0.0	90.8	110.8	0.0	0.031	0.031
100637.8	50002.4	4860.0	YM-18	0.0	0.0	0.0	110.8	130.8	0.0	0.117	0.117
100637.8	50002.4	4840.0	YM-18	0.0	0.0	0.0	130.8	150.8	0.0	0.020	0.020
100637.8	50002.4	4820.0	YM-18	0.0	0.0	0.0	150.8	170.8	0.0	0.007	0.007
100637.8	50002.4	4800.0	YM-18	0.0	0.0	0.0	170.8	190.8	0.0	0.004	0.004
100637.8	50002.4	4780.0	YM-18	0.0	0.0	0.0	190.8	210.8	0.0	0.005	0.005
100637.8	50002.4	4760.0	YM-18	0.0	0.0	0.0	210.8	230.8	0.0	0.003	0.003
100637.8	50002.4	4740.8	YM-18	0.0	0.0	0.0	230.8	250.0	0.0	0.000	0.000

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100769.4	49894.2	4973.5	YM-19	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100769.4	49894.2	4960.0	YM-19	0.0	0.0	0.0	0.0	13.5	0.0	0.005	0.005
100769.4	49894.2	4940.0	YM-19	0.0	0.0	0.0	13.5	33.5	0.0	0.010	0.010
100769.4	49894.2	4920.0	YM-19	0.0	0.0	0.0	33.5	53.5	0.0	0.023	0.023
100769.4	49894.2	4900.0	YM-19	0.0	0.0	0.0	53.5	73.5	0.0	0.012	0.012
100769.4	49894.2	4880.0	YM-19	0.0	0.0	0.0	73.5	93.5	0.0	0.011	0.011
100769.4	49894.2	4860.0	YM-19	0.0	0.0	0.0	93.5	113.5	0.0	0.006	0.006
100769.4	49894.2	4840.0	YM-19	0.0	0.0	0.0	113.5	133.5	0.0	0.007	0.007
100769.4	49894.2	4820.0	YM-19	0.0	0.0	0.0	133.5	153.5	0.0	0.004	0.004
100769.4	49894.2	4800.0	YM-19	0.0	0.0	0.0	153.5	173.5	0.0	0.007	0.007
100769.4	49894.2	4780.0	YM-19	0.0	0.0	0.0	173.5	193.5	0.0	0.010	0.010
100769.4	49894.2	4760.0	YM-19	0.0	0.0	0.0	193.5	213.5	0.0	0.017	0.017
100769.4	49894.2	4740.0	YM-19	0.0	0.0	0.0	213.5	233.5	0.0	0.068	0.068
100769.4	49894.2	4720.0	YM-19	0.0	0.0	0.0	233.5	253.5	0.0	0.011	0.011
100769.4	49894.2	4700.0	YM-19	0.0	0.0	0.0	253.5	273.5	0.0	0.001	0.001
100769.4	49894.2	4680.0	YM-19	0.0	0.0	0.0	273.5	293.5	0.0	0.001	0.001
100769.4	49894.2	4673.5	YM-19	0.0	0.0	0.0	293.5	300.0	0.0	0.001	0.001

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100136.5	50065.9	5074.7	YM-20	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100136.5	50065.9	5060.0	YM-20	0.0	0.0	0.0	0.0	14.7	0.0	0.022	0.022
100136.5	50065.9	5040.0	YM-20	0.0	0.0	0.0	14.7	34.7	0.0	0.105	0.105
100136.5	50065.9	5020.0	YM-20	0.0	0.0	0.0	34.7	54.7	0.0	0.003	0.003
100136.5	50065.9	5000.0	YM-20	0.0	0.0	0.0	54.7	74.7	0.0	0.002	0.002
100136.5	50065.9	4980.0	YM-20	0.0	0.0	0.0	74.7	94.7	0.0	0.001	0.001
100136.5	50065.9	4960.0	YM-20	0.0	0.0	0.0	94.7	114.7	0.0	0.001	0.001
100136.5	50065.9	4940.0	YM-20	0.0	0.0	0.0	114.7	134.7	0.0	0.002	0.002
100136.5	50065.9	4920.0	YM-20	0.0	0.0	0.0	134.7	154.7	0.0	0.002	0.002
100136.5	50065.9	4900.0	YM-20	0.0	0.0	0.0	154.7	174.7	0.0	0.001	0.001
100136.5	50065.9	4880.0	YM-20	0.0	0.0	0.0	174.7	194.7	0.0	0.001	0.001
100136.5	50065.9	4874.7	YM-20	0.0	0.0	0.0	194.7	200.0	0.0	0.000	0.000

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
101062.1	50094.4	4806.2	YM-21	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
101062.1	50094.4	4800.0	YM-21	0.0	0.0	0.0	0.0	6.2	0.0	0.002	0.002
101062.1	50094.4	4780.0	YM-21	0.0	0.0	0.0	6.2	26.2	0.0	0.004	0.004
101062.1	50094.4	4760.0	YM-21	0.0	0.0	0.0	26.2	46.2	0.0	0.019	0.019
101062.1	50094.4	4740.0	YM-21	0.0	0.0	0.0	46.2	66.2	0.0	0.010	0.010
101062.1	50094.4	4720.0	YM-21	0.0	0.0	0.0	66.2	86.2	0.0	0.013	0.013
101062.1	50094.4	4700.0	YM-21	0.0	0.0	0.0	86.2	106.2	0.0	0.007	0.007
101062.1	50094.4	4680.0	YM-21	0.0	0.0	0.0	106.2	126.2	0.0	0.002	0.002
101062.1	50094.4	4660.0	YM-21	0.0	0.0	0.0	126.2	146.2	0.0	0.000	0.000
101062.1	50094.4	4640.0	YM-21	0.0	0.0	0.0	146.2	166.2	0.0	0.001	0.001
101062.1	50094.4	4620.0	YM-21	0.0	0.0	0.0	166.2	186.2	0.0	0.004	0.004
101062.1	50094.4	4606.2	YM-21	0.0	0.0	0.0	186.2	200.0	0.0	0.000	0.000

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100172.6	49027.2	4884.0	YM-22	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100172.6	49027.2	4880.0	YM-22	0.0	0.0	0.0	0.0	4.0	0.0	0.001	0.001
100172.6	49027.2	4860.0	YM-22	0.0	0.0	0.0	4.0	24.0	0.0	0.001	0.001
100172.6	49027.2	4840.0	YM-22	0.0	0.0	0.0	24.0	44.0	0.0	0.000	0.000
100172.6	49027.2	4820.0	YM-22	0.0	0.0	0.0	44.0	64.0	0.0	0.001	0.001
100172.6	49027.2	4800.0	YM-22	0.0	0.0	0.0	64.0	84.0	0.0	0.001	0.001
100172.6	49027.2	4780.0	YM-22	0.0	0.0	0.0	84.0	104.0	0.0	0.001	0.001
100172.6	49027.2	4760.0	YM-22	0.0	0.0	0.0	104.0	124.0	0.0	0.001	0.001
100172.6	49027.2	4740.0	YM-22	0.0	0.0	0.0	124.0	144.0	0.0	0.002	0.002
100172.6	49027.2	4720.0	YM-22	0.0	0.0	0.0	144.0	164.0	0.0	0.002	0.002
100172.6	49027.2	4700.0	YM-22	0.0	0.0	0.0	164.0	184.0	0.0	0.002	0.002
100172.6	49027.2	4680.0	YM-22	0.0	0.0	0.0	184.0	204.0	0.0	0.003	0.003
100172.6	49027.2	4660.0	YM-22	0.0	0.0	0.0	204.0	224.0	0.0	0.018	0.018
100172.6	49027.2	4640.0	YM-22	0.0	0.0	0.0	224.0	244.0	0.0	0.008	0.008
100172.6	49027.2	4620.0	YM-22	0.0	0.0	0.0	244.0	264.0	0.0	0.005	0.005
100172.6	49027.2	4600.0	YM-22	0.0	0.0	0.0	264.0	284.0	0.0	0.018	0.018
100172.6	49027.2	4580.0	YM-22	0.0	0.0	0.0	284.0	304.0	0.0	0.005	0.005
100172.6	49027.2	4560.0	YM-22	0.0	0.0	0.0	304.0	324.0	0.0	0.003	0.003
100172.6	49027.2	4540.0	YM-22	0.0	0.0	0.0	324.0	344.0	0.0	0.004	0.004
100172.6	49027.2	4520.0	YM-22	0.0	0.0	0.0	344.0	364.0	0.0	0.002	0.002
100172.6	49027.2	4504.0	YM-22	0.0	0.0	0.0	364.0	380.0	0.0	0.001	0.001

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100027.2	49165.2	4860.9	YM-23	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100027.2	49165.2	4860.0	YM-23	0.0	0.0	0.0	0.0	0.9	0.0	0.002	0.002
100027.2	49165.2	4840.0	YM-23	0.0	0.0	0.0	0.9	20.9	0.0	0.002	0.002
100027.2	49165.2	4820.0	YM-23	0.0	0.0	0.0	20.9	40.9	0.0	0.010	0.010
100027.2	49165.2	4800.0	YM-23	0.0	0.0	0.0	40.9	60.9	0.0	0.073	0.073
100027.2	49165.2	4780.0	YM-23	0.0	0.0	0.0	60.9	80.9	0.0	0.012	0.012
100027.2	49165.2	4760.0	YM-23	0.0	0.0	0.0	80.9	100.9	0.0	0.027	0.027
100027.2	49165.2	4740.0	YM-23	0.0	0.0	0.0	100.9	120.9	0.0	0.066	0.066
100027.2	49165.2	4720.9	YM-23	0.0	0.0	0.0	120.9	140.0	0.0	0.021	0.021

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100062.9	49349.4	4893.5	YM-24	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100062.9	49349.4	4880.0	YM-24	0.0	0.0	0.0	0.0	13.5	0.0	0.006	0.006
100062.9	49349.4	4860.0	YM-24	0.0	0.0	0.0	13.5	33.5	0.0	0.003	0.003
100062.9	49349.4	4840.0	YM-24	0.0	0.0	0.0	33.5	53.5	0.0	0.006	0.006
100062.9	49349.4	4820.0	YM-24	0.0	0.0	0.0	53.5	73.5	0.0	0.004	0.042
100062.9	49349.4	4800.0	YM-24	0.0	0.0	0.0	73.5	93.5	0.0	0.123	0.121
100062.9	49349.4	4780.0	YM-24	0.0	0.0	0.0	93.5	113.5	0.0	0.069	0.069
100062.9	49349.4	4760.0	YM-24	0.0	0.0	0.0	113.5	133.5	0.0	0.006	0.006
100062.9	49349.4	4743.5	YM-24	0.0	0.0	0.0	133.5	150.0	0.0	0.004	0.004

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100063.1	49533.7	4947.3	YM-25	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100063.1	49533.7	4940.0	YM-25	0.0	0.0	0.0	0.0	7.3	0.0	0.009	0.009
100063.1	49533.7	4920.0	YM-25	0.0	0.0	0.0	7.3	27.3	0.0	0.007	0.007
100063.1	49533.7	4900.0	YM-25	0.0	0.0	0.0	27.3	47.3	0.0	0.009	0.009
100063.1	49533.7	4880.0	YM-25	0.0	0.0	0.0	47.3	67.3	0.0	0.032	0.029
100063.1	49533.7	4860.0	YM-25	0.0	0.0	0.0	67.3	87.3	0.0	0.087	0.087
100063.1	49533.7	4840.0	YM-25	0.0	0.0	0.0	87.3	107.3	0.0	0.012	0.012
100063.1	49533.7	4820.0	YM-25	0.0	0.0	0.0	107.3	127.3	0.0	0.001	0.001
100063.1	49533.7	4800.0	YM-25	0.0	0.0	0.0	127.3	147.3	0.0	0.001	0.001
100063.1	49533.7	4787.3	YM-25	0.0	0.0	0.0	147.3	160.0	0.0	0.003	0.003

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100427.5	49139.4	4911.0	YM-26	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100427.5	49139.4	4900.0	YM-26	0.0	0.0	0.0	0.0	11.0	0.0	0.002	0.002
100427.5	49139.4	4880.0	YM-26	0.0	0.0	0.0	11.0	31.0	0.0	0.002	0.002
100427.5	49139.4	4860.0	YM-26	0.0	0.0	0.0	31.0	51.0	0.0	0.002	0.002
100427.5	49139.4	4840.0	YM-26	0.0	0.0	0.0	51.0	71.0	0.0	0.004	0.003
100427.5	49139.4	4820.0	YM-26	0.0	0.0	0.0	71.0	91.0	0.0	0.009	0.005
100427.5	49139.4	4800.0	YM-26	0.0	0.0	0.0	91.0	111.0	0.0	0.001	0.001
100427.5	49139.4	4780.0	YM-26	0.0	0.0	0.0	111.0	131.0	0.0	0.002	0.002
100427.5	49139.4	4760.0	YM-26	0.0	0.0	0.0	131.0	151.0	0.0	0.003	0.003
100427.5	49139.4	4740.0	YM-26	0.0	0.0	0.0	151.0	171.0	0.0	0.002	0.002
100427.5	49139.4	4720.0	YM-26	0.0	0.0	0.0	171.0	191.0	0.0	0.002	0.002
100427.5	49139.4	4700.0	YM-26	0.0	0.0	0.0	191.0	211.0	0.0	0.033	0.026
100427.5	49139.4	4680.0	YM-26	0.0	0.0	0.0	211.0	231.0	0.0	0.036	0.036
100427.5	49139.4	4660.0	YM-26	0.0	0.0	0.0	231.0	251.0	0.0	0.024	0.024
100427.5	49139.4	4640.0	YM-26	0.0	0.0	0.0	251.0	271.0	0.0	0.072	0.072
100427.5	49139.4	4620.0	YM-26	0.0	0.0	0.0	271.0	291.0	0.0	0.087	0.087
100427.5	49139.4	4600.0	YM-26	0.0	0.0	0.0	291.0	311.0	0.0	0.014	0.014
100427.5	49139.4	4580.0	YM-26	0.0	0.0	0.0	311.0	331.0	0.0	0.012	0.012
100427.5	49139.4	4560.0	YM-26	0.0	0.0	0.0	331.0	351.0	0.0	0.011	0.011
100427.5	49139.4	4540.0	YM-26	0.0	0.0	0.0	351.0	371.0	0.0	0.004	0.004
100427.5	49139.4	4520.0	YM-26	0.0	0.0	0.0	371.0	391.0	0.0	0.005	0.005
100427.5	49139.4	4500.0	YM-26	0.0	0.0	0.0	391.0	411.0	0.0	0.005	0.005
100427.5	49139.4	4480.0	YM-26	0.0	0.0	0.0	411.0	431.0	0.0	0.002	0.002
100427.5	49139.4	4461.0	YM-26	0.0	0.0	0.0	431.0	450.0	0.0	0.002	0.002

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100923.0	49436.3	4835.4	YM-27	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100923.0	49436.3	4820.0	YM-27	0.0	0.0	0.0	0.0	15.4	0.0	0.002	0.002
100923.0	49436.3	4800.0	YM-27	0.0	0.0	0.0	15.4	35.4	0.0	0.004	0.004
100923.0	49436.3	4780.0	YM-27	0.0	0.0	0.0	35.4	55.4	0.0	0.006	0.006
100923.0	49436.3	4760.0	YM-27	0.0	0.0	0.0	55.4	75.4	0.0	0.022	0.022
100923.0	49436.3	4740.0	YM-27	0.0	0.0	0.0	75.4	95.4	0.0	0.012	0.012
100923.0	49436.3	4720.0	YM-27	0.0	0.0	0.0	95.4	115.4	0.0	0.003	0.003
100923.0	49436.3	4700.0	YM-27	0.0	0.0	0.0	115.4	135.4	0.0	0.016	0.016
100923.0	49436.3	4680.0	YM-27	0.0	0.0	0.0	135.4	155.4	0.0	0.004	0.004
100923.0	49436.3	4660.0	YM-27	0.0	0.0	0.0	155.4	175.4	0.0	0.005	0.005
100923.0	49436.3	4640.0	YM-27	0.0	0.0	0.0	175.4	195.4	0.0	0.003	0.003
100923.0	49436.3	4620.0	YM-27	0.0	0.0	0.0	195.4	215.4	0.0	0.008	0.008
100923.0	49436.3	4600.0	YM-27	0.0	0.0	0.0	215.4	235.4	0.0	0.002	0.002
100923.0	49436.3	4580.0	YM-27	0.0	0.0	0.0	235.4	255.4	0.0	0.022	0.022
100923.0	49436.3	4560.0	YM-27	0.0	0.0	0.0	255.4	275.4	0.0	0.008	0.008
100923.0	49436.3	4540.0	YM-27	0.0	0.0	0.0	275.4	295.4	0.0	0.002	0.002
100923.0	49436.3	4520.0	YM-27	0.0	0.0	0.0	295.4	315.4	0.0	0.026	0.026
100923.0	49436.3	4500.0	YM-27	0.0	0.0	0.0	315.4	335.4	0.0	0.002	0.002
100923.0	49436.3	4480.0	YM-27	0.0	0.0	0.0	335.4	355.4	0.0	0.000	0.000
100923.0	49436.3	4460.0	YM-27	0.0	0.0	0.0	355.4	375.4	0.0	0.000	0.000
100923.0	49436.3	4440.0	YM-27	0.0	0.0	0.0	375.4	395.4	0.0	0.001	0.001
100923.0	49436.3	4420.0	YM-27	0.0	0.0	0.0	395.4	415.4	0.0	0.017	0.017
100923.0	49436.3	4400.0	YM-27	0.0	0.0	0.0	415.4	435.4	0.0	0.002	0.002
100923.0	49436.3	4395.4	YM-27	0.0	0.0	0.0	435.4	440.0	0.0	0.000	0.000

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100959.3	49648.0	4817.0	YM-28	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100959.3	49648.0	4800.0	YM-28	0.0	0.0	0.0	0.0	17.0	0.0	0.007	0.007
100959.3	49648.0	4780.0	YM-28	0.0	0.0	0.0	17.0	37.0	0.0	0.005	0.005
100959.3	49648.0	4760.0	YM-28	0.0	0.0	0.0	37.0	57.0	0.0	0.011	0.011
100959.3	49648.0	4740.0	YM-28	0.0	0.0	0.0	57.0	77.0	0.0	0.003	0.003
100959.3	49648.0	4720.0	YM-28	0.0	0.0	0.0	77.0	97.0	0.0	0.012	0.012
100959.3	49648.0	4700.0	YM-28	0.0	0.0	0.0	97.0	117.0	0.0	0.030	0.030
100959.3	49648.0	4680.0	YM-28	0.0	0.0	0.0	117.0	137.0	0.0	0.019	0.019
100959.3	49648.0	4660.0	YM-28	0.0	0.0	0.0	137.0	157.0	0.0	0.026	0.026
100959.3	49648.0	4640.0	YM-28	0.0	0.0	0.0	157.0	177.0	0.0	0.016	0.016
100959.3	49648.0	4620.0	YM-28	0.0	0.0	0.0	177.0	197.0	0.0	0.023	0.023
100959.3	49648.0	4600.0	YM-28	0.0	0.0	0.0	197.0	217.0	0.0	0.020	0.020
100959.3	49648.0	4580.0	YM-28	0.0	0.0	0.0	217.0	237.0	0.0	0.021	0.021
100959.3	49648.0	4560.0	YM-28	0.0	0.0	0.0	237.0	257.0	0.0	0.024	0.024
100959.3	49648.0	4540.0	YM-28	0.0	0.0	0.0	257.0	277.0	0.0	0.001	0.001
100959.3	49648.0	4520.0	YM-28	0.0	0.0	0.0	277.0	297.0	0.0	0.001	0.001
100959.3	49648.0	4500.0	YM-28	0.0	0.0	0.0	297.0	317.0	0.0	0.002	0.002
100959.3	49648.0	4480.0	YM-28	0.0	0.0	0.0	317.0	337.0	0.0	0.003	0.003
100959.3	49648.0	4467.0	YM-28	0.0	0.0	0.0	337.0	350.0	0.0	0.002	0.002

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100118.7	48832.5	4858.6	YM-29	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100118.7	48832.5	4840.0	YM-29	0.0	0.0	0.0	0.0	18.6	0.0	0.001	0.001
100118.7	48832.5	4820.0	YM-29	0.0	0.0	0.0	18.6	38.6	0.0	0.002	0.002
100118.7	48832.5	4800.0	YM-29	0.0	0.0	0.0	38.6	58.6	0.0	0.003	0.003
100118.7	48832.5	4780.0	YM-29	0.0	0.0	0.0	58.6	78.6	0.0	0.000	0.000
100118.7	48832.5	4760.0	YM-29	0.0	0.0	0.0	78.6	98.6	0.0	0.001	0.001
100118.7	48832.5	4740.0	YM-29	0.0	0.0	0.0	98.6	118.6	0.0	0.001	0.001
100118.7	48832.5	4720.0	YM-29	0.0	0.0	0.0	118.6	138.6	0.0	0.002	0.002
100118.7	48832.5	4700.0	YM-29	0.0	0.0	0.0	138.6	158.6	0.0	0.002	0.002
100118.7	48832.5	4680.0	YM-29	0.0	0.0	0.0	158.6	178.6	0.0	0.002	0.002
100118.7	48832.5	4660.0	YM-29	0.0	0.0	0.0	178.6	198.6	0.0	0.002	0.002
100118.7	48832.5	4640.0	YM-29	0.0	0.0	0.0	198.6	218.6	0.0	0.007	0.007
100118.7	48832.5	4620.0	YM-29	0.0	0.0	0.0	218.6	238.6	0.0	0.020	0.020
100118.7	48832.5	4600.0	YM-29	0.0	0.0	0.0	238.6	258.6	0.0	0.004	0.004
100118.7	48832.5	4580.0	YM-29	0.0	0.0	0.0	258.6	278.6	0.0	0.003	0.003
100118.7	48832.5	4578.6	YM-29	0.0	0.0	0.0	278.6	280.0	0.0	0.002	0.002

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100331.8	49022.5	4894.1	YM-30	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100331.8	49022.5	4880.0	YM-30	0.0	0.0	0.0	0.0	14.1	0.0	0.227	0.227
100331.8	49022.5	4860.0	YM-30	0.0	0.0	0.0	14.1	34.1	0.0	0.002	0.002
100331.8	49022.5	4840.0	YM-30	0.0	0.0	0.0	34.1	54.1	0.0	0.003	0.003
100331.8	49022.5	4820.0	YM-30	0.0	0.0	0.0	54.1	74.1	0.0	0.002	0.002
100331.8	49022.5	4800.0	YM-30	0.0	0.0	0.0	74.1	94.1	0.0	0.003	0.003
100331.8	49022.5	4780.0	YM-30	0.0	0.0	0.0	94.1	114.1	0.0	0.001	0.001
100331.8	49022.5	4760.0	YM-30	0.0	0.0	0.0	114.1	134.1	0.0	0.004	0.004
100331.8	49022.5	4740.0	YM-30	0.0	0.0	0.0	134.1	154.1	0.0	0.001	0.001
100331.8	49022.5	4720.0	YM-30	0.0	0.0	0.0	154.1	174.1	0.0	0.002	0.002
100331.8	49022.5	4700.0	YM-30	0.0	0.0	0.0	174.1	194.1	0.0	0.013	0.013
100331.8	49022.5	4680.0	YM-30	0.0	0.0	0.0	194.1	214.1	0.0	0.004	0.004
100331.8	49022.5	4660.0	YM-30	0.0	0.0	0.0	214.1	234.1	0.0	0.033	0.033
100331.8	49022.5	4640.0	YM-30	0.0	0.0	0.0	234.1	254.1	0.0	0.026	0.026
100331.8	49022.5	4620.0	YM-30	0.0	0.0	0.0	254.1	274.1	0.0	0.002	0.002
100331.8	49022.5	4600.0	YM-30	0.0	0.0	0.0	274.1	294.1	0.0	0.001	0.001
100331.8	49022.5	4580.0	YM-30	0.0	0.0	0.0	294.1	314.1	0.0	0.000	0.000
100331.8	49022.5	4579.1	YM-30	0.0	0.0	0.0	314.1	315.0	0.0	0.000	0.000

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100684.2	49253.6	4918.6	YM-31	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100684.2	49253.6	4900.0	YM-31	0.0	0.0	0.0	0.0	18.6	0.0	0.002	0.002
100684.2	49253.6	4880.0	YM-31	0.0	0.0	0.0	18.6	38.6	0.0	0.012	0.012
100684.2	49253.6	4860.0	YM-31	0.0	0.0	0.0	38.6	58.6	0.0	0.004	0.004
100684.2	49253.6	4840.0	YM-31	0.0	0.0	0.0	58.6	78.6	0.0	0.009	0.009
100684.2	49253.6	4820.0	YM-31	0.0	0.0	0.0	78.6	98.6	0.0	0.007	0.007
100684.2	49253.6	4800.0	YM-31	0.0	0.0	0.0	98.6	118.6	0.0	0.008	0.008
100684.2	49253.6	4780.0	YM-31	0.0	0.0	0.0	118.6	138.6	0.0	0.015	0.015
100684.2	49253.6	4760.0	YM-31	0.0	0.0	0.0	138.6	158.6	0.0	0.002	0.002
100684.2	49253.6	4740.0	YM-31	0.0	0.0	0.0	158.6	178.6	0.0	0.002	0.002
100684.2	49253.6	4720.0	YM-31	0.0	0.0	0.0	178.6	198.6	0.0	0.001	0.001
100684.2	49253.6	4700.0	YM-31	0.0	0.0	0.0	198.6	218.6	0.0	0.000	0.000
100684.2	49253.6	4680.0	YM-31	0.0	0.0	0.0	218.6	238.6	0.0	0.001	0.001
100684.2	49253.6	4660.0	YM-31	0.0	0.0	0.0	238.6	258.6	0.0	0.002	0.002
100684.2	49253.6	4640.0	YM-31	0.0	0.0	0.0	258.6	278.6	0.0	0.002	0.002
100684.2	49253.6	4620.0	YM-31	0.0	0.0	0.0	278.6	298.6	0.0	0.002	0.002
100684.2	49253.6	4600.0	YM-31	0.0	0.0	0.0	298.6	318.6	0.0	0.009	0.009
100684.2	49253.6	4580.0	YM-31	0.0	0.0	0.0	318.6	338.6	0.0	0.004	0.004
100684.2	49253.6	4560.0	YM-31	0.0	0.0	0.0	338.6	358.6	0.0	0.003	0.003
100684.2	49253.6	4540.0	YM-31	0.0	0.0	0.0	358.6	378.6	0.0	0.050	0.050
100684.2	49253.6	4520.0	YM-31	0.0	0.0	0.0	378.6	398.6	0.0	0.009	0.009
100684.2	49253.6	4500.0	YM-31	0.0	0.0	0.0	398.6	418.6	0.0	0.001	0.001
100684.2	49253.6	4480.0	YM-31	0.0	0.0	0.0	418.6	438.6	0.0	0.000	0.000
100684.2	49253.6	4478.6	YM-31	0.0	0.0	0.0	438.6	440.0	0.0	0.000	0.000

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100873.5	49960.0	4920.2	YM-32	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100873.5	49960.0	4920.0	YM-32	0.0	0.0	0.0	0.0	0.2	0.0	0.026	0.026
100873.5	49960.0	4900.0	YM-32	0.0	0.0	0.0	0.2	20.2	0.0	0.019	0.019
100873.5	49960.0	4880.0	YM-32	0.0	0.0	0.0	20.2	40.2	0.0	0.004	0.004
100873.5	49960.0	4860.0	YM-32	0.0	0.0	0.0	40.2	60.2	0.0	0.004	0.004
100873.5	49960.0	4840.0	YM-32	0.0	0.0	0.0	60.2	80.2	0.0	0.013	0.013
100873.5	49960.0	4820.0	YM-32	0.0	0.0	0.0	80.2	100.2	0.0	0.010	0.010
100873.5	49960.0	4800.0	YM-32	0.0	0.0	0.0	100.2	120.2	0.0	0.005	0.005
100873.5	49960.0	4780.0	YM-32	0.0	0.0	0.0	120.2	140.2	0.0	0.019	0.019
100873.5	49960.0	4760.0	YM-32	0.0	0.0	0.0	140.2	160.2	0.0	0.009	0.009
100873.5	49960.0	4740.0	YM-32	0.0	0.0	0.0	160.2	180.2	0.0	0.012	0.012
100873.5	49960.0	4720.0	YM-32	0.0	0.0	0.0	180.2	200.2	0.0	0.018	0.018
100873.5	49960.0	4700.0	YM-32	0.0	0.0	0.0	200.2	220.2	0.0	0.001	0.001
100873.5	49960.0	4680.0	YM-32	0.0	0.0	0.0	220.2	240.2	0.0	0.001	0.001
100873.5	49960.0	4660.2	YM-32	0.0	0.0	0.0	240.2	260.0	0.0	0.001	0.001

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100629.8	49440.8	4969.7	YM-33	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100629.8	49440.8	4960.0	YM-33	0.0	0.0	0.0	0.0	9.7	0.0	0.007	0.007
100629.8	49440.8	4940.0	YM-33	0.0	0.0	0.0	9.7	29.7	0.0	0.011	0.011
100629.8	49440.8	4920.0	YM-33	0.0	0.0	0.0	29.7	49.7	0.0	0.015	0.015
100629.8	49440.8	4900.0	YM-33	0.0	0.0	0.0	49.7	69.7	0.0	0.008	0.008
100629.8	49440.8	4880.0	YM-33	0.0	0.0	0.0	69.7	89.7	0.0	0.002	0.002
100629.8	49440.8	4860.0	YM-33	0.0	0.0	0.0	89.7	109.7	0.0	0.001	0.001
100629.8	49440.8	4840.0	YM-33	0.0	0.0	0.0	109.7	129.7	0.0	0.002	0.002
100629.8	49440.8	4820.0	YM-33	0.0	0.0	0.0	129.7	149.7	0.0	0.003	0.003
100629.8	49440.8	4800.0	YM-33	0.0	0.0	0.0	149.7	169.7	0.0	0.002	0.002
100629.8	49440.8	4780.0	YM-33	0.0	0.0	0.0	169.7	189.7	0.0	0.003	0.003
100629.8	49440.8	4760.0	YM-33	0.0	0.0	0.0	189.7	209.7	0.0	0.002	0.002
100629.8	49440.8	4740.0	YM-33	0.0	0.0	0.0	209.7	229.7	0.0	0.002	0.002
100629.8	49440.8	4720.0	YM-33	0.0	0.0	0.0	229.7	249.7	0.0	0.001	0.001
100629.8	49440.8	4700.0	YM-33	0.0	0.0	0.0	249.7	269.7	0.0	0.002	0.002
100629.8	49440.8	4680.0	YM-33	0.0	0.0	0.0	269.7	289.7	0.0	0.044	0.044
100629.8	49440.8	4660.0	YM-33	0.0	0.0	0.0	289.7	309.7	0.0	0.079	0.079
100629.8	49440.8	4640.0	YM-33	0.0	0.0	0.0	309.7	329.7	0.0	0.029	0.029
100629.8	49440.8	4620.0	YM-33	0.0	0.0	0.0	329.7	349.7	0.0	0.036	0.036
100629.8	49440.8	4600.0	YM-33	0.0	0.0	0.0	349.7	369.7	0.0	0.043	0.043
100629.8	49440.8	4580.0	YM-33	0.0	0.0	0.0	369.7	389.7	0.0	0.005	0.005
100629.8	49440.8	4560.0	YM-33	0.0	0.0	0.0	389.7	409.7	0.0	0.001	0.001
100629.8	49440.8	4559.7	YM-33	0.0	0.0	0.0	409.7	410.0	0.0	0.000	0.000

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
101468.1	49898.0	4671.9	YM-34	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
101468.1	49898.0	4660.0	YM-34	0.0	0.0	0.0	0.0	11.9	0.0	0.003	0.003
101468.1	49898.0	4640.0	YM-34	0.0	0.0	0.0	11.9	31.9	0.0	0.005	0.005
101468.1	49898.0	4620.0	YM-34	0.0	0.0	0.0	31.9	51.9	0.0	0.008	0.008
101468.1	49898.0	4600.0	YM-34	0.0	0.0	0.0	51.9	71.9	0.0	0.004	0.004
101468.1	49898.0	4580.0	YM-34	0.0	0.0	0.0	71.9	91.9	0.0	0.008	0.008
101468.1	49898.0	4560.0	YM-34	0.0	0.0	0.0	91.9	111.9	0.0	0.003	0.003
101468.1	49898.0	4540.0	YM-34	0.0	0.0	0.0	111.9	131.9	0.0	0.013	0.013
101468.1	49898.0	4521.9	YM-34	0.0	0.0	0.0	131.9	150.0	0.0	0.007	0.007

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
101181.8	50199.4	4729.8	YM-35	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
101181.8	50199.4	4720.0	YM-35	0.0	0.0	0.0	0.0	9.8	0.0	0.002	0.002
101181.8	50199.4	4700.0	YM-35	0.0	0.0	0.0	9.8	29.8	0.0	0.008	0.008
101181.8	50199.4	4680.0	YM-35	0.0	0.0	0.0	29.8	49.8	0.0	0.007	0.007
101181.8	50199.4	4660.0	YM-35	0.0	0.0	0.0	49.8	69.8	0.0	0.002	0.002
101181.8	50199.4	4640.0	YM-35	0.0	0.0	0.0	69.8	89.8	0.0	0.001	0.001
101181.8	50199.4	4629.8	YM-35	0.0	0.0	0.0	89.8	100.0	0.0	0.001	0.001

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
101319.7	50064.8	4705.2	YM-36	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
101319.7	50064.8	4700.0	YM-36	0.0	0.0	0.0	0.0	5.2	0.0	0.005	0.005
101319.7	50064.8	4680.0	YM-36	0.0	0.0	0.0	5.2	25.2	0.0	0.001	0.001
101319.7	50064.8	4660.0	YM-36	0.0	0.0	0.0	25.2	45.2	0.0	0.006	0.006
101319.7	50064.8	4640.0	YM-36	0.0	0.0	0.0	45.2	65.2	0.0	0.019	0.019
101319.7	50064.8	4620.0	YM-36	0.0	0.0	0.0	65.2	85.2	0.0	0.002	0.002
101319.7	50064.8	4600.0	YM-36	0.0	0.0	0.0	85.2	105.2	0.0	0.011	0.011
101319.7	50064.8	4580.0	YM-36	0.0	0.0	0.0	105.2	125.2	0.0	0.008	0.008
101319.7	50064.8	4560.0	YM-36	0.0	0.0	0.0	125.2	145.2	0.0	0.028	0.028
101319.7	50064.8	4540.0	YM-36	0.0	0.0	0.0	145.2	165.2	0.0	0.003	0.003
101319.7	50064.8	4525.2	YM-36	0.0	0.0	0.0	165.2	180.0	0.0	0.001	0.001

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100178.0	49314.9	4925.1	YM-37	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100178.0	49314.9	4920.0	YM-37	0.0	0.0	0.0	0.0	5.1	0.0	0.001	0.001
100178.0	49314.9	4900.0	YM-37	0.0	0.0	0.0	5.1	25.1	0.0	0.003	0.003
100178.0	49314.9	4880.0	YM-37	0.0	0.0	0.0	25.1	45.1	0.0	0.003	0.003
100178.0	49314.9	4860.0	YM-37	0.0	0.0	0.0	45.1	65.1	0.0	0.006	0.006
100178.0	49314.9	4840.0	YM-37	0.0	0.0	0.0	65.1	85.1	0.0	0.016	0.016
100178.0	49314.9	4820.0	YM-37	0.0	0.0	0.0	85.1	105.1	0.0	0.006	0.006
100178.0	49314.9	4800.0	YM-37	0.0	0.0	0.0	105.1	125.1	0.0	0.013	0.013
100178.0	49314.9	4780.0	YM-37	0.0	0.0	0.0	125.1	145.1	0.0	0.027	0.027
100178.0	49314.9	4760.0	YM-37	0.0	0.0	0.0	145.1	165.1	0.0	0.024	0.024
100178.0	49314.9	4740.0	YM-37	0.0	0.0	0.0	165.1	185.1	0.0	0.051	0.051
100178.0	49314.9	4720.0	YM-37	0.0	0.0	0.0	185.1	205.1	0.0	0.003	0.003
100178.0	49314.9	4700.0	YM-37	0.0	0.0	0.0	205.1	225.1	0.0	0.003	0.003
100178.0	49314.9	4695.1	YM-37	0.0	0.0	0.0	225.1	230.0	0.0	0.001	0.001

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100374.7	49312.5	4983.9	YM-38	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100374.7	49312.5	4980.0	YM-38	0.0	0.0	0.0	0.0	3.9	0.0	0.001	0.001
100374.7	49312.5	4960.0	YM-38	0.0	0.0	0.0	3.9	23.9	0.0	0.002	0.002
100374.7	49312.5	4940.0	YM-38	0.0	0.0	0.0	23.9	43.9	0.0	0.002	0.002
100374.7	49312.5	4920.0	YM-38	0.0	0.0	0.0	43.9	63.9	0.0	0.002	0.002
100374.7	49312.5	4900.0	YM-38	0.0	0.0	0.0	63.9	83.9	0.0	0.001	0.001
100374.7	49312.5	4880.0	YM-38	0.0	0.0	0.0	83.9	103.9	0.0	0.002	0.002
100374.7	49312.5	4860.0	YM-38	0.0	0.0	0.0	103.9	123.9	0.0	0.001	0.001
100374.7	49312.5	4840.0	YM-38	0.0	0.0	0.0	123.9	143.9	0.0	0.001	0.001
100374.7	49312.5	4820.0	YM-38	0.0	0.0	0.0	143.9	163.9	0.0	0.002	0.002
100374.7	49312.5	4800.0	YM-38	0.0	0.0	0.0	163.9	183.9	0.0	0.004	0.004
100374.7	49312.5	4780.0	YM-38	0.0	0.0	0.0	183.9	203.9	0.0	0.032	0.032
100374.7	49312.5	4760.0	YM-38	0.0	0.0	0.0	203.9	223.9	0.0	0.019	0.019
100374.7	49312.5	4740.0	YM-38	0.0	0.0	0.0	223.9	243.9	0.0	0.018	0.018
100374.7	49312.5	4720.0	YM-38	0.0	0.0	0.0	243.9	263.9	0.0	0.006	0.006
100374.7	49312.5	4700.0	YM-38	0.0	0.0	0.0	263.9	283.9	0.0	0.011	0.011
100374.7	49312.5	4680.0	YM-38	0.0	0.0	0.0	283.9	303.9	0.0	0.007	0.007
100374.7	49312.5	4660.0	YM-38	0.0	0.0	0.0	303.9	323.9	0.0	0.006	0.006
100374.7	49312.5	4640.0	YM-38	0.0	0.0	0.0	323.9	343.9	0.0	0.008	0.008
100374.7	49312.5	4623.9	YM-38	0.0	0.0	0.0	343.9	360.0	0.0	0.006	0.006

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100587.8	49594.9	5010.7	YM-39	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100587.8	49594.9	5000.0	YM-39	0.0	0.0	0.0	0.0	10.7	0.0	0.044	0.044
100587.8	49594.9	4980.0	YM-39	0.0	0.0	0.0	10.7	30.7	0.0	0.016	0.016
100587.8	49594.9	4960.0	YM-39	0.0	0.0	0.0	30.7	50.7	0.0	0.015	0.015
100587.8	49594.9	4940.0	YM-39	0.0	0.0	0.0	50.7	70.7	0.0	0.012	0.012
100587.8	49594.9	4920.0	YM-39	0.0	0.0	0.0	70.7	90.7	0.0	0.004	0.004
100587.8	49594.9	4900.0	YM-39	0.0	0.0	0.0	90.7	110.7	0.0	0.002	0.002
100587.8	49594.9	4880.0	YM-39	0.0	0.0	0.0	110.7	130.7	0.0	0.003	0.003
100587.8	49594.9	4860.0	YM-39	0.0	0.0	0.0	130.7	150.7	0.0	0.008	0.008
100587.8	49594.9	4840.0	YM-39	0.0	0.0	0.0	150.7	170.7	0.0	0.008	0.008
100587.8	49594.9	4820.0	YM-39	0.0	0.0	0.0	170.7	190.7	0.0	0.002	0.002
100587.8	49594.9	4800.0	YM-39	0.0	0.0	0.0	190.7	210.7	0.0	0.009	0.009
100587.8	49594.9	4780.0	YM-39	0.0	0.0	0.0	210.7	230.7	0.0	0.008	0.006
100587.8	49594.9	4760.0	YM-39	0.0	0.0	0.0	230.7	250.7	0.0	0.006	0.005
100587.8	49594.9	4740.0	YM-39	0.0	0.0	0.0	250.7	270.7	0.0	0.002	0.002
100587.8	49594.9	4720.0	YM-39	0.0	0.0	0.0	270.7	290.7	0.0	0.008	0.008
100587.8	49594.9	4700.0	YM-39	0.0	0.0	0.0	290.7	310.7	0.0	0.024	0.024
100587.8	49594.9	4680.0	YM-39	0.0	0.0	0.0	310.7	330.7	0.0	0.026	0.026
100587.8	49594.9	4660.0	YM-39	0.0	0.0	0.0	330.7	350.7	0.0	0.047	0.047
100587.8	49594.9	4650.7	YM-39	0.0	0.0	0.0	350.7	360.0	0.0	0.039	0.039

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100501.3	49506.1	5024.4	YM-40	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100501.3	49506.1	5020.0	YM-40	0.0	0.0	0.0	0.0	4.4	0.0	0.007	0.007
100501.3	49506.1	5000.0	YM-40	0.0	0.0	0.0	4.4	24.4	0.0	0.004	0.004
100501.3	49506.1	4980.0	YM-40	0.0	0.0	0.0	24.4	44.4	0.0	0.007	0.007
100501.3	49506.1	4960.0	YM-40	0.0	0.0	0.0	44.4	64.4	0.0	0.008	0.008
100501.3	49506.1	4940.0	YM-40	0.0	0.0	0.0	64.4	84.4	0.0	0.025	0.025
100501.3	49506.1	4920.0	YM-40	0.0	0.0	0.0	84.4	104.4	0.0	0.003	0.003
100501.3	49506.1	4900.0	YM-40	0.0	0.0	0.0	104.4	124.4	0.0	0.002	0.002
100501.3	49506.1	4880.0	YM-40	0.0	0.0	0.0	124.4	144.4	0.0	0.009	0.009
100501.3	49506.1	4860.0	YM-40	0.0	0.0	0.0	144.4	164.4	0.0	0.010	0.010
100501.3	49506.1	4840.0	YM-40	0.0	0.0	0.0	164.4	184.4	0.0	0.003	0.003
100501.3	49506.1	4820.0	YM-40	0.0	0.0	0.0	184.4	204.4	0.0	0.003	0.003
100501.3	49506.1	4800.0	YM-40	0.0	0.0	0.0	204.4	224.4	0.0	0.008	0.008
100501.3	49506.1	4780.0	YM-40	0.0	0.0	0.0	224.4	244.4	0.0	0.007	0.007
100501.3	49506.1	4760.0	YM-40	0.0	0.0	0.0	244.4	264.4	0.0	0.004	0.004
100501.3	49506.1	4740.0	YM-40	0.0	0.0	0.0	264.4	284.4	0.0	0.012	0.012
100501.3	49506.1	4720.0	YM-40	0.0	0.0	0.0	284.4	304.4	0.0	0.054	0.054
100501.3	49506.1	4700.0	YM-40	0.0	0.0	0.0	304.4	324.4	0.0	0.073	0.073
100501.3	49506.1	4680.0	YM-40	0.0	0.0	0.0	324.4	344.4	0.0	0.064	0.064
100501.3	49506.1	4660.0	YM-40	0.0	0.0	0.0	344.4	364.4	0.0	0.090	0.090
100501.3	49506.1	4640.0	YM-40	0.0	0.0	0.0	364.4	384.4	0.0	0.035	0.035
100501.3	49506.1	4624.4	YM-40	0.0	0.0	0.0	384.4	400.0	0.0	0.005	0.005

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100564.3	49330.1	4978.4	YM-41	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100564.3	49330.1	4960.0	YM-41	0.0	0.0	0.0	0.0	18.4	0.0	0.018	0.018
100564.3	49330.1	4940.0	YM-41	0.0	0.0	0.0	18.4	38.4	0.0	0.005	0.005
100564.3	49330.1	4920.0	YM-41	0.0	0.0	0.0	38.4	58.4	0.0	0.016	0.016
100564.3	49330.1	4900.0	YM-41	0.0	0.0	0.0	58.4	78.4	0.0	0.003	0.003
100564.3	49330.1	4880.0	YM-41	0.0	0.0	0.0	78.4	98.4	0.0	0.002	0.002
100564.3	49330.1	4860.0	YM-41	0.0	0.0	0.0	98.4	118.4	0.0	0.006	0.006
100564.3	49330.1	4840.0	YM-41	0.0	0.0	0.0	118.4	138.4	0.0	0.002	0.002
100564.3	49330.1	4820.0	YM-41	0.0	0.0	0.0	138.4	158.4	0.0	0.001	0.001
100564.3	49330.1	4800.0	YM-41	0.0	0.0	0.0	158.4	178.4	0.0	0.004	0.004
100564.3	49330.1	4780.0	YM-41	0.0	0.0	0.0	178.4	198.4	0.0	0.004	0.004
100564.3	49330.1	4760.0	YM-41	0.0	0.0	0.0	198.4	218.4	0.0	0.003	0.003
100564.3	49330.1	4740.0	YM-41	0.0	0.0	0.0	218.4	238.4	0.0	0.001	0.001
100564.3	49330.1	4720.0	YM-41	0.0	0.0	0.0	238.4	258.4	0.0	0.001	0.001
100564.3	49330.1	4700.0	YM-41	0.0	0.0	0.0	258.4	278.4	0.0	0.001	0.001
100564.3	49330.1	4680.0	YM-41	0.0	0.0	0.0	278.4	298.4	0.0	0.004	0.004
100564.3	49330.1	4660.0	YM-41	0.0	0.0	0.0	298.4	318.4	0.0	0.044	0.044
100564.3	49330.1	4640.0	YM-41	0.0	0.0	0.0	318.4	338.4	0.0	0.045	0.045
100564.3	49330.1	4620.0	YM-41	0.0	0.0	0.0	338.4	358.4	0.0	0.008	0.008
100564.3	49330.1	4600.0	YM-41	0.0	0.0	0.0	358.4	378.4	0.0	0.014	0.014
100564.3	49330.1	4580.0	YM-41	0.0	0.0	0.0	378.4	398.4	0.0	0.005	0.005
100564.3	49330.1	4560.0	YM-41	0.0	0.0	0.0	398.4	418.4	0.0	0.001	0.001
100564.3	49330.1	4540.0	YM-41	0.0	0.0	0.0	418.4	438.4	0.0	0.001	0.001
100564.3	49330.1	4528.4	YM-41	0.0	0.0	0.0	438.4	450.0	0.0	0.001	0.001

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100760.1	49454.9	4909.6	YM-42	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100760.1	49454.9	4900.0	YM-42	0.0	0.0	0.0	0.0	9.6	0.0	0.004	0.004
100760.1	49454.9	4880.0	YM-42	0.0	0.0	0.0	9.6	29.6	0.0	0.004	0.004
100760.1	49454.9	4860.0	YM-42	0.0	0.0	0.0	29.6	49.6	0.0	0.001	0.001
100760.1	49454.9	4840.0	YM-42	0.0	0.0	0.0	49.6	69.6	0.0	0.002	0.002
100760.1	49454.9	4820.0	YM-42	0.0	0.0	0.0	69.6	89.6	0.0	0.014	0.014
100760.1	49454.9	4800.0	YM-42	0.0	0.0	0.0	89.6	109.6	0.0	0.001	0.001
100760.1	49454.9	4780.0	YM-42	0.0	0.0	0.0	109.6	129.6	0.0	0.019	0.019
100760.1	49454.9	4760.0	YM-42	0.0	0.0	0.0	129.6	149.6	0.0	0.003	0.003
100760.1	49454.9	4740.0	YM-42	0.0	0.0	0.0	149.6	169.6	0.0	0.006	0.005
100760.1	49454.9	4720.0	YM-42	0.0	0.0	0.0	169.6	189.6	0.0	0.005	0.005
100760.1	49454.9	4700.0	YM-42	0.0	0.0	0.0	189.6	209.6	0.0	0.001	0.001
100760.1	49454.9	4680.0	YM-42	0.0	0.0	0.0	209.6	229.6	0.0	0.002	0.002
100760.1	49454.9	4660.0	YM-42	0.0	0.0	0.0	229.6	249.6	0.0	0.003	0.003
100760.1	49454.9	4640.0	YM-42	0.0	0.0	0.0	249.6	269.6	0.0	0.004	0.004
100760.1	49454.9	4620.0	YM-42	0.0	0.0	0.0	269.6	289.6	0.0	0.010	0.010
100760.1	49454.9	4600.0	YM-42	0.0	0.0	0.0	289.6	309.6	0.0	0.003	0.003
100760.1	49454.9	4580.0	YM-42	0.0	0.0	0.0	309.6	329.6	0.0	0.003	0.003
100760.1	49454.9	4560.0	YM-42	0.0	0.0	0.0	329.6	349.6	0.0	0.030	0.030
100760.1	49454.9	4540.0	YM-42	0.0	0.0	0.0	349.6	369.6	0.0	0.002	0.002
100760.1	49454.9	4520.0	YM-42	0.0	0.0	0.0	369.6	389.6	0.0	0.001	0.001
100760.1	49454.9	4500.0	YM-42	0.0	0.0	0.0	389.6	409.6	0.0	0.001	0.001
100760.1	49454.9	4499.6	YM-42	0.0	0.0	0.0	409.6	410.0	0.0	0.001	0.001

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100793.2	50066.0	4907.9	YM-43	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100793.2	50066.0	4900.0	YM-43	0.0	0.0	0.0	0.0	7.9	0.0	0.011	0.011
100793.2	50066.0	4880.0	YM-43	0.0	0.0	0.0	7.9	27.9	0.0	0.006	0.006
100793.2	50066.0	4860.0	YM-43	0.0	0.0	0.0	27.9	47.9	0.0	0.007	0.007
100793.2	50066.0	4840.0	YM-43	0.0	0.0	0.0	47.9	67.9	0.0	0.006	0.006
100793.2	50066.0	4820.0	YM-43	0.0	0.0	0.0	67.9	87.9	0.0	0.059	0.059
100793.2	50066.0	4800.0	YM-43	0.0	0.0	0.0	87.9	107.9	0.0	0.003	0.003
100793.2	50066.0	4780.0	YM-43	0.0	0.0	0.0	107.9	127.9	0.0	0.001	0.001
100793.2	50066.0	4767.9	YM-43	0.0	0.0	0.0	127.9	140.0	0.0	0.001	0.001

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100850.2	49780.1	4910.5	YM-44	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100850.2	49780.1	4900.0	YM-44	0.0	0.0	0.0	0.0	10.5	0.0	0.013	0.013
100850.2	49780.1	4880.0	YM-44	0.0	0.0	0.0	10.5	30.5	0.0	0.003	0.003
100850.2	49780.1	4860.0	YM-44	0.0	0.0	0.0	30.5	50.5	0.0	0.004	0.004
100850.2	49780.1	4840.0	YM-44	0.0	0.0	0.0	50.5	70.5	0.0	0.004	0.004
100850.2	49780.1	4820.0	YM-44	0.0	0.0	0.0	70.5	90.5	0.0	0.008	0.008
100850.2	49780.1	4800.0	YM-44	0.0	0.0	0.0	90.5	110.5	0.0	0.004	0.004
100850.2	49780.1	4780.0	YM-44	0.0	0.0	0.0	110.5	130.5	0.0	0.026	0.021
100850.2	49780.1	4760.0	YM-44	0.0	0.0	0.0	130.5	150.5	0.0	0.014	0.014
100850.2	49780.1	4740.0	YM-44	0.0	0.0	0.0	150.5	170.5	0.0	0.029	0.029
100850.2	49780.1	4720.0	YM-44	0.0	0.0	0.0	170.5	190.5	0.0	0.046	0.046
100850.2	49780.1	4700.0	YM-44	0.0	0.0	0.0	190.5	210.5	0.0	0.017	0.017
100850.2	49780.1	4680.0	YM-44	0.0	0.0	0.0	210.5	230.5	0.0	0.017	0.017
100850.2	49780.1	4660.0	YM-44	0.0	0.0	0.0	230.5	250.5	0.0	0.045	0.045
100850.2	49780.1	4640.0	YM-44	0.0	0.0	0.0	250.5	270.5	0.0	0.174	0.174
100850.2	49780.1	4620.0	YM-44	0.0	0.0	0.0	270.5	290.5	0.0	0.003	0.003
100850.2	49780.1	4600.5	YM-44	0.0	0.0	0.0	290.5	310.0	0.0	0.001	0.001

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100551.4	50110.8	4980.4	YM-45	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100551.4	50110.8	4980.0	YM-45	0.0	0.0	0.0	0.0	0.4	0.0	0.017	0.017
100551.4	50110.8	4960.0	YM-45	0.0	0.0	0.0	0.4	20.4	0.0	0.008	0.008
100551.4	50110.8	4940.0	YM-45	0.0	0.0	0.0	20.4	40.4	0.0	0.002	0.002
100551.4	50110.8	4920.0	YM-45	0.0	0.0	0.0	40.4	60.4	0.0	0.003	0.003
100551.4	50110.8	4900.0	YM-45	0.0	0.0	0.0	60.4	80.4	0.0	0.063	0.063
100551.4	50110.8	4880.0	YM-45	0.0	0.0	0.0	80.4	100.4	0.0	0.003	0.003
100551.4	50110.8	4860.4	YM-45	0.0	0.0	0.0	100.4	120.0	0.0	0.001	0.001

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100057.8	48921.0	4883.5	YM-46	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100057.8	48921.0	4880.0	YM-46	0.0	0.0	0.0	0.0	3.5	0.0	0.001	0.001
100057.8	48921.0	4860.0	YM-46	0.0	0.0	0.0	3.5	23.5	0.0	0.000	0.000
100057.8	48921.0	4840.0	YM-46	0.0	0.0	0.0	23.5	43.5	0.0	0.001	0.001
100057.8	48921.0	4820.0	YM-46	0.0	0.0	0.0	43.5	63.5	0.0	0.003	0.003
100057.8	48921.0	4800.0	YM-46	0.0	0.0	0.0	63.5	83.5	0.0	0.001	0.001
100057.8	48921.0	4780.0	YM-46	0.0	0.0	0.0	83.5	103.5	0.0	0.001	0.001
100057.8	48921.0	4760.0	YM-46	0.0	0.0	0.0	103.5	123.5	0.0	0.001	0.001
100057.8	48921.0	4740.0	YM-46	0.0	0.0	0.0	123.5	143.5	0.0	0.001	0.001
100057.8	48921.0	4720.0	YM-46	0.0	0.0	0.0	143.5	163.5	0.0	0.003	0.003
100057.8	48921.0	4700.0	YM-46	0.0	0.0	0.0	163.5	183.5	0.0	0.004	0.004
100057.8	48921.0	4680.0	YM-46	0.0	0.0	0.0	183.5	203.5	0.0	0.005	0.005
100057.8	48921.0	4660.0	YM-46	0.0	0.0	0.0	203.5	223.5	0.0	0.014	0.014
100057.8	48921.0	4640.0	YM-46	0.0	0.0	0.0	223.5	243.5	0.0	0.007	0.007
100057.8	48921.0	4620.0	YM-46	0.0	0.0	0.0	243.5	263.5	0.0	0.014	0.014
100057.8	48921.0	4600.0	YM-46	0.0	0.0	0.0	263.5	283.5	0.0	0.008	0.008
100057.8	48921.0	4583.5	YM-46	0.0	0.0	0.0	283.5	300.0	0.0	0.007	0.007

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100104.5	49097.3	4873.4	YM-47	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100104.5	49097.3	4860.0	YM-47	0.0	0.0	0.0	0.0	13.4	0.0	0.002	0.002
100104.5	49097.3	4840.0	YM-47	0.0	0.0	0.0	13.4	33.4	0.0	0.002	0.002
100104.5	49097.3	4820.0	YM-47	0.0	0.0	0.0	33.4	53.4	0.0	0.002	0.002
100104.5	49097.3	4800.0	YM-47	0.0	0.0	0.0	53.4	73.4	0.0	0.002	0.002
100104.5	49097.3	4780.0	YM-47	0.0	0.0	0.0	73.4	93.4	0.0	0.005	0.005
100104.5	49097.3	4760.0	YM-47	0.0	0.0	0.0	93.4	113.4	0.0	0.005	0.005
100104.5	49097.3	4740.0	YM-47	0.0	0.0	0.0	113.4	133.4	0.0	0.010	0.010
100104.5	49097.3	4720.0	YM-47	0.0	0.0	0.0	133.4	153.4	0.0	0.014	0.014
100104.5	49097.3	4700.0	YM-47	0.0	0.0	0.0	153.4	173.4	0.0	0.018	0.018
100104.5	49097.3	4680.0	YM-47	0.0	0.0	0.0	173.4	193.4	0.0	0.035	0.035
100104.5	49097.3	4660.0	YM-47	0.0	0.0	0.0	193.4	213.4	0.0	0.017	0.017
100104.5	49097.3	4640.0	YM-47	0.0	0.0	0.0	213.4	233.4	0.0	0.003	0.003
100104.5	49097.3	4620.0	YM-47	0.0	0.0	0.0	233.4	253.4	0.0	0.001	0.001
100104.5	49097.3	4600.0	YM-47	0.0	0.0	0.0	253.4	273.4	0.0	0.001	0.001
100104.5	49097.3	4580.0	YM-47	0.0	0.0	0.0	273.4	293.4	0.0	0.001	0.001
100104.5	49097.3	4560.0	YM-47	0.0	0.0	0.0	293.4	313.4	0.0	0.005	0.005
100104.5	49097.3	4553.4	YM-47	0.0	0.0	0.0	313.4	320.0	0.0	0.002	0.002

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
99681.3	48754.2	4776.6	YM-48	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
99681.3	48754.2	4760.0	YM-48	0.0	0.0	0.0	0.0	16.6	0.0	0.001	0.001
99681.3	48754.2	4740.0	YM-48	0.0	0.0	0.0	16.6	36.6	0.0	0.005	0.005
99681.3	48754.2	4720.0	YM-48	0.0	0.0	0.0	36.6	56.6	0.0	0.030	0.030
99681.3	48754.2	4700.0	YM-48	0.0	0.0	0.0	56.6	76.6	0.0	0.057	0.057
99681.3	48754.2	4680.0	YM-48	0.0	0.0	0.0	76.6	96.6	0.0	0.017	0.017
99681.3	48754.2	4660.0	YM-48	0.0	0.0	0.0	96.6	116.6	0.0	0.006	0.006
99681.3	48754.2	4640.0	YM-48	0.0	0.0	0.0	116.6	136.6	0.0	0.003	0.003
99681.3	48754.2	4620.0	YM-48	0.0	0.0	0.0	136.6	156.6	0.0	0.001	0.001
99681.3	48754.2	4600.0	YM-48	0.0	0.0	0.0	156.6	176.6	0.0	0.002	0.002
99681.3	48754.2	4580.0	YM-48	0.0	0.0	0.0	176.6	196.6	0.0	0.002	0.002
99681.3	48754.2	4560.0	YM-48	0.0	0.0	0.0	196.6	216.6	0.0	0.002	0.002
99681.3	48754.2	4556.6	YM-48	0.0	0.0	0.0	216.6	220.0	0.0	0.001	0.001

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
99853.3	48847.1	4827.6	YM-49	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
99853.3	48847.1	4820.0	YM-49	0.0	0.0	0.0	0.0	7.6	0.0	0.053	0.053
99853.3	48847.1	4800.0	YM-49	0.0	0.0	0.0	7.6	27.6	0.0	0.019	0.019
99853.3	48847.1	4780.0	YM-49	0.0	0.0	0.0	27.6	47.6	0.0	0.001	0.001
99853.3	48847.1	4760.0	YM-49	0.0	0.0	0.0	47.6	67.6	0.0	0.001	0.001
99853.3	48847.1	4740.0	YM-49	0.0	0.0	0.0	67.6	87.6	0.0	0.001	0.001
99853.3	48847.1	4720.0	YM-49	0.0	0.0	0.0	87.6	107.6	0.0	0.000	0.000
99853.3	48847.1	4700.0	YM-49	0.0	0.0	0.0	107.6	127.6	0.0	0.006	0.006
99853.3	48847.1	4680.0	YM-49	0.0	0.0	0.0	127.6	147.6	0.0	0.026	0.026
99853.3	48847.1	4660.0	YM-49	0.0	0.0	0.0	147.6	167.6	0.0	0.034	0.034
99853.3	48847.1	4640.0	YM-49	0.0	0.0	0.0	167.6	187.6	0.0	0.006	0.006
99853.3	48847.1	4620.0	YM-49	0.0	0.0	0.0	187.6	207.6	0.0	0.005	0.005
99853.3	48847.1	4607.6	YM-49	0.0	0.0	0.0	207.6	220.0	0.0	0.004	0.004

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
99861.6	49155.5	4818.2	YM-50	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
99861.6	49155.5	4800.0	YM-50	0.0	0.0	0.0	0.0	18.2	0.0	0.075	0.075
99861.6	49155.5	4780.0	YM-50	0.0	0.0	0.0	18.2	38.2	0.0	0.009	0.009
99861.6	49155.5	4760.0	YM-50	0.0	0.0	0.0	38.2	58.2	0.0	0.092	0.092
99861.6	49155.5	4740.0	YM-50	0.0	0.0	0.0	58.2	78.2	0.0	0.049	0.049
99861.6	49155.5	4733.2	YM-50	0.0	0.0	0.0	78.2	85.0	0.0	0.154	0.154

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
99994.7	48694.1	4789.0	YM-51	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
99994.7	48694.1	4780.0	YM-51	0.0	0.0	0.0	0.0	9.0	0.0	0.002	0.002
99994.7	48694.1	4760.0	YM-51	0.0	0.0	0.0	9.0	29.0	0.0	0.001	0.001
99994.7	48694.1	4740.0	YM-51	0.0	0.0	0.0	29.0	49.0	0.0	0.000	0.000
99994.7	48694.1	4720.0	YM-51	0.0	0.0	0.0	49.0	69.0	0.0	0.001	0.001
99994.7	48694.1	4700.0	YM-51	0.0	0.0	0.0	69.0	89.0	0.0	0.002	0.002
99994.7	48694.1	4680.0	YM-51	0.0	0.0	0.0	89.0	109.0	0.0	0.005	0.005
99994.7	48694.1	4660.0	YM-51	0.0	0.0	0.0	109.0	129.0	0.0	0.005	0.005
99994.7	48694.1	4640.0	YM-51	0.0	0.0	0.0	129.0	149.0	0.0	0.006	0.006
99994.7	48694.1	4620.0	YM-51	0.0	0.0	0.0	149.0	169.0	0.0	0.013	0.013
99994.7	48694.1	4600.0	YM-51	0.0	0.0	0.0	169.0	189.0	0.0	0.006	0.006
99994.7	48694.1	4580.0	YM-51	0.0	0.0	0.0	189.0	209.0	0.0	0.007	0.007
99994.7	48694.1	4560.0	YM-51	0.0	0.0	0.0	209.0	229.0	0.0	0.006	0.006
99994.7	48694.1	4549.0	YM-51	0.0	0.0	0.0	229.0	240.0	0.0	0.001	0.001

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
99996.4	49214.3	4854.5	YM-52	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
99996.4	49214.3	4840.0	YM-52	0.0	0.0	0.0	0.0	14.5	0.0	0.002	0.002
99996.4	49214.3	4820.0	YM-52	0.0	0.0	0.0	14.5	34.5	0.0	0.008	0.008
99996.4	49214.3	4800.0	YM-52	0.0	0.0	0.0	34.5	54.5	0.0	0.007	0.007
99996.4	49214.3	4780.0	YM-52	0.0	0.0	0.0	54.5	74.5	0.0	0.058	0.058
99996.4	49214.3	4760.0	YM-52	0.0	0.0	0.0	74.5	94.5	0.0	0.005	0.005
99996.4	49214.3	4740.0	YM-52	0.0	0.0	0.0	94.5	114.5	0.0	0.002	0.002
99996.4	49214.3	4720.0	YM-52	0.0	0.0	0.0	114.5	134.5	0.0	0.006	0.006
99996.4	49214.3	4700.0	YM-52	0.0	0.0	0.0	134.5	154.5	0.0	0.002	0.002
99996.4	49214.3	4680.0	YM-52	0.0	0.0	0.0	154.5	174.5	0.0	0.007	0.007
99996.4	49214.3	4660.0	YM-52	0.0	0.0	0.0	174.5	194.5	0.0	0.002	0.002
99996.4	49214.3	4654.5	YM-52	0.0	0.0	0.0	194.5	200.0	0.0	0.001	0.001

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
99916.2	49077.7	4844.7	YM-53	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
99916.2	49077.7	4840.0	YM-53	0.0	0.0	0.0	0.0	4.7	0.0	0.014	0.014
99916.2	49077.7	4820.0	YM-53	0.0	0.0	0.0	4.7	24.7	0.0	0.001	0.001
99916.2	49077.7	4800.0	YM-53	0.0	0.0	0.0	24.7	44.7	0.0	0.002	0.002
99916.2	49077.7	4780.0	YM-53	0.0	0.0	0.0	44.7	64.7	0.0	0.009	0.009
99916.2	49077.7	4760.0	YM-53	0.0	0.0	0.0	64.7	84.7	0.0	0.052	0.052
99916.2	49077.7	4740.0	YM-53	0.0	0.0	0.0	84.7	104.7	0.0	0.047	0.047
99916.2	49077.7	4720.0	YM-53	0.0	0.0	0.0	104.7	124.7	0.0	0.020	0.020
99916.2	49077.7	4700.0	YM-53	0.0	0.0	0.0	124.7	144.7	0.0	0.017	0.017
99916.2	49077.7	4694.7	YM-53	0.0	0.0	0.0	144.7	150.0	0.0	0.001	0.001

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100413.6	49704.6	5060.0	YM-54	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100413.6	49704.6	5040.0	YM-54	0.0	0.0	0.0	0.0	20.0	0.0	0.022	0.022
100413.6	49704.6	5020.0	YM-54	0.0	0.0	0.0	20.0	40.0	0.0	0.002	0.002
100413.6	49704.6	5000.0	YM-54	0.0	0.0	0.0	40.0	60.0	0.0	0.011	0.011
100413.6	49704.6	4980.0	YM-54	0.0	0.0	0.0	60.0	80.0	0.0	0.022	0.022
100413.6	49704.6	4960.0	YM-54	0.0	0.0	0.0	80.0	100.0	0.0	0.012	0.012
100413.6	49704.6	4940.0	YM-54	0.0	0.0	0.0	100.0	120.0	0.0	0.009	0.009
100413.6	49704.6	4920.0	YM-54	0.0	0.0	0.0	120.0	140.0	0.0	0.006	0.006
100413.6	49704.6	4900.0	YM-54	0.0	0.0	0.0	140.0	160.0	0.0	0.007	0.007
100413.6	49704.6	4880.0	YM-54	0.0	0.0	0.0	160.0	180.0	0.0	0.006	0.006
100413.6	49704.6	4860.0	YM-54	0.0	0.0	0.0	180.0	200.0	0.0	0.026	0.026
100413.6	49704.6	4840.0	YM-54	0.0	0.0	0.0	200.0	220.0	0.0	0.034	0.034
100413.6	49704.6	4820.0	YM-54	0.0	0.0	0.0	220.0	240.0	0.0	0.094	0.094
100413.6	49704.6	4800.0	YM-54	0.0	0.0	0.0	240.0	260.0	0.0	0.076	0.076
100413.6	49704.6	4780.0	YM-54	0.0	0.0	0.0	260.0	280.0	0.0	0.013	0.013
100413.6	49704.6	4760.0	YM-54	0.0	0.0	0.0	280.0	300.0	0.0	0.018	0.018
100413.6	49704.6	4740.0	YM-54	0.0	0.0	0.0	300.0	320.0	0.0	0.004	0.004
100413.6	49704.6	4720.0	YM-54	0.0	0.0	0.0	320.0	340.0	0.0	0.013	0.013

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100391.2	49885.2	5073.8	YM-55	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100391.2	49885.2	5060.0	YM-55	0.0	0.0	0.0	0.0	13.8	0.0	0.012	0.012
100391.2	49885.2	5040.0	YM-55	0.0	0.0	0.0	13.8	33.8	0.0	0.012	0.012
100391.2	49885.2	5020.0	YM-55	0.0	0.0	0.0	33.8	53.8	0.0	0.012	0.012
100391.2	49885.2	5000.0	YM-55	0.0	0.0	0.0	53.8	73.8	0.0	0.010	0.010
100391.2	49885.2	4980.0	YM-55	0.0	0.0	0.0	73.8	93.8	0.0	0.024	0.024
100391.2	49885.2	4960.0	YM-55	0.0	0.0	0.0	93.8	113.8	0.0	0.023	0.023
100391.2	49885.2	4940.0	YM-55	0.0	0.0	0.0	113.8	133.8	0.0	0.039	0.039
100391.2	49885.2	4920.0	YM-55	0.0	0.0	0.0	133.8	153.8	0.0	0.133	0.117
100391.2	49885.2	4900.0	YM-55	0.0	0.0	0.0	153.8	173.8	0.0	0.012	0.033
100391.2	49885.2	4880.0	YM-55	0.0	0.0	0.0	173.8	193.8	0.0	0.027	0.027
100391.2	49885.2	4860.0	YM-55	0.0	0.0	0.0	193.8	213.8	0.0	0.007	0.007
100391.2	49885.2	4853.8	YM-55	0.0	0.0	0.0	213.8	220.0	0.0	0.001	0.001

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100324.7	49962.1	5078.2	YM-56	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100324.7	49962.1	5060.0	YM-56	0.0	0.0	0.0	0.0	18.2	0.0	0.009	0.009
100324.7	49962.1	5040.0	YM-56	0.0	0.0	0.0	18.2	38.2	0.0	0.009	0.009
100324.7	49962.1	5020.0	YM-56	0.0	0.0	0.0	38.2	58.2	0.0	0.012	0.012
100324.7	49962.1	5000.0	YM-56	0.0	0.0	0.0	58.2	78.2	0.0	0.027	0.027
100324.7	49962.1	4980.0	YM-56	0.0	0.0	0.0	78.2	98.2	0.0	0.082	0.082
100324.7	49962.1	4960.0	YM-56	0.0	0.0	0.0	98.2	118.2	0.0	0.042	0.042
100324.7	49962.1	4940.0	YM-56	0.0	0.0	0.0	118.2	138.2	0.0	0.008	0.008
100324.7	49962.1	4920.0	YM-56	0.0	0.0	0.0	138.2	158.2	0.0	0.002	0.002
100324.7	49962.1	4900.0	YM-56	0.0	0.0	0.0	158.2	178.2	0.0	0.004	0.004
100324.7	49962.1	4898.2	YM-56	0.0	0.0	0.0	178.2	180.0	0.0	0.001	0.001

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100254.5	50021.2	5090.1	YM-57	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100254.5	50021.2	5080.0	YM-57	0.0	0.0	0.0	0.0	10.1	0.0	0.011	0.011
100254.5	50021.2	5060.0	YM-57	0.0	0.0	0.0	10.1	30.1	0.0	0.021	0.021
100254.5	50021.2	5040.0	YM-57	0.0	0.0	0.0	30.1	50.1	0.0	0.040	0.040
100254.5	50021.2	5020.0	YM-57	0.0	0.0	0.0	50.1	70.1	0.0	0.018	0.031
100254.5	50021.2	5000.0	YM-57	0.0	0.0	0.0	70.1	90.1	0.0	0.003	0.003
100254.5	50021.2	4980.0	YM-57	0.0	0.0	0.0	90.1	110.1	0.0	0.002	0.002
100254.5	50021.2	4970.1	YM-57	0.0	0.0	0.0	110.1	120.0	0.0	0.004	0.004

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100323.3	50088.3	5055.8	YM-58	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100323.3	50088.3	5040.0	YM-58	0.0	0.0	0.0	0.0	15.8	0.0	0.038	0.038
100323.3	50088.3	5020.0	YM-58	0.0	0.0	0.0	15.8	35.8	0.0	0.012	0.012
100323.3	50088.3	5000.0	YM-58	0.0	0.0	0.0	35.8	55.8	0.0	0.002	0.002
100323.3	50088.3	4980.0	YM-58	0.0	0.0	0.0	55.8	75.8	0.0	0.001	0.001
100323.3	50088.3	4965.8	YM-58	0.0	0.0	0.0	75.8	90.0	0.0	0.003	0.003

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100517.2	50020.0	5019.0	YM-59	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100517.2	50020.0	5000.0	YM-59	0.0	0.0	0.0	0.0	19.0	0.0	0.013	0.013
100517.2	50020.0	4980.0	YM-59	0.0	0.0	0.0	19.0	39.0	0.0	0.009	0.009
100517.2	50020.0	4960.0	YM-59	0.0	0.0	0.0	39.0	59.0	0.0	0.021	0.021
100517.2	50020.0	4940.0	YM-59	0.0	0.0	0.0	59.0	79.0	0.0	0.024	0.024
100517.2	50020.0	4920.0	YM-59	0.0	0.0	0.0	79.0	99.0	0.0	0.036	0.036
100517.2	50020.0	4900.0	YM-59	0.0	0.0	0.0	99.0	119.0	0.0	0.005	0.005
100517.2	50020.0	4880.0	YM-59	0.0	0.0	0.0	119.0	139.0	0.0	0.002	0.002
100517.2	50020.0	4860.0	YM-59	0.0	0.0	0.0	139.0	159.0	0.0	0.002	0.002
100517.2	50020.0	4840.0	YM-59	0.0	0.0	0.0	159.0	179.0	0.0	0.001	0.001
100517.2	50020.0	4839.0	YM-59	0.0	0.0	0.0	179.0	180.0	0.0	0.000	0.000

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100467.5	50107.5	5009.9	YM-60	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100467.5	50107.5	5000.0	YM-60	0.0	0.0	0.0	0.0	9.9	0.0	0.004	0.004
100467.5	50107.5	4980.0	YM-60	0.0	0.0	0.0	9.9	29.9	0.0	0.004	0.004
100467.5	50107.5	4960.0	YM-60	0.0	0.0	0.0	29.9	49.9	0.0	0.002	0.002
100467.5	50107.5	4940.0	YM-60	0.0	0.0	0.0	49.9	69.9	0.0	0.001	0.001
100467.5	50107.5	4920.0	YM-60	0.0	0.0	0.0	69.9	89.9	0.0	0.001	0.001
100467.5	50107.5	4900.0	YM-60	0.0	0.0	0.0	89.9	109.9	0.0	0.002	0.002
100467.5	50107.5	4899.9	YM-60	0.0	0.0	0.0	109.9	110.0	0.0	0.003	0.003

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100564.3	49899.7	5036.1	YM-61	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100564.3	49899.7	5020.0	YM-61	0.0	0.0	0.0	0.0	16.1	0.0	0.008	0.008
100564.3	49899.7	5000.0	YM-61	0.0	0.0	0.0	16.1	36.1	0.0	0.021	0.021
100564.3	49899.7	4980.0	YM-61	0.0	0.0	0.0	36.1	56.1	0.0	0.004	0.004
100564.3	49899.7	4960.0	YM-61	0.0	0.0	0.0	56.1	76.1	0.0	0.005	0.005
100564.3	49899.7	4940.0	YM-61	0.0	0.0	0.0	76.1	96.1	0.0	0.033	0.033
100564.3	49899.7	4920.0	YM-61	0.0	0.0	0.0	96.1	116.1	0.0	0.028	0.028
100564.3	49899.7	4900.0	YM-61	0.0	0.0	0.0	116.1	136.1	0.0	0.027	0.027
100564.3	49899.7	4880.0	YM-61	0.0	0.0	0.0	136.1	156.1	0.0	0.037	0.037
100564.3	49899.7	4860.0	YM-61	0.0	0.0	0.0	156.1	176.1	0.0	0.062	0.061
100564.3	49899.7	4840.0	YM-61	0.0	0.0	0.0	176.1	196.1	0.0	0.023	0.033
100564.3	49899.7	4820.0	YM-61	0.0	0.0	0.0	196.1	216.1	0.0	0.009	0.009
100564.3	49899.7	4800.0	YM-61	0.0	0.0	0.0	216.1	236.1	0.0	0.010	0.010
100564.3	49899.7	4786.1	YM-61	0.0	0.0	0.0	236.1	250.0	0.0	0.007	0.007

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100361.3	49612.9	5039.5	YM-62	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100361.3	49612.9	5020.0	YM-62	0.0	0.0	0.0	0.0	19.5	0.0	0.003	0.003
100361.3	49612.9	5000.0	YM-62	0.0	0.0	0.0	19.5	39.5	0.0	0.004	0.004
100361.3	49612.9	4980.0	YM-62	0.0	0.0	0.0	39.5	59.5	0.0	0.016	0.016
100361.3	49612.9	4960.0	YM-62	0.0	0.0	0.0	59.5	79.5	0.0	0.006	0.006
100361.3	49612.9	4940.0	YM-62	0.0	0.0	0.0	79.5	99.5	0.0	0.003	0.003
100361.3	49612.9	4920.0	YM-62	0.0	0.0	0.0	99.5	119.5	0.0	0.005	0.005
100361.3	49612.9	4900.0	YM-62	0.0	0.0	0.0	119.5	139.5	0.0	0.018	0.018
100361.3	49612.9	4880.0	YM-62	0.0	0.0	0.0	139.5	159.5	0.0	0.015	0.015
100361.3	49612.9	4860.0	YM-62	0.0	0.0	0.0	159.5	179.5	0.0	0.016	0.016
100361.3	49612.9	4840.0	YM-62	0.0	0.0	0.0	179.5	199.5	0.0	0.026	0.026
100361.3	49612.9	4820.0	YM-62	0.0	0.0	0.0	199.5	219.5	0.0	0.029	0.029
100361.3	49612.9	4800.0	YM-62	0.0	0.0	0.0	219.5	239.5	0.0	0.035	0.035
100361.3	49612.9	4780.0	YM-62	0.0	0.0	0.0	239.5	259.5	0.0	0.059	0.050
100361.3	49612.9	4760.0	YM-62	0.0	0.0	0.0	259.5	279.5	0.0	0.000	0.040
100361.3	49612.9	4740.0	YM-62	0.0	0.0	0.0	279.5	299.5	0.0	0.003	0.032
100361.3	49612.9	4720.0	YM-62	0.0	0.0	0.0	299.5	319.5	0.0	0.015	0.015
100361.3	49612.9	4719.5	YM-62	0.0	0.0	0.0	319.5	320.0	0.0	0.052	0.052

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100306.6	49701.4	5045.0	YM-63	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100306.6	49701.4	5040.0	YM-63	0.0	0.0	0.0	0.0	5.0	0.0	0.002	0.002
100306.6	49701.4	5020.0	YM-63	0.0	0.0	0.0	5.0	25.0	0.0	0.016	0.016
100306.6	49701.4	5000.0	YM-63	0.0	0.0	0.0	25.0	45.0	0.0	0.012	0.012
100306.6	49701.4	4980.0	YM-63	0.0	0.0	0.0	45.0	65.0	0.0	0.008	0.008
100306.6	49701.4	4960.0	YM-63	0.0	0.0	0.0	65.0	85.0	0.0	0.016	0.016
100306.6	49701.4	4940.0	YM-63	0.0	0.0	0.0	85.0	105.0	0.0	0.006	0.006
100306.6	49701.4	4920.0	YM-63	0.0	0.0	0.0	105.0	125.0	0.0	0.006	0.006
100306.6	49701.4	4900.0	YM-63	0.0	0.0	0.0	125.0	145.0	0.0	0.030	0.030
100306.6	49701.4	4880.0	YM-63	0.0	0.0	0.0	145.0	165.0	0.0	0.050	0.050
100306.6	49701.4	4860.0	YM-63	0.0	0.0	0.0	165.0	185.0	0.0	0.059	0.059
100306.6	49701.4	4840.0	YM-63	0.0	0.0	0.0	185.0	205.0	0.0	0.155	0.155
100306.6	49701.4	4820.0	YM-63	0.0	0.0	0.0	205.0	225.0	0.0	0.098	0.098
100306.6	49701.4	4805.0	YM-63	0.0	0.0	0.0	225.0	240.0	0.0	0.034	0.034

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100188.0	49738.1	5041.5	YM-64	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100188.0	49738.1	5040.0	YM-64	0.0	0.0	0.0	0.0	1.5	0.0	0.009	0.009
100188.0	49738.1	5020.0	YM-64	0.0	0.0	0.0	1.5	21.5	0.0	0.009	0.009
100188.0	49738.1	5000.0	YM-64	0.0	0.0	0.0	21.5	41.5	0.0	0.009	0.009
100188.0	49738.1	4980.0	YM-64	0.0	0.0	0.0	41.5	61.5	0.0	0.031	0.031
100188.0	49738.1	4960.0	YM-64	0.0	0.0	0.0	61.5	81.5	0.0	0.021	0.021
100188.0	49738.1	4940.0	YM-64	0.0	0.0	0.0	81.5	101.5	0.0	0.020	0.020
100188.0	49738.1	4920.0	YM-64	0.0	0.0	0.0	101.5	121.5	0.0	0.067	0.067
100188.0	49738.1	4900.0	YM-64	0.0	0.0	0.0	121.5	141.5	0.0	0.029	0.029
100188.0	49738.1	4880.0	YM-64	0.0	0.0	0.0	141.5	161.5	0.0	0.008	0.008
100188.0	49738.1	4860.0	YM-64	0.0	0.0	0.0	161.5	181.5	0.0	0.004	0.004
100188.0	49738.1	4841.5	YM-64	0.0	0.0	0.0	181.5	200.0	0.0	0.011	0.015

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
99551.4	48903.2	4765.6	YM-65	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
99551.4	48903.2	4760.0	YM-65	0.0	0.0	0.0	0.0	5.6	0.0	0.084	0.084
99551.4	48903.2	4740.0	YM-65	0.0	0.0	0.0	5.6	25.6	0.0	0.044	0.044
99551.4	48903.2	4720.0	YM-65	0.0	0.0	0.0	25.6	45.6	0.0	0.043	0.043
99551.4	48903.2	4700.0	YM-65	0.0	0.0	0.0	45.6	65.6	0.0	0.018	0.018
99551.4	48903.2	4680.0	YM-65	0.0	0.0	0.0	65.6	85.6	0.0	0.004	0.004
99551.4	48903.2	4660.0	YM-65	0.0	0.0	0.0	85.6	105.6	0.0	0.005	0.005
99551.4	48903.2	4640.0	YM-65	0.0	0.0	0.0	105.6	125.6	0.0	0.003	0.003
99551.4	48903.2	4630.6	YM-65	0.0	0.0	0.0	125.6	135.0	0.0	0.003	0.003

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
99378.5	48923.0	4764.5	YM-66	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
99378.5	48923.0	4760.0	YM-66	0.0	0.0	0.0	0.0	4.5	0.0	0.004	0.004
99378.5	48923.0	4740.0	YM-66	0.0	0.0	0.0	4.5	24.5	0.0	0.003	0.003
99378.5	48923.0	4720.0	YM-66	0.0	0.0	0.0	24.5	44.5	0.0	0.001	0.001
99378.5	48923.0	4704.5	YM-66	0.0	0.0	0.0	44.5	60.0	0.0	0.002	0.002

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
99597.7	48811.0	4776.5	YM-67	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
99597.7	48811.0	4760.0	YM-67	0.0	0.0	0.0	0.0	16.5	0.0	0.055	0.055
99597.7	48811.0	4740.0	YM-67	0.0	0.0	0.0	16.5	36.5	0.0	0.056	0.056
99597.7	48811.0	4720.0	YM-67	0.0	0.0	0.0	36.5	56.5	0.0	0.021	0.021
99597.7	48811.0	4700.0	YM-67	0.0	0.0	0.0	56.5	76.5	0.0	0.008	0.008
99597.7	48811.0	4686.5	YM-67	0.0	0.0	0.0	76.5	90.0	0.0	0.002	0.002

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
99789.8	49232.8	4848.5	YM-68	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
99789.8	49232.8	4840.0	YM-68	0.0	0.0	0.0	0.0	8.5	0.0	0.003	0.003
99789.8	49232.8	4820.0	YM-68	0.0	0.0	0.0	8.5	28.5	0.0	0.001	0.001
99789.8	49232.8	4800.0	YM-68	0.0	0.0	0.0	28.5	48.5	0.0	0.001	0.001
99789.8	49232.8	4780.0	YM-68	0.0	0.0	0.0	48.5	68.5	0.0	0.002	0.002
99789.8	49232.8	4760.0	YM-68	0.0	0.0	0.0	68.5	88.5	0.0	0.002	0.002
99789.8	49232.8	4740.0	YM-68	0.0	0.0	0.0	88.5	108.5	0.0	0.002	0.002
99789.8	49232.8	4720.0	YM-68	0.0	0.0	0.0	108.5	128.5	0.0	0.002	0.002
99789.8	49232.8	4718.5	YM-68	0.0	0.0	0.0	128.5	130.0	0.0	0.001	0.001

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100371.2	49213.1	4951.2	YM-69	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100371.2	49213.1	4940.0	YM-69	0.0	0.0	0.0	0.0	11.2	0.0	0.002	0.002
100371.2	49213.1	4920.0	YM-69	0.0	0.0	0.0	11.2	31.2	0.0	0.004	0.006
100371.2	49213.1	4900.0	YM-69	0.0	0.0	0.0	31.2	51.2	0.0	0.002	0.002
100371.2	49213.1	4880.0	YM-69	0.0	0.0	0.0	51.2	71.2	0.0	0.004	0.004
100371.2	49213.1	4860.0	YM-69	0.0	0.0	0.0	71.2	91.2	0.0	0.005	0.005
100371.2	49213.1	4840.0	YM-69	0.0	0.0	0.0	91.2	111.2	0.0	0.006	0.006
100371.2	49213.1	4820.0	YM-69	0.0	0.0	0.0	111.2	131.2	0.0	0.005	0.005
100371.2	49213.1	4800.0	YM-69	0.0	0.0	0.0	131.2	151.2	0.0	0.003	0.003
100371.2	49213.1	4780.0	YM-69	0.0	0.0	0.0	151.2	171.2	0.0	0.002	0.002
100371.2	49213.1	4760.0	YM-69	0.0	0.0	0.0	171.2	191.2	0.0	0.007	0.007
100371.2	49213.1	4740.0	YM-69	0.0	0.0	0.0	191.2	211.2	0.0	0.015	0.015
100371.2	49213.1	4720.0	YM-69	0.0	0.0	0.0	211.2	231.2	0.0	0.008	0.008
100371.2	49213.1	4700.0	YM-69	0.0	0.0	0.0	231.2	251.2	0.0	0.013	0.013
100371.2	49213.1	4680.0	YM-69	0.0	0.0	0.0	251.2	271.2	0.0	0.088	0.088
100371.2	49213.1	4660.0	YM-69	0.0	0.0	0.0	271.2	291.2	0.0	0.019	0.019
100371.2	49213.1	4640.0	YM-69	0.0	0.0	0.0	291.2	311.2	0.0	0.010	0.010
100371.2	49213.1	4620.0	YM-69	0.0	0.0	0.0	311.2	331.2	0.0	0.004	0.004
100371.2	49213.1	4600.0	YM-69	0.0	0.0	0.0	331.2	351.2	0.0	0.003	0.003
100371.2	49213.1	4580.0	YM-69	0.0	0.0	0.0	351.2	371.2	0.0	0.004	0.004
100371.2	49213.1	4560.0	YM-69	0.0	0.0	0.0	371.2	391.2	0.0	0.002	0.002
100371.2	49213.1	4551.2	YM-69	0.0	0.0	0.0	391.2	400.0	0.0	0.005	0.005

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100258.4	49792.7	5058.4	YM-70	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100258.4	49792.7	5040.0	YM-70	0.0	0.0	0.0	0.0	18.4	0.0	0.005	0.005
100258.4	49792.7	5020.0	YM-70	0.0	0.0	0.0	18.4	38.4	0.0	0.006	0.006
100258.4	49792.7	5000.0	YM-70	0.0	0.0	0.0	38.4	58.4	0.0	0.007	0.007
100258.4	49792.7	4980.0	YM-70	0.0	0.0	0.0	58.4	78.4	0.0	0.010	0.010
100258.4	49792.7	4960.0	YM-70	0.0	0.0	0.0	78.4	98.4	0.0	0.016	0.016
100258.4	49792.7	4940.0	YM-70	0.0	0.0	0.0	98.4	118.4	0.0	0.027	0.027
100258.4	49792.7	4920.0	YM-70	0.0	0.0	0.0	118.4	138.4	0.0	0.030	0.030
100258.4	49792.7	4900.0	YM-70	0.0	0.0	0.0	138.4	158.4	0.0	0.006	0.006
100258.4	49792.7	4880.0	YM-70	0.0	0.0	0.0	158.4	178.4	0.0	0.002	0.002
100258.4	49792.7	4868.4	YM-70	0.0	0.0	0.0	178.4	190.0	0.0	0.003	0.003

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100129.8	49664.8	5010.7	YM-71	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100129.8	49664.8	5000.0	YM-71	0.0	0.0	0.0	0.0	10.7	0.0	0.005	0.005
100129.8	49664.8	4980.0	YM-71	0.0	0.0	0.0	10.7	30.7	0.0	0.007	0.007
100129.8	49664.8	4960.0	YM-71	0.0	0.0	0.0	30.7	50.7	0.0	0.028	0.028
100129.8	49664.8	4940.0	YM-71	0.0	0.0	0.0	50.7	70.7	0.0	0.034	0.034
100129.8	49664.8	4920.0	YM-71	0.0	0.0	0.0	70.7	90.7	0.0	0.288	0.288
100129.8	49664.8	4900.0	YM-71	0.0	0.0	0.0	90.7	110.7	0.0	0.103	0.103
100129.8	49664.8	4880.0	YM-71	0.0	0.0	0.0	110.7	130.7	0.0	0.016	0.016
100129.8	49664.8	4860.0	YM-71	0.0	0.0	0.0	130.7	150.7	0.0	0.009	0.009
100129.8	49664.8	4850.7	YM-71	0.0	0.0	0.0	150.7	160.0	0.0	0.012	0.012

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100016.3	49691.4	5008.8	YM-72	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100016.3	49691.4	5000.0	YM-72	0.0	0.0	0.0	0.0	8.8	0.0	0.023	0.023
100016.3	49691.4	4980.0	YM-72	0.0	0.0	0.0	8.8	28.8	0.0	0.098	0.098
100016.3	49691.4	4960.0	YM-72	0.0	0.0	0.0	28.8	48.8	0.0	0.043	0.043
100016.3	49691.4	4940.0	YM-72	0.0	0.0	0.0	48.8	68.8	0.0	0.010	0.010
100016.3	49691.4	4920.0	YM-72	0.0	0.0	0.0	68.8	88.8	0.0	0.003	0.003
100016.3	49691.4	4900.0	YM-72	0.0	0.0	0.0	88.8	108.8	0.0	0.002	0.002
100016.3	49691.4	4880.0	YM-72	0.0	0.0	0.0	108.8	128.8	0.0	0.007	0.007
100016.3	49691.4	4860.0	YM-72	0.0	0.0	0.0	128.8	148.8	0.0	0.002	0.002
100016.3	49691.4	4858.8	YM-72	0.0	0.0	0.0	148.8	150.0	0.0	0.001	0.001

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
99972.5	49569.8	4947.4	YM-73	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
99972.5	49569.8	4940.0	YM-73	0.0	0.0	0.0	0.0	7.4	0.0	0.257	0.257
99972.5	49569.8	4920.0	YM-73	0.0	0.0	0.0	7.4	27.4	0.0	0.098	0.098
99972.5	49569.8	4900.0	YM-73	0.0	0.0	0.0	27.4	47.4	0.0	0.014	0.014
99972.5	49569.8	4880.0	YM-73	0.0	0.0	0.0	47.4	67.4	0.0	0.001	0.001
99972.5	49569.8	4860.0	YM-73	0.0	0.0	0.0	67.4	87.4	0.0	0.002	0.002
99972.5	49569.8	4857.4	YM-73	0.0	0.0	0.0	87.4	90.0	0.0	0.002	0.002

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
99982.5	49463.8	4899.1	YM-74	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
99982.5	49463.8	4880.0	YM-74	0.0	0.0	0.0	0.0	19.1	0.0	0.006	0.006
99982.5	49463.8	4860.0	YM-74	0.0	0.0	0.0	19.1	39.1	0.0	0.005	0.005
99982.5	49463.8	4840.0	YM-74	0.0	0.0	0.0	39.1	59.1	0.0	0.002	0.002
99982.5	49463.8	4820.0	YM-74	0.0	0.0	0.0	59.1	79.1	0.0	0.002	0.002
99982.5	49463.8	4800.0	YM-74	0.0	0.0	0.0	79.1	99.1	0.0	0.007	0.007
99982.5	49463.8	4780.0	YM-74	0.0	0.0	0.0	99.1	119.1	0.0	0.002	0.002
99982.5	49463.8	4760.0	YM-74	0.0	0.0	0.0	119.1	139.1	0.0	0.002	0.002
99982.5	49463.8	4740.0	YM-74	0.0	0.0	0.0	139.1	159.1	0.0	0.001	0.001
99982.5	49463.8	4739.1	YM-74	0.0	0.0	0.0	159.1	160.0	0.0	0.002	0.002

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100096.1	49233.7	4880.3	YM-75	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100096.1	49233.7	4880.0	YM-75	0.0	0.0	0.0	0.0	0.3	0.0	0.003	0.003
100096.1	49233.7	4860.0	YM-75	0.0	0.0	0.0	0.3	20.3	0.0	0.002	0.002
100096.1	49233.7	4840.0	YM-75	0.0	0.0	0.0	20.3	40.3	0.0	0.002	0.002
100096.1	49233.7	4820.0	YM-75	0.0	0.0	0.0	40.3	60.3	0.0	0.004	0.004
100096.1	49233.7	4800.0	YM-75	0.0	0.0	0.0	60.3	80.3	0.0	0.015	0.015
100096.1	49233.7	4780.0	YM-75	0.0	0.0	0.0	80.3	100.3	0.0	0.023	0.023
100096.1	49233.7	4760.0	YM-75	0.0	0.0	0.0	100.3	120.3	0.0	0.047	0.047
100096.1	49233.7	4740.0	YM-75	0.0	0.0	0.0	120.3	140.3	0.0	0.052	0.052
100096.1	49233.7	4720.0	YM-75	0.0	0.0	0.0	140.3	160.3	0.0	0.102	0.102
100096.1	49233.7	4700.0	YM-75	0.0	0.0	0.0	160.3	180.3	0.0	0.029	0.029
100096.1	49233.7	4680.0	YM-75	0.0	0.0	0.0	180.3	200.3	0.0	0.021	0.021
100096.1	49233.7	4660.3	YM-75	0.0	0.0	0.0	200.3	220.0	0.0	0.003	0.003

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100116.0	49610.1	4989.5	YM-76	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100116.0	49610.1	4980.0	YM-76	0.0	0.0	0.0	0.0	9.5	0.0	0.012	0.012
100116.0	49610.1	4960.0	YM-76	0.0	0.0	0.0	9.5	29.5	0.0	0.010	0.010
100116.0	49610.1	4940.0	YM-76	0.0	0.0	0.0	29.5	49.5	0.0	0.017	0.017
100116.0	49610.1	4920.0	YM-76	0.0	0.0	0.0	49.5	69.5	0.0	0.010	0.010
100116.0	49610.1	4900.0	YM-76	0.0	0.0	0.0	69.5	89.5	0.0	0.012	0.028
100116.0	49610.1	4880.0	YM-76	0.0	0.0	0.0	89.5	109.5	0.0	0.039	0.039
100116.0	49610.1	4860.0	YM-76	0.0	0.0	0.0	109.5	129.5	0.0	0.009	0.009
100116.0	49610.1	4840.0	YM-76	0.0	0.0	0.0	129.5	149.5	0.0	0.009	0.009
100116.0	49610.1	4820.0	YM-76	0.0	0.0	0.0	149.5	169.5	0.0	0.005	0.005
100116.0	49610.1	4814.5	YM-76	0.0	0.0	0.0	169.5	175.0	0.0	0.004	0.004

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100175.7	49536.7	4982.1	YM-77	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100175.7	49536.7	4980.0	YM-77	0.0	0.0	0.0	0.0	2.1	0.0	0.004	0.004
100175.7	49536.7	4960.0	YM-77	0.0	0.0	0.0	2.1	22.1	0.0	0.012	0.012
100175.7	49536.7	4940.0	YM-77	0.0	0.0	0.0	22.1	42.1	0.0	0.010	0.010
100175.7	49536.7	4920.0	YM-77	0.0	0.0	0.0	42.1	62.1	0.0	0.004	0.004
100175.7	49536.7	4900.0	YM-77	0.0	0.0	0.0	62.1	82.1	0.0	0.011	0.011
100175.7	49536.7	4880.0	YM-77	0.0	0.0	0.0	82.1	102.1	0.0	0.024	0.024
100175.7	49536.7	4860.0	YM-77	0.0	0.0	0.0	102.1	122.1	0.0	0.025	0.040
100175.7	49536.7	4840.0	YM-77	0.0	0.0	0.0	122.1	142.1	0.0	0.045	0.045
100175.7	49536.7	4820.0	YM-77	0.0	0.0	0.0	142.1	162.1	0.0	0.060	0.060
100175.7	49536.7	4800.0	YM-77	0.0	0.0	0.0	162.1	182.1	0.0	0.036	0.036
100175.7	49536.7	4780.0	YM-77	0.0	0.0	0.0	182.1	202.1	0.0	0.003	0.003
100175.7	49536.7	4767.1	YM-77	0.0	0.0	0.0	202.1	215.0	0.0	0.001	0.001

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100309.6	49381.9	4985.8	YM-78	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100309.6	49381.9	4980.0	YM-78	0.0	0.0	0.0	0.0	5.8	0.0	0.008	0.008
100309.6	49381.9	4960.0	YM-78	0.0	0.0	0.0	5.8	25.8	0.0	0.010	0.010
100309.6	49381.9	4940.0	YM-78	0.0	0.0	0.0	25.8	45.8	0.0	0.010	0.010
100309.6	49381.9	4920.0	YM-78	0.0	0.0	0.0	45.8	65.8	0.0	0.003	0.003
100309.6	49381.9	4900.0	YM-78	0.0	0.0	0.0	65.8	85.8	0.0	0.003	0.003
100309.6	49381.9	4880.0	YM-78	0.0	0.0	0.0	85.8	105.8	0.0	0.005	0.005
100309.6	49381.9	4860.0	YM-78	0.0	0.0	0.0	105.8	125.8	0.0	0.006	0.006
100309.6	49381.9	4840.0	YM-78	0.0	0.0	0.0	125.8	145.8	0.0	0.016	0.016
100309.6	49381.9	4820.0	YM-78	0.0	0.0	0.0	145.8	165.8	0.0	0.010	0.010
100309.6	49381.9	4800.0	YM-78	0.0	0.0	0.0	165.8	185.8	0.0	0.010	0.010
100309.6	49381.9	4780.0	YM-78	0.0	0.0	0.0	185.8	205.8	0.0	0.007	0.007
100309.6	49381.9	4760.0	YM-78	0.0	0.0	0.0	205.8	225.8	0.0	0.039	0.039
100309.6	49381.9	4740.0	YM-78	0.0	0.0	0.0	225.8	245.8	0.0	0.061	0.061
100309.6	49381.9	4720.0	YM-78	0.0	0.0	0.0	245.8	265.8	0.0	0.080	0.080
100309.6	49381.9	4700.0	YM-78	0.0	0.0	0.0	265.8	285.8	0.0	0.022	0.022
100309.6	49381.9	4680.0	YM-78	0.0	0.0	0.0	285.8	305.8	0.0	0.008	0.008
100309.6	49381.9	4660.0	YM-78	0.0	0.0	0.0	305.8	325.8	0.0	0.006	0.006
100309.6	49381.9	4640.0	YM-78	0.0	0.0	0.0	325.8	345.8	0.0	0.014	0.014
100309.6	49381.9	4635.8	YM-78	0.0	0.0	0.0	345.8	350.0	0.0	0.014	0.014

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100327.0	49857.7	5076.2	YM-79	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100327.0	49857.7	5060.0	YM-79	0.0	0.0	0.0	0.0	16.2	0.0	0.015	0.015
100327.0	49857.7	5040.0	YM-79	0.0	0.0	0.0	16.2	36.2	0.0	0.007	0.007
100327.0	49857.7	5020.0	YM-79	0.0	0.0	0.0	36.2	56.2	0.0	0.019	0.019
100327.0	49857.7	5000.0	YM-79	0.0	0.0	0.0	56.2	76.2	0.0	0.029	0.029
100327.0	49857.7	4980.0	YM-79	0.0	0.0	0.0	76.2	96.2	0.0	0.022	0.022
100327.0	49857.7	4960.0	YM-79	0.0	0.0	0.0	96.2	116.2	0.0	0.019	0.019
100327.0	49857.7	4940.0	YM-79	0.0	0.0	0.0	116.2	136.2	0.0	0.027	0.027
100327.0	49857.7	4920.0	YM-79	0.0	0.0	0.0	136.2	156.2	0.0	0.076	0.076
100327.0	49857.7	4900.0	YM-79	0.0	0.0	0.0	156.2	176.2	0.0	0.018	0.018
100327.0	49857.7	4880.0	YM-79	0.0	0.0	0.0	176.2	196.2	0.0	0.005	0.005
100327.0	49857.7	4860.0	YM-79	0.0	0.0	0.0	196.2	216.2	0.0	0.002	0.002
100327.0	49857.7	4856.2	YM-79	0.0	0.0	0.0	216.2	220.0	0.0	0.000	0.000

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100475.4	49755.9	5067.1	YM-80	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100475.4	49755.9	5060.0	YM-80	0.0	0.0	0.0	0.0	7.1	0.0	0.000	0.002
100475.4	49755.9	5040.0	YM-80	0.0	0.0	0.0	7.1	27.1	0.0	0.006	0.005
100475.4	49755.9	5020.0	YM-80	0.0	0.0	0.0	27.1	47.1	0.0	0.012	0.012
100475.4	49755.9	5000.0	YM-80	0.0	0.0	0.0	47.1	67.1	0.0	0.006	0.006
100475.4	49755.9	4980.0	YM-80	0.0	0.0	0.0	67.1	87.1	0.0	0.006	0.006
100475.4	49755.9	4960.0	YM-80	0.0	0.0	0.0	87.1	107.1	0.0	0.006	0.006
100475.4	49755.9	4940.0	YM-80	0.0	0.0	0.0	107.1	127.1	0.0	0.004	0.004
100475.4	49755.9	4920.0	YM-80	0.0	0.0	0.0	127.1	147.1	0.0	0.009	0.009
100475.4	49755.9	4900.0	YM-80	0.0	0.0	0.0	147.1	167.1	0.0	0.028	0.028
100475.4	49755.9	4880.0	YM-80	0.0	0.0	0.0	167.1	187.1	0.0	0.025	0.025
100475.4	49755.9	4860.0	YM-80	0.0	0.0	0.0	187.1	207.1	0.0	0.012	0.012
100475.4	49755.9	4840.0	YM-80	0.0	0.0	0.0	207.1	227.1	0.0	0.029	0.029
100475.4	49755.9	4820.0	YM-80	0.0	0.0	0.0	227.1	247.1	0.0	0.022	0.022
100475.4	49755.9	4800.0	YM-80	0.0	0.0	0.0	247.1	267.1	0.0	0.050	0.050
100475.4	49755.9	4780.0	YM-80	0.0	0.0	0.0	267.1	287.1	0.0	0.034	0.034
100475.4	49755.9	4760.0	YM-80	0.0	0.0	0.0	287.1	307.1	0.0	0.004	0.004
100475.4	49755.9	4747.1	YM-80	0.0	0.0	0.0	307.1	320.0	0.0	0.013	0.013

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100165.3	49829.4	5067.4	YM-81	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100165.3	49829.4	5060.0	YM-81	0.0	0.0	0.0	0.0	7.4	0.0	0.019	0.019
100165.3	49829.4	5040.0	YM-81	0.0	0.0	0.0	7.4	27.4	0.0	0.019	0.019
100165.3	49829.4	5020.0	YM-81	0.0	0.0	0.0	27.4	47.4	0.0	0.011	0.011
100165.3	49829.4	5000.0	YM-81	0.0	0.0	0.0	47.4	67.4	0.0	0.032	0.032
100165.3	49829.4	4980.0	YM-81	0.0	0.0	0.0	67.4	87.4	0.0	0.082	0.082
100165.3	49829.4	4960.0	YM-81	0.0	0.0	0.0	87.4	107.4	0.0	0.008	0.008
100165.3	49829.4	4940.0	YM-81	0.0	0.0	0.0	107.4	127.4	0.0	0.003	0.003
100165.3	49829.4	4920.0	YM-81	0.0	0.0	0.0	127.4	147.4	0.0	0.003	0.003
100165.3	49829.4	4900.0	YM-81	0.0	0.0	0.0	147.4	167.4	0.0	0.003	0.003
100165.3	49829.4	4897.4	YM-81	0.0	0.0	0.0	167.4	170.0	0.0	0.005	0.005

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100217.1	49927.8	5091.9	YM-82	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100217.1	49927.8	5080.0	YM-82	0.0	0.0	0.0	0.0	11.9	0.0	0.021	0.021
100217.1	49927.8	5060.0	YM-82	0.0	0.0	0.0	11.9	31.9	0.0	0.011	0.011
100217.1	49927.8	5040.0	YM-82	0.0	0.0	0.0	31.9	51.9	0.0	0.021	0.021
100217.1	49927.8	5020.0	YM-82	0.0	0.0	0.0	51.9	71.9	0.0	0.046	0.046
100217.1	49927.8	5000.0	YM-82	0.0	0.0	0.0	71.9	91.9	0.0	0.078	0.078
100217.1	49927.8	4980.0	YM-82	0.0	0.0	0.0	91.9	111.9	0.0	0.013	0.013
100217.1	49927.8	4960.0	YM-82	0.0	0.0	0.0	111.9	131.9	0.0	0.004	0.004
100217.1	49927.8	4951.9	YM-82	0.0	0.0	0.0	131.9	140.0	0.0	0.002	0.002

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100419.1	49805.2	5072.6	YM-83	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100419.1	49805.2	5060.0	YM-83	0.0	0.0	0.0	0.0	12.6	0.0	0.014	0.014
100419.1	49805.2	5040.0	YM-83	0.0	0.0	0.0	12.6	32.6	0.0	0.006	0.006
100419.1	49805.2	5020.0	YM-83	0.0	0.0	0.0	32.6	52.6	0.0	0.036	0.036
100419.1	49805.2	5000.0	YM-83	0.0	0.0	0.0	52.6	72.6	0.0	0.007	0.007
100419.1	49805.2	4980.0	YM-83	0.0	0.0	0.0	72.6	92.6	0.0	0.016	0.016
100419.1	49805.2	4960.0	YM-83	0.0	0.0	0.0	92.6	112.6	0.0	0.005	0.005
100419.1	49805.2	4940.0	YM-83	0.0	0.0	0.0	112.6	132.6	0.0	0.014	0.014
100419.1	49805.2	4920.0	YM-83	0.0	0.0	0.0	132.6	152.6	0.0	0.058	0.058
100419.1	49805.2	4900.0	YM-83	0.0	0.0	0.0	152.6	172.6	0.0	0.017	0.017
100419.1	49805.2	4880.0	YM-83	0.0	0.0	0.0	172.6	192.6	0.0	0.039	0.039
100419.1	49805.2	4860.0	YM-83	0.0	0.0	0.0	192.6	212.6	0.0	0.069	0.060
100419.1	49805.2	4840.0	YM-83	0.0	0.0	0.0	212.6	232.6	0.0	0.025	0.037
100419.1	49805.2	4820.0	YM-83	0.0	0.0	0.0	232.6	252.6	0.0	0.014	0.014
100419.1	49805.2	4800.0	YM-83	0.0	0.0	0.0	252.6	272.6	0.0	0.002	0.002
100419.1	49805.2	4787.6	YM-83	0.0	0.0	0.0	272.6	285.0	0.0	0.002	0.001

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100449.6	49950.0	5051.8	YM-84	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100449.6	49950.0	5040.0	YM-84	0.0	0.0	0.0	0.0	11.8	0.0	0.013	0.013
100449.6	49950.0	5020.0	YM-84	0.0	0.0	0.0	11.8	31.8	0.0	0.018	0.018
100449.6	49950.0	5000.0	YM-84	0.0	0.0	0.0	31.8	51.8	0.0	0.014	0.014
100449.6	49950.0	4980.0	YM-84	0.0	0.0	0.0	51.8	71.8	0.0	0.017	0.017
100449.6	49950.0	4960.0	YM-84	0.0	0.0	0.0	71.8	91.8	0.0	0.019	0.019
100449.6	49950.0	4940.0	YM-84	0.0	0.0	0.0	91.8	111.8	0.0	0.013	0.013
100449.6	49950.0	4920.0	YM-84	0.0	0.0	0.0	111.8	131.8	0.0	0.078	0.078
100449.6	49950.0	4900.0	YM-84	0.0	0.0	0.0	131.8	151.8	0.0	0.028	0.028
100449.6	49950.0	4880.0	YM-84	0.0	0.0	0.0	151.8	171.8	0.0	0.004	0.004
100449.6	49950.0	4860.0	YM-84	0.0	0.0	0.0	171.8	191.8	0.0	0.004	0.004
100449.6	49950.0	4851.8	YM-84	0.0	0.0	0.0	191.8	200.0	0.0	0.002	0.002

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100483.6	50401.7	4975.9	YM-85	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100483.6	50401.7	4960.0	YM-85	0.0	0.0	0.0	0.0	15.9	0.0	0.002	0.002
100483.6	50401.7	4940.0	YM-85	0.0	0.0	0.0	15.9	35.9	0.0	0.002	0.002
100483.6	50401.7	4920.0	YM-85	0.0	0.0	0.0	35.9	55.9	0.0	0.002	0.002
100483.6	50401.7	4900.0	YM-85	0.0	0.0	0.0	55.9	75.9	0.0	0.002	0.002
100483.6	50401.7	4880.0	YM-85	0.0	0.0	0.0	75.9	95.9	0.0	0.001	0.001
100483.6	50401.7	4875.9	YM-85	0.0	0.0	0.0	95.9	100.0	0.0	0.002	0.002

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100636.9	50574.2	5010.2	YM-86	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100636.9	50574.2	5000.0	YM-86	0.0	0.0	0.0	0.0	10.2	0.0	0.006	0.006
100636.9	50574.2	4980.0	YM-86	0.0	0.0	0.0	10.2	30.2	0.0	0.003	0.003
100636.9	50574.2	4960.0	YM-86	0.0	0.0	0.0	30.2	50.2	0.0	0.005	0.004
100636.9	50574.2	4940.0	YM-86	0.0	0.0	0.0	50.2	70.2	0.0	0.013	0.013
100636.9	50574.2	4920.0	YM-86	0.0	0.0	0.0	70.2	90.2	0.0	0.007	0.007
100636.9	50574.2	4900.0	YM-86	0.0	0.0	0.0	90.2	110.2	0.0	0.005	0.005
100636.9	50574.2	4880.0	YM-86	0.0	0.0	0.0	110.2	130.2	0.0	0.001	0.001
100636.9	50574.2	4860.0	YM-86	0.0	0.0	0.0	130.2	150.2	0.0	0.005	0.004
100636.9	50574.2	4855.2	YM-86	0.0	0.0	0.0	150.2	155.0	0.0	0.013	0.013

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100477.2	49270.8	4977.5	YM-87	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100477.2	49270.8	4960.0	YM-87	0.0	0.0	0.0	0.0	17.5	0.0	0.014	0.014
100477.2	49270.8	4940.0	YM-87	0.0	0.0	0.0	17.5	37.5	0.0	0.009	0.009
100477.2	49270.8	4920.0	YM-87	0.0	0.0	0.0	37.5	57.5	0.0	0.002	0.002
100477.2	49270.8	4900.0	YM-87	0.0	0.0	0.0	57.5	77.5	0.0	0.002	0.002
100477.2	49270.8	4880.0	YM-87	0.0	0.0	0.0	77.5	97.5	0.0	0.002	0.002
100477.2	49270.8	4860.0	YM-87	0.0	0.0	0.0	97.5	117.5	0.0	0.006	0.005
100477.2	49270.8	4840.0	YM-87	0.0	0.0	0.0	117.5	137.5	0.0	0.001	0.001
100477.2	49270.8	4820.0	YM-87	0.0	0.0	0.0	137.5	157.5	0.0	0.002	0.001
100477.2	49270.8	4800.0	YM-87	0.0	0.0	0.0	157.5	177.5	0.0	0.006	0.006
100477.2	49270.8	4780.0	YM-87	0.0	0.0	0.0	177.5	197.5	0.0	0.006	0.006
100477.2	49270.8	4760.0	YM-87	0.0	0.0	0.0	197.5	217.5	0.0	0.002	0.002
100477.2	49270.8	4740.0	YM-87	0.0	0.0	0.0	217.5	237.5	0.0	0.002	0.002
100477.2	49270.8	4720.0	YM-87	0.0	0.0	0.0	237.5	257.5	0.0	0.006	0.006
100477.2	49270.8	4700.0	YM-87	0.0	0.0	0.0	257.5	277.5	0.0	0.012	0.012
100477.2	49270.8	4680.0	YM-87	0.0	0.0	0.0	277.5	297.5	0.0	0.040	0.040
100477.2	49270.8	4660.0	YM-87	0.0	0.0	0.0	297.5	317.5	0.0	0.021	0.021
100477.2	49270.8	4640.0	YM-87	0.0	0.0	0.0	317.5	337.5	0.0	0.008	0.008
100477.2	49270.8	4620.0	YM-87	0.0	0.0	0.0	337.5	357.5	0.0	0.028	0.028
100477.2	49270.8	4600.0	YM-87	0.0	0.0	0.0	357.5	377.5	0.0	0.024	0.024
100477.2	49270.8	4597.5	YM-87	0.0	0.0	0.0	377.5	380.0	0.0	0.011	0.011

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100365.6	49438.8	5012.3	YM-88	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100365.6	49438.8	5000.0	YM-88	0.0	0.0	0.0	0.0	12.3	0.0	0.005	0.005
100365.6	49438.8	4980.0	YM-88	0.0	0.0	0.0	12.3	32.3	0.0	0.016	0.016
100365.6	49438.8	4960.0	YM-88	0.0	0.0	0.0	32.3	52.3	0.0	0.005	0.005
100365.6	49438.8	4940.0	YM-88	0.0	0.0	0.0	52.3	72.3	0.0	0.010	0.009
100365.6	49438.8	4920.0	YM-88	0.0	0.0	0.0	72.3	92.3	0.0	0.010	0.010
100365.6	49438.8	4900.0	YM-88	0.0	0.0	0.0	92.3	112.3	0.0	0.005	0.005
100365.6	49438.8	4880.0	YM-88	0.0	0.0	0.0	112.3	132.3	0.0	0.004	0.004
100365.6	49438.8	4860.0	YM-88	0.0	0.0	0.0	132.3	152.3	0.0	0.002	0.002
100365.6	49438.8	4840.0	YM-88	0.0	0.0	0.0	152.3	172.3	0.0	0.003	0.003
100365.6	49438.8	4820.0	YM-88	0.0	0.0	0.0	172.3	192.3	0.0	0.034	0.034
100365.6	49438.8	4800.0	YM-88	0.0	0.0	0.0	192.3	212.3	0.0	0.014	0.011
100365.6	49438.8	4780.0	YM-88	0.0	0.0	0.0	212.3	232.3	0.0	0.014	0.014
100365.6	49438.8	4760.0	YM-88	0.0	0.0	0.0	232.3	252.3	0.0	0.024	0.024
100365.6	49438.8	4740.0	YM-88	0.0	0.0	0.0	252.3	272.3	0.0	0.044	0.044
100365.6	49438.8	4720.0	YM-88	0.0	0.0	0.0	272.3	292.3	0.0	0.093	0.105
100365.6	49438.8	4700.0	YM-88	0.0	0.0	0.0	292.3	312.3	0.0	0.012	0.012
100365.6	49438.8	4680.0	YM-88	0.0	0.0	0.0	312.3	332.3	0.0	0.029	0.029
100365.6	49438.8	4660.0	YM-88	0.0	0.0	0.0	332.3	352.3	0.0	0.019	0.019
100365.6	49438.8	4640.0	YM-88	0.0	0.0	0.0	352.3	372.3	0.0	0.004	0.004
100365.6	49438.8	4620.0	YM-88	0.0	0.0	0.0	372.3	392.3	0.0	0.009	0.009
100365.6	49438.8	4612.3	YM-88	0.0	0.0	0.0	392.3	400.0	0.0	0.013	0.013

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100332.0	49532.8	5016.6	YM-89	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100332.0	49532.8	5000.0	YM-89	0.0	0.0	0.0	0.0	16.6	0.0	0.003	0.003
100332.0	49532.8	4980.0	YM-89	0.0	0.0	0.0	16.6	36.6	0.0	0.004	0.004
100332.0	49532.8	4960.0	YM-89	0.0	0.0	0.0	36.6	56.6	0.0	0.011	0.011
100332.0	49532.8	4940.0	YM-89	0.0	0.0	0.0	56.6	76.6	0.0	0.009	0.009
100332.0	49532.8	4920.0	YM-89	0.0	0.0	0.0	76.6	96.6	0.0	0.006	0.006
100332.0	49532.8	4900.0	YM-89	0.0	0.0	0.0	96.6	116.6	0.0	0.013	0.013
100332.0	49532.8	4880.0	YM-89	0.0	0.0	0.0	116.6	136.6	0.0	0.012	0.012
100332.0	49532.8	4860.0	YM-89	0.0	0.0	0.0	136.6	156.6	0.0	0.006	0.006
100332.0	49532.8	4840.0	YM-89	0.0	0.0	0.0	156.6	176.6	0.0	0.014	0.014
100332.0	49532.8	4820.0	YM-89	0.0	0.0	0.0	176.6	196.6	0.0	0.041	0.041
100332.0	49532.8	4800.0	YM-89	0.0	0.0	0.0	196.6	216.6	0.0	0.020	0.020
100332.0	49532.8	4780.0	YM-89	0.0	0.0	0.0	216.6	236.6	0.0	0.022	0.022
100332.0	49532.8	4760.0	YM-89	0.0	0.0	0.0	236.6	256.6	0.0	0.079	0.079
100332.0	49532.8	4740.0	YM-89	0.0	0.0	0.0	256.6	276.6	0.0	0.071	0.071
100332.0	49532.8	4720.0	YM-89	0.0	0.0	0.0	276.6	296.6	0.0	0.007	0.007
100332.0	49532.8	4700.0	YM-89	0.0	0.0	0.0	296.6	316.6	0.0	0.021	0.021
100332.0	49532.8	4680.0	YM-89	0.0	0.0	0.0	316.6	336.6	0.0	0.015	0.015
100332.0	49532.8	4660.0	YM-89	0.0	0.0	0.0	336.6	356.6	0.0	0.010	0.010
100332.0	49532.8	4640.0	YM-89	0.0	0.0	0.0	356.6	376.6	0.0	0.007	0.007
100332.0	49532.8	4626.6	YM-89	0.0	0.0	0.0	376.6	390.0	0.0	0.004	0.004

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100292.0	49620.8	5027.0	YM-90	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100292.0	49620.8	5020.0	YM-90	0.0	0.0	0.0	0.0	7.0	0.0	0.007	0.007
100292.0	49620.8	5000.0	YM-90	0.0	0.0	0.0	7.0	27.0	0.0	0.017	0.017
100292.0	49620.8	4980.0	YM-90	0.0	0.0	0.0	27.0	47.0	0.0	0.013	0.013
100292.0	49620.8	4960.0	YM-90	0.0	0.0	0.0	47.0	67.0	0.0	0.019	0.019
100292.0	49620.8	4940.0	YM-90	0.0	0.0	0.0	67.0	87.0	0.0	0.011	0.011
100292.0	49620.8	4920.0	YM-90	0.0	0.0	0.0	87.0	107.0	0.0	0.003	0.003
100292.0	49620.8	4900.0	YM-90	0.0	0.0	0.0	107.0	127.0	0.0	0.012	0.012
100292.0	49620.8	4880.0	YM-90	0.0	0.0	0.0	127.0	147.0	0.0	0.024	0.024
100292.0	49620.8	4860.0	YM-90	0.0	0.0	0.0	147.0	167.0	0.0	0.035	0.035
100292.0	49620.8	4840.0	YM-90	0.0	0.0	0.0	167.0	187.0	0.0	0.051	0.051
100292.0	49620.8	4820.0	YM-90	0.0	0.0	0.0	187.0	207.0	0.0	0.141	0.141
100292.0	49620.8	4800.0	YM-90	0.0	0.0	0.0	207.0	227.0	0.0	0.039	0.039
100292.0	49620.8	4780.0	YM-90	0.0	0.0	0.0	227.0	247.0	0.0	0.020	0.020
100292.0	49620.8	4760.0	YM-90	0.0	0.0	0.0	247.0	267.0	0.0	0.010	0.007
100292.0	49620.8	4740.0	YM-90	0.0	0.0	0.0	267.0	287.0	0.0	0.006	0.006
100292.0	49620.8	4720.0	YM-90	0.0	0.0	0.0	287.0	307.0	0.0	0.007	0.007
100292.0	49620.8	4707.0	YM-90	0.0	0.0	0.0	307.0	320.0	0.0	0.002	0.002

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100257.2	49559.2	5003.3	YM-91	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100257.2	49559.2	5000.0	YM-91	0.0	0.0	0.0	0.0	3.3	0.0	0.005	0.005
100257.2	49559.2	4980.0	YM-91	0.0	0.0	0.0	3.3	23.3	0.0	0.015	0.015
100257.2	49559.2	4960.0	YM-91	0.0	0.0	0.0	23.3	43.3	0.0	0.006	0.006
100257.2	49559.2	4940.0	YM-91	0.0	0.0	0.0	43.3	63.3	0.0	0.004	0.004
100257.2	49559.2	4920.0	YM-91	0.0	0.0	0.0	63.3	83.3	0.0	0.014	0.014
100257.2	49559.2	4900.0	YM-91	0.0	0.0	0.0	83.3	103.3	0.0	0.012	0.025
100257.2	49559.2	4880.0	YM-91	0.0	0.0	0.0	103.3	123.3	0.0	0.004	0.051
100257.2	49559.2	4860.0	YM-91	0.0	0.0	0.0	123.3	143.3	0.0	0.016	0.051
100257.2	49559.2	4853.3	YM-91	0.0	0.0	0.0	143.3	150.0	0.0	0.011	0.051

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100040.8	49620.6	4984.9	YM-92	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100040.8	49620.6	4980.0	YM-92	0.0	0.0	0.0	0.0	4.9	0.0	0.005	0.005
100040.8	49620.6	4960.0	YM-92	0.0	0.0	0.0	4.9	24.9	0.0	0.007	0.007
100040.8	49620.6	4940.0	YM-92	0.0	0.0	0.0	24.9	44.9	0.0	0.044	0.044
100040.8	49620.6	4920.0	YM-92	0.0	0.0	0.0	44.9	64.9	0.0	0.034	0.034
100040.8	49620.6	4900.0	YM-92	0.0	0.0	0.0	64.9	84.9	0.0	0.005	0.005
100040.8	49620.6	4880.0	YM-92	0.0	0.0	0.0	84.9	104.9	0.0	0.004	0.004
100040.8	49620.6	4860.0	YM-92	0.0	0.0	0.0	104.9	124.9	0.0	0.005	0.005
100040.8	49620.6	4840.0	YM-92	0.0	0.0	0.0	124.9	144.9	0.0	0.004	0.004
100040.8	49620.6	4824.9	YM-92	0.0	0.0	0.0	144.9	160.0	0.0	0.006	0.006

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
99929.2	49309.7	4855.0	YM-93	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
99929.2	49309.7	4840.0	YM-93	0.0	0.0	0.0	0.0	15.0	0.0	0.030	0.030
99929.2	49309.7	4820.0	YM-93	0.0	0.0	0.0	15.0	35.0	0.0	0.052	0.052
99929.2	49309.7	4800.0	YM-93	0.0	0.0	0.0	35.0	55.0	0.0	0.007	0.007
99929.2	49309.7	4780.0	YM-93	0.0	0.0	0.0	55.0	75.0	0.0	0.004	0.004
99929.2	49309.7	4760.0	YM-93	0.0	0.0	0.0	75.0	95.0	0.0	0.002	0.002
99929.2	49309.7	4755.0	YM-93	0.0	0.0	0.0	95.0	100.0	0.0	0.005	0.005

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100137.6	49436.6	4939.9	YM-94	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100137.6	49436.6	4920.0	YM-94	0.0	0.0	0.0	0.0	19.9	0.0	0.008	0.008
100137.6	49436.6	4900.0	YM-94	0.0	0.0	0.0	19.9	39.9	0.0	0.004	0.004
100137.6	49436.6	4880.0	YM-94	0.0	0.0	0.0	39.9	59.9	0.0	0.006	0.006
100137.6	49436.6	4860.0	YM-94	0.0	0.0	0.0	59.9	79.9	0.0	0.009	0.009
100137.6	49436.6	4840.0	YM-94	0.0	0.0	0.0	79.9	99.9	0.0	0.006	0.006
100137.6	49436.6	4820.0	YM-94	0.0	0.0	0.0	99.9	119.9	0.0	0.079	0.079
100137.6	49436.6	4800.0	YM-94	0.0	0.0	0.0	119.9	139.9	0.0	0.115	0.115
100137.6	49436.6	4780.0	YM-94	0.0	0.0	0.0	139.9	159.9	0.0	0.016	0.016
100137.6	49436.6	4760.0	YM-94	0.0	0.0	0.0	159.9	179.9	0.0	0.008	0.008
100137.6	49436.6	4744.9	YM-94	0.0	0.0	0.0	179.9	195.0	0.0	0.022	0.022

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100526.5	48764.8	4822.1	YM-95	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100526.5	48764.8	4820.0	YM-95	0.0	0.0	0.0	0.0	2.1	0.0	0.005	0.005
100526.5	48764.8	4800.0	YM-95	0.0	0.0	0.0	2.1	22.1	0.0	0.003	0.003
100526.5	48764.8	4780.0	YM-95	0.0	0.0	0.0	22.1	42.1	0.0	0.002	0.002
100526.5	48764.8	4760.0	YM-95	0.0	0.0	0.0	42.1	62.1	0.0	0.002	0.002
100526.5	48764.8	4740.0	YM-95	0.0	0.0	0.0	62.1	82.1	0.0	0.002	0.002
100526.5	48764.8	4720.0	YM-95	0.0	0.0	0.0	82.1	102.1	0.0	0.002	0.002
100526.5	48764.8	4700.0	YM-95	0.0	0.0	0.0	102.1	122.1	0.0	0.002	0.002
100526.5	48764.8	4680.0	YM-95	0.0	0.0	0.0	122.1	142.1	0.0	0.002	0.002
100526.5	48764.8	4660.0	YM-95	0.0	0.0	0.0	142.1	162.1	0.0	0.002	0.002
100526.5	48764.8	4640.0	YM-95	0.0	0.0	0.0	162.1	182.1	0.0	0.003	0.003
100526.5	48764.8	4620.0	YM-95	0.0	0.0	0.0	182.1	202.1	0.0	0.002	0.002
100526.5	48764.8	4600.0	YM-95	0.0	0.0	0.0	202.1	222.1	0.0	0.004	0.004
100526.5	48764.8	4580.0	YM-95	0.0	0.0	0.0	222.1	242.1	0.0	0.005	0.005
100526.5	48764.8	4560.0	YM-95	0.0	0.0	0.0	242.1	262.1	0.0	0.003	0.003
100526.5	48764.8	4540.0	YM-95	0.0	0.0	0.0	262.1	282.1	0.0	0.003	0.003
100526.5	48764.8	4520.0	YM-95	0.0	0.0	0.0	282.1	302.1	0.0	0.004	0.004
100526.5	48764.8	4500.0	YM-95	0.0	0.0	0.0	302.1	322.1	0.0	0.003	0.003
100526.5	48764.8	4480.0	YM-95	0.0	0.0	0.0	322.1	342.1	0.0	0.003	0.003
100526.5	48764.8	4460.0	YM-95	0.0	0.0	0.0	342.1	362.1	0.0	0.006	0.006
100526.5	48764.8	4440.0	YM-95	0.0	0.0	0.0	362.1	382.1	0.0	0.006	0.006
100526.5	48764.8	4420.0	YM-95	0.0	0.0	0.0	382.1	402.1	0.0	0.009	0.009
100526.5	48764.8	4402.1	YM-95	0.0	0.0	0.0	402.1	420.0	0.0	0.002	0.002

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
101187.1	49017.0	4846.3	YM-96	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
101187.1	49017.0	4840.0	YM-96	0.0	0.0	0.0	0.0	6.3	0.0	0.003	0.003
101187.1	49017.0	4820.0	YM-96	0.0	0.0	0.0	6.3	26.3	0.0	0.001	0.001
101187.1	49017.0	4800.0	YM-96	0.0	0.0	0.0	26.3	46.3	0.0	0.001	0.001
101187.1	49017.0	4780.0	YM-96	0.0	0.0	0.0	46.3	66.3	0.0	0.002	0.002
101187.1	49017.0	4760.0	YM-96	0.0	0.0	0.0	66.3	86.3	0.0	0.001	0.001
101187.1	49017.0	4740.0	YM-96	0.0	0.0	0.0	86.3	106.3	0.0	0.002	0.002
101187.1	49017.0	4720.0	YM-96	0.0	0.0	0.0	106.3	126.3	0.0	0.002	0.002
101187.1	49017.0	4700.0	YM-96	0.0	0.0	0.0	126.3	146.3	0.0	0.002	0.002
101187.1	49017.0	4680.0	YM-96	0.0	0.0	0.0	146.3	166.3	0.0	0.001	0.001
101187.1	49017.0	4660.0	YM-96	0.0	0.0	0.0	166.3	186.3	0.0	0.001	0.001
101187.1	49017.0	4640.0	YM-96	0.0	0.0	0.0	186.3	206.3	0.0	0.002	0.002
101187.1	49017.0	4620.0	YM-96	0.0	0.0	0.0	206.3	226.3	0.0	0.003	0.003
101187.1	49017.0	4600.0	YM-96	0.0	0.0	0.0	226.3	246.3	0.0	0.001	0.001
101187.1	49017.0	4580.0	YM-96	0.0	0.0	0.0	246.3	266.3	0.0	0.002	0.002
101187.1	49017.0	4560.0	YM-96	0.0	0.0	0.0	266.3	286.3	0.0	0.001	0.001
101187.1	49017.0	4540.0	YM-96	0.0	0.0	0.0	286.3	306.3	0.0	0.001	0.001
101187.1	49017.0	4520.0	YM-96	0.0	0.0	0.0	306.3	326.3	0.0	0.001	0.001
101187.1	49017.0	4500.0	YM-96	0.0	0.0	0.0	326.3	346.3	0.0	0.002	0.002
101187.1	49017.0	4480.0	YM-96	0.0	0.0	0.0	346.3	366.3	0.0	0.001	0.001
101187.1	49017.0	4460.0	YM-96	0.0	0.0	0.0	366.3	386.3	0.0	0.001	0.001
101187.1	49017.0	4440.0	YM-96	0.0	0.0	0.0	386.3	406.3	0.0	0.002	0.002
101187.1	49017.0	4420.0	YM-96	0.0	0.0	0.0	406.3	426.3	0.0	0.003	0.003
101187.1	49017.0	4400.0	YM-96	0.0	0.0	0.0	426.3	446.3	0.0	0.002	0.002
101187.1	49017.0	4380.0	YM-96	0.0	0.0	0.0	446.3	466.3	0.0	0.001	0.001
101187.1	49017.0	4360.0	YM-96	0.0	0.0	0.0	466.3	486.3	0.0	0.002	0.002
101187.1	49017.0	4340.0	YM-96	0.0	0.0	0.0	486.3	506.3	0.0	0.004	0.004
101187.1	49017.0	4320.0	YM-96	0.0	0.0	0.0	506.3	526.3	0.0	0.006	0.006
101187.1	49017.0	4300.0	YM-96	0.0	0.0	0.0	526.3	546.3	0.0	0.007	0.007
101187.1	49017.0	4280.0	YM-96	0.0	0.0	0.0	546.3	566.3	0.0	0.012	0.012
101187.1	49017.0	4271.3	YM-96	0.0	0.0	0.0	566.3	575.0	0.0	0.037	0.037

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100001.1	49947.7	5109.0	0E	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100001.1	49947.7	5100.0	0E	0.0	0.0	0.0	0.0	9.0	0.0	0.021	0.021
100001.1	49947.7	5099.0	0E	0.0	0.0	0.0	9.0	10.0	0.0	0.028	0.028

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100007.3	49959.0	5110.0	10E	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100007.3	49959.0	5100.0	10E	0.0	0.0	0.0	0.0	10.0	0.0	0.134	0.134
100007.3	49959.0	5097.0	10E	0.0	0.0	0.0	10.0	13.0	0.0	0.010	0.010

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100013.4	49967.4	5106.0	20E	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100013.4	49967.4	5100.0	20E	0.0	0.0	0.0	0.0	6.0	0.0	0.027	0.027
100013.4	49967.4	5096.0	20E	0.0	0.0	0.0	6.0	10.0	0.0	0.031	0.031

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100020.4	49974.0	5113.0	30E	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100020.4	49974.0	5100.0	30E	0.0	0.0	0.0	0.0	13.0	0.0	0.020	0.020
100020.4	49974.0	5093.0	30E	0.0	0.0	0.0	13.0	20.0	0.0	0.048	0.048

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100024.6	49980.5	5112.0	40E	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100024.6	49980.5	5100.0	40E	0.0	0.0	0.0	0.0	12.0	0.0	0.014	0.014
100024.6	49980.5	5092.0	40E	0.0	0.0	0.0	12.0	20.0	0.0	0.030	0.030

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100032.5	49990.1	5111.0	50E	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100032.5	49990.1	5100.0	50E	0.0	0.0	0.0	0.0	11.0	0.0	0.054	0.054
100032.5	49990.1	5091.0	50E	0.0	0.0	0.0	11.0	20.0	0.0	0.042	0.042

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100043.5	49996.5	5111.0	60E	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100043.5	49996.5	5100.0	60E	0.0	0.0	0.0	0.0	11.0	0.0	0.043	0.043
100043.5	49996.5	5091.0	60E	0.0	0.0	0.0	11.0	20.0	0.0	0.038	0.038

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100043.5	49996.6	5112.0	70E	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100043.5	49996.6	5100.0	70E	0.0	0.0	0.0	0.0	12.0	0.0	0.022	0.022
100043.5	49996.6	5092.0	70E	0.0	0.0	0.0	12.0	20.0	0.0	0.184	0.184

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100059.6	50004.9	5111.0	80E	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100059.6	50004.9	5100.0	80E	0.0	0.0	0.0	0.0	11.0	0.0	0.021	0.021
100059.6	50004.9	5091.0	80E	0.0	0.0	0.0	11.0	20.0	0.0	0.044	0.044

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100067.0	50010.8	5113.0	90E	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100067.0	50010.8	5100.0	90E	0.0	0.0	0.0	0.0	13.0	0.0	0.054	0.054
100067.0	50010.8	5090.0	90E	0.0	0.0	0.0	13.0	23.0	0.0	0.099	0.099

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100073.4	50017.9	5107.0	100E	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100073.4	50017.9	5100.0	100E	0.0	0.0	0.0	0.0	7.0	0.0	0.024	0.024
100073.4	50017.9	5087.0	100E	0.0	0.0	0.0	7.0	20.0	0.0	0.019	0.019

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100079.8	50025.4	5109.0	110E	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100079.8	50025.4	5100.0	110E	0.0	0.0	0.0	0.0	9.0	0.0	0.129	0.129
100079.8	50025.4	5084.0	110E	0.0	0.0	0.0	9.0	25.0	0.0	0.051	0.051

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100086.3	50033.6	5115.0	120E	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100086.3	50033.6	5100.0	120E	0.0	0.0	0.0	0.0	15.0	0.0	0.105	0.105
100086.3	50033.6	5080.0	120E	0.0	0.0	0.0	15.0	35.0	0.0	0.054	0.054

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100091.9	50043.7	5113.0	130E	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100091.9	50043.7	5100.0	130E	0.0	0.0	0.0	0.0	13.0	0.0	0.063	0.063
100091.9	50043.7	5080.0	130E	0.0	0.0	0.0	13.0	33.0	0.0	0.095	0.095
100091.9	50043.7	5078.0	130E	0.0	0.0	0.0	33.0	35.0	0.0	0.026	0.026

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100097.2	50053.0	5103.0	140E	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100097.2	50053.0	5100.0	140E	0.0	0.0	0.0	0.0	3.0	0.0	0.019	0.019
100097.2	50053.0	5080.0	140E	0.0	0.0	0.0	3.0	23.0	0.0	0.036	0.036
100097.2	50053.0	5078.0	140E	0.0	0.0	0.0	23.0	25.0	0.0	0.008	0.008

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100102.8	50060.5	5102.0	150E	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100102.8	50060.5	5100.0	150E	0.0	0.0	0.0	0.0	2.0	0.0	0.063	0.063
100102.8	50060.5	5080.0	150E	0.0	0.0	0.0	2.0	22.0	0.0	0.018	0.018
100102.8	50060.5	5077.0	150E	0.0	0.0	0.0	22.0	25.0	0.0	0.030	0.030

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100109.5	50066.3	5105.0	160E	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100109.5	50066.3	5100.0	160E	0.0	0.0	0.0	0.0	5.0	0.0	0.028	0.028
100109.5	50066.3	5080.0	160E	0.0	0.0	0.0	5.0	25.0	0.0	0.032	0.032
100109.5	50066.3	5076.0	160E	0.0	0.0	0.0	25.0	29.0	0.0	0.050	0.050

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100117.4	50072.6	5104.0	170E	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100117.4	50072.6	5100.0	170E	0.0	0.0	0.0	0.0	4.0	0.0	0.010	0.010
100117.4	50072.6	5080.0	170E	0.0	0.0	0.0	4.0	24.0	0.0	0.031	0.031
100117.4	50072.6	5074.0	170E	0.0	0.0	0.0	24.0	30.0	0.0	0.010	0.010

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100123.3	50084.8	5106.0	180E	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100123.3	50084.8	5100.0	180E	0.0	0.0	0.0	0.0	6.0	0.0	0.047	0.047
100123.3	50084.8	5081.0	180E	0.0	0.0	0.0	6.0	25.0	0.0	0.070	0.070

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100123.3	50084.8	5093.0	190E	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100123.3	50084.8	5080.0	190E	0.0	0.0	0.0	0.0	13.0	0.0	0.012	0.012
100123.3	50084.8	5078.0	190E	0.0	0.0	0.0	13.0	15.0	0.0	0.005	0.005

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100143.3	50098.3	5094.0	200E	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100143.3	50098.3	5080.0	200E	0.0	0.0	0.0	0.0	14.0	0.0	0.011	0.011
100143.3	50098.3	5074.0	200E	0.0	0.0	0.0	14.0	20.0	0.0	0.046	0.046

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100154.5	50101.6	5092.0	210E	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100154.5	50101.6	5080.0	210E	0.0	0.0	0.0	0.0	12.0	0.0	0.344	0.344
100154.5	50101.6	5072.0	210E	0.0	0.0	0.0	12.0	20.0	0.0	0.211	0.211

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100164.1	50106.5	5087.0	220E	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100164.1	50106.5	5080.0	220E	0.0	0.0	0.0	0.0	7.0	0.0	0.095	0.095
100164.1	50106.5	5072.0	220E	0.0	0.0	0.0	7.0	15.0	0.0	0.076	0.076

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100172.8	50111.9	5086.0	230E	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100172.8	50111.9	5080.0	230E	0.0	0.0	0.0	0.0	6.0	0.0	0.010	0.010
100172.8	50111.9	5073.0	230E	0.0	0.0	0.0	6.0	13.0	0.0	0.033	0.033

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100180.2	50114.6	5090.0	240E	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100180.2	50114.6	5080.0	240E	0.0	0.0	0.0	0.0	10.0	0.0	0.021	0.021
100180.2	50114.6	5071.0	240E	0.0	0.0	0.0	10.0	19.0	0.0	0.038	0.038

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100185.4	50120.1	5091.0	250E	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100185.4	50120.1	5080.0	250E	0.0	0.0	0.0	0.0	11.0	0.0	0.026	0.026
100185.4	50120.1	5071.0	250E	0.0	0.0	0.0	11.0	20.0	0.0	0.143	0.143

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100188.3	50126.3	5081.0	260E	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100188.3	50126.3	5080.0	260E	0.0	0.0	0.0	0.0	1.0	0.0	0.022	0.022
100188.3	50126.3	5071.0	260E	0.0	0.0	0.0	1.0	10.0	0.0	0.073	0.073

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100194.0	50136.7	5086.0	270E	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100194.0	50136.7	5080.0	270E	0.0	0.0	0.0	0.0	6.0	0.0	0.005	0.008
100194.0	50136.7	5071.0	270E	0.0	0.0	0.0	6.0	15.0	0.0	0.064	0.045

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100198.0	50143.5	5088.0	280E	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100198.0	50143.5	5080.0	280E	0.0	0.0	0.0	0.0	8.0	0.0	0.014	0.014
100198.0	50143.5	5070.0	280E	0.0	0.0	0.0	8.0	18.0	0.0	0.056	0.056

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100196.3	50166.4	5097.0	290E	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100196.3	50166.4	5082.0	290E	0.0	0.0	0.0	0.0	15.0	0.0	0.053	0.053

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100055.1	49956.8	5092.0	40W	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100055.1	49956.8	5089.0	40W	0.0	0.0	0.0	0.0	3.0	0.0	0.063	0.063

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100067.9	49971.1	5099.0	60W	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100067.9	49971.1	5091.0	60W	0.0	0.0	0.0	0.0	8.0	0.0	0.201	0.201

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100075.3	49977.4	5099.0	70W	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100075.3	49977.4	5091.0	70W	0.0	0.0	0.0	0.0	8.0	0.0	0.147	0.147

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100082.4	49981.3	5098.0	80W	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100082.4	49981.3	5090.0	80W	0.0	0.0	0.0	0.0	8.0	0.0	0.093	0.093

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100093.5	49984.8	5096.0	90W	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100093.5	49984.8	5088.0	90W	0.0	0.0	0.0	0.0	8.0	0.0	0.159	0.159

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100120.1	49998.7	5089.0	120W	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100120.1	49998.7	5084.0	120W	0.0	0.0	0.0	0.0	5.0	0.0	0.289	0.289

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100133.2	50018.6	5084.0	140W	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100133.2	50018.6	5080.0	140W	0.0	0.0	0.0	0.0	4.0	0.0	0.366	0.366
100133.2	50018.6	5079.0	140W	0.0	0.0	0.0	4.0	5.0	0.0	0.366	0.366

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100120.1	49998.7	5084.0	150W	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100120.1	49998.7	5080.0	150W	0.0	0.0	0.0	0.0	4.0	0.0	0.201	0.201
100120.1	49998.7	5078.0	150W	0.0	0.0	0.0	4.0	6.0	0.0	0.201	0.201

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100144.4	50029.8	5087.0	160W	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100144.4	50029.8	5080.0	160W	0.0	0.0	0.0	0.0	7.0	0.0	0.257	0.257
100144.4	50029.8	5077.0	160W	0.0	0.0	0.0	7.0	10.0	0.0	0.185	0.185

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100153.3	50036.3	5090.0	170W	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100153.3	50036.3	5080.0	170W	0.0	0.0	0.0	0.0	10.0	0.0	0.191	0.191
100153.3	50036.3	5075.0	170W	0.0	0.0	0.0	10.0	15.0	0.0	0.209	0.209

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100160.9	50039.8	5090.0	180W	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100160.9	50039.8	5080.0	180W	0.0	0.0	0.0	0.0	10.0	0.0	0.014	0.014
100160.9	50039.8	5075.0	180W	0.0	0.0	0.0	10.0	15.0	0.0	0.320	0.320

YARNELL PROJECT

Yavapai County, Arizona

DRILL HOLE COMPOSITES, 22-NOV-89 E.C.S.

NORTH	EAST	ELEV	ID	TD	AZ	VA	FROM	TO		old Au	New Au
100191.1	50042.2	5082.0	210W	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000
100191.1	50042.2	5080.0	210W	0.0	0.0	0.0	0.0	2.0	0.0	0.028	0.028
100191.1	50042.2	5076.0	210W	0.0	0.0	0.0	2.0	6.0	0.0	0.028	0.028

Lou: 11-27-89

Grade	Tons	Ave Grade
0 - .0099		
.01 - .01499		
.015 - .0199		
.02 - .0299		
.03 - .0399		
.04 - .0499		
.05 - .0599		
.06 - .0699		
.07 - .0799		
.08 →		

ASARCO

Exploration Department
R. L. Brown
Vice President

November 27, 1989

Mr. T. E. Scartaccini
Tucson Mining Department

RECEIVED
DEC 1 1989
EXPLORATION DEPARTMENT

Yarnell Project
Arizona

Dear Mr. Scartaccini:

I attach hereto a copy of Form 302-MB for the above captioned. Please note that this form has been approved by the Controllers Department and by Messrs. R. deJ. Osborne and T. C. Osborne.

Yours very truly,

R. L. Brown

R. L. Brown

RLB:mc
Att.

cc: S. L. Lakosky (w/att.)
T. Hinckson (w/att.)
W. L. Kurtz (w/att.)
C. L. Snow (w/att.)

cc: J.D. Sell (w/att.)
12/1/89

ASARCO Incorporated 180 Maiden Lane New York, N.Y. 10038 (212) 510-2000
Telex:RCA 232378 Cable: MINEDEPART

New York, N.Y., November 13, 1989

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NOV 14 1989
T.C. OSBORNE

MEMORANDUM FOR T. C. Osborne

Yarnell Project
Arizona

At a recent meeting attended by Messrs. Kupsch, Kurtz, Sell, Lakoski and myself, the passage of responsibility for the Yarnell Project from the Exploration Department to the Mining Department was organized. It was agreed during the meeting that I would submit a supplemental exploration appropriation covering the remaining Exploration Department costs, land costs to the end of February 1990 and Mining Department costs to be incurred through the completion of the first phase broad brush, feasibility study, also due by the end of February 1990. It was agreed that this appropriation request would be substituted for the request Mr. Sell had submitted and was then pending on my desk. Exploration drilling has been completed.

Ninety-two rotary holes and 4 diamond drill holes, totalling about 26,000 ft. have been drilled. Large column leaching tests, designed to determine recovery from various-sized material are now about complete although final recovery figures await completion of detailed assays of leached tail material in the columns and are not yet complete. Preliminary recovery numbers are about 68%.

At current metal prices the mineral inventory is about 9.7 million tons, grading about .031 opt, at a stripping ratio of 3 waste to 1 ore.

Exploration Department expenditures in excess of those already approved are estimated to be **$202,000.** Land payments include a $20,000 payment soon to be made to Norgold, the lessor/joint venture partner, a $103,000 payment to the underlying lessor, Western Building, and a $5,000 payment to the owner of 1 claim. Two landowners who have ground in the vicinity of a proposed plant site have agreed to sell out for a total of $6,500. Total land payments to the end of February will be **$134,500.** These costs are detailed on the attached sheet.

Mining Department estimates are that the cost of detailed metallurgical study, preliminary plant design, environmental testing of heap sites, surveying and other activities will cost a total of **$117,700.** The total of all these costs is **$454,200.** Authority to spend this money is requested.

R. L. Brown

R. L. Brown

Expl 202,000
Land 134500
Fees. 117700
Total 454,200.

RLB:mc
Att.

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FORM 302-MB

New York No. 0444-04

AUTHORIZATION FOR SUPPLEMENTAL MINERAL EXPLORATION

November 13, 19 89

Originating Office Tucson Office

Application is hereby made for supplemental Authorization to cover cost, in excess of original estimate, of work authorized by New York.

No. 044400 Yarnell Project, Arizona

Present total Estimated Cost (Form 302-MA attached)	1,024,200	$ ~~959,700~~
Amount previously authorized (date.....)	570,000	$ ~~505,500~~
Balance for which Authorization is now requested		$ 454,200

ADDITIONAL WORK CONTEMPLATED:

Complete exploration and preliminary work. Make land payments.

Complete first pass feasibility studies.

EXPLANATION OF INCREASED COST:

Reviewed by ..... Acct. Mgr. or Chief Acct.

Approved by R L Bowen Vice President

Recommended by ..... Supervisor

Approved by R. J. O'KEEFE Comptroller

Account Chargeable to EXPLORATION EXPENSE To be designated by Comptroller

Approved by Advisory Committee

..... 19 NOV 1989

T. C. O. Secretary

Approved by Board of Directors

..... 19.....

JDS

LAW OFFICES OF
APKER, APKER, HAGGARD & KURTZ, P.C.
A PROFESSIONAL CORPORATION
PARK ONE
2111 EAST HIGHLAND AVENUE, SUITE 230
PHOENIX, ARIZONA 85016
AREA CODE 602 TELEPHONE 381-0085

BURTON M. APKER*
JERRY L. HAGGARD**
DAVID B. APKER***
GERRIE APKER KURTZ
JOHN R. FITZPATRICK

*ALSO ADMITTED IN WISCONSIN
**ALSO ADMITTED IN DISTRICT OF COLUMBIA AND KANSAS
***ALSO ADMITTED IN COLORADO

MAILING ADDRESS
P. O. BOX 10280
PHOENIX, ARIZONA 85064-0280

TELECOPIER
(602) 956-3457

November 28, 1989

ASARCO Incorporated
DEC 1 1989
S.W. Exploration

Mr. James D. Sell
Manager
Exploration Department
Southwestern United States Division
ASARCO Incorporated
P.O. Box 5747
Tucson, Arizona 85703

Re: Yarnell Project - Land Position for Leach Pads and Waste Dumps

Dear Mr. Sell:

On November 14, 1989, Mr. Brown, you and I met to discuss the land positions in the Yarnell Project with respect to placing leach pads and waste dumps on some of the mining claims within the Yarnell Project area. You requested our advice on ASARCO's rights under federal law and under the agreements with the claim owners to place those facilities at their planned locations.

With respect to federal law, the Multiple Surface Use Act authorizes "prospecting, mining or processing operations and uses reasonably incident thereto" to be carried out on unpatented mining claims. 30 U.S.C. § 612(a). However, the right to carry out those operations is limited to mining claims which have been validated by a mineral discovery under the present marketability test. Without such a mineral discovery, the United States may invalidate a mining claim at any time, leaving the operator with leach pads and waste dumps on public land without any authorization which would likely be deemed a trespass. The location of mill sites is what is intended and authorized for the use of public lands for leach and waste dump purposes.

According to the map which you provided, the presently planned location for the waste dump would occupy portions of the following unpatented mining claims:

Victoria #1
Victoria #2
Victoria #3
Victoria #4
Victoria #5

The heap leach, solution ponds and process building would be located on the following unpatented mining claims:

Kathryn A
Kathryn B
Rim Rock #1
Alvin J

We note that your maps show the solution ponds and process building would also be located on the David Green-Lee claim which is also shown on the BD 3 claim underlying ASARCO's YAR 16 claim. Our files contain no information on the ownership of the David Green-Lee or the BD 3 claims.

The above-listed mining claims have been leased to Norgold by the following owners:

Claim Name	Claim Owner
Kathryn A, Kathryn B, and Alvin J	Western Building and Mining Co., Inc.
Victoria #'s 1, 2, 3, 4, 5, Rim Rock #1	Delbert and Priscilla Layton
Mother (patented claim)	Forrest Heintzelman

Reference must be made to each of the agreements with the above listed claim owners to determine whether there is any authority to use any of those claims for purposes other than actual production of minerals from within the boundaries of the claim and to relocate any of those claims as mill sites.

Layton Agreement

This Agreement applies to the Victoria claims which would be covered by a waste dump and the Rim Rock #1 claim which would be covered by leach material. Section 10 of the Layton Agreement authorizes the use of the property to conduct "mineral

exploration, development and mining activities thereon". It is, at best, arguable that those terms of the Layton Agreement would authorize dumping and leaching on the Layton property for the extraction and processing of minerals from other property. Even if those terms authorized dumping and leaching, because these are unpatented lode claims without a marketability type of mineral discovery, it would not be advisable with respect to liability to the United States to place dumps on the lands covered by these claims unless those lands are re-located with mill sites. There is nothing in the Layton Agreement authorizing the amendment, relocation of the lode claims or replacement of those claims with mill sites. To the contrary, Norgold and its successors are obligated under Section 16.1 to render reasonable assistance in regard to Layton's attempts to obtain patents to the claims and for Norgold to convey "50% of the land area" within the patented claims to the Laytons after Norgold has no further need for the claims for mining. Covering the claims with waste or leach dumps would likely not be regarded as reasonable assistance in obtaining patents to the lode claims although it would facilitate obtaining patents to mill sites. Under the present circumstances, we believe it would be necessary to amend the Layton Agreement if the lode claims were to be replaced with mill sites. Consideration might be given to asking the Laytons whether they would object to relocating portions of their claims as mill sites with ASARCO committing to attempt to obtain patents to the mill sites. Anticipating that the Laytons would object, the alternative would be to pay the option price of $250,000.00 to purchase these claims.

However, even upon acquiring title to the claims, Section 1 of the Layton Agreement reserves a one percent net smelter royalty to the Laytons. There is no express covenant in the Layton Agreement to develop and mine minerals. However, an implied covenant to develop could be raised by the reservation of the royalty to the Laytons, particularly with there being no further payments required after the payment of the purchase price. Such an implied covenant may be particularly inconsistent with carrying out activities, such as dumping waste, that would make it difficult for any future development of property. 4 Am. L. of Mining § 131.09[5][b]. The best protection against such possible claims by Layton would be to drill the Layton claims sufficiently to prove that there is no economic mineralization which could be developed. It is probable that the Laytons would have the burden of proving their damages which could be refuted by proof that there is no produceable mineralization within their claims.

Western Building Agreement

Western Building is the owner of the Kathryn A, Kathryn B and Alvin J unpatented claims on parts of which the heap leach

materials may be placed. In addition, the Western Building Agreement with Norgold provides (Recital (iii)) that the Norgold Sun #'s 1-15 claims shall be subject to the Agreement and shall, pursuant to Section 8(A), be conveyed to Western Building upon execution of that Agreement. Section 2(A) of the Western Building Agreement does allow Norgold to use the Western Building claims to treat minerals from other properties and to deposit waste, overburden or tailings on the property which is derived from adjoining or nearby properties. This Agreement also provides in Section 8(B) that any claims located by Norgold prior to the exercise of the option to purchase, which are contiguous to the original Western Building claims or the Sun claims shall become subject to the terms of the Western Building Agreement including the payment of royalties. Section 8(C) allows Norgold to amend or relocate any of the claims in the name of Western Building and subject to the Western Building Agreement. This provision, in conjunction with the authority of Norgold to place waste upon these claims, would likely be construed to allow Norgold to amend the lode claims and relocate the needed land with mill sites. Although Section 6(B) reserves a royalty to Western Building, because the major part of the mine would be on the Western Building patented claims, there could not be as great a likelihood of Western Building prevailing in objections to the failure to develop and the dumping of waste on the unpatented mining claims subject to that Agreement. Therefore, we believe that the Western Building Agreement allows the lessee or its assigns to locate mill sites within that property and dump waste on those mill sites.

Heintzelman Agreement

The only property subject to the Heintzelman Agreement is the Mother patented mining claim. Therefore, the question of the right to locate mill sites as was raised with the foregoing Agreements does not apply to the Heintzelman Agreement. The only activities specifically authorized under the Heintzelman Agreement is to conduct "mineral exploration, development and mining activities" on the property. There is no royalty provided for during the Agreement term or reserved from the exercise of the option to purchase the property. Therefore, there is not the question of an implied covenant to produce minerals as existed with respect to the Layton Agreement discussed above. The purchase price for the Mother claim is $50,000.00 which is paid by the installments under Sections 2 and 3 of the Agreement required to keep the Agreement in effect. The last installment of $10,000.00 is due on June 30, 1992.

ASARCO - Norgold Agreements

The general powers of ASARCO as operator under Section

6.2 of the Joint Venture Agreement will allow the necessary amendments of mining claims and location of mill sites as between ASARCO and Norgold. Specific provisions for the same appear in Section 22 of the Mining Lease. Section 6.1 of the Exploration and Option Agreement provides that Norgold shall, as directed by ASARCO, locate additional mining claims. This provision should encompass the alteration of claim boundaries and location of mill sites if these activities are necessary prior to entering the Mining Lease or Joint Venture Agreement with Norgold.

Please call if you have any questions regarding the foregoing.

Sincerely,

Jerry L. Haggard

Jerry L. Haggard
For APKER, APKER, HAGGARD
& KURTZ, P.C.

JLH/jb

cc: James L. Woods, Esq.
Mr. R. L. Brown

ASARCO

Exploration Department
Southwestern United States Division

November 28, 1989

Mr. Russell Honea
P.O. Box 323
Broomfield, CO 80038-0323

Yarnell Project

Dear Russ:

Under separate cover we are sending rock samples from our Yarnell Project. The sample suite shows the varying styles of alteration that we think we are seeing at Yarnell. We would like you to look at these suites and pay particular attention to the sericite, and silicification, i.e., quartz flooding and quartz veins. We think that there are multiple stages of quartz. Can you confirm this? In addition it appears that there is a potassic alteration associated with the moderate zone. The attached list indicates the grouping of samples in their priority. We would also like you to look at polished sections (as indicated on attachments) to see what the gold is associated with.

Respectfully,

Mark A. Miller
Project Geologist

MAM:mek
atts.

cc: J.D. Sell
J.D. Rasmussen

ASARCO Incorporated P. O. Box 5747 Tucson, Az 85703-0747
1150 North 7th Avenue (602) 792-3010

YARNELL PROJECT ROCK SAMPLES

For Russ Honea

Y-150	Fresh Weathered Unaltered Granite?
Y-151	Fresh Unweathered "Core" Granite?
Y-152	Weathered - Weakly Altered
Y-153	No Sample
Y-154	Mod Alt - Unoxidized
Y-155	Mod Alt - Oxidized
Y-156	Mod/Strong Alt - Oxidized
Y-157	Strong Alt - Oxidized
Y-158	Stockwork Quartz Mod/Strong Alt - Open Cut
Y-159	Strong Alt - Open Cut
Y-160	Strong S_1O_2- Open Cut - Strong Alt?
Y-161	Strong Alt - K-Spar Addition

Main Adit Traverse

Y-162	+50' Wk Alt
Y-163	+100' Wk Alt
Y-164	+220' Mod Alt
Y-165	+310' Mod Alt
Y-166	+350' Mod Alt
Y-167	+385' Mod/Strong?
Y-168	+400' Mod/Strong - Silic

First Priority

Y-150	
Y-152	
Y-154	
Y-155	
Y-157	Polished Section
Y-158	Polished Section
Y-160	Polished Section
Y-161	

Second Priority

Y-162 - Y-168

Hydrothermal Zonation.

Yarangu Deposit

Not send to R Honea

INCREASING ALTERATION

~~Propylitic (Weakly Altered)~~

+/- 20' → 200' **Weakly Altered (Propylitic?)**

Biotite present, weak sericite, partial Fe Oxide replacement of Biotite

+/- 50' Thick. **Transition Zone**

Some Biotite changing to Chlorite? Increasing Sericite +/- Fe Oxide Rims - Local Inc in Silica.

50-150' Thick. **Mod Altered Zone (Phyllic?)**

Biotite absent. - Mod → Strong Sericite (Increases closer to YFZ) Specularite occupying Biotite sites, Specularite Vns/Vnlts, Increase in Mn Ox (as dendrites, poss also as mix w/ Fe Oxides) Potassic Alteration as K-Feldspar rims around Qz Veins: As Qz Veining Inc K-Alteration becomes more pervasive. Silica flooding common also increasing w/ increasing Qz veining. Rock texture is ~~pressured~~ pressured w/in this zone

This zone also occurs to a ~~much~~ lesser degree (thickness) below the Yarangu Fault Zone

+/- 20' Thick. **Strongly Altered Zone (Argillic)**

Textural Destruction - Rock predominately Qz (+/- veining) and Clays - Kaolinite, Illite? Adjacent to YFZ (Yarangu Fault Zone) both above & below

+/- 2-3' Thick **Yarangu Fault Zone**

Gouge, Breccia, Mylonite: All argillically alt - strong red Hematite

DECREASING ALTERATION

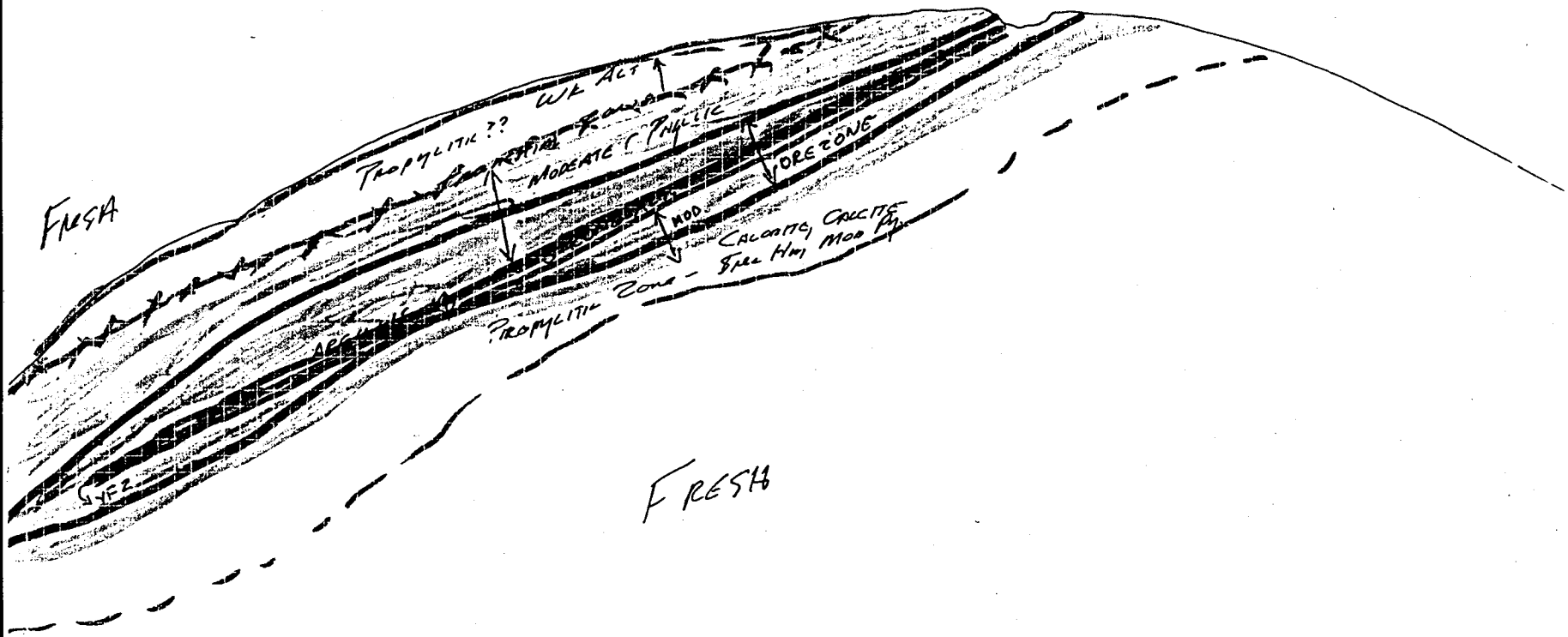
PROPYLITIC - FOOTWALL ROCKS - CHLORITE, CALCITE VEIN. SPECULARITE (MOD ABU) PYRITE (SLT → MOD) PINK UNALTERED K-SPARS - NO BIOTITE. THIS ZONE IS DIFFERENT FROM THE WEAKLY ALTERED ZONE. ~~SEEN~~

NOTE: MOST OF THIS DETAILED OBSERVATIONS OF THE ZONES ARE BASED UPON THE OBSERVATIONS MADE FROM LOGGING THE DIAMOND DRILL HOLES. WHERE THE ZONES ARE MUCH BETTER DEFINED THAN IN THE FIELD. ONE MUST REALIZE HOWEVER, THAT THERE ARE VARIATIONS W/IN THE ZONES THEMSELVES.

M. MILLER.

11/9/89

GENARIK X-SEC SHOWING ALTERATION ZONES. (NO SCALE)



To JDS

Date 11/29 Time 1:27

WHILE YOU WERE OUT

M F. Graybeal

of

Phone
Area Code Number Extension

TELEPHONED	✓	PLEASE CALL	✓
CALLED TO SEE YOU		WILL CALL AGAIN	
WANTS TO SEE YOU		URGENT	
RETURNED YOUR CALL			

Message Re Yarnell One
Reserve memo you
wrote
Very good, he says!

Mary
Operator

AMPAD EFFICIENCY®

23-000 50 SHT. PAD
23-001 250 SHT. DISPENSER BOX

ASARCO

Exploration Department
Southwestern United States Division

CERTIFIED MAIL
RETURN RECEIPT

November 29, 1989

State Director
Bureau of Land Management
U.S. Dept. of the Interior
P.O. Box 16563
Phoenix, AZ 85011

Mining Claim Annual
Recordation
Yarnell Project
Yavapai/Weaver Mining Dist.
Yavapai County, Arizona
YAR Claims (42)
AMC 294316-294345,
296357-296365
298732-298733, 299489

Dear Sir:

In accordance with the Federal Land Policy and Management Act (43 CFR, Part 3833.1), enclosed is an exact reproduction of the affidavit of assessment work, with mining claims serial numbers, as recorded in the Yavapai County Recorder's office in Book 2201, Pages 322 thru 324, #8942992, for the assessment year ending September 1, 1989.

Also enclosed is Asarco's check for $210 in payment of service charge of $5 for each claim (42 claims).

Please return acknowledgment in the enclosed, stamped envelope.

Very truly yours,

William D. Gay /mek

William D. Gay
Land Engineer, SWED

WDG:mek
enc.

cc: R.L. Brown (w/enc.)
W.A. Bennis (w/enc.)
J.D. Sell (w/enc.)
C.L. Snow (w/o enc.)
S.L. Lakosky (w/enc.)

ASARCO Incorporated P. O. Box 5747 Tucson, Az 85703-0747
1150 North 7th Avenue (602) 792-3010

RUSH

RUSH

INDEXED &
MICROFILMED

INSTRUMENT # 8942992
OFFICIAL RECORDS OF
YAVAPAI COUNTY
PATSY C. JENNEY
REQUEST OF:
ASARCO INC
DATE: 11/17/89 TIME: 10:30
FEE: 5.00 SC: 4.00 PT:
BOOK 2201 PAGE 322 PAGES: 003

AFFIDAVIT OF LABOR PERFORMED
AND IMPROVEMENTS MADE

STATE OF ARIZONA)
) ss
County of Pima)

William D. Gay, being first duly sworn, deposes and says that he is a citizen of the United States and more than twenty-one (21) years of age, and resides in Tucson, County of Pima, State of Arizona, and is personally acquainted with the mining claims situated in the Yarnell/Weaver Mining District, Yavapai County, Arizona, the names and books and pages of record in the office of the County Recorder of Yavapai, Arizona, and the Bureau of Land Management serial number of the Notices of Location whereof are as follows:

Name of claim	Recording Data Book	Page	AMC Serial No.
YAR #1	2131	587-588	294316
YAR #2	2131	589-590	294317
YAR #3	2131	591-502	294318
YAR #4	2131	593-594	294319
YAR #5	2131	595-596	294320
YAR #6	2131	597-598	294321
YAR #7	2131	599-600	294322
YAR #8	2131	601-602	294323
YAR #9	2131	603-604	294324
YAR #10	2131	605-606	294325
YAR #11	2131	607-608	294326
YAR #12	2131	609-610	294327
Amended	2135	263-264	
YAR #13	2131	611-612	294328
YAR #14	2131	613-614	204329
YAR #15	2131	615-616	294330
YAR #16	2131	617-618	294331
YAR #17	2131	619-620	294332
YAR #18	2131	621-622	294333
YAR #19	2131	623-624	294334
YAR #20	2131	625-626	294335
YAR #21	2131	627-628	294336

YAR #22	2131	629-630	294337
Amended	2174	858-959	
YAR #23	2131	631-632	294338
YAR #24	2131	633-634	294339
YAR #25	2131	635-636	294340
Amended	2174	860-861	
YAR #26	2131	637-638	294341
Amended	2174	862-863	
YAR #27	2131	639-640	294342
Amended	2174	864-865	
YAR #28	2131	641-642	294343
Amended	2174	866-867	
YAR #29	2131	643-644	294344
YAR #30	2131	645-646	294345
YAR-31	2155	256	296357
Amended	2158	895-896	
YAR-32	2155	257	296358
Amended	2158	897-898	
YAR-33	2155	258	296359
Amended	2158	899-900	
YAR-34	2155	259	296360
Amended	2158	901-902	
YAR-35	2155	260	296361
Amended	2158	903-904	
YAR-36	2155	261	296362
Amended	2158	905-906	
YAR-37	2155	262	296363
Amended	2158	907-908	
YAR-38	2155	263	296364
Amended	2158	909-910	
YAR-39	2155	264	296365
Amended	2158	911-912	
YAR-41	2178	170	298732
YAR-42	2178	169	298733
YAR-43	2189	128	299488

Located in Sections 14, 15, 22 & 23, T10N, R5W.

That all of said mining claims are owned by ASARCO Incorporated, the mailing address for which is P.O. Box 5747, Tucson, Arizona 85703; that between September 1, 1988 and August 31, 1989, in excess of $4,200 worth of work and improvements were done and performed for the benefit of the aforementioned claims. Work and improvements consisted of drilling by Drilling Services Company, 12030 East Riggs Road, Chandler, Arizona 85249; and road work by Yannuzzi Overland Unlimited, 527 South Church St., Hazelton, Pennsylvania 18201, and Universal Drilling, P.O. Box 593, Yarnell, Arizona 85362.

Said labor was performed and improvements made at the expense of ASARCO Incorporated for the benefit of each and all of said mining claims

comprising said contiguous group as part of a general plan of exploration, improvements and development, and they tend to explore, improve and develop each and all of said mining claims. The amount expended for and the value of said labor and improvements is more that One Hundred Dollars ($100.00) for each of the mining claims and at least said amount was allocated to each of the mining claims. Said expenditure was made in good faith for the purpose of exploring, improving and developing said contiguous group of mining claims, and was intended as annual labor and improvements for each and all of the above-described unpatented lode mining claims for the assessment year ending at 12:00 o'clock Meridian, September 1, 1989.

ASARCO Incorporated

By William D. Gay
Agent

STATE OF ARIZONA)
) ss
County of Pima)

On the 10th day of November, 1989, personally appeared before me William D. Gay, Land Engineer, SWED, ASARCO Incorporated, the signer of the above instrument who duly acknowledged to me that he executed the same.

SEAL

Kathleen Flanagan
Notary Public

My Commission Expires:

My Commission Expires July 6, 1992

BOOK 2201 PAGE 324

ASARCO

Southwestern Exploration Division

-!DS

November 29, 1989

J.D. Sell

RQD Values
YDDH 1-4
Yarnell Project
Yavapai County, AZ

The attached values are the measured (and averaged) values for RQD's on drill holes YDDH 1-4. Averages are given for RQD's above "B" zone, "B" zone, below "B" zone and for the entire hole. Except for DDH-3 where 60% of the ore zone was not recovered due to a stope, raise ?, etc., the RQD values for the ore zone (B zone) are significantly lower, suggesting more fracturing and easier and less costly ? mining. The footwall rocks also appear to be very competent (based upon the RQD values) with the exception of YDDH-2 which was still in altered rock at the T.D.

Mark A. Miller
Project Geologist

MAM:mek
att.

cc: W.L. Kurtz
S.L. Lakosky

YARNELL DRILL HOLES

RQDS

Drill Hole	B Zone	Above B Zone	Below B Zone	Entire Hole Average
DDH-1	19.8	55	86.9	54
DDH-2	28	37	25	37
DDH-3	62*	40*	74	52*
DDH-4	31.7	58	86.9	50.2
Average	26.5	47	67	47

* Drill hole encountered stope - values not representative of described interval.

MAM
11/28/89

cc: W.D. Gay
S.L. Lakosky
J.D. Sell

DEPARTMENT OF WATER RESOURCES
XXXXXXXXXXXXXXXXXXXXXXXXXXXX Operations Division
XXXXXXXX 15 South 15th Ave.
PHOENIX, ARIZONA XXXXX 85007

87 Holes

NOTICE OF ABANDONMENT

A.R.S. §45-594; R12-15-816(E): The owner or operator of the well shall notify the Department in writing no later than thirty days after the abandonment has been completed.

1. Well location;

Township 10N

Range 5W

Section 14 SW¼

____ ¼ ____ ¼ ____ ¼
(10 acre subdivision)

County Yavapai County, Arizona

2. Owner of the well:

ASARCO Incorporated
Name

P.O. Box 5747
Address

Tucson AZ 85703
City State Zip

3. Owner of the land:

Norgold Resources Inc.
Name

2380 Harbour Centre
P.O. Box 12122
Address

555 W. Hastings Street
Vancouver, B.C. V6B-4N6, Canada
City State Zip

4. Well Description:

Depth of hole 200-350'

Diameter of hole 5¼"

Type of casing None

5. Well Registration Number:

55-524750

File Number:

B(10-5)14

6. Prior to abandonment, did the well penetrate any water-bearing layers?

Yes ____ No X Unknown ____

7. Prior to abandonment, did the well have 20' of steel surface casing and 20' of grout in the annular space surrounding the surface casing?

Yes ____ No X

8. If the answer to No. 7 is no, was the top 20' of casing removed prior to setting the cement plug?

Yes X No ____

9. Was the well filled with cuttings or other non-toxic material prior to setting the cement plug?

Yes X No ____

10. If the answer to No. 9 is yes, what material was used to fill the well?

Drill Cuttings

11. How deep does the cement plug extend below land surface?

20'

12. Was the well backfilled above the cement plug?

Yes X No ____

13. Date abandonment complete:

10/20/89

I state that this Notice is filed in compliance with A.R.S. §45-594: R12-15-816(E), and is complete and correct to the best of my knowledge and belief.

DATE 11-29-89 SIGNATURE [signature]

Mark A. Miller, Project Geologist

DWR-55-46-12/83

Yarnell JDS

V.A.

APKER, APKER, HAGGARD & KURTZ, P.C.
P. O. Box 10280
Phoenix, Arizona 85064-0280
(602) 381-0085

Exploration Department
Southwestern U.S. Division
ASARCO Incorporated
P.O. Box 5747
Tucson, Arizona 85703-0747

December 1, 1989
Page 1
Client: 111
Matter: 12

Matter: Re: Norgold Resources, Inc.

Date	Professional Services Rendered
11/01/89	Telephone conference with Mr. Gay re assessment work for Yar and Sun claims; telephone conferences from Mr. Smith and to Mr. Woods re completing Norgold agreements; revise and complete correspondence to Mr. Lakosky.
11/02/89	Complete corrections in and compile Norgold agreements; prepare correspondence to Mr. Edgar; transmit execution copies.
11/03/89	Review BLM records on patenting of the Juniper claim in connection with extralateral rights question.
11/06/89	Telephone conferences with Mr. Gay re assessment work for Yarnell project and review statutes.
11/07/89	Telephone conferences with Mr. Woods re formulas for net profits calculations; out-of-office research; furnish articles to Mr. Woods.
11/14/89	Review mining claims situation and meet with Messrs. Bowen and Sell re land acquisition for leach pads and waste dumps; telephone conference with Mr. Woods re same. Telephone conference with Mr. Gay re defect in assessment work on Victoria #1 claim.
11/22/89	Review Western Building, Layton and Heintzelman agreements; research; prepare correspondence to Mr. Sell re land acquisitions for waste dump and leach facilities.
11/24/89	Research; revise correspondence to Mr. Sell re provisions of Yarnell project underlying leases allowing for use of satellite lands for ancillary mining purposes.
11/27/89	Telephone conference with Mr. Gay re mining claim amendment procedures.
11/29/89	Review and complete correspondence to Mr. Sell re land positions for Yarnell project facilities.

Total Services 3,094.00

APKER, APKER, HAGGARD & KURTZ, P.C.
P. O. Box 10280
Phoenix, Arizona 85064-0280
(602) 381-0085

Exploration Department
Southwestern U.S. Division
ASARCO Incorporated
P.O. Box 5747
Tucson, Arizona 85703-0747

December 1, 1989
Page 2
Client: 111
Matter: 12

Matter: (Cont.) Re: Norgold Resources, Inc.

Disbursements

11/02/89	Miscellaneous costs advanced Federal Express delivery to Mr. Woods on 10/09/89.	15.00
11/02/89	Miscellaneous costs advanced Federal Express delivery to Mr. Woods on 10/12/89.	15.00
11/13/89	Miscellaneous costs advanced Copying and binding charge.	49.94
11/20/89	Miscellaneous costs advanced Federal Express delivery to Mr. Smith on 10/26/89.	23.50
11/20/89	Miscellaneous costs advanced Federal Express delivery to Mr. Woods on 10/26/89.	26.25
11/20/89	Miscellaneous costs advanced Federal Express delivery to Mr. Kurtz on 10/26/89.	26.25
11/20/89	Miscellaneous costs advanced Westlaw database research and printing charges on 10/11/89 and 10/30/89.	242.35
11/28/89	Miscellaneous costs advanced Federal Express delivery to Mr. Edgar on 11/2/89.	84.50
	Excess photocopying charges	186.20
	Long distance telephone	8.58
	Total Disbursements	677.57

COPY

Current Charges 3,771.57

STATEMENTS RENDERED AND UNPAID:

11/01/89 $8,671.19

Yarnell

Total Due On Account ~~12,442.76~~

ASARCO

Southwestern Exploration Division

JDS

December 1, 1989

FILE NOTE

Verbal-Norgold
Computer Reserves
Yarnell Project
Yavapai County, AZ

A call came in from M. Philpot and during that chat I asked him how his computer pit reserves were coming along.

He said: "They are coming down" from the previous release, but he now thinks of:

5,700,000 tons
at 0.050 opt gold
at 2.3/1 stripping ratio.

using 0.024 opt Au cut-off.

James D. Sell

JDS:mek

James D. Sell

cc: W.L. Kurtz

JDS

ASARCO

Exploration Department
Southwestern United States Division

James D. Sell
Manager

December 1, 1989

Mr. J.L. Haggard
Apker, Apker, Haggard & Kurtz, P.C.
P.O. Box 10280
Phoenix, AZ 85064-0280

Purchase Black Dike Number 3
Yarnell Project
Yavapai County, Arizona

Dear Jerry:

As I discussed with you on the phone, ASARCO Incorporated has agreed to purchase the Black Dike Number 3, unpatented mining claim, from Mr. & Mrs. David Green-Lee for the total sum of $5,000.

David J. and Dorothy M. Green-Lee, H&W
P.O. Box 332
Yarnell, AZ 85362
Phone: 602/427-6353

Black Dike Number 3
Book 153, p. 393
BLM# AMC 72445
Yavapai County, Arizona

The Black Dike Number 3 is located in the N½, Sec. 23, T10N, R5W, Weaver Mining District, about 1 3/4/ miles south of the town of Yarnell.

A Quit-Claim Deed should be prepared for them to sign transferring the claim to ASARCO Incorporated, as well as any other papers you deem desirable to prepare.

Attached is a copy of the last paper trail showing the Affidavits of Labor for the years 1985 thru 1988, and the Quit-Claim Deed which sold the Black Dike Number 3 to Mr. David Green-Lee.

In the Asarco files is a copy of the paper trail from the Location Notice of January 25, 1947, up thru present. Mr. Green-Lee says he has filed for 1989, but has not yet received the BLM stamped copy.

Should you need further information, do not hesitate to contact me or Mr. David Green-Lee.

Sincerely,

James D. Sell

JDS:mek

James D. Sell

cc: W.L. Kurtz
C.L. Snow
S.L. Lakosky

ASARCO

Exploration Department
Southwestern United States Division

December 5, 1989

Mrs. Priscilla Layton
Route 192
P.O. Box 13
Elko, Nevada 89801

Yarnell Project
Yavapai County, AZ

Dear Mrs. Layton:

Attached for your records is a copy of the Affidavit of Labor Performed and Improvements Made for the year ending Sept. 1, 1989 on your 32 lode claims in the Yavapai Mining District, Yavapai County, Arizona. This affidavit has been recorded in Yavapai County in Book 2192, page 84 thru 86, and has been stamped as received by the Bureau of Land Management on Nov. 2, 1989.

Sincerely yours,

William D. Gay

William D. Gay
Land Engineer, SWED

WDG:mek
att.

cc: J.D. Sell
S.L. Lakosky
M.A. Miller

ASARCO Incorporated P. O. Box 5747 Tucson, Az 85703-0747
1150 North 7th Avenue (602) 792-3010

ASARCO

Exploration Department
Southwestern United States Division

CERTIFIED MAIL
RETURN RECEIPT

November 1, 1989

State Director
Bureau of Land Management
U.S. Dept. of the Interior
P.O. Box 16563
Phoenix, AZ 85011

Mining Claim Annual
Recordation
Yarnell Project
Yavapai Mining District
Yavapai County, Arizona
Green Rock, et al Clms (32)
UMC 24730-24732, 74727,
74730-74733, 78214-78219,
78222-78227, 82449,
98902-98904, 101990-101995,
118942, 244644

Dear Sir:

In accordance with the Federal Land Policy and Management Act (43 CFR, Part 3833.1), enclosed is an exact reproduction of the affidavit of assessment work, with mining claims serial numbers, as recorded in the Yavapai County Recorder's office in Book 2192, Pages 84 thru 86, #8938544, for the assessment year ending September 1, 1989.

Also enclosed is Asarco's check for $160 in payment of service charge of $5 for each claim (32 claims).

Please return acknowledgment in the enclosed, stamped envelope.

Very truly yours,

/s/

William D. Gay
Land Engineer, SWED

WDG:mek
enc.

cc: R.L. Brown (w/enc.)
W.A. Bennis (w/enc.)
J.D. Sell (w/enc.)
C.L. Snow (w/o enc.)
P. Layton (w/enc.)

ASARCO Incorporated P. O. Box 5747 Tucson, Az 85703-0747
1150 North 7th Avenue (602) 792-3010

Form 1370-41
(March 1984)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Doc. Book

RECEIPT AND ACCOUNTING ADVICE

NO. 1673660 03

Subject: AFFIDAVITS OF LABOR (32) SGM/AZ 11 2 89 0 9 12 160.00

Applicant: ASARCO INCORPORATED
P. O. BOX 5747
TUCSON, AZ 85703

Remitter: SAME - CK #0032176

Assignor:

SERIAL NO.
AMC 24730, ET AL.

REFER TO THE ABOVE CASE SERIAL NUMBER IN ALL CORRESPONDENCE. PLEASE INFORM THIS OFFICE OF ANY CHANGE IN ADDRESS.

NOTE: This notice is a receipt for monies paid the United States. If these monies are for required fees in connection with your application to lease, purchase, enter, or otherwise acquire an interest in public lands or resources, this receipt is not an authorization to utilize the land applied for and it does not convey any right, title, or interest in the land for which application is made.

cc: W.D. Gay
C.L. Snow

ASARCO Incorporated
NOV 7 1989
SW Exploration

S.W. MINING DEPT.
NOV 6 1989
TUCSON

RECEIPT

INSTRUMENT # 8938544
OFFICIAL RECORDS OF
YAVAPAI COUNTY
PATSY C. JENNEY
REQUEST OF:
ASARCO
DATE: 10/17/89 TIME: 10:15
FEE: 5.00
BOOK 2192 PAGE 084 PAGES: 003

24730
74727
78211
82449
244644

INDEXED & MICROFILMED
98902
101990
118942

Bk | Map | Pc

AFFIDAVIT OF LABOR PERFORMED AND IMPROVEMENTS MADE

STATE OF ARIZONA)
) ss
County of Pima)

William D. Gay, being first duly sworn, deposes and says that he is a citizen of the United States and more than twenty-one (21) years of age, and resides in Tucson, County of Pima, State of Arizona, and is personally acquainted with the mining claims situated in the Yavapai Mining District, Yavapai County, Arizona, the names and books and pages of record in the office of the County Recorder of Yavapai, Arizona, and the Bureau of Land Management serial number of the Notices of Location whereof are as follows:

Name of claim	Recording Data Book	Page	Serial No.
Green Rock #1	1143	473	AMC 24730
Amended	1290	565	
Red Rock #1	1143	472	AMC 24731
Amended	1290	567	
Black Rock #1	1143	471	AMC 24732
Amended	1290	563	
Black Dike No. 1	153*	17	AMC 74727
Amended	1063	712	
Black Dike Extension No.1	158*	560	AMC 74730
Amended	1063	713	
Black Dike Extension No.2	158*	561	AMC 74731
Black Dike Extension No.3	158*	562	AMC 74732
Black Dike Extension No.4	113	335	AMC 74733
Amended	1063	714	
Black Dike Extension No.5	1339	56	AMC 118942
Grey Mare #1	1252	150	AMC 78214
Grey Mare #2	1252	152	AMC 78215
Grey Mare #3	1252	154	AMC 78216
Grey Mare #4	1252	156	AMC 78217
Grey Mare #5	1252	158	AMC 78218
Thunder Hill	923	945	AMC 78227
Amended	941	750	

RECEIVED
B.L.M. AZ STATE OFFICE
NOV 0 2 1989
7:45 A.M.
PHOENIX, ARIZONA

Sky High #1	977	40	AMC 78222
Amended	1252	146	
Sky High #2	977	40	AMC 78223
Amended	1252	142	
Sky High #3	977	42	AMC 78224
Amended	1252	144	
Sky High #4	977	43	AMC 78225
Amended	1252	146	
Sky High #5	977	44	AMC 78226
Amended	1252	148	
Rim Rock #1	154	550	AMC 82449
Victoria #1	924	918	AMC 78219
Amended	1287	763	
Victoria #2	1287	765	AMC 98902
Victoria #3	1287	767	AMC 98903
Victoria #4	1287	769	AMC 98904
Victoria #5	1751	484	AMC 244644
Crazy Horse O.K.	1290	549	AMC 101990
Crazy Horse Tokay	1290	551	AMC 101991
Crazy Horse #1	1290	553	AMC 101992
Crazy Horse #2	1290	555	AMC 101993
Crazy Horse #3	1290	557	AMC 101994
Crazy Horse #4	1290	559	AMC 101995

*Book of Mines

Located in Section 14,23,25,26 & 27, T10N, R5W.

That all of said mining claims are owned by Mrs. Priscilla Layton and ASARCO Incorporated, the mailing address for which is P.O. Box 5747, Tucson, Arizona 85703; that between September 1, 1988 and August 31, 1989, in excess of $3,200 worth of work and improvements were done and performed for the benefit of the aforementioned claims. Work and improvements consisted of drilling by Drilling Services Company, 12030 East Riggs Road, Chandler, Arizona 85249; and road work by Yannuzzi Overland Unlimited, 527 South Church St., Hazelton, Pennsylvania 18201, and Universal Drilling, P.O. Box 593, Yarnell, Arizona 85362.

Said labor was performed and improvements made at the expense of ASARCO Incorporated for the benefit of each and all of said mining claims comprising said contiguous groups as part of a general plan of exploration, improvements and development, and they tend to explore, improve and develop each and all of said mining claims. The amount expended for and the value of said labor and improvements is more that One Hundred Dollars ($100.00) for each of the mining claims and at least said amount was allocated to each

RECEIVED
B.L.M. AZ STATE OFFICE
NOV 0 2 1989
7:45 A.M

of the mining claims. Said expenditure was made in good faith for the purpose of exploring, improving and developing said contiguous groups of mining claims, and was intended as annual labor and improvements for each and all of the above-described unpatented lode(placer) mining claims for the assessment year ending at 12:00 o'clock Meridian, September 1, 1989.

ASARCO Incorporated

By William D. Gay
Agent

STATE OF ARIZONA)
) ss
County of Pima)

On the 16th day of October, 1989, personally appeared before me William D. Gay, Land Engineer, SWED, ASARCO Incorporated, the signer of the above instrument who duly acknowledged to me that he executed the same.

SEAL

Mildred C. Koeppen
Notary Public

My Commission Expires:

My Commission Expires Nov. 20, 1991

BOOK 2192 PAGE 86

RECEIVED
B.L.M. AZ STATE OFFICE

NOV 1 2 1989

7:45 A.M.
PHOENIX, ARIZONA

ASARCO

Exploration Department
Southwestern United States Division

December 5, 1989

Mr. Jerry L. Haggard
Apker, Apker, Haggard & Kurtz, P.C.
P.O. Box 10280
Phoenix, AZ 85064-0280

Yarnell Project
Yavapai County, AZ

Dear Mr. Haggard:

Enclosed for your information is a copy of the Affidavit of Labor Performed and Improvements Made on the lode claims owned by Priscilla Layton in Yavapai County, AZ, for the year ending Sept. 1, 1989. This has been recorded in Yavapai County in Book 2192, pages 84 thru 86, and has been stamped as received by the BLM on Nov. 2, 1989.

Sincerely yours,

William D. Gay

William D. Gay
Land Engineer, SWED

WDG:mek
enc.

cc: J.D. Sell
S.L. Lakosky

ASARCO Incorporated P. O. Box 5747 Tucson, Az 85703-0747
1150 North 7th Avenue (602) 792-3010

ASARCO

Exploration Department
Southwestern United States Division

December 5, 1989

Mrs. Priscilla A. Layton
Route 192
P.O. Box 13
Elko, Nevada 89801

Yarnell Project
Yavapai County, AZ

Dear Mrs. Layton:

After reviewing the Location Notices and field checking your Victoria No. 2, 3, 4, and 5 claims, it appears that they should be amended to conform with current law.

If you concur, please sign at the bottom of this letter and return it.

Enclosed are copies that would be sent to the BLM for amending claims.

Feel free to call if you have any questions (602) 792-3010.

Sincerely yours,

William D. Gay

William D. Gay
Land Engineer, SWED

WDG:mek
encs.

_____
Priscilla A. Layton

cc: J.D. Sell
S.L. Lakosky
M.A. Miller

ASARCO Incorporated P. O. Box 5747 Tucson, Az 85703-0747
1150 North 7th Avenue (602) 792-3010

AMENDED NOTICE OF LOCATION
(Lode Claim)

Notice is hereby given that Mrs. P.A. Layton P.O. Box 13 Elko, NV 89801, by her undersigned agent, makes this location of the VICTORIA-2 lode mining claim, in the WEAVER Mining District, County of YAVAPAI, State of Arizona.

The claim is 1266 feet in length along the vein or deposit of mineral bearing rock in place and 439NE 263SW feet in width (131SW 220NE feet on either side of the center line of the claim), forming a claim in the shape of a parallelogram. The general course of said claim is from NE to SW.

This Notice is posted on the centerline of the claim which location monument is in Section 14, Township 10N, Range 5W, GSRB&M.

The location monument of said claim is located approx. N12°31'E 2878 ft from the SW corner of Section 14, Township 10N, Range 5W, GSRB&M, Arizona and said claim lies within the NW1/4 Sec.14, T10N, R5W. GSRB&M.

The surface boundaries of the claim are described as follows: Beginning at the discovery monument and running thence S20°W 50 ft. to the center of the end line and the true point of beginning thence (clockwise) N72°W 132' to corner 1, thence N16°E 1279' to corner 2, thence S68°E 220' to center end line, thence S68°E 220' to corner 3, thence S24°W 1258' to corner 4, thence N72°W 132' to point of beginning.

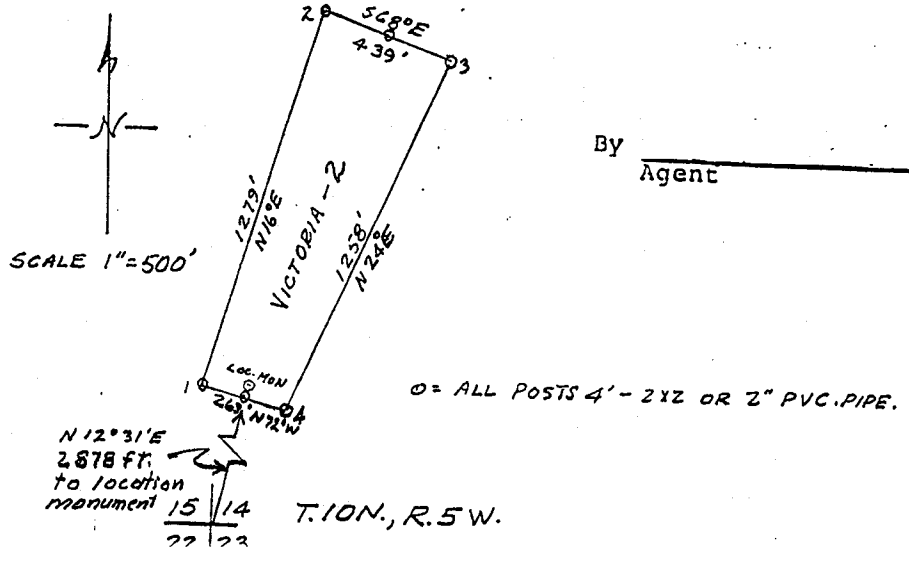
There are seven substantial posts, projecting at least 4 feet above the surface of the ground, or stone monuments, at least 3 feet high, one for the location monument, one at each of the four corners and one at the center of each end line as prescribed by A.R.S. §27-204.

Located, dated and posted on the ground this _____ day of _____, 19__.

The original Notice of Location of this claim is recorded in the official records of County, Arizona, as follows:

Name of Claim	Recorded Book	Recorded Page	Recorded Date
VICTORIA-2	1287	765&766	3-2-80

This amendment is made for purposes of more accurately describing the boundries hereof and correcting errors or ommissions (if any) contained in the original location notice. This amendment is made without waiver of the rights previously acquired under the location hereof. If for any reason it is determined that this notice is ineffective as an amendment of the location of this claim, the undersigned intends that this amendment shall serve as an original location of the area described herein as of the date of posting hereof.



By _____
Agent

AMENDED NOTICE OF LOCATION
(Lode Claim)

Notice is hereby given that Mrs. P.A. Lawton P.O. Box 13 Elko, NV. 89801, by her undersigned agent, makes this location of the VICTORIA-3 lode mining claim, in the WEAVER Mining District, County of YAVAPAI, State of Arizona.

The claim is 1225 feet in length along the vein or deposit of mineral bearing rock in place and 322 NE 187 SW feet in width (161 NE 94 SW feet on either side of the center line of the claim), forming a claim in the shape of a parallelogram. The general course of said claim is from NE to SW.

This Notice is posted on the centerline of the claim which location monument is in Section 14, Township 10N, Range 5W, GSRB&M.

The location monument of said claim is located approx. N17°07'E 2867 ft. from the SW corner of Section 14, Township 10N, Range 5W, GSRB&M, Arizona and said claim lies within the NW1/4 Sec. 14, T10N, R5W GSRB&M.

The surface boundaries of the claim are described as follows: Beginning at the discovery monument and running thence S 28°W 50 ft. to the center of the end line and the true point of beginning thence (clockwise) N74°W 94' to corner 1, thence N24°E 1258' to corner 2, thence S58°E 161' to center end line, thence S58°E 160' to corner 3, thence S31°W 1197' to corner 4, thence N74°W 94' to point of beginning.

There are seven substantial posts, projecting at least 4 feet above the surface of the ground, or stone monuments, at least 3 feet high, one for the location monument, one at each of the four corners and one at the center of each end line as prescribed by A.R.S. §27-204.

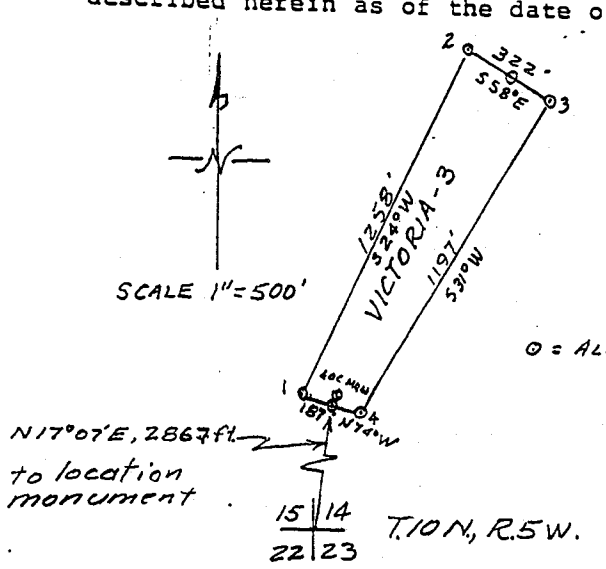
Located, dated and posted on the ground this _____ day of _____, 19__.

The original Notice of Location of this claim is recorded in the official records of _____ County, Arizona, as follows:

Name of Claim	Recorded Book	Recorded Page	Recorded Date
VICTORIA-3	1287	767 & 768	3-2-80

This amendment is made for purposes of more accurately describing the boundries hereof and correcting errors or ommissions (if any) contained in the original location notice. This amendment is made without waiver of the rights previously acquired under the location hereof. If for any reason it is determined that this notice is ineffective as an amendment of the location of this claim, the undersigned intends that this amendment shall serve as an original location of the area described herein as of the date of posting hereof.

By _____
Agent



⊙ = ALL ~~CORNER~~ POSTS 4'-2x2 OR 2" PVC. PIPE.

AMENDED NOTICE OF LOCATION
(Lode Claim)

Notice is hereby given that Mrs. P.A. Layton P.O. Box 13 Elko, NV 89801, by her undersigned agent, makes this location of the VICTORIA-4 lode mining claim, in the WEAVER Mining District, County of YAVAPAI, State of Arizona.

The claim is 1500 feet in length along the vein or deposit of mineral bearing rock in place and 478 feet in width (239 feet on either side of the center line of the claim), forming a claim in the shape of a parallelogram. The general course of said claim is from NW to SE.

This Notice is posted on the centerline of the claim which location monument is in Section 14, Township 10 N, Range 5 W, GSRB&M.

The location monument of said claim is located approx. N26°05'E 3585' from the SW corner of Section 14, Township 10N, Range 5 W, GSRB&M, Arizona and said claim lies within the W½ & SE¼ Sec. 14, T10N, R5W. GSRB&M.

The surface boundaries of the claim are described as follows: Beginning at the discovery monument and running thence N44°W 50 feet to the center of the end line and the true point of beginning thence (clockwise) N30°E 250' to corner 1, thence S44°E 1500' to corner 2, thence S30°W 250' to center end line, thence S30°W 250' to corner 3, thence N44°W 1500' to corner 4, thence N30°E 250' to point of beginning.

There are seven substantial posts, projecting at least 4 feet above the surface of the ground, or stone monuments, at least 3 feet high, one for the location monument, one at each of the four corners and one at the center of each end line as prescribed by A.R.S. §27-204.

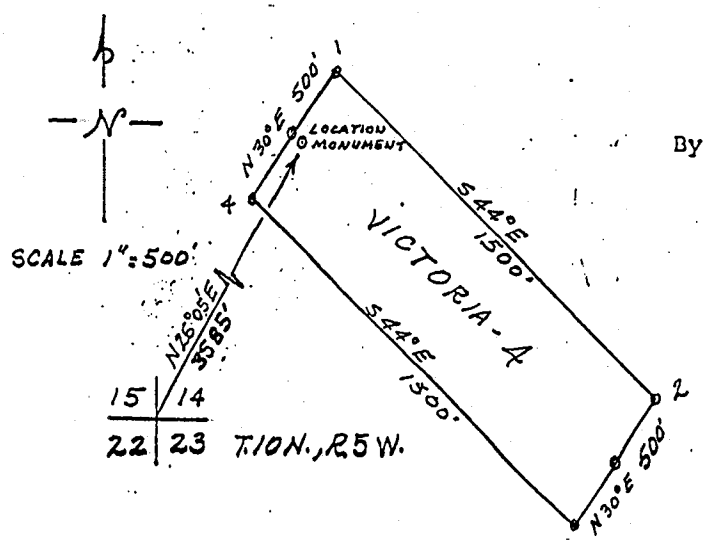
Located, dated and posted on the ground this _____ day of _____, 19__.

The original Notice of Location of this claim is recorded in the official records of County, Arizona, as follows:

Name of Claim	Recorded Book	Recorded Page	Recorded Date
VICTORIA-4	1287	769 & 770	3-2-80

This amendment is made for purposes of more accurately describing the boundries hereof and correcting errors or ommissions (if any) contained in the original location notice. This amendment is made without waiver of the rights previously acquired under the location hereof. If for any reason it is determined that this notice is ineffective as an amendment of the location of this claim, the undersigned intends that this amendment shall serve as an original location of the area described herein as of the date of posting hereof.

By _____
Agent



O = ALL POSTS 4' - 2X2 OR 2" PVC PIPE.

AMENDED NOTICE OF LOCATION
(Lode Claim)

Notice is hereby given that Mrs. P.A. Layton P.O. Box 13 Elko, NV. 89801, by her undersigned agent, makes this location of the VICTORIA-5 lode mining claim, in the WEAVER Mining District, County of YAVAPAI, State of Arizona.

The claim is 1500 feet in length along the vein or deposit of mineral bearing rock in place and 600 feet in width (300 feet on either side of the center line of the claim), forming a claim in the shape of a parallelogram. The general course of said claim is from NW to SE.

This Notice is posted on the centerline of the claim which location monument is in Section 14, Township 10N, Range 5W, GSRB&M.

The location monument of said claim is located approx. N24°41'E 3684' from the SW corner of Section 14, Township 10N, Range 5W, GSRB&M, Arizona and said claim lies within the W1/4, Sec. 14, T10N, R5W, GSRB&M.

The surface boundaries of the claim are described as follows: Beginning at the discovery monument and running thence N43°35'W 660 ft. to the center of the end line and the true point of beginning thence (clockwise) N46°E 300' to corner 1, thence S44°E 1500' to corner 2, thence S46°W 300' to center end line, thence S46°W 300' to corner 3, thence N44°W 1500' to corner 4, thence N46°E 300' to point of beginning.

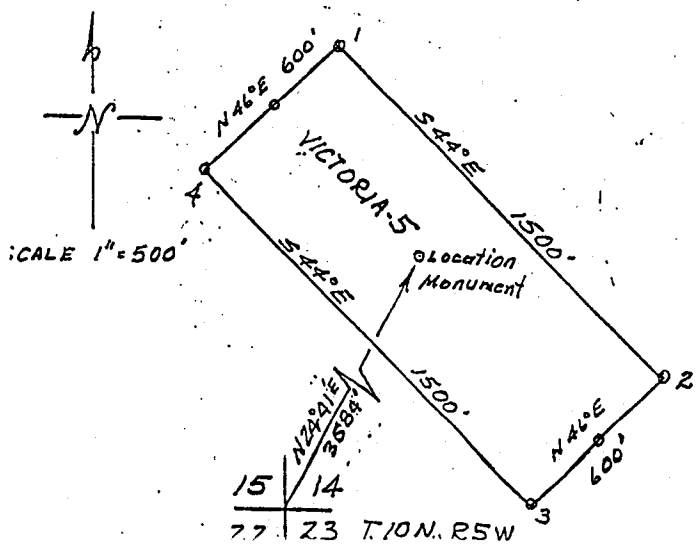
There are seven substantial posts, projecting at least 4 feet above the surface of the ground, or stone monuments, at least 3 feet high, one for the location monument, one at each of the four corners and one at the center of each end line as prescribed by A.R.S. §27-204.

Located, dated and posted on the ground this _____ day of _____, 19___.

The original Notice of Location of this claim is recorded in the official records of County, Arizona, as follows:

Name of Claim	Recorded Book	Recorded Page	Recorded Date
VICTORIA - 5	1751	484 & 485	9-4-85

This amendment is made for purposes of more accurately describing the boundries hereof and correcting errors or ommissions (if any) contained in the original location notice. This amendment is made without waiver of the rights previously acquired under the location hereof. If for any reason it is determined that this notice is ineffective as an amendment of the location of this claim, the undersigned intends that this amendment shall serve as an original location of the area described herein as of the date of posting hereof.



By _____
Agent

⊙ = ALL POSTS 4' - 2X2 OR PVC PIPE.

copy for WLK
JDS

FILE

ASARCO

Exploration Department
R. L. Brown
Vice President

December 7, 1989

ASARCO Incorporated
DEC 11 1989
SW Exploration

Mr. J. D. Sell
Tucson Office

Dear Mr. Sell:

Attached hereto is a self-explanatory letter to me from Norgold Resources Inc. Please note the change of address.

I will execute the agreements and forward copies to you after I learn that the consent of Western Building to this assignment has been made.

Yours very truly,

R. L. Brown

RLB:mc
Att.

cc: S. L. Lakosky, Jr. (w/att.)
J. L. Woods (w/att.)

ASARCO Incorporated 180 Maiden Lane New York, N.Y. 10038 (212) 510-2000
Telex:RCA 232378 Cable: MINEDEPART Fax: (212) 510-1978

Rand Edgar & Sedun

Barristers & Solicitors

William A. Rand* Brian D. Edgar* Gregg J. Sedun*

2200 Hongkong Bank of Canada Bldg.
885 West Georgia Street
Vancouver, B.C. V6C 3E8
Tel. (604) 687-9931
Telefax (604) 681-7116

File No. 2003

VIA COURIER

December 06, 1989

Asarco Incorporated
180 Maiden Lane
New York, New York
U.S.A. 10038

Attention: Mr. Richard Brown

Dear Sirs:

Re: NORGOLD RESOURCES INC.
Exploration and Option Agreement

Further to Mr. Gerry Haggard's letter of November 2, 1989, we enclose five copies of the Exploration and Option Agreement between Norgold Resources (US) Inc. and Asarco Incorporated dated January 30, 1989, duly executed by Norgold. These agreements are delivered subject to obtaining the consent of Western Building which we hope to have this week.

Delivery of the agreements is also subject to our understanding that Asarco will drill the reasonably prospective targets on the property prior to compiling the feasibility study.

We confirm that you will contact the writer this week to confirm a two day period in early January during which time the writer and Christopher Moat will be able to meet with you and other senior officers of Asarco in New York to discuss financing.

Please note for future reference the following change of address for Norgold:

NORGOLD RESOURCES INC.
206 - 475 Howe Street
Vancouver, British Columbia
V6C 3B3
Telephone No.: (604) 681-5566 (unchanged)
Facsimile No.: (604) 687-8789

Thank you for your assistance in this matter.

Yours very truly,

RAND EDGAR & SEDUN

Brian D. Edgar

BDE:vb
cc: Mr. Gerry Haggard
0003V

RECEIVED
DEC 7 1989

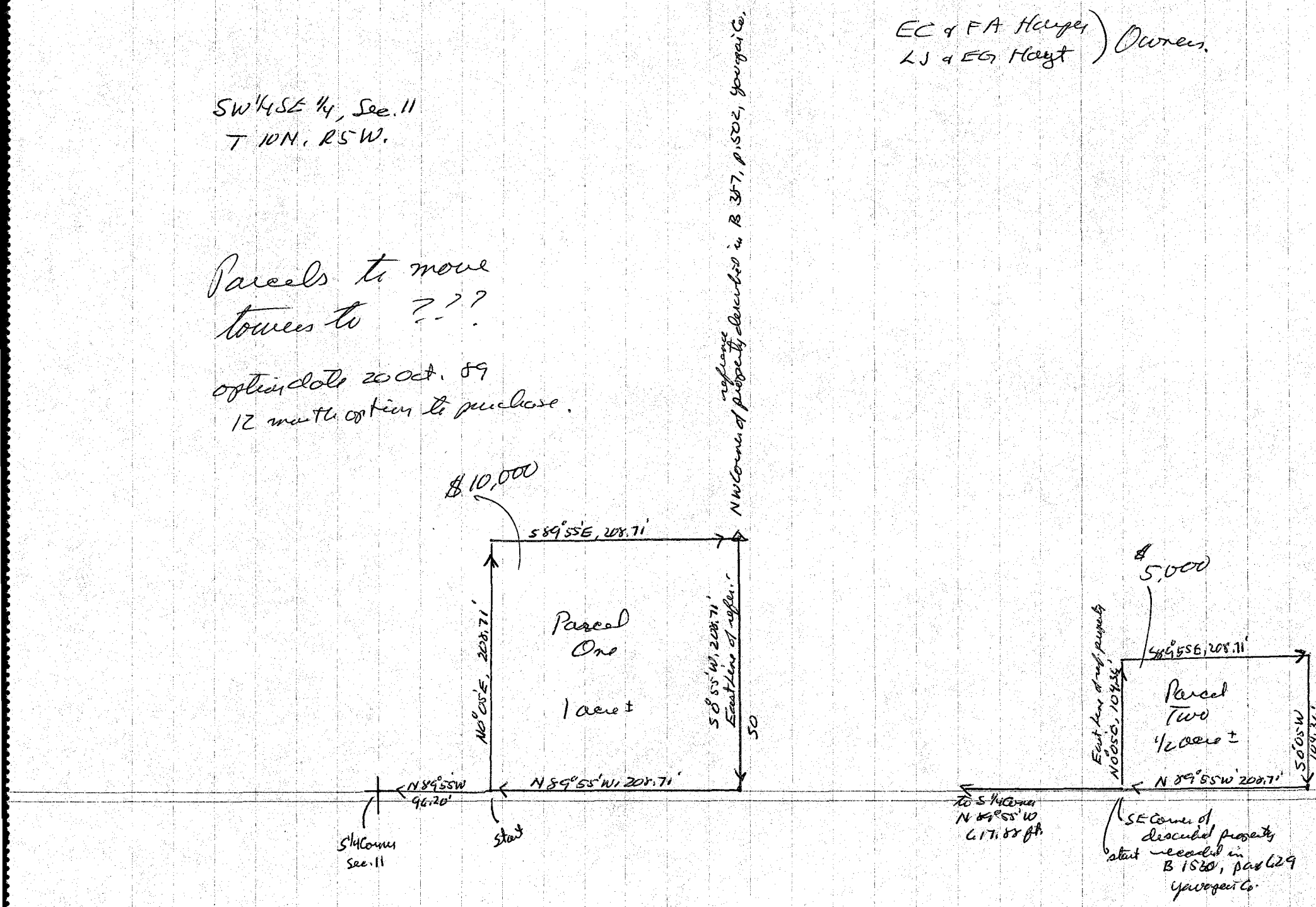
*Carrying on business through a personal law corporation

SW¼SE¼, Sec. 11
T 10N, R5W.

EC & FA Harper
LJ & EG Hayt) Owners.

Parcels to move towards ???

option date 20 Oct. 89
12 month option to purchase.



J. Sell
12/6/89

ASARCO

Southwestern Mining Department

Y-3.0

RECEIVED
DEC 18 1989
EXPLORATION DEPARTMENT

December 6, 1989

MEMORANDUM

TO: T. E. Scartaccini

FROM: S. L. Lakosky

RE: Yarnell Project Activity Chart - November, 1989

Attached is the Yarnell Project Activity Chart showing progress through November, 1989.

As of this writing, the Norgold Agreements still have not been consummated.

During the month, the Exploration Department submitted and received approval of a supplemental exploration appropriation to cover the remaining Exploration Department costs, land costs, and Mining Department costs through completion of the Yarnell Project feasibility study, due by the end of February 1990.

Initial metallurgical testing of the Yarnell material at McClelland Laboratories in Reno, Nevada has yielded the following results:

Crushed Size	Leaching Test (Stopped After)	Indicated Recovery
6"	100 days	48%
2"	90 days	62%
3/8"	80 days	71%

The tail assay screen analysis of all three (3) crushed sizes should be completed in December, and absolute recoveries determined. Intermediate metallurgical testing of low grade material (approximately 0.015 opt Au) began in November and should be completed in late January, 1990.

Channel samples of existing mill tailings material already on the property, indicate that the residual gold content of the tailings is too low to allow further economic gold recovery by additional heap leaching.

Ore and waste haul profiles have been calculated for the project and budgetary contract mining and primary crushing costs (+/- 25%) have been received from six (6) contractors.

The pre-feasibility study by Kilborn Engineering was initiated on November 21, 1989 with a site visit to the Yarnell property, followed by an organizational meeting at the Tucson Office on November 22, 1989. Kilborn's main objective is to provide capital and operating costs for the fine crushing, leaching, adsorption, desorption and refining facilities. Their final draft is scheduled for completion on December 22, 1989.

In late December, a combination of in-house and Kilborn generated operating costs will be used to run an updated economic pit inventory. An intermediate feasibility study will then be conducted in early January, 1990.

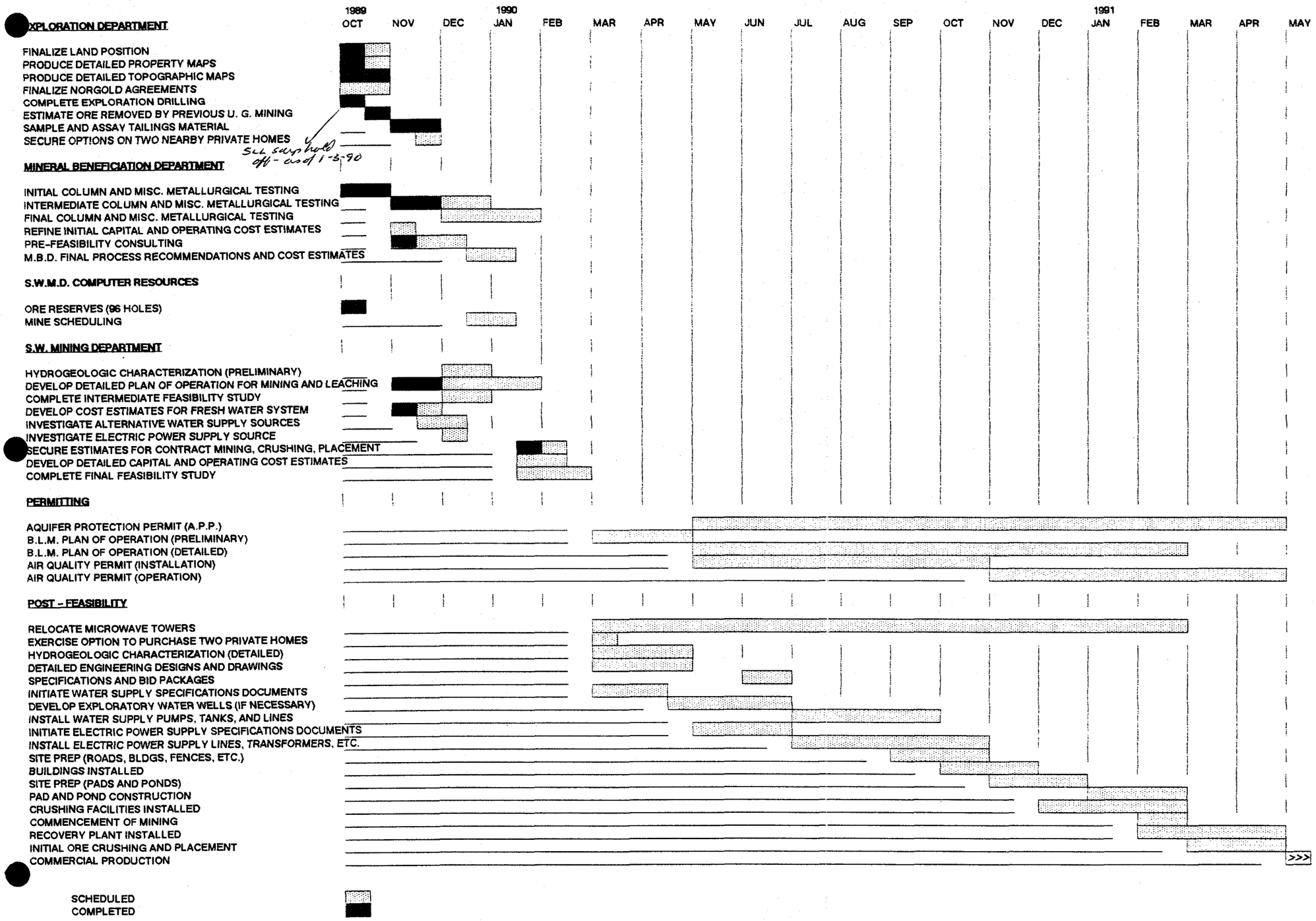
S. L. Lakosky
S. L. Lakosky
Yarnell Project Manager

SLL/kh

cc: RJKupsch - w/attach.
RLBrown - w/attach.
WLKurtz - w/attach.
JDSell[redacted] - w/attach.
DECrowell- w/attach.
PJMaley - w/attach.

YARNELL PROJECT ACTIVITY CHART

PROGRESS THRU NOV. 1989



SCHEDULED
COMPLETED

From: W. D. Gay

To: J. D. Sell

Attached is J. Haggard's thoughts on YX-1 & YX-2 Will discuss our response to D. Jenkins after you have had a chance to read this.

Bill

LAW OFFICES OF
APKER, APKER, HAGGARD & KURTZ, P.C.
A PROFESSIONAL CORPORATION
PARK ONE
2111 EAST HIGHLAND AVENUE, SUITE 230
PHOENIX, ARIZONA 85016
AREA CODE 602 TELEPHONE 381-0085

BURTON M. APKER*
JERRY L. HAGGARD**
DAVID B. APKER***
GERRIE APKER KURTZ
JOHN R. FITZPATRICK

*ALSO ADMITTED IN WISCONSIN
**ALSO ADMITTED IN DISTRICT OF COLUMBIA AND KANSAS
***ALSO ADMITTED IN COLORADO

MAILING ADDRESS
P. O. BOX 10280
PHOENIX, ARIZONA 85064-0280

TELECOPIER
(602) 956-3457

December 6, 1989

VIA FAX

Mr. W. D. Gay
Land Engineer
ASARCO Incorporated
Southwestern Exploration Department
P.O. Box 5747
Tucson, Arizona 85703

Re: Yarnell Project; YX-1 and YX-2 Conflicting Claims

Dear Mr. Gay:

By letter dated October 5, 1989, Don L. Jenkins has raised a question regarding a conflict between his YX-1 and YX-2 claims and ASARCO's YAR 7, YAR 35-39, Y-6 and Y-7 claims. The following are the location dates for the above-mentioned claims:

Claim Name	Location Date
Y-6	August 8, 1988
Y-7	August 8, 1988
YX-1	January 15, 1989
YX-2	February 1, 1989
YAR 7	March 15, 1989
YAR 35	June 6, 1989
YAR 36	June 6, 1989
YAR 37	June 6, 1989
YAR 38	June 6, 1989
YAR 39	June 6, 1989

The location monument for YX-1 is located within the boundaries of Y-6 and YAR 37 and portions of YX-1 are located within the boundaries of YAR 35, YAR 36, YAR 37, Y-6 and Y-7. The locaton monument and the entirety of YX-2 are located within the

boundaries of YAR 7 and YAR 39. For purposes of this question, we assume that mineral discoveries could be established within each of the above claims as of the dates of location. You believe that the location monument and location notice were placed on the YX-1 claim on or about the date of location, January 15, 1989. There were no boundary monuments visible on the YX-1 claim until new corners appeared some time during October, 1989. There are no visible location monument, location notice or boundary monuments on the YX-2 claim.

It has generally been believed that, in Arizona, the location monument must be erected and the location notice must be posted on land open for location. This is because the applicable statute had provided that a mining claim must be located by "erecting [the location monument] at or contiguous to the point of discovery". A.R.S. § 27-202A (1976). The point of mineral discovery must be on open public domain and cannot be within the boundaries of a prior claim. A.R.S. § 27-201; Shattuck v. Costello, 8 Ariz. 22, 68 P. 529 (1902); 2 Am. L. of Mining 35.09[2][c]. Therefore, it was probably correct under the prior statute that the location monument and notice must have been on open public land because they must have been at or contiguous to the point of discovery. However, A.R.S. § 27-202 was amended in 1978 eliminating the requirement for the location monument and notice to be at or contiguous to the point of discovery and requiring only that the location monument and notice be placed on the center line within the boundaries of the claim. Therefore, it is not likely that a challenge to a mining claim would be successful on the basis that the location monument and notice were positioned within a prior location and the fact that the location monument for YX-1 is located on the senior Y-6 claim would probably not affect the validity of the YX-1 claim. Nevertheless, it continues to be the preferable practice, to avoid questions being raised, to place the location monument and notice on open public domain.

The statute allows 90 days after the date of location within which to erect the boundary monuments. A.R.S. § 27-203A(2). It is generally held that, if a locater fails to mark the boundaries within the period required by state law, the land is subject to relocation by another person entering peaceably without notice of the prior location so long as that relocation is before the original locater erects the boundary monuments. 2 Am. L. Mining § 33.04[3]. Therefore, if it could be proved that the boundary monuments for the YX-1 claim were not erected by the time the YAR 35, 36 and 37 claims were located on June 6, 1989, and if ASARCO had no notice of the YX-1 claim at the time of the YAR claim locations, the parts of the YX-1 claim overlapping those YAR

claims should be held invalid. The YAR 7 claim would probably be held invalid as to the land occupied by YX-2 claim because YAR 7 was located on March 15, 1989 during the ninety day period within which the boundary monuments could have been placed on the YX-2 claim. If no boundary monuments were erected on the YX-2 claim prior to the location of the YAR 39 claim on June 6, 1989, and if ASARCO had no notice of the YX-2 claim, the YX-2 claim should be held invalid.

It must be recognized, however, that it is difficult to prove a negative fact, i.e., that boundary monuments were not erected within the time allowed. Further, in any claim dispute, the evidence of the senior locater is generally considered in the most favorable light.

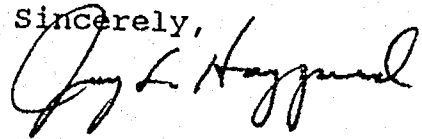
The only defects in the location notices for the YX-1 and 2 claims are that the map for each claim does not contain the name of the county in which the claims were located or the type of corner location monuments used. Although the statute, A.R.S. § 27-203.E., states mandatorily that this information must be included, it is not likely that a court would find those omissions to be substantial defects in the locations.

Finally, the Option Agreement dated September 16, 1988 between Jenkins and Norgold contains no area of interest provision or other provision which would restrict Jenkins from claiming sole ownership of any mining claims he locates in the area. Although we have not researched this question, there may be some authority for an implied fiduciary relationship arising either from Jenkins being a party to that agreement or being a shareholder in Norgold.

If the land covered by the YX-1 and YX-2 claims is important to ASARCO, consideration might be given to discussing with Mr. Jenkins the defects in the YX-1 and YX-2 claims and proposing a solution both to this conflict and to preclude future conflicts from arising in the Yarnell Project area.

Please let us know if you have any further questions regarding this situation.

Sincerely,



Jerry L. Haggard
For APKER, APKER, HAGGARD
& KURTZ, P.C.

JLH/jb

cc: James L. Woods, Esq.

12/7/89

Jim,
The Attached Report.
Details YM-71 85-90'

This was a very nice sample in the Yarnell fault zone (1.05 opt Au) I was able to pan significant V.G in this sample & I sent it to Russ for his Analysis

Mark

Re: Polished Section Mineralogy
December 7, 1989.
Russell M. Honea

FILE
JDS

PAYDIRT MINING

6621 N. Scottsdale Road • Scottsdale, Az. 85253 • (602) 991-5457 or 951-1743 FAX: (602) 483-1382

Button Mine
Yavapai Co., AZ

ASARCO Incorporated
DEC 6 1989
SW Exploration

December 7, 1989

Minnehaha Dist
prob. in SW¼ of
T10N, R1W

Mr. J. D. Sell
ASARCO
P. O. Box 5747
Tucson, Az. 85703

Dear Mr. Sell:

We have the Button Mine located east of Yarnell, Arizona on the Kirkland Juction - Wagner road. The property consist of 63 mining claims, 1260 acres.

There is reason to beleive the property does have very good potential. The structure we have given most of our attention to is 7,500 feet long, 6 to 8 feet wide. The old (1906) Button Mine was mined below the 400 foot level. We have two portals and are drifting on the vein on two levels, 300 feet of drift on the B level averaged over ½ ounce per ton.

We have a mill and lab on the property where we can run 50 TPD, we have produced and sold to Engelhard Metals our doré bars over the past 3 years, we would now like to increase our volume and do drilling to establish the depth of the ore.

We would be interested in selling or developing a relationship with a joint venture partner for the continued development of the property.

I look forward to hearing from you,

Very truly yours,

Marcus Bishop

Marcus Bishop, President

cc: M A Miller ✓ done
J D Rasmussen ✓ done

From: W. D. Gay 12-7-89

To: MARY K.

Diamond drill hole YDDH-3. The elevation should be 5045.4

NOT 5049.1

W.D.G.

To: W.L. Kurtz 12/20/89
J.D. Sell
L.J. Jansen
D.A. Melhado
W.D. Gay
S.L. Lakosky

Attached is copy of page 102 of computer list with change as requested above.

Mary K.

DIAMOND DRILL HOLES

YDDH-1	100,715.1	49,740.7	4,956.8
YDDH-2	100,507.1	49,510.8	5,024.3
YDDH-3	100,316.1	49,723.0	5,045.4
YDDH-4	100,100.8	49,224.2	4,879.9

David J. Green-Lee

Black Wike No. 3. B 153, p. 393 AMC 72445

88 - 12-27, Affid of Annual Work ○ yes. & BLM Stamps
87 - 12-28. " " " " ○ " " "
86 - 12-29. " " " " ○ " " "
85, Dec. 29. Quit Claim Deed from David G. Cope TO
David J. Green-Lee Black Wike #3. yes sir! BLM Stamp.
85, Dec. 29. Affid of Annual Work David G Cope yes & BLM Stamp.
84 - 8-31 " " " " " " " " " "
83 - 10-26 " " " " " " " " " "
82 - 9-3 " " " " " " " " " "
81 - Aug 27. " " " " for: Black Wike #3 Gold Ridge " only
80 - 11-28 " " " " " " " "
80 - 5-19 Quit-claim from Leonard G Cope to David G Cope of Black Wike #3
79 - 10-3 " " " " for Leonard G Cope "
Nothing for Leonard Cope or David Cope

78 - 2-6 Quit-Claim Deed from David J Green-Lee & Dorthey M. Green-Lee H/W to Leonard G Cope.
Selling Black Wike #3 for 10% ownership Black Wike No 1, 2, 4, Black Wike Ext. No. 1, 2, 3, 4, and Gold Ridge sold to Leonard G. Cope. 18 July '78
68 - Aug 20 Affid of Labor Black Wike 1, 2, 3, & 4. yes stamp
for Clyde Fulcher & James Leonard Fry.
67 - Aug 4 " " " " " "
" " " " " " " " yes. Stamp.
66 - Aug 14 as above except (BD 1, 2 & 3) " "
65 - Aug 9 as above " " " " "
64 - July 4 as above " " " " "
60, Aug 8 as above " " " " "
59 July 29 as above (BD 1, 2, 3, 4, 5 + 8) " "
58 May 23 " " " " " " & " " "

for Reg-Nov

54 Nov 15 Affs Labor Clyde Fulcher & James Leonard Fry Black Duke 1, 2, 3, 4, 5 & 8 Year Start.

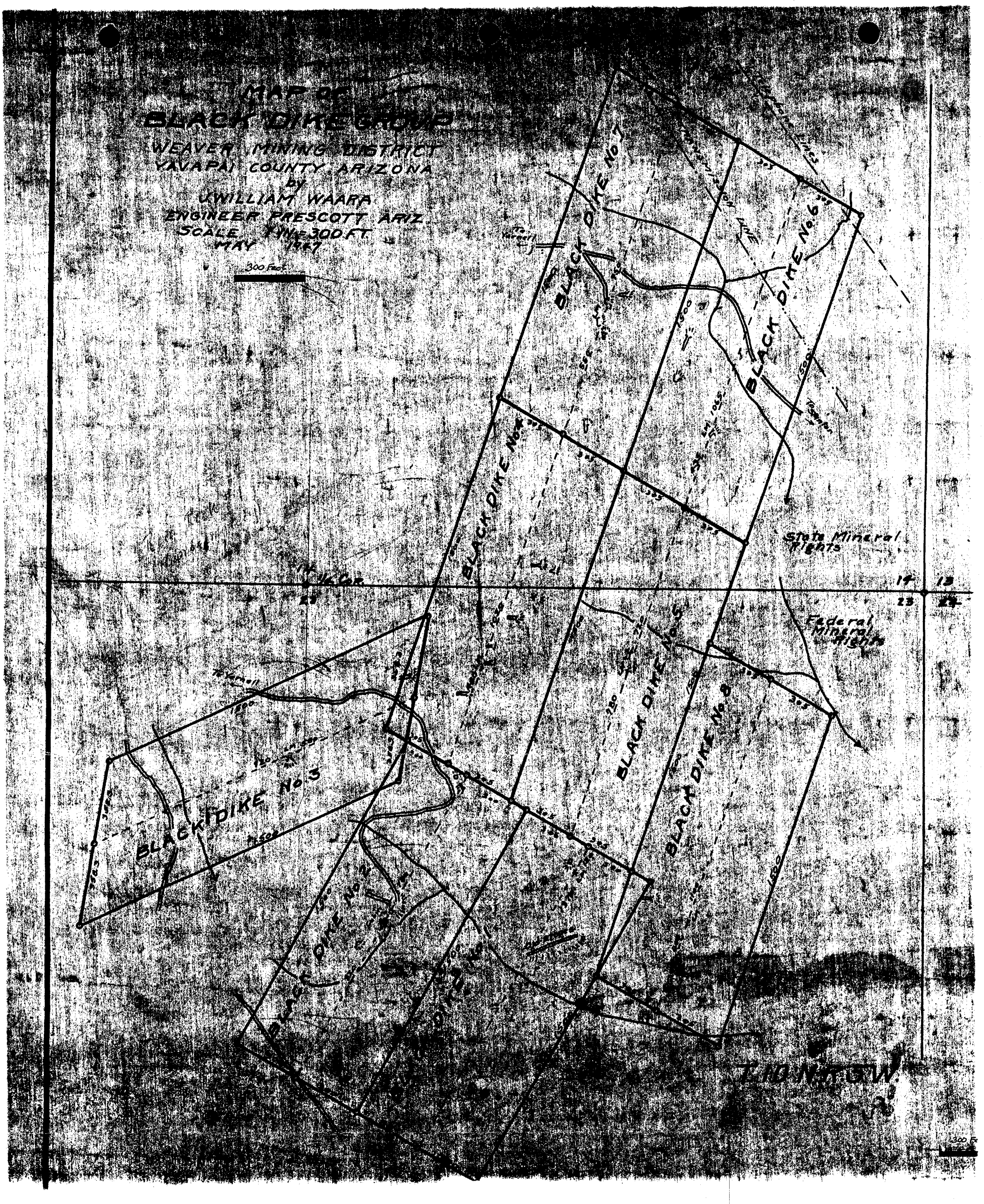
for 53-54

54 June 15 " only dist 300 of work (in BD 1, 2 & 3.) other added in later!! " "

53 June 29 " Black Duke 1, 2, & 3 " "

48 May 21 " BD 1, 2, 3, 4, 5, & 8 "

47 Jan 25 Notice of Mining Locators Black Duke No 3, Clyde Fulcher & James L Fry.



Reduced Print

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AREA CODE 602 TELEPHONE 381-0085

BURTON M. APKER*
JERRY L. HAGGARD**
DAVID B. APKER***
GERRIE APKER KURTZ
JOHN R. FITZPATRICK

*ALSO ADMITTED IN WISCONSIN
**ALSO ADMITTED IN DISTRICT OF COLUMBIA AND KANSAS
***ALSO ADMITTED IN COLORADO

MAILING ADDRESS
P. O. BOX 10280
PHOENIX, ARIZONA 85064-0280

TELECOPIER
(602) 956-3457

December 8, 1989

ASA... RECEIVED
DEC 1 1 1989
SW EXPLORATION

Mr. James D. Sell
Manager
Exploration Department
Southwestern United States Division
ASARCO Incorporated
P.O. Box 5747
Tucson, Arizona 85703

Dear Mr. Sell:

In response to your December 1, 1989 letter, there are enclosed a short form of Purchase Agreement, Quit Claim Deed and Notice of Transfer of Interest for the purchase of the Black Dike No. 3 unpatented mining claim from Mr. and Mrs. Green-Lee. The Purchase Agreement (primarily for the purpose of acknowledging the amount of the full purchase price and receipt thereof) may be executed at the same time the Quit Claim Deed is executed and payment is made. You are reminded that a $5.00 filing fee is now required for filing a Notice of Transfer of Interest in the BLM and you will, of course, record the executed Quit Claim Deed.

Sincerely,

Jerry L. Haggard

Jerry L. Haggard
For APKER, APKER, HAGGARD
& KURTZ, P.C.

JLH/jb
Enclosures

RLB – Yarnell (via WLK 12-11-89)

1) Map Yarnell flt clear across property. Think w/ mom, where other open pit zones might be on property. as ti's w etc. 2) knob

2) Heap leach sites mapped. Waste dumps mapped to declare them non-mineral in character, ie convert to millsites. Hassard needs to review clause at Lasters on patented & revert 1/2 to Lasters.

? need to drill condemnation holes ?

JDS

ASARCO

S.W. MINING DEPT.
DEC 18 1989
TUCSON

Exploration Department
R. L. Brown
Vice President

December 14, 1989

Mr. Tom Scartaccini
General Manager
Southwestern Mining Dept.

Yarnell Project

Dear Tom:

I have my copy of Jerry Haggard's November 28 letter to Jim Sell, copies of which were made for Mr. Lakosky. Jerry Haggard's letter reminds me that there were a number of loose ends in land work which do need to be tidied up as follows:

Pennsylvania Claim. The Pennsylvania claim is the only unpatented land now forecast to come within the ultimate pit outlines of an open pit. We have made valid discoveries on the claim which stand a prudent man test. Mining on a claim as you well know can proceed whether or not the claim is patented or unpatented, and some patents are granted not months but years after the original application is made. On the other hand if the land involved in the mine plan is all patented, the federal government is taken out of the permitting process at least in respect of the open pit mine area. That fact, plus the aspects of absolute tenure which come with a patent, suggest that the Pennsylvania should be brought to patent.

Unless you have a contrary opinion, we will immediately begin the process of bringing the Pennsylvania claim to patent. Mr. Haggard thinks that since the Yarnell area is completely non-controversial, the claim is clearly patentable, and since there is only one claim involved, the patent might be issued reasonably expeditiously and before some of the other necessary permits.

Victoria Claims. The Victoria claims are held under option from a Mrs. Prescilla Layden, who has no economic or royalty interest in the ore body. Current practice now requires that leach dumps and waste dumps be placed on mill sites, as Mr. Haggard indicates in his letter. To locate mill sites we must first demonstrate the unlikelihood of marketable mineral and abandon mining claims on areas

on which mill sites will be located after the final location of dump sites is established. The underlying Layton agreement requires that we diligently explore. If it is decided to place dumps on claims owned by the Laydens, she will have to be bought out completely, including any royalties, and mill sites substituted for current mining claims. The cost of such a buy-out, I understand, is $250,000.

If instead of making this expenditure it is decided to put dumps on the claims located by Asarco, our intention then would be to substitute mill sites for in the area so picked and to abandon those mining claims. Geologic mapping on all proposed dump sites now known to us is either in progress or completed. Claims optioned from Western Materials, which does have an economic interest in the ore body, can be abandoned after mill sites are substituted for them.

Mr. Sell will be keeping in close touch with Mr. Lakosky so that he can take the appropriate steps when the final mine layout is made. In the meanwhile we will proceed, unless as I have said, you have an alternate suggestion to make, to bring the Pennsylvania claim to patent.

Yours very truly,

R. L. Brown

RLB:mc

cc: T. C. Osborne
R. J. Kupsch
S. L. Lakosky, Jr.
W. L. Kurtz
J. L. Woods
J. L. Haggard

ASARCO

Exploration Department
Southwestern United States Division

December 15, 1989

Mr. Christopher Moat, President
Norgold Resources, Inc.
2380 Harbour Centre
P. O. Box 12122
555 West Hastings Street
Vancouver, B.C. Y6B 4N6
CANADA

Mining Claim Annual Recordation
Yarnell Project
Yavapai County, AZ

Dear Mr. Moat:

Enclosed for your records are copies of all letters concerning annual assessment work sent to the Yavapai County Recorder's office and the State Director of Bureau of Land Management.

All state and federal requirements for assessment work and filing on unpatented claims for the Yarnell Project have been met for 1989.

Very truly yours,

W. D. Gay

W. D. Gay
Land Engineer

WDG/gb

Encls.

cc: WLK - (w/o encls.)
JDS - (w/o encls.)
SLL - (w/o encls.)

R. L. Brown -

ASARCO Incorporated P. O. Box 5747 Tucson, Az 85703-0747
1150 North 7th Avenue (602) 792-3010

12-15-89

FROM: J. D. SELL

TO: John

hold off cutting any more core

Photo all of it tho. -

Jim

MAM assay 1/2 core divides up in to intervals.

1st finish
2nd closes

home ph = 325-4569.

McCLELLAND LABORATORIES, INC.

1016 Greg Street, Sparks, Nevada 89431 702 / 356-1300
FAX 702 / 356-8917

TO: MR. BILL KURTZ
ASARCO

DATE: 12/15/89

FAX #: (602) 792-3934

FROM: GENE McCLELLAND

SUBJECT: YARNELL SCREEN ANALYSIS DATA

BILL: ATTACHED ARE HEAD SCREENS FOR ALL 3 FEED SIZES, TAIL SCREEN AND RECOVERY BY SIZE FRACTION DATA FOR THE 3/8" FEED.

TAIL SCREEN DATA FOR THE TWO COARSER FEED SIZES SHOULD BE AVAILABLE BEFORE CHRISTMAS.

Thanks,
Gene

RECEIVED
DEC 18 1989
EXPLORATION DEPARTMENT

cc: J.D. Sell
12/18/89

In association with H.J. Heinen and R.E. Lindstrom

TABLE - HEAD SCREEN ANALYSIS, YARNELL H.G./L.G., 6"

SIZE FRACTION	WEIGHT, PERCENT	CUM. WT., PCT	ASSAYS, OZ AU/TON	AU DISTRIBUTION PERCENT	AU DISTRIBUTION CUM. PCT.
+6"	23.4	23.4	0.065	28.7	28.7
-6+4"	27.7	51.1	0.054	28.3	57.0
-4+2"	21.7	72.8	0.051	21.0	78.0
-2+1"	14.4	87.2	0.059	10.6	88.6
-1+3/4"	2.9	90.1	0.042	2.3	90.9
-3/4+1/2"	2.4	92.5	0.030	1.3	92.2
-1/2+1/4"	2.4	94.9	0.058	2.6	94.8
-1/4+10M	2.3	97.2	0.043	1.9	96.7
-10+20M	0.8	98.0	0.032	0.6	97.3
-20+35M	0.5	98.5	0.051	0.6	97.9
-35+65M	0.4	98.9	0.067	0.6	98.5
-65M	1.1	100.0	0.070	1.5	100.0
COMPOSITE	100.0		0.053	100.0	

TABLE - HEAD SCREEN ANALYSIS, YARNELL H.G./L.G., 2"
SAME HEADINGS

+2"	38.5	38.5	0.047	36.4	36.4
-2+1"	34.9	73.4	0.045	31.5	67.9
-1+3/4"	5.2	78.6	0.040	4.2	72.1
-3/4+1/2"	4.7	83.3	0.051	4.8	76.9
-1/2+1/4"	4.5	87.8	0.045	4.0	80.9
-1/4+10M	4.6	92.4	0.046	4.2	85.1
-10+20M	2.1	94.5	0.037	1.6	86.7
-20+35M	1.5	96.0	0.042	1.2	87.9
-35+65M	1.1	97.1	0.065	1.4	89.3
-65M	2.9	100.0	0.184	10.7	100.0
COMPOSITE	100.0		0.050	100.0	

DEC 18 1989

EXPLORATION DEPARTMENT

TABLE . - HEAD SCREEN ANALYSIS, YARNELL H.G./L.G. COMP., 3/8"

SIZE FRACTION	WEIGHT, PERCENT	CUM. WT., PCT	ASSAYS, OZ AU/TON	AU DISTRIBUTION, PERCENT	AU DISTRIBUTION, CUM. PCT
+3/8"	28.6	28.6	0.076	36.9	36.9
-3/8+1/4"	17.5	46.1	0.048	14.3	51.2
-1/4+10M	28.2	74.3	0.057	27.4	78.6
-10+20M	9.2	83.5	0.036	5.6	84.2
-20+35M	5.9	89.4	0.048	4.7	88.9
-35+65M	3.7	93.1	0.074	4.6	93.5
-65M	6.9	100.0	0.055	6.5	100.0
COMPOSITE	100.0		0.059	100.0	

TABLE . - TAIL SCREEN ANALYSIS, YARNELL H.G./L.G. COMP., 3/8"

SAME HEADINGS

+3/8"	33.3	33.3	0.017	45.2	45.2
-3/8+1/4"	16.7	50.0	0.014	18.2	63.4
-1/4+10M	25.3	75.3	0.012	23.8	87.2
-10+20M	8.7	84.0	0.007	4.8	92.0
-20+35M	5.7	89.7	0.009	4.0	96.0
-35+65M	2.6	92.3	0.006	0.8	96.8
-65M	7.7	100.0	0.005	3.2	100.0
COMPOSITE	100.0		0.013	100.0	

TABLE . - RECOVERY BY SIZE FRACTION DATA, H.G./L.G., 3/8"

SIZE FRACTION	WEIGHT PERCENT HEAD	WEIGHT PERCENT TAIL	ASSAYS, OZ AU/TON HEAD	ASSAYS, OZ AU/TON TAIL	AU RECOVERY, PERCENT
+3/8"	28.6	33.3	0.076	0.017	77.6
-3/8+1/4"	17.5	16.7	0.048	0.014	70.8
-1/4+10M	28.2	25.3	0.057	0.012	78.9
-10+20M	9.2	8.7	0.036	0.007	80.6
-20+35M	5.9	5.7	0.048	0.009	81.2
-35+65M	3.7	2.6	0.074	0.006	91.9
-65M	6.9	7.7	0.055	0.005	90.9
COMPOSITE	100.0	100.0	0.059	0.013	78.0

McCLELLAND LABORATORIES, INC.

1016 Greg Street, Sparks, Nevada 89431 702 / 356-1300
FAX 702 / 356-8917

TO: Mr. Bill Kurtz
ASARCO

DATE: 12/15/89

FAX #: (602) 792-~~2010~~ 3934

FROM: GENE McCLELLAND

SUBJECT: Yarnell column data

BILL: TOO MANY INTERRUPTIONS TODAY.

I WILL SEND SCREEN ANALYSIS DATA FOR THE 3/8" FEED LATER TODAY.

thanks,
Gene

RECEIVED
DEC 18 1989
EXPLORATION DEPARTMENT

cc: J.D. Sell
12/18/89

In association with H.J. Heinen and R.E. Lindstrom

RECEIVED

DEC 18 1989

EXPLORATION DEPARTMENT

1378-P2

							oz/ton Au	oz/ton Ag
POUNDS	966.67							
ASSAY TONS	15033.	NaCN added	1113 g	LIME	0 lb/t	Tail	0.013	0.000
TONS	0.483	NaCN Con.	0.56 lbm/t	CEMENT	10 lb/t	head assay		
						head screen	0.059	0.000

DAILY COLUMN LEACH DATA: HIGH GRADE/LOW GRADE COMP.
-3/8" FEED SIZE

	Preg. Solution			Solution Analysis				Au Ext.		Ag Ext.					
		NaCN		preg		barren		Au	Au	Ag	Ag		Au		Ag
Days	Vol.	Conc.		Au	Ag	Au	Ag	Cum.	Cum.	Cum.	Cum.	Au	cum.	Ag	cum.
leached	l.	lb/ton	pH	ppm	ppm	ppm	ppm	oz/t	%	oz/t	%	mg	mg	mg	mg
42	20.74	1.9	11.5	0.16	0.00	0.00	0.00	0.0389	70.7	0.0022	0.0	3.318	585.26	0	33.371
43	18.32	1.8	11.5	0.12	0.00	0.00	0.00	0.0391	71.1	0.0022	0.0	2.198	587.46	0	33.371
REST	0.00	0.0	0.0	0.00	0.00	0.00	0.00	0.0391	71.1	0.0022	0.0	0	587.46	0	33.371
51	18.26	1.6	11.3	0.20	0.04	0.00	0.00	0.0393	71.5	0.0023	0.0	3.652	591.11	0.73	34.101
52	20.80	1.8	11.4	0.24	0.00	0.00	0.00	0.0397	72.2	0.0023	0.0	4.992	596.10	0	34.101
REST	0.00	0.0	0.0	0.00	0.00	0.00	0.00	0.0397	72.2	0.0023	0.0	0	596.10	0	34.101
54	20.88	1.9	11.3	0.20	0.04	0.00	0.00	0.0399	72.5	0.0023	0.0	4.176	600.28	0.835	34.936
55	19.34	1.7	11.5	0.12	0.00	0.00	0.00	0.0401	72.9	0.0023	0.0	2.321	602.60	0	34.936
56	20.38	1.8	11.5	0.08	0.00	0.00	0.00	0.0402	73.1	0.0023	0.0	1.63	604.23	0	34.936
57	18.66	1.8	11.4	0.12	0.00	0.00	0.00	0.0403	73.3	0.0023	0.0	2.239	606.47	0	34.936
58	16.42	1.9	11.3	0.08	0.04	0.00	0.00	0.0404	73.5	0.0024	0.0	1.314	607.78	0.657	35.593
59	23.60	1.9	11.4	0.16	0.00	0.00	0.00	0.0407	74.0	0.0024	0.0	3.776	611.56	0	35.593
60	18.52	1.8	11.5	0.12	0.00	0.00	0.00	0.0408	74.2	0.0024	0.0	2.222	613.78	0	35.593
61	20.52	1.9	11.4	0.12	0.04	0.00	0.00	0.0410	74.5	0.0024	0.0	2.462	616.24	0.821	36.414
62	21.10	1.8	11.4	0.08	0.00	0.00	0.00	0.0411	74.7	0.0024	0.0	1.688	617.93	0	36.414
REST	0.00	0.0	0.0	0.00	0.00	0.00	0.00	0.0411	74.7	0.0024	0.0	0	617.93	0	36.414
WASH	18.22	1.8	11.3	0.12	0.04	0.00	0.00	0.0412	74.9	0.0025	0.0	2.186	620.12	0.729	37.143
66	19.42	0.9	11.4	0.12	0.04	0.00	0.00	0.0414	75.3	0.0025	0.0	2.33	622.45	0.777	37.92
67	20.08	0.6	11.5	0.08	0.00	0.00	0.00	0.0415	75.5	0.0025	0.0	1.606	624.05	0	37.92
68	18.70	0.4	11.5	0.08	0.00	0.00	0.00	0.0416	75.6	0.0025	0.0	1.496	625.55	0	37.92
69	20.30	0.3	11.6	0.12	0.00	0.00	0.00	0.0418	76.0	0.0025	0.0	2.436	627.98	0	37.92
70	21.28	0.1	11.5	0.08	0.00	0.00	0.00	0.0419	76.2	0.0025	0.0	1.702	629.69	0	37.92
71	18.94	0.2	11.5	0.04	0.00	0.00	0.00	0.0419	76.2	0.0025	0.0	0.758	630.44	0	37.92
72	17.72	0.2	11.3	0.04	0.00	0.00	0.00	0.0420	76.4	0.0025	0.0	0.709	631.15	0	37.92
73	20.52	0.1	11.3	0.04	0.00	0.00	0.00	0.0420	76.4	0.0025	0.0	0.821	631.97	0	37.92
74	20.04	0.1	11.3	0.04	0.00	0.00	0.00	0.0420	76.4	0.0025	0.0	0.802	632.78	0	37.92
75	19.28	0.1	11.3	0.00	0.00	0.00	0.00	0.042	76.4	0.0025	0.0	0	632.78	0	37.92
76	19.16	0.1	11.2	0.00	0.04	0.00	0.00	0.042	76.4	0.0026	0.0	0	632.78	0.766	38.686
77	13.66	0.1	10.8	0.00	0.00	0.00	0.00	0.042	76.4	0.0026	0.0	0	632.78	0	38.686
78	23.38	0.0	11.3	0.04	0.00	0.00	0.00	0.042	76.4	0.0026	0.0	0.935	633.71	0	38.686
79	19.14	0.0	11.3	0.04	0.00	0.00	0.00	0.042	76.4	0.0026	0.0	0.766	634.48	0	38.686
END	0.00	0.0	0.0	0.00	0.00	0.00	0.00	0.0420	76.4	0.0026	0.0	0	634.48	0	38.686

TABLE . OVERALL METALLURGICAL RESULTS, COLUMN LEACH TESTS, YARNELL H.G./L.G. COMPOSITE

METALLURGICAL RESULTS	FEED SIZE, INCH		
EXTRACTION: PCT TOTAL AU	6	2	1/2
1ST EFFLUENT	2.9	4.2	12.5
IN 10 DAYS	12.5	22.2	45.8
15	17.3	34.2	54.9
20	21.9	41.6	60.4
25	25.2	46.6	64.0
30	28.3	50.6	66.5
40	33.7	56.0	70.0
50	39.2	56.8	71.1
70	46.3	66.0	76.2
79	N/A	N/A	76.4
90	50.2	70.6	N/A
100	51.7	72.0	N/A
END OF LEACH	53.8	72.0	76.4
EXTRACTED, OZ AU/TON ORE	0.028	0.036	0.042
TAIL SCREEN, OZ AU/TON	0.024*	0.014*	0.013
CALCULATED HEAD, OZ AU/TON ORE	0.052	0.050	0.055
HEAD SCREEN, OZ AU/TON ORE	0.053	PENDING	0.059
CYANIDE CONSUMED, lb/TON ORE	1.99	1.52	0.56
LIME ADDED, lb/TON ORE	10.0	10.0	10.0 (CEMENT)
FINAL SOLUTION pH	10.6	11.5	11.3
LEACH/WASH CYCLE, DAYS	111	102	79

* AVG. OF 20 DIRECT TAIL ASSAYS - TAIL SCREENS PENDING

1378-P1

							oz/ton Au	oz/ton Ag
POUNDS	4800							
ASSAY TONS	7464B.	NaCN added	7600 g	LIME	10 lb/t	Tail	0.024	0.000
TONS	2.4	NaCN Con.	1.99 lbm/t	BASE	0 lb/t	head assay	0.063	0.000
						head screen	0.053	0.000

DAILY COLUMN LEACH DATA: HIGH GRADE/LOW GRADE COMP.
6" FEED SIZE

Days leached	Preg. Solution Vol. l.	NaCN Conc. lb/ton	pH	Solution Analysis preg Au ppm	preg Ag ppm	barren Au ppm	barren Ag ppm	Au Ext. Au Cum. oz/t	Au Cum. %	Ag Ext. Ag Cum. oz/t	Ag Cum. %	Au mg	Au cum. mg	Ag mg	Ag cum. mg
1	0.00	0.0	0.0	0.00	0.00	0.00	0.00	0.0000	0.0	0.0000	0.0	0	0	0	0
2	0.00	0.0	0.0	0.00	0.00	0.00	0.00	0.0000	0.0	0.0000	0.0	0	0	0	0
3	0.00	0.0	0.0	0.00	0.00	0.00	0.00	0.0000	0.0	0.0000	0.0	0	0	0	0
4	0.00	0.0	0.0	0.00	0.00	0.00	0.00	0.0000	0.0	0.0000	0.0	0	0	0	0
5	66.82	0.8	11.3	1.64	0.08	0.04	0.04	0.0015	2.9	0.0001	0.0	109.58	109.58	5.346	5.346
6	78.64	1.6	11.7	1.44	0.08	0.00	0.00	0.0029	5.6	0.0001	0.0	110.56	220.15	3.618	8.964
7	73.48	1.7	12.0	1.08	0.04	0.00	0.00	0.0040	7.7	0.0002	0.0	79.358	299.51	2.939	11.903
8	74.62	2.0	12.0	0.84	0.04	0.00	0.00	0.0049	9.4	0.0002	0.0	62.681	362.19	2.985	14.888
9	77.74	2.2	12.0	0.88	0.04	0.04	0.00	0.0058	11.2	0.0002	0.0	68.411	430.60	3.11	17.998
10	76.50	2.0	12.0	0.80	0.04	0.04	0.00	0.0065	12.5	0.0003	0.0	58.09	488.69	3.06	21.058
11	77.44	2.0	12.0	0.72	0.04	0.00	0.00	0.0073	14.0	0.0003	0.0	52.697	541.39	3.098	24.156
12	79.32	2.0	12.1	0.68	0.04	0.00	0.00	0.0080	15.4	0.0004	0.0	53.938	595.32	3.173	27.329
REST	0.00	0.0	0.0	0.00	0.00	0.00	0.00	0.0080	15.4	0.0004	0.0	0	595.32	0	27.329
14	55.48	2.0	12.2	0.56	0.04	0.00	0.00	0.0084	16.2	0.0004	0.0	31.069	626.39	2.219	29.548
15	76.06	2.0	12.1	0.56	0.04	0.00	0.00	0.0090	17.3	0.0004	0.0	42.594	668.99	3.042	32.59
16	73.18	1.9	12.0	0.56	0.04	0.04	0.00	0.0095	18.3	0.0005	0.0	40.981	709.97	2.927	35.517
17	72.42	2.2	12.0	0.56	0.04	0.04	0.04	0.0100	19.2	0.0005	0.0	37.628	747.60	2.897	38.414
18	78.88	2.2	12.0	0.52	0.04	0.04	0.04	0.0105	20.2	0.0005	0.0	38.121	785.72	0.258	38.672
19	67.18	1.8	12.2	0.52	0.04	0.08	0.04	0.0110	21.2	0.0005	0.0	31.778	817.5	-0.468	38.204
20	78.90	1.9	12.1	0.48	0.04	0.00	0.00	0.0114	21.9	0.0005	0.0	32.498	849.99	0.469	38.673
21	76.88	2.0	12.1	0.40	0.04	0.08	0.04	0.0118	22.7	0.0006	0.0	30.752	880.75	3.075	41.748
22	79.14	2.1	12.1	0.44	0.04	0.00	0.00	0.0122	23.5	0.0006	0.0	28.671	909.42	0.09	41.838
23	77.84	2.0	11.7	0.36	0.04	0.00	0.00	0.0126	24.2	0.0006	0.0	28.022	937.44	3.114	44.952
24	72.40	2.1	12.0	0.32	0.04	0.00	0.00	0.0129	24.8	0.0006	0.0	23.168	960.61	2.896	47.848
25	43.12	2.0	12.1	0.32	0.04	0.08	0.04	0.0131	25.2	0.0007	0.0	13.798	974.40	1.725	49.573
26	79.86	1.9	12.1	0.32	0.04	0.00	0.00	0.0133	25.6	0.0007	0.0	22.106	996.51	1.47	51.043
27	76.36	1.9	12.0	0.32	0.04	0.00	0.00	0.0137	26.3	0.0007	0.0	24.435	1020.9	3.054	54.097
28	81.92	1.8	12.0	0.28	0.04	0.00	0.00	0.0140	26.9	0.0008	0.0	22.938	1043.8	3.277	57.374
29	78.40	2.0	12.0	0.32	0.04	0.00	0.00	0.0143	27.5	0.0008	0.0	25.088	1068.9	3.136	60.51
30	79.76	2.0	12.0	0.32	0.04	0.00	0.00	0.0147	28.3	0.0009	0.0	25.523	1094.4	3.19	63.7
31	77.34	2.0	12.0	0.28	0.04	0.00	0.00	0.0150	28.8	0.0009	0.0	21.655	1116.1	3.094	66.794
32	78.58	2.0	11.9	0.28	0.04	0.00	0.00	0.0152	29.2	0.0009	0.0	22.002	1138.1	3.143	69.937
33	76.66	2.0	11.8	0.28	0.04	0.00	0.00	0.0155	29.8	0.0010	0.0	21.465	1159.6	3.066	73.003
34	78.62	2.0	11.9	0.28	0.04	0.00	0.00	0.0158	30.4	0.0010	0.0	22.014	1181.6	3.145	76.148
35	78.46	1.9	11.9	0.32	0.04	0.00	0.00	0.0162	31.2	0.0011	0.0	25.107	1206.7	3.138	79.286
36	80.04	1.9	11.2	0.32	0.04	0.00	0.00	0.0165	31.7	0.0011	0.0	25.613	1232.3	3.202	82.488
37	81.48	2.0	11.7	0.28	0.04	0.00	0.00	0.0168	32.3	0.0011	0.0	22.814	1255.1	3.259	85.747
38	76.70	2.0	11.6	0.28	0.04	0.00	0.00	0.0171	32.9	0.0012	0.0	21.476	1276.6	3.068	88.815
39	74.62	2.0	11.8	0.28	0.04	0.16	0.04	0.0174	33.5	0.0012	0.0	20.894	1297.5	2.985	91.8
40	78.32	1.9	11.8	0.28	0.04	0.00	0.00	0.0175	33.7	0.0012	0.0	9.99	1307.5	0.148	91.948
41	77.44	2.0	11.8	0.32	0.04	0.00	0.00	0.0178	34.2	0.0013	0.0	24.781	1332.3	3.098	95.046

1378-P1

							oz/ton Au	oz/ton Ag
POUNDS	4800							
ASSAY TONS	74648.	NaCN added	7600 g	LIME	10 lb/t	Tail	0.024	0.000
TONS	2.4	NaCN Con.	1.99 lbm/t	BASE	0 lb/t	head assay	0.063	0.000
						head screen	0.053	0.000

DAILY COLUMN LEACH DATA: HIGH GRADE/LOW GRADE COMP.
6" FEED SIZE

	Preg. Solution			Solution Analysis				Au Ext.		Ag Ext.					
		NaCN		preg		barren		Au	Au	Ag	Ag		Au		Ag
Days	Vol.	Conc.		Au	Ag	Au	Ag	Cum.	Cum.	Cum.	Cum.	Au	cum.	Ag	cum.
leached	l.	lb/ton	pH	ppm	ppm	ppm	ppm	oz/t	%	oz/t	%	mg	mg	mg	mg
42	78.52	2.0	11.8	0.28	0.04	0.00	0.00	0.0181	34.8	0.0013	0.0	21.986	1354.2	3.141	98.187
43	80.68	2.0	11.7	0.32	0.04	0.00	0.00	0.0185	35.6	0.0014	0.0	25.818	1380.1	3.227	101.41
44	76.46	2.0	11.7	0.28	0.04	0.00	0.00	0.0188	36.2	0.0014	0.0	21.409	1401.5	3.058	104.47
45	76.82	2.0	11.6	0.32	0.04	0.00	0.00	0.0191	36.7	0.0014	0.0	24.582	1426.1	3.073	107.54
46	59.44	1.9	11.3	0.32	0.04	0.16	0.04	0.0194	37.3	0.0015	0.0	19.021	1445.1	2.378	109.92
47	87.92	0.7	10.3	0.32	0.04	0.00	0.00	0.0196	37.7	0.0015	0.0	18.624	1463.7	1.139	111.06
48	78.80	1.9	11.8	0.28	0.04	0.00	0.00	0.0199	38.3	0.0015	0.0	22.064	1485.8	3.152	114.21
49	77.10	2.0	11.7	0.24	0.04	0.00	0.00	0.0202	38.8	0.0016	0.0	18.504	1504.3	3.084	117.29
50	76.52	2.0	11.8	0.28	0.04	0.00	0.00	0.0204	39.2	0.0016	0.0	21.426	1525.7	3.061	120.35
51	81.38	1.9	11.8	0.28	0.04	0.00	0.00	0.0207	39.8	0.0017	0.0	22.786	1548.5	3.255	123.61
52	78.56	2.0	11.8	0.32	0.00	0.00	0.00	0.0211	40.6	0.0017	0.0	25.139	1573.6	0	123.61
53	74.04	2.0	11.7	0.28	0.04	0.16	0.04	0.0214	41.2	0.0017	0.0	20.731	1594.4	2.962	126.57
REST	0.00	0.0	0.0	0.00	0.00	0.00	0.00	0.0212	40.8	0.0017	0.0	-11.84	1582.5	-2.962	123.61
61	68.72	1.9	11.6	0.36	0.04	0.28	0.04	0.0215	41.3	0.0017	0.0	24.739	1607.2	2.749	126.36
62	75.80	1.9	11.7	0.28	0.04	0.00	0.00	0.0216	41.5	0.0017	0.0	1.982	1609.2	0.283	126.64
63	77.94	1.8	11.6	0.52	0.08	0.00	0.00	0.0221	42.5	0.0018	0.0	40.529	1649.8	6.235	132.88
64	78.40	1.9	11.6	0.44	0.04	0.00	0.00	0.0226	43.5	0.0018	0.0	34.496	1684.3	3.136	136.01
65	79.74	1.8	11.6	0.36	0.04	0.00	0.00	0.0229	44.0	0.0019	0.0	28.706	1713.0	3.19	139.20
66	80.04	1.9	11.6	0.32	0.04	0.00	0.00	0.0233	44.8	0.0019	0.0	25.613	1738.6	3.202	142.40
67	77.38	1.8	11.5	0.24	0.04	0.00	0.00	0.0235	45.2	0.0019	0.0	18.571	1757.1	3.095	145.50
68	77.50	1.8	11.5	0.20	0.04	0.00	0.00	0.0237	45.6	0.0020	0.0	15.5	1772.6	3.1	148.60
69	77.68	1.8	11.5	0.20	0.00	0.00	0.00	0.0240	46.2	0.0020	0.0	15.536	1788.2	0	148.60
70	77.60	1.8	11.5	0.16	0.00	0.00	0.00	0.0241	46.3	0.0020	0.0	12.416	1800.6	0	148.60
71	77.72	1.9	11.3	0.16	0.04	0.00	0.00	0.0243	46.7	0.0020	0.0	12.435	1813.0	3.109	151.71
72	76.90	1.7	11.4	0.12	0.00	0.00	0.00	0.0244	46.9	0.0020	0.0	9.228	1822.3	0	151.71
73	78.82	1.8	11.4	0.12	0.00	0.00	0.00	0.0245	47.1	0.0020	0.0	9.458	1831.7	0	151.71
74	77.20	1.8	11.2	0.12	0.04	0.00	0.00	0.0247	47.5	0.0021	0.0	9.264	1841.0	3.088	154.80
75	77.82	1.9	11.1	0.12	0.00	0.00	0.00	0.0248	47.7	0.0021	0.0	9.338	1850.3	0	154.80
76	76.16	1.9	11.1	0.08	0.00	0.00	0.00	0.0249	47.9	0.0021	0.0	6.093	1856.4	0	154.80
77	77.08	1.9	11.0	0.12	0.00	0.00	0.00	0.0250	48.1	0.0021	0.0	9.25	1865.7	0	154.80
78	77.20	1.8	11.0	0.08	0.00	0.00	0.00	0.0251	48.3	0.0021	0.0	6.176	1871.8	0	154.80
79	77.06	1.7	11.3	0.16	0.04	0.00	0.00	0.0252	48.5	0.0021	0.0	12.33	1884.2	3.082	157.88
80	76.10	1.7	11.1	0.12	0.04	0.00	0.00	0.0254	48.8	0.0022	0.0	9.132	1893.3	3.044	160.92
81	26.12	1.6	11.0	0.12	0.00	0.00	0.00	0.0254	48.8	0.0022	0.0	3.134	1896.4	0	160.92
82	76.76	1.6	11.0	0.08	0.00	0.00	0.00	0.0255	49.0	0.0022	0.0	6.141	1902.6	0	160.92
83	76.54	1.6	11.0	0.12	0.00	0.00	0.00	0.0256	49.2	0.0022	0.0	9.185	1911.8	0	160.92
84	78.62	1.7	10.9	0.12	0.00	0.00	0.00	0.0257	49.4	0.0022	0.0	9.434	1921.2	0	160.92
85	77.32	1.7	10.8	0.08	0.00	0.00	0.00	0.0258	49.6	0.0022	0.0	6.186	1927.4	0	160.92
86	73.70	1.7	11.2	0.04	0.00	0.00	0.00	0.0259	49.8	0.0022	0.0	2.948	1930.3	0	160.92
87	74.76	1.7	11.1	0.00	0.00	0.00	0.00	0.0259	49.8	0.0022	0.0	0	1930.3	0	160.92
88	81.66	1.6	10.8	0.08	0.04	0.00	0.00	0.0259	49.8	0.0022	0.0	6.533	1936.9	3.266	164.19

1378-P1

							oz/ton Au	oz/ton Ag
POUNDS	4800							
ASSAY TONS	74648.	NaCN added	7600 g	LIME	10 lb/t	Tail	0.024	0.000
TONS	2.4	NaCN Con.	1.99 lbm/t	BASE	0 lb/t	head assay	0.063	0.000
						head screen	0.053	0.000

DAILY COLUMN LEACH DATA: HIGH GRADE/LOW GRADE COMP.
6" FEED SIZE

	Preg. Solution			Solution Analysis				Au Ext.		Ag Ext.					
		NaCN		preg		barren		Au	Au	Ag	Ag		Au		Ag
Days	Vol.	Conc.		Au	Ag	Au	Ag	Cum.	Cum.	Cum.	Cum.	Au	cum.	Ag	cum.
leached	l.	lb/ton	pH	ppm	ppm	ppm	ppm	oz/t	%	oz/t	%	mg	mg	mg	mg
89	77.28	1.7	10.9	0.08	0.00	0.00	0.00	0.0260	50.0	0.0022	0.0	6.182	1943.0	0	164.19
90	76.16	1.9	10.9	0.08	0.00	0.00	0.00	0.0261	50.2	0.0022	0.0	6.093	1949.1	0	164.19
91	78.94	1.9	10.8	0.08	0.00	0.00	0.00	0.0262	50.4	0.0022	0.0	6.315	1955.4	0	164.19
92	78.11	1.6	10.8	0.12	0.04	0.00	0.00	0.0263	50.6	0.0022	0.0	9.373	1964.8	3.124	167.31
93	76.11	1.7	10.9	0.08	0.00	0.00	0.00	0.0264	50.8	0.0022	0.0	6.089	1970.9	0	167.31
94	77.44	1.8	10.9	0.08	0.00	0.00	0.00	0.0265	51.0	0.0022	0.0	6.195	1977.1	0	167.31
95	80.48	1.8	10.9	0.08	0.00	0.00	0.00	0.0266	51.2	0.0022	0.0	6.438	1983.5	0	167.31
96	77.00	1.6	10.8	0.08	0.08	0.00	0.00	0.0267	51.3	0.0023	0.0	6.16	1989.7	6.16	173.47
97	72.24	1.3	10.6	0.04	0.04	0.00	0.00	0.0267	51.3	0.0024	0.0	2.89	1992.6	2.89	176.36
98	76.24	1.8	10.8	0.04	0.00	0.00	0.00	0.0267	51.3	0.0024	0.0	3.05	1995.6	0	176.36
99	77.60	1.7	10.5	0.08	0.00	0.00	0.00	0.0268	51.5	0.0024	0.0	6.208	2001.9	0	176.36
100	77.96	1.8	10.8	0.08	0.00	0.00	0.00	0.0269	51.7	0.0024	0.0	6.237	2008.1	0	176.36
101	76.92	1.8	10.7	0.08	0.00	0.00	0.00	0.0270	51.9	0.0024	0.0	6.154	2014.2	0	176.36
102	81.02	1.8	10.6	0.08	0.00	0.00	0.00	0.0271	52.1	0.0024	0.0	6.482	2020.7	0	176.36
103	78.78	1.7	10.5	0.12	0.00	0.00	0.00	0.0272	52.3	0.0024	0.0	9.454	2030.2	0	176.36
104	78.78	1.8	10.6	0.08	0.04	0.00	0.00	0.0273	52.5	0.0024	0.0	6.302	2036.5	3.151	179.51
105	78.90	1.8	10.6	0.12	0.04	0.00	0.00	0.0274	52.7	0.0024	0.0	9.468	2045.9	3.156	182.67
106	77.54	1.8	10.6	0.12	0.04	0.00	0.00	0.0275	52.9	0.0025	0.0	9.305	2055.3	3.102	185.77
107	78.56	1.7	10.7	0.08	0.00	0.00	0.00	0.0276	53.1	0.0025	0.0	6.285	2061.5	0	185.77
108	78.38	1.8	10.5	0.08	0.00	0.00	0.00	0.0280	53.8	0.0025	0.0	6.27	2067.8	0	185.77
109	78.42	1.3	10.5	0.12	0.04	0.00	0.00	0.0280	53.8	0.0025	0.0	9.41	2077.2	3.137	188.91
110	78.14	1.0	10.4	0.08	0.04	0.00	0.00	0.0280	53.8	0.0026	0.0	6.251	2083.5	3.126	192.03
111	77.10	0.5	10.6	0.08	0.04	0.00	0.00	0.0280	53.8	0.0026	0.0	6.168	2089.6	3.084	195.12
END	0.00	0.0	0.0	0.00	0.00	0.00	0.00	0.0280	53.8	0.0026	0.0	0	2089.6	0	195.12

1378-P3

							oz/ton Au	oz/ton Ag
POUNDS	2093.1							
ASSAY TONS	32551.	NaCN added	2970 g	LIME	10 lb/t	Tail	0.014	0.000
TONS	1.047	NaCN Con.	1.52 lbm/t	BASE	0 lb/t	head assay	0.063	0.000
						head screen		

DAILY COLUMN LEACH DATA: HIGH GRADE/LOW GRADE COMP.
2" FEED SIZE

	Preg. Solution			Solution Analysis				Au Ext.		Ag Ext.					
		NaCN		preg		barren		Au	Au	Ag	Ag		Au		Ag
Days leached	Vol. l.	Conc. lb/ton	pH	Au ppm	Ag ppm	Au ppm	Ag ppm	Cum. oz/t	Cum. %	Cum. oz/t	Cum. %	Au mg	cum. mg	Ag mg	cum. mg
1	0.00	0.0	0.0	0.00	0.00	0.00	0.00	0.0000	0.0	0.0000	0.0	0	0	0	0
2	0.00	0.0	0.0	0.00	0.00	0.00	0.00	0.0000	0.0	0.0000	0.0	0	0	0	0
3	0.00	0.0	0.0	0.00	0.00	0.00	0.00	0.0000	0.0	0.0000	0.0	0	0	0	0
4	0.00	0.0	0.0	0.00	0.00	0.00	0.00	0.0000	0.0	0.0000	0.0	0	0	0	0
5	0.00	0.0	0.0	0.00	0.00	0.00	0.00	0.0000	0.0	0.0000	0.0	0	0	0	0
6	20.94	1.6	12.1	3.24	0.08	0.16	0.00	0.0021	4.2	0.0001	0.0	67.846	67.846	1.675	1.675
7	28.14	2.1	12.1	2.92	0.08	0.04	0.00	0.0045	9.0	0.0001	0.0	78.818	146.66	2.251	3.926
8	33.12	2.3	11.9	2.64	0.08	0.04	0.00	0.0072	14.4	0.0002	0.0	86.311	232.97	2.65	6.576
9	33.36	1.8	12.2	2.20	0.04	0.04	0.00	0.0094	18.8	0.0002	0.0	72.067	305.04	1.334	7.91
10	30.14	1.8	12.0	1.96	0.08	0.12	0.04	0.0111	22.2	0.0003	0.0	57.74	362.78	2.411	10.321
11	27.88	1.7	12.1	1.68	0.04	0.12	0.04	0.0125	25.0	0.0003	0.0	43.222	406.00	-0.09	10.231
12	31.30	2.1	12.0	1.64	0.04	0.00	0.00	0.0139	27.8	0.0003	0.0	47.986	453.99	0.137	10.368
13	33.54	2.0	12.1	1.32	0.04	0.16	0.04	0.0153	30.6	0.0004	0.0	44.273	498.26	1.342	11.71
14	32.04	2.1	12.0	1.16	0.04	0.00	0.00	0.0163	32.6	0.0004	0.0	31.8	530.06	-0.06	11.65
15	25.96	2.0	12.1	1.00	0.04	0.12	0.04	0.0171	34.2	0.0004	0.0	25.96	556.02	1.038	12.688
16	37.06	1.9	12.1	0.92	0.04	0.00	0.00	0.0180	36.0	0.0004	0.0	30.98	587.00	0.444	13.132
17	32.32	2.0	12.0	0.84	0.04	0.04	0.00	0.0189	37.8	0.0004	0.0	27.149	614.15	1.293	14.425
18	27.34	2.0	11.9	0.72	0.04	0.00	0.00	0.0194	38.8	0.0005	0.0	18.392	632.54	1.094	15.519
19	35.12	2.0	11.9	0.68	0.04	0.04	0.00	0.0202	40.4	0.0005	0.0	23.882	656.42	1.405	16.924
20	32.20	2.0	11.9	0.68	0.04	0.08	0.04	0.0208	41.6	0.0006	0.0	20.491	676.91	1.288	18.212
21	29.50	2.0	11.7	0.60	0.04	0.00	0.00	0.0213	42.6	0.0006	0.0	15.124	692.04	-0.108	18.104
22	32.68	1.9	11.9	0.60	0.04	0.08	0.04	0.0219	43.8	0.0006	0.0	19.608	711.64	1.307	19.411
23	32.30	1.9	11.8	0.56	0.04	0.00	0.00	0.0223	44.6	0.0006	0.0	15.474	727.12	-0.015	19.396
24	31.56	1.9	11.7	0.52	0.04	0.00	0.00	0.0228	45.6	0.0006	0.0	16.411	743.53	1.262	20.658
25	32.40	1.8	11.6	0.48	0.04	0.00	0.00	0.0233	46.6	0.0007	0.0	15.552	759.08	1.296	21.954
26	29.76	2.0	11.7	0.48	0.04	0.04	0.00	0.0238	47.6	0.0007	0.0	14.285	773.37	1.19	23.144
27	30.80	1.9	11.9	0.48	0.04	0.00	0.00	0.0242	48.4	0.0007	0.0	13.594	786.96	1.232	24.376
28	29.16	1.9	11.7	0.40	0.04	0.04	0.04	0.0245	49.0	0.0008	0.0	11.664	798.62	1.166	25.542
29	34.22	2.0	11.7	0.40	0.04	0.00	0.04	0.0249	49.8	0.0008	0.0	12.522	811.15	0.202	25.744
30	31.42	2.0	11.7	0.36	0.04	0.04	0.00	0.0253	50.6	0.0008	0.0	11.311	822.46	-0.112	25.632
31	28.22	2.0	11.7	0.36	0.04	0.00	0.00	0.0255	51.0	0.0008	0.0	8.902	831.36	1.129	26.761
32	30.94	2.0	11.6	0.32	0.04	0.00	0.00	0.0258	51.6	0.0009	0.0	9.901	841.26	1.238	27.999
33	30.46	2.0	11.6	0.32	0.04	0.00	0.00	0.0261	52.2	0.0009	0.0	9.747	851.01	1.218	29.217
34	34.56	1.8	11.7	0.28	0.04	0.00	0.00	0.0264	52.8	0.0009	0.0	9.677	860.68	1.382	30.599
35	19.16	2.0	11.5	0.32	0.04	0.00	0.00	0.0266	53.2	0.0010	0.0	6.131	866.82	0.766	31.365
36	32.82	1.9	11.3	0.32	0.04	0.00	0.00	0.0270	54.0	0.0010	0.0	10.502	877.32	1.313	32.678
37	28.78	1.9	11.7	0.28	0.04	0.00	0.00	0.0272	54.4	0.0010	0.0	8.058	885.38	1.151	33.829
38	34.18	1.9	11.9	0.28	0.04	0.00	0.00	0.0275	55.0	0.0011	0.0	9.57	894.95	1.367	35.196
39	31.52	1.9	11.8	0.20	0.00	0.00	0.00	0.0277	55.4	0.0011	0.0	6.304	901.25	0	35.196
40	31.68	2.0	11.8	0.28	0.04	0.00	0.00	0.0280	56.0	0.0011	0.0	8.87	910.12	1.267	36.463
41	31.14	1.8	11.8	0.20	0.04	0.00	0.00	0.0282	56.4	0.0012	0.0	6.228	916.35	1.246	37.709

1378-P3

							oz/ton Au	oz/ton Ag
POUNDS	2093.1							
ASSAY TONS	32551.	NaCN added	2970 g	LIME	10 lb/t	Tail	0.014	0.000
TONS	1.047	NaCN Con.	1.52 lbm/t	BASE	0 lb/t	head assay	0.063	0.000
						head screen		

DAILY COLUMN LEACH DATA: HIGH GRADE/LOW GRADE COMP.
2" FEED SIZE

	Preg. Solution			Solution Analysis				Au Ext.		Ag Ext.					
		NaCN		preg		barren		Au	Au	Ag	Ag		Au		Ag
Days	Vol.	Conc.		Au	Ag	Au	Ag	Cum.	Cum.	Cum.	Cum.	Au	cum.	Ag	cum.
leached	l.	lb/ton	pH	ppm	ppm	ppm	ppm	oz/t	%	oz/t	%	mg	mg	mg	mg
42	29.70	1.9	11.8	0.24	0.00	0.08	0.00	0.0284	56.8	0.0012	0.0	7.128	923.48	0	37.709
43	30.16	2.0	11.8	0.16	0.04	0.00	0.00	0.0284	56.8	0.0012	0.0	2.45	925.93	1.206	38.915
REST	0.00	0.0	0.0	0.00	0.00	0.00	0.00	0.0284	56.8	0.0012	0.0	0	925.93	0	38.915
51	23.86	1.8	11.7	0.28	0.04	0.00	0.00	0.0286	57.2	0.0012	0.0	6.681	932.61	0.954	39.869
52	31.44	1.9	11.7	0.36	0.04	0.00	0.00	0.0290	58.0	0.0013	0.0	11.318	943.92	1.258	41.127
REST	0.00	0.0	0.0	0.00	0.00	0.00	0.00	0.0290	58.0	0.0013	0.0	0	943.92	0	41.127
54	31.12	1.9	11.6	0.40	0.04	0.00	0.00	0.0294	58.8	0.0013	0.0	12.448	956.37	1.245	42.372
55	30.42	2.0	11.7	0.32	0.04	0.00	0.00	0.0297	59.4	0.0013	0.0	9.734	966.11	1.217	43.589
56	32.06	1.9	11.7	0.36	0.00	0.00	0.00	0.0300	60.0	0.0013	0.0	11.542	977.65	0	43.589
57	29.52	1.9	11.7	0.32	0.04	0.00	0.00	0.0303	60.6	0.0014	0.0	9.446	987.09	1.181	44.77
58	29.34	1.9	11.7	0.28	0.04	0.00	0.00	0.0306	61.2	0.0014	0.0	8.215	995.31	1.174	45.944
59	32.54	1.9	11.7	0.32	0.04	0.00	0.00	0.0309	61.8	0.0015	0.0	10.413	1005.7	1.302	47.246
60	29.46	2.0	11.7	0.24	0.04	0.00	0.00	0.0311	62.2	0.0015	0.0	7.07	1012.7	1.178	48.424
61	31.20	1.9	11.6	0.28	0.04	0.00	0.00	0.0314	62.8	0.0015	0.0	8.736	1021.5	1.248	49.672
62	32.16	1.8	11.6	0.20	0.00	0.00	0.00	0.0316	63.2	0.0015	0.0	6.432	1027.9	0	49.672
63	33.30	1.9	11.7	0.20	0.04	0.00	0.00	0.0318	63.6	0.0016	0.0	6.66	1034.6	1.332	51.004
64	32.06	1.9	11.6	0.20	0.04	0.00	0.04	0.0320	64.0	0.0016	0.0	6.412	1041.0	1.282	52.286
65	27.60	2.0	11.6	0.16	0.04	0.00	0.00	0.0321	64.2	0.0016	0.0	4.416	1045.4	-0.178	52.108
66	31.56	1.9	11.5	0.20	0.04	0.00	0.00	0.0323	64.6	0.0016	0.0	6.312	1051.7	1.262	53.37
67	32.34	1.9	11.5	0.16	0.00	0.00	0.00	0.0325	65.0	0.0016	0.0	5.174	1056.9	0	53.37
68	29.12	1.9	11.5	0.16	0.00	0.00	0.00	0.0326	65.2	0.0016	0.0	4.659	1061.5	0	53.37
69	31.30	1.8	11.6	0.16	0.04	0.00	0.00	0.0328	65.6	0.0017	0.0	5.008	1066.6	1.252	54.622
70	33.68	2.0	11.6	0.20	0.04	0.00	0.00	0.0330	66.0	0.0017	0.0	6.736	1073.3	1.347	55.969
71	31.42	1.9	11.6	0.16	0.00	0.00	0.00	0.0331	66.2	0.0017	0.0	5.027	1078.3	0	55.969
72	29.00	1.9	11.5	0.12	0.00	0.00	0.00	0.0332	66.4	0.0017	0.0	3.48	1081.8	0	55.969
73	32.46	2.0	11.5	0.12	0.00	0.00	0.00	0.0334	66.8	0.0017	0.0	3.895	1085.7	0	55.969
74	30.70	1.9	11.5	0.16	0.00	0.00	0.00	0.0335	67.0	0.0017	0.0	4.912	1090.6	0	55.969
75	31.54	1.8	11.5	0.08	0.00	0.00	0.00	0.0336	67.2	0.0017	0.0	2.523	1093.1	0	55.969
76	28.54	1.8	11.6	0.08	0.04	0.00	0.00	0.0337	67.4	0.0018	0.0	2.283	1095.4	1.142	57.111
77	35.30	1.8	11.8	0.08	0.04	0.00	0.00	0.0337	67.4	0.0018	0.0	2.824	1098.2	1.412	58.523
78	33.92	1.8	11.6	0.12	0.04	0.04	0.04	0.0339	67.8	0.0018	0.0	4.07	1102.3	1.357	59.88
79	29.74	1.8	11.6	0.16	0.04	0.00	0.00	0.0340	68.0	0.0018	0.0	3.402	1105.7	-0.167	59.713
80	31.50	2.0	11.6	0.12	0.04	0.00	0.00	0.0341	68.2	0.0019	0.0	3.78	1109.5	1.26	60.973
81	29.90	1.9	11.5	0.16	0.04	0.00	0.00	0.0342	68.4	0.0019	0.0	4.784	1114.3	1.196	62.169
82	32.64	1.8	11.4	0.12	0.04	0.00	0.00	0.0344	68.8	0.0019	0.0	3.917	1118.2	1.306	63.475
83	30.04	1.8	11.4	0.16	0.04	0.00	0.00	0.0345	69.0	0.0020	0.0	4.806	1123.0	1.202	64.677
84	34.02	1.9	11.5	0.08	0.04	0.00	0.00	0.0346	69.2	0.0020	0.0	2.722	1125.7	1.361	66.038
85	31.58	1.9	11.5	0.12	0.04	0.00	0.00	0.0347	69.4	0.0021	0.0	3.79	1129.5	1.263	67.301
86	29.18	1.8	11.3	0.12	0.04	0.00	0.00	0.0348	69.6	0.0021	0.0	3.502	1133.0	1.167	68.468
87	30.16	1.8	11.4	0.12	0.04	0.00	0.00	0.0349	69.8	0.0021	0.0	3.619	1136.6	1.206	69.674
88	32.46	1.9	11.5	0.12	0.04	0.00	0.00	0.0350	70.0	0.0022	0.0	3.895	1140.5	1.298	70.972

1378-P3

							oz/ton Au	oz/ton Ag
POUNDS	2093.1							
ASSAY TONS	32551.	NaCN added	2970 g	LIME	10 lb/t	Tail	0.014	0.000
TONS	1.047	NaCN Con.	1.52 lbm/t	BASE	0 lb/t	head assay	0.063	0.000
						head screen		

DAILY COLUMN LEACH DATA: HIGH GRADE/LOW GRADE COMP.
2" FEED SIZE

	Preg. Solution			Solution Analysis				Au Ext.		Ag Ext.					
		NaCN		preg		barren		Au	Au	Ag	Ag		Au		Ag
Days	Vol.	Conc.		Au	Ag	Au	Ag	Cum.	Cum.	Cum.	Cum.	Au	cum.	Ag	cum.
leached	l.	lb/ton	pH	ppm	ppm	ppm	ppm	oz/t	%	oz/t	%	mg	mg	mg	mg
89	32.84	2.0	11.5	0.12	0.04	0.00	0.00	0.0352	70.4	0.0022	0.0	3.941	1144.5	1.314	72.286
90	31.00	1.9	11.4	0.12	0.04	0.00	0.00	0.0353	70.6	0.0023	0.0	3.72	1148.2	1.24	73.526
91	32.44	1.9	11.4	0.12	0.04	0.00	0.00	0.0354	70.8	0.0023	0.0	3.893	1152.1	1.298	74.824
92	32.06	1.9	11.4	0.08	0.04	0.04	0.04	0.0355	71.0	0.0023	0.0	2.565	1154.6	1.282	76.106
93	27.26	1.9	11.4	0.12	0.04	0.00	0.00	0.0355	71.0	0.0023	0.0	1.989	1156.6	-0.192	75.914
94	32.48	2.0	11.4	0.12	0.04	0.00	0.00	0.0357	71.4	0.0024	0.0	3.898	1160.5	1.299	77.213
95	33.42	1.9	11.4	0.12	0.04	0.00	0.00	0.0358	71.6	0.0024	0.0	4.01	1164.5	1.337	78.55
96	33.26	2.0	11.4	0.12	0.04	0.00	0.00	0.0359	71.8	0.0025	0.0	3.991	1168.5	1.33	79.88
97	30.24	1.9	11.4	0.12	0.04	0.00	0.00	0.0360	72.0	0.0025	0.0	3.629	1172.2	1.21	81.09
98	30.96	1.9	11.3	0.08	0.04	0.00	0.00	0.0360	72.0	0.0025	0.0	2.477	1174.6	1.238	82.328
99	29.76	1.5	11.3	0.12	0.04	0.04	0.04	0.0360	72.0	0.0026	0.0	3.571	1178.2	1.19	83.518
100	32.56	1.4	11.3	0.08	0.04	0.00	0.00	0.0360	72.0	0.0026	0.0	1.414	1179.6	0.112	83.63
101	33.50	1.1	11.6	0.12	0.04	0.00	0.00	0.0360	72.0	0.0026	0.0	4.02	1183.6	1.34	84.97
102	28.46	0.8	11.5	0.08	0.00	0.00	0.00	0.0360	72.0	0.0026	0.0	2.277	1185.9	0	84.97
END	0.00	0.0	0.0	0.00	0.00	0.00	0.00	0.0360	72.0	0.0026	0.0	0	1185.9	0	84.97

1378-P2

							oz/ton Au	oz/ton Ag
POUNDS	966.67							
ASSAY TONS	15033.	NaCN added	1113 g	LIME	0 lb/t	Tail	0.013	0.000
TONS	0.483	NaCN Con.	0.56 lbm/t	CEMENT	10 lb/t	head assay		
						head screen	0.059	0.000

DAILY COLUMN LEACH DATA: HIGH GRADE/LOW GRADE COMP.
-3/8" FEED SIZE

	Preg. Solution			Solution Analysis				Au Ext.		Ag Ext.					
		NaCN		preg		barren		Au	Au	Ag	Ag		Au		Ag
Days leached	Vol. l.	Conc. lb/ton	pH	Au ppm	Ag ppm	Au ppm	Ag ppm	Cum. oz/t	Cum. %	Cum. oz/t	Cum. %	Au mg	cum. mg	Ag mg	cum. mg
1	0.00	0.0	0.0	0.00	0.00	0.00	0.00	0.0000	0.0	0.0000	0.0	0	0	0	0
2	0.00	0.0	0.0	0.00	0.00	0.00	0.00	0.0000	0.0	0.0000	0.0	0	0	0	0
3	0.00	0.0	0.0	0.00	0.00	0.00	0.00	0.0000	0.0	0.0000	0.0	0	0	0	0
4	21.64	1.3	12.0	4.76	0.24	0.00	0.00	0.0069	12.5	0.0003	0.0	103.00	103.00	5.194	5.194
5	20.40	1.5	11.8	3.60	0.16	0.00	0.00	0.0117	21.3	0.0006	0.0	73.44	176.44	3.264	8.458
6	19.80	1.6	11.8	2.72	0.12	0.00	0.00	0.0153	27.8	0.0007	0.0	53.856	230.30	2.376	10.834
7	15.36	2.0	11.7	2.72	0.12	0.00	0.00	0.0181	32.9	0.0008	0.0	41.779	272.08	1.843	12.677
8	22.90	2.0	11.5	2.20	0.12	0.00	0.00	0.0214	38.9	0.0010	0.0	50.38	322.46	2.748	15.425
9	21.52	1.7	11.8	1.52	0.08	0.00	0.00	0.0236	42.9	0.0011	0.0	32.71	355.17	1.722	17.147
10	20.54	1.5	11.7	1.12	0.08	0.00	0.00	0.0252	45.8	0.0012	0.0	23.005	378.17	1.643	18.79
11	19.68	1.8	11.7	1.00	0.04	0.00	0.00	0.0265	48.2	0.0013	0.0	19.68	397.85	0.787	19.577
12	20.40	2.1	11.7	0.84	0.04	0.00	0.00	0.0276	50.2	0.0014	0.0	17.136	414.99	0.816	20.393
13	20.78	1.7	11.8	0.52	0.04	0.00	0.00	0.0283	51.5	0.0014	0.0	10.806	425.79	0.831	21.224
14	21.00	2.0	11.5	0.72	0.04	0.00	0.00	0.0293	53.3	0.0015	0.0	15.12	440.91	0.84	22.064
15	19.48	2.0	11.7	0.64	0.04	0.00	0.00	0.0302	54.9	0.0015	0.0	12.467	453.38	0.779	22.843
16	20.52	1.9	11.7	0.52	0.04	0.00	0.00	0.0309	56.2	0.0016	0.0	10.67	464.05	0.821	23.664
17	20.32	1.8	11.6	0.48	0.04	0.00	0.00	0.0315	57.3	0.0016	0.0	9.754	473.80	0.813	24.477
18	20.30	1.8	11.5	0.44	0.04	0.00	0.00	0.0321	58.4	0.0017	0.0	8.932	482.74	0.812	25.289
19	19.46	1.9	11.6	0.44	0.04	0.00	0.00	0.0327	59.5	0.0017	0.0	8.562	491.30	0.778	26.067
20	20.86	1.9	11.5	0.36	0.04	0.00	0.00	0.0332	60.4	0.0018	0.0	7.51	498.81	0.834	26.901
21	20.14	1.9	11.5	0.28	0.04	0.00	0.00	0.0336	61.1	0.0018	0.0	5.639	504.45	0.806	27.707
22	20.18	1.9	11.6	0.36	0.04	0.00	0.00	0.0340	61.8	0.0019	0.0	7.265	511.71	0.807	28.514
23	19.70	1.9	11.4	0.28	0.04	0.00	0.00	0.0344	62.5	0.0019	0.0	5.516	517.23	0.788	29.302
24	20.40	1.7	11.5	0.28	0.00	0.00	0.00	0.0348	63.3	0.0019	0.0	5.712	522.94	0	29.302
25	20.72	1.7	11.2	0.28	0.00	0.00	0.00	0.0352	64.0	0.0019	0.0	5.802	528.74	0	29.302
26	19.96	1.9	11.4	0.24	0.04	0.00	0.00	0.0355	64.5	0.0020	0.0	4.79	533.53	0.798	30.1
27	20.86	1.9	11.4	0.24	0.04	0.00	0.00	0.0358	65.1	0.0021	0.0	5.006	538.54	0.834	30.934
28	20.40	1.9	11.3	0.20	0.04	0.00	0.00	0.0361	65.6	0.0021	0.0	4.08	542.62	0.816	31.75
29	19.98	1.9	11.4	0.16	0.00	0.00	0.00	0.0363	66.0	0.0021	0.0	3.197	545.82	0	31.75
30	20.16	1.8	11.5	0.20	0.00	0.00	0.00	0.0366	66.5	0.0021	0.0	4.032	549.85	0	31.75
31	20.30	1.8	11.5	0.20	0.04	0.00	0.00	0.0368	66.9	0.0022	0.0	4.06	553.91	0.812	32.562
32	20.94	1.9	11.4	0.16	0.00	0.00	0.00	0.0371	67.5	0.0022	0.0	3.35	557.26	0	32.562
33	20.42	1.9	11.4	0.16	0.00	0.00	0.00	0.0373	67.8	0.0022	0.0	3.267	560.52	0	32.562
34	20.22	1.8	11.3	0.16	0.04	0.00	0.00	0.0375	68.2	0.0022	0.0	3.235	563.76	0.809	33.371
35	20.84	1.9	11.2	0.12	0.00	0.00	0.00	0.0377	68.5	0.0022	0.0	2.501	566.26	0	33.371
36	20.80	1.8	11.1	0.16	0.00	0.00	0.00	0.0379	68.9	0.0022	0.0	3.328	569.59	0	33.371
37	20.38	1.8	11.4	0.12	0.00	0.00	0.00	0.0381	69.3	0.0022	0.0	2.446	572.03	0	33.371
38	20.94	1.9	11.5	0.12	0.00	0.00	0.00	0.0382	69.5	0.0022	0.0	2.513	574.55	0	33.371
39	20.66	2.0	11.5	0.08	0.00	0.00	0.00	0.0383	69.6	0.0022	0.0	1.653	576.20	0	33.371
40	20.24	1.8	11.5	0.16	0.00	0.00	0.00	0.0385	70.0	0.0022	0.0	3.238	579.44	0	33.371
41	20.86	1.9	11.6	0.12	0.00	0.00	0.00	0.0387	70.4	0.0022	0.0	2.503	581.94	0	33.371

WLK- JDS

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DECEMBER 18, 1989

ASARCO

Southwestern Exploration Division

JDS

December 18, 1989

FILE NOTE

Increased Competition
Greater Yarnell Project
Yavapai County, Arizona

Chris Moat called on 12-14-89 to say that his network has heard that several Canadian companies intend to increase their exploration coverage into the Greater Yarnell Project lands, from Octave to Congress and north.

Moat also said he would have Tench Page down there after the 1st of January.

The companies Moat mentioned were Malartic Gold North (at Congress), Echo Bay (late of Congress and Octave), and Lac Minerals.

Miller and Rasmussen have interrupted their detail mapping at Yarnell to take a reconn of the other areas.

Two, which they have looked at, apparently have quartz veining and minor alteration outside the main structure and additional information is to be gathered on these, and maps submitted.

James D. Sell

JDS:mek

James D. Sell

cc: F.T. Graybeal
W.L. Kurtz
S.L. Lakosky
M.A. Miller
J.D. Rasmussen

JDS

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December 18, 1989

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EXPLORATION DEPARTMENT

VIA FAX

Mr. R. L. Brown
Vice President
Exploration Department
ASARCO Incorporated
180 Maiden Lane
New York, New York 10038

Re: Norgold Agreement - Western Building Consent

Dear Mr. Brown:

This is in response to your telephone call on December 15, 1989 regarding the form of letter agreement dated December 12, 1989 proposed by Norgold in response to requests by Western Building and Mining Co., Inc. for modification of the Mining Agreement dated December 30, 1988 between Western Building and Norgold as a condition to Western Building's consent for the assignment of that Agreement by Norgold to ASARCO.

Enclosed is a form of arbitration clause providing for one arbitrator which you requested. The obvious critical element of a one arbitrator arbitration provision is how the single arbitrator will be selected. The enclosed form provides for the American Arbitration Association to make the selection. Variations in this method are available but the selection being made by the AAA appears to be the most common.

Enclosed is the form of Net Smelter Returns royalty definition suggested in 3 Am. L. of Mining, Ch. 85, App. 2 (2d Ed. 1984) which you requested. Western Building has proposed that the costs for loading and transporting ores, either within or without the boundary of the mining claims, is customarily not deducted to arrive at Net Smelter Returns. The enclosed ALM definition indicates that there would be a deduction for transportation costs from the mine (within the property) as well as from the property to the refinery.

You further requested our comments on the provisions of the December 12, 1989 form of letter agreement. Those are as follows:

1. First, the references in paragraphs 7.1, 7.1 b), 7.2, 7.3 and 7.4 to Norgold alone should be to both "Norgold and Asarco".

2. The greatest danger in paragraph 7.1 is in the delay which Western Building could cause in the operations either through a legitimate questioning of ore commingling procedures or as strategy to extract other concessions from ASARCO. Unfortunately, section 2(A) of the Western Building agreement gives Western Building the sole discretion whether or not to allow the commingling of ore. The object should be for Western Building to provide a single approval of the method which will be followed for accounting for commingled ore rather than providing Western Building with the opportunity to become involved in the commingling operations. Paragraph 7.1 b) requiring that "data" be furnished suggests that the ore might first have to be mined, weighed and graded before ASARCO could provide Western Building with the sixty day notice to approve commingling. The words "data necessary" in the first line of paragraph 7.1 b) should be changed to "method" and the words "data and" should be deleted in the third line from the last line of the same paragraph.

Paragraph 7.4 is unclear with respect to whether Western Building must consent to each change in commingling operations or whether Western Building's consent would apply to all commingling operations. Further, there is no limitation, other than using its best efforts, on the time within which Western Building must provide such consent. It is suggested that paragraph 7.4 be revised to read:

> "Prior to commencing commingling operations on the Property, Norgold or Asarco shall obtain Western Building's approval in writing of a method of allocating the grades, quantities and values of the commingled ore among the parties having interests in the same, which approval shall not be unreasonably withheld. Within thirty days after Asarco or Norgold submits a proposed method of allocation, Western Building shall either approve such method or specify in writing its objections to the method and

> propose modifications to the method. Within fifteen days after receiving such objections, Norgold or Asarco may accept Western Building modifications or propose further modifications to Western Building. If Western Building does not accept the further proposed modifications within fifteen days, the matter shall be submitted to arbitration as provided in paragraph 7.3."

3. It seems unnecessary for paragraphs 3 and 9 to provide that within sixty days after the date of this letter agreement, ASARCO will execute and deliver to Western Building its agreement to be bound by the Western Building agreement, when ASARCO's confirmation of the same can simply be provided for in this letter agreement. Therefore, it would simplify things to eliminate paragraph 3 and change paragraph 9 to read:

> "Asarco hereby agrees to be bound by the provisions of the Western Building Agreement as provided in paragraph 15 of the Western Building agreement for so long as the Asarco Agreement remains in effect."

4. Finally, while ASARCO and Norgold are accommodating Western Building's requests, Western Building should provide an estoppel certificate confirming the good standing of the Western Building Agreement by adding the following paragraph 11:

> "11. Western Building hereby certifies that, as of the date of this letter agreement, the Western Building Agreement is a valid and subsisting agreement for the unexpired term thereof, free of default on the part of Norgold and Western Building."

Please call if there are any further questions regarding the foregoing.

Sincerely,

Jerry L. Haggard

Jerry L. Haggard
For APKER, APKER, HAGGARD
& KURTZ, P.C.

JLH/jb
Enclosures

cc: James L. Woods, Esq.
Mr. W. L. Kurtz

cc: J.D. Sell
S.L. Lakosky
12/19/89

ARBITRATION

In case of any dispute between the parties, the same shall be submitted to and be decided by one arbitrator designated by the American Arbitration Association under the rules of such Association. Such person to be selected as the arbitrator shall be a disinterested person of experience in the mining business in the United States of America, or if no mining question is involved, shall be a person having technical competence relative to the point in dispute, and who is not and never has been associated directly or indirectly with any party to the dispute. After such arbitrator has been so selected, the arbitrator shall fix a time and place in _____, _____, or elsewhere if the parties hereto so agree, for the purpose of the arbitrator meeting and hearing the parties and any evidence that they may submit. The decision of said arbitrator shall be in writing and shall be binding upon the parties. The expense of the arbitrator shall be paid as directed in such decision. The arbitrator shall retain jurisdiction to determine whether a default has been cured within a reasonable time. Any decision of the arbitrator shall bind the parties hereto with respect to the same issues in any dispute arising thereafter.

2. NET SMELTER [REFINERY] RETURNS ROYALTY

[Note—The following royalty provision is framed in the alternative, so that if a concentrate is to be produced, the net smelter return royalty terminology can be used, while if precious metals are to be processed into a dore without obtaining an intermediate salable concentrate, the net refinery return terminology can be used. If it is unknown at the time of drafting whether a concentrate will be produced, both provisions can be stated in the alternative.]

Lessee shall pay Owner a production royalty of X percent (X%) of Net Smelter [Refinery] Returns for all Ores and Minerals (as hereinafter defined) mined or otherwise recovered and removed from the Property and thereafter sold by or for the account of Lessee.

(a) "Net Smelter [Refinery] Returns" for all purposes of this Lease shall mean the amount actually received by Lessee from any sale of Ores and Minerals mined or otherwise recovered and removed from the Property less, but only to the extent actually incurred and borne by Lessee:

(i) Sales, use, gross receipts, severance, and other taxes, if any, payable with respect to severance, production, removal, sale, or disposition of Ores and Minerals, but excluding any taxes on net income;

(ii) Charges and costs, if any, for transportation from the mine or mill to places where Ores and Minerals are smelted [refined] and/or sold; and

(iii) Charges, costs, including assaying and sampling costs, and all penalties, if any, incurred upon smelting [refining] Ores and Minerals; in the event smelting [refining] is carried out in facilities owned or controlled, in whole or in part, by Lessee, charges, costs, and penalties for such operations shall mean the amount Lessee would have incurred if such operations were carried out at facilities not owned or controlled by Lessee then offering comparable services for comparable products on prevailing terms.

(b) "Ores and Minerals" for all purposes of this Lease shall mean collectively "Ores and Minerals" as herein defined:

(i) "Minerals," whether singular or plural, shall mean any and all mineral substances of any nature, metallic or non-metallic. The term "Minerals" shall not include oil, gas, or other liquid or gaseous hydrocarbon substances, or sand, gravel, aggregates, or building stone.

(ii) "Ores," whether singular or plural shall mean all material which in the sole discretion of Lessee justifies either (i) mining, extracting, or recovering from place in the Property and selling or delivering to a processing plant for physical or chemical treatment, or (ii) treating in place in the Property by chemical, solution, or other methods; said term shall also include all mineral-bearing solutions, natural or introduced, recovered by Lessee from the Property and sold or processed by Lessee, and all mineral and non-mineral components of all such materials and solutions.

ASARCO Southwestern Exploration Division JDS

December 18, 1989

W.D. Gay

Mining Claim Annual Recordation
Yarnell Project
Yavapai County, Arizona

R.L. Brown suggests that Norgold be sent copies ("cc") for all the Mining Claim Annual Recordations sent to Yavapai County and the State Bureau of Land Management for their records.

Gather up all the letters and send a copy with cover letter, to Norgold.

James D. Sell

James D. Sell

JDS:mek

cc: R.L. Brown
W.L. Kurtz

JDSell

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*Carrying on business through a personal law corporation

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OPTION AGREEMENT

THIS AGREEMENT is made effective as of the 20 day of October, 1989, by and between EUGENE C. HARPER and FLORENCE A. HARPER, husband and wife, and LESTER J. HAYT, SR., and ELOISE G. HAYT, husband and wife (collectively as "Owners") and NORGOLD RESOURCES (US) INC., a Nevada corporation authorized to do busines in Arizona (as "Optionee").

WHEREAS, Owners represent to Optionee that they are the owners of, and are willing to grant to Optionee the sole and exclusive option to purchase, the hereinafter described parcels of real property situated in Yavapai County, Arizona, all as more particularly described as Parcel One and Parcel Two in Exhibit A attached hereto and made a part hereof; and

WHEREAS, in the event Optionee exercises one or both of its options to purchase, Owners are willing to grant to Optionee an Easement Agreement for ingress to and egress from the property described in Exhibit A and for construction, use and maintenance of utilities to serve the same across adjacent real property owned by Owners;

NOW, THEREFORE, for a good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged by Owners, Owners and Optionee agree as follows:

1. Term; Option Payment

Unless Optionee sooner exercises its option to purchase as hereinafter provided, the term of this Agreement shall be for a period expiring on the date twelve (12) months from the effective

date hereof (the "Option Period"). Upon execution of this Agreement by Owners and Optionee, Optionee shall pay to Owners the sum of Two Thousand Five Hundred Dollars ($2,500.00) as consideration for the purchase options granted herein.

2. Grant; Exercise of Options; Purchase Price

Owners hereby grant to Optionee the sole exclusive rights and options, exercisable at any time prior to expiration of the Option Period, to (1) purchase Parcel One, or (2) purchase Parcel Two, or (3) purchase both Parcels One and Parcel Two, by giving written notice to Owners in the manner hereinafter set forth of Optionee's election to purchase, which notice shall designate the Parcel or Parcels which Optionee elects to purchase and shall designate a title insurance company with offices in Yavapai County to act as escrow agent for the closing of the purchase. If Optionee elects to purchase only Parcel One, the purchase price shall be the sum of Ten Thousand Dollars ($10,000.00). If Optionee elects to Purchase only Parcel Two, the purchase price shall be the sum of Five Thousand Dollars ($5,000.00). If Optionee elects to purchase both Parcel One and Parcel Two, the purchase price shall be the sum of Fifteen Thousand Dollars ($15,000.00). Promptly following exercise by Optionee of its option to purchase, the parties shall execute and deliver to the escrow agent, escrow instructions consistent with their Agreement, which instructions shall direct escrow agent to close the escrow within thirty (30) days of establishing the escrow. Owners shall thereupon execute and deliver into escrow a Warranty Deed of the applicable Parcel or Parcels, warranting title as against all liens and encumberances other than as set forth in Exhibit A and Optionee shall deliver into escrow the applicable purchase price set forth above. The parties shall also execute and deliver into escrow an Easement Agreement in the form attached as Exhibit B, together with an affidavit of value as required under the laws of the State of Arizona. Real property taxes shall be prorated as of the date of closing and the escrow

agent shall deliver to Optionee a policy of title insurance, insuring Optionee's title as herein represented. The cost of the title policy shall be the responsibility of Owners and the costs of escrow shall be divided between the parties. Upon closing of the escrow this Agreement shall terminate.

3. Examination by Optionee; Indemnity

Optionee shall have the right, at any time prior to the expiration of the Option Period, to enter upon, examine and survey the real property described in Exhibit A. In the event Optionee enters thereon during the Option Period to examine or survey the property, it shall conduct work performed thereon in a good and workmanlike manner and in compliance with all applicable local, state and federal statutes. Optionee shall pay all expenses incurred by it in its operations thereon and shall allow no liens arising from any act of Optionee to remain upon the said real property. Optionee shall indemnify Owner against and hold Owner harmless from any liability to third persons resulting from Optionee's operations hereunder.

4. Notices

Any notice or communication required or permitted hereunder shall be effective when personally delivered or shall be effective when addressed:

If to Owner:

c/o Eugene G. Harper
P.O. Box 4169
Cave Creek, AZ 85331

If to Optionee:

Norgold Resources (US) Inc.
2380 Harbour Centre
P.O. Box 12122
555 W. Hastings Street
Vancouver, B.C. V6B 4N6

and deposited, postage prepaid, and registered, in the United States or Canadian mail, as the case may be. Either party may, by notice to the other given as aforesaid, change its mailing address for future notices hereunder.

5. Construction, Memorandum; Inurement

This Agreement, and the rights and obligations of the parties hereunder, shall be governed by the laws of the State of Arizona. Section headings in this Agreement are for convenience only and shall not be considered a part of this Agreement or used in its interpretation. The parties shall join in the execution of a Memorandum of this Agreement in a form sufficient to constitute notice hereof to third parties under the laws of the State of Arizona. This Agreement shall inure to the benefit of and be binding upon the respective heirs, devisees, personal representatives, successors and assigns of the parties hereto.

IN WITHNESS WHEREOF, this OPTION AGREEMENT has been executed as of the date first above set forth.

OWNERS

Eugene C. Harper

Eugene C. Harper

Florence A. Harper

Florence A. Harper

Lester J. Hayt, Sr.

Eloise G. Hayt

Eloise G. Hayt

OPTIONEE

NORGOLD RESOURCES (US) INC.

By

Its: Secretary & Director

STATE OF ARIZONA)
) ss.
COUNTY OF Maricopa)

The foregoing instrument was acknowledged before me this 22nd day of September, 1989, by Eugene C. Harper and Florence A. Harper, husband and wife.

Notary Public

My Commission Expires: June 5, 1992

STATE OF ARIZONA)
) ss.
COUNTY OF Maricopa)

The foregoing instrument was acknowledged before me this 22nd day of September, 1989, by Lester J. Hayt, Sr., and Eloise G. Hayt, husband and wife.

Notary Public

My Commission Expires: June 5, 1992

PROVINCE OF)
) ss.
BRITISH COLUMBIA)

The foregoing instrument was acknowledged before me this 20th day of October, 1989 by Michael D. Philpot, the Secretary & Director of Norgold Resources (US) Inc., a Nevada corporation, on behalf of the corporation.

Notary Public

My Commission Does Not Expire:

EXHIBIT A

EXHIBIT A to OPTION AGREEMENT (and Memorandum thereof) being a description of the real property subject to the said Option Agreement and Memorandum:

PARCEL ONE

That portion of the Southwest Quarter of the Southeast Quarter of Section 11, Township 10 North, Range 5 West, Gila and Salt River Meridian, Yavapai County, Arizona, described as follows:

BEGINNING at a point on the South line of said Section 11, from which the South Quarter corner bears North 89° 55' West, 96.20 feet;

thence North 0° 05' East, 208.71 feet;

thence South 89° 55' East, 208.71 feet to a point, such point being the northwest corner of the property described in instrument recorded in Book 387 of Official Records, page 502, records of Yavapai County, Arizona;

thence South 0° 05' West, 208.71 feet along the East line of the last referenced property to a point on the South line of said Section;

thence North 89° 55' West along said South line, 208.71 feet, to the POINT OF BEGINNING;

containing one acre, more or less.

EXCEPT all coal and other minerals as reserved in Patent from United States of America.

PARCEL TWO

That portion of the Southwest Quarter of the Southeast Quarter of Section 11, Township 10 North, Range 5 West, Gila and Salt River Meridian, Yavapai County, Arizona, described as follows:

BEGINNING at a point on the South line of said Section 11, from which the South Quarter corner bears North 89° 55' West, 617.98 feet, and being the southeast corner of the property described in instrument recorded in

Book 1530 of Official Records, page 629, records of Yavapai County, Arizona;

thence North 0° 05' East along the East line of the last referenced property, 104.36 feet to a point on the East line of said property;

thence South 89° 55' East 208.71 feet;

thence South 0° 05' West, 104.36 feet to a point on the South line of said Section;

thence North 89° 55' West along said South line, 208.71 feet, to the POINT OF BEGINNING;

containing one-half acre, more or less.

EXCEPT all coal and other minerals as reserved in Patent from United States of America.

BOTH OF WHICH PARCELS ARE SUBJECT TO:

1. All existing roads, rights of way and easements and those of record in the office of the Recorder of Yavapai County, Arizona;

2. All taxes which may constitute a lien but which are not yet due and payable; and

3. Exceptions and reservations in the United States Patent thereto.

EXHIBIT B

EASEMENT AGREEMENT

The undersigned, EUGENE C. HARPER and FLORENCE A. HARPER, husband and wife, and LESTER J. HAYT, SR. and ELOISE G. HAYT, husband and wife (collectively as "Grantors"), being the owners of the real property included within Tax Parcel 203-07-37B situated in the Southeast Quarter of Section 11, Township 10 North, Range 5 West, Gila and Salt River Meridian, Yavapai County, Arizona hereby grant a non-exclusive easement for ingress and egress across and over the real property included within Tax Parcel 203-07-37B (but specifically excepting and excluding those portions of the Southeast Quarter within Tax Parcel 203-07-37A, Tax Parcel 203-07-38 and Plat C Amended of Yarnell) to NORGOLD RESOURCES (US) INC., a Nevada corporation ("Norgold"), the buyer of that portion of said Tax Parcel 203-07-37B described in Schedule A attached hereto and made a part hereof, such easement being granted herein in an undefined manner and to encompass those portions of the existing roadway heretofore used to service communication facilities within Tax Parcels 203-07-37A and 203-07-38. At such time as development of Grantors' remaining property within Tax Parcel 203-07-37B takes place, Norgold agrees to accept ingress and egress from the nearest developed street that will permit vehicle travel to the real property described in Schedule A.

Owners further hereby grant to Norgold a temporary utility easement across the real property included within Tax Parcel 203-07-37B (but specifically excepting and excluding those portions of the Southeast Quarter within Tax Parcel 203-07-37A, Tax Parcel 203-07-38 and Plat C Amended of Yarnell) for the construction, use and maintenance of utilities to service any facilities placed by Norgold on the property described in Schedule A until such time, if any, as developments takes place resulting in bordering

sources of utilities being made available to Norgold for such purposes.

This Agreement and the conditions hereof shall inure to the benefit of and be binding upon Grantors and Norgold and their respective heirs, devisees, personal representatives, successor and assigns as the same relates to the property included within Tax Parcel 203-07-37B.

DATED: October 20, 1989

Eugene C. Harper, Grantor

Florence A. Harper, Grantor

Lester J. Hayt, Sr. Grantor

Eloise G. Hayt, Grantor

Accepted:

NORGOLD RESOURCES (US) INC.

By: _____
Its: Secretary & Director

Note: Add Schedule A (description of property purchased by Norgold) and acknowledgments at time of execution of the Easement Agreement.

12/20/89

R L Brown

1. Moat - RLB visit ± Monday 22 Jan 1990
   w/ MAM

2. Map finished by that time — call after 1st of year. to edge of area of interest

3. Nov 10 indicated

.01
state this in regard to Sempra
Conclusion pose.

Item 3
Paragraph 3 All ~~assay~~ in B zone
dupection in A that might
be

ASARCO

Southwestern Exploration Division

JDS

December 20, 1989

M.A. Miller

Tour Schedule
Yarnell Project
Yavapai County, AZ

Mr. R.L. Brown has tentatively set Monday, January 22, 1990, as a time for the joint Norgold-Asarco tour of Yarnell.

Set aside several days pre- and post- the 22nd for possible inclusion in the schedule.

James D. Sell

James D. Sell

JDS:mek

cc: W.L. Kurtz
S.L. Lakosky

ASARCO

Southwestern Exploration Division

JDS

December 20, 1989

W.L. Kurtz

Drill Indicated Reserve
Yarnell Project
Yavapai County, Arizona

Summary and Conclusion

The following tonnage and grade of material remaining at the Yarnell Project, based on the triangle method as discussed in the calculation section, have been calculated.

1. The Main "B" zone mineralization of 4.111 million tons of 0.051 opt gold, with 209,661 contained ounces of gold.
2. The Main "B" zone assay cut-off was based on the best interval of assays in the vicinity of the 30° NW dipping Yarnell Fault structure. Within this zone, some assay intervals are as low as 0.00X opt gold, but unless the grade and thickness was sufficient to be included within the proposed pit outline, the combined Main "B" zone interval was not included in the drill indicated reserve. Table 4 tabulates the Main "B" zone blocks and only one grade block (Triangle No. 10Ø) averaged less than 0.034 opt gold.
3. The Total Waste, above the Main "B" zone, of 12.671 million tons of material.
4. A ratio of 3.08 waste/ore is calculated for the Main "B" zone mineralization.
5. Above the Main "B" zone is a lower grade zone designated as the Upper "A" zone. This "A" zone mineralization of 2.738 million tons of 0.017 opt gold, contains 46,546 ounces of gold. The "A" zone is within the Total Waste tonnage area.
6. The Upper "A" zone assay cut-off was based on the best interval of assays which would average 0.010 opt gold or better. Some assays within this zone are in the 0.00X opt gold range. Table 3 tabulates the blocks included in the drill indicated reserve and the range of values. Only two blocks out of 113 averaged 0.010 opt gold.
7. Combining both the "A" and "B" zones, a total of 6.849 million tons of 0.038 opt gold, containing 256,207 ounces of gold, is within the indicated reserve.
8. With the "A" zone removed from the Total Waste, a reduced waste value of 9.933 million tons is indicated.
9. The revised ratio of 1.45 wate/ore results from combining zones "A" and "B."
10. The average thickness of the Main "B" zone mineralization is 62.1 feet as measured vertically in the drill hole intercepts. This figure is 53.8 feet (vertical feet times 0.866) measured perpendicular to the thirty degree dip of the Yarnell Fault structure.

James D. Sell

James D. Sell

JDS:mek
Att.

cc: R.L. Brown (2)
M.A. Miller
S.L. Lakosky

ASARCO

Southwestern Exploration Division

November 10, 1989

W.L. Kurtz

Calculations
Drill Indicated Reserve
Yarnell Project
Yavapai County, Arizona

I submit my report on the calculation methods and parameters used for the drill indicated reserve at Yarnell, Arizona.

The Main mineralization dips subparallel to the Yarnell Fault, which is thirty degrees northwest. Graphic solution indicates that in this case a plan area multiplied by the vertical drill hole intercept contains the same approximate tonnage as would the inclined plan area multiplied by the thickness measured perpendicular to the inclined plane. As a result, the values in the vertical drill holes can be used in the calculations with no further adjustments due to attitude of the mineral zone.

Figure 1 is the drill progress map with the ninety-six drill holes used in this study. A total of 24,325 feet has been rotary drilled (reverse air) and 4 diamond drill holes totaling 1,295 feet has been drilled. Also shown is the footwall outcrop of the base of the Main "B" zone mineralization which is also the east and south edges of the study pit. The fifty degree back-slope of the study pit is shown as the crest and toe lines on the north and northwest sides of the study pit.

The main structural feature within the area is the Yarnell Fault which strikes N40°E and dips thirty degrees northwesterly. The fault is near the footwall line shown on Figure 1.

A packet of silicification, quartz veining, clay, and quartz-sericite alteration of the granite host trends subparallel to the Yarnell Fault. This packet is the Main "B" zone and averages 54 feet thick measured subperpendicular to the Yarnell Fault. Also within the zone the drill hole averages in excess of 0.035 opt gold values.

Thus the Main "B" zone mineralization tabulated for this pit study is within the pit design as shown in Figure 1.

In the up-dip and central part of the study pit, previous mining has extracted a portion of the high-grade vein within the Yarnell Fault of the Main "B" zone. The memo of 10/31/89 indicates that 250,000 tons had been mined by underground and open-cut methods within the study pit outline. A grade of 0.051 opt gold was assigned to this material for calculating purposes, but it is believed that the historic grade was quarter ounce or better when it was mined.

The triangle method was used to calculate the tonnage and grade within the drill indicated mineralization within the study pit.

Three types of material are within the pit outline: 1) The Main "B" zone mineralization, 2) the Upper "A" zone mineralization, and 3) the Total Waste material. The Upper "A" zone material may be profitable to segregate and is included within the Total Waste calculation. The Total Waste material is all the material above the Main "B" zone mineralization.

For calculations of the drill indicated reserve, the following tabulations were created. These tabulations are only attached to the File Copy. Pertinent portions are abstracted and included as Tables within the distributed report copies.

A. All drill holes were connected to form triangles by connecting the three adjacent drill holes. An attempt was made to create equilateral triangles and/or to elongate them along the strike of the deposit. Modified (M) outlines were created at the edges of the pit either adjacent to outcrop or along the back slope wall after the first run had been made and the down-dip pit parameters reestablished.

   Attachment A is a plan map showing the triangles used in the study pit calculations.

B. The triangle plan areas, measured in square feet, were tabulated (Tabulation A-File).

C. Table 1 (attached) was tabulated showing the drill hole, and the footage and assay for the intervals of the "A" and "B" mineralized zones, with Total Waste being the number from the surface to the top of the "B" zone.

D. From Table 1, each triangle was tabulated for height of block, by each: the TW* (Total Waste above "B" zone), the "A" zone, and the "B" zone, by averaging the respective intervals within the three drill holes, or outcrop, involved (Tabulation B-File).

E. Each drill hole was tabulated showing the "A" and "B" zone thickness and grade and the resultant FT-OZ (Feet-ounces) figure (Tabulation C-File).

F. From the above data, the grade of each zone was calculated to represent the triangle unit grade with a check on the thickness of each triangle zone (Tabulation D-File).

G. Using a 12.0 cubic feet per ton factor, a tabulation of tonnage and grade was calculated for each triangle for the "A" zone, the "B" zone, and the Total Waste above the "B" zone, within the study pit parameters. A back-slope of fifty degrees was used to calculate the Total Waste outside the mineralized blocks.

Table 2 - Total Waste (Tabulation E-File).

Table 3 - Upper "A" zone, within the total waste (Tabulation F-File).

Table 4 - Main "B" zone (Tabulation G-File).

Each table tabulates the triangle number, the cubic feet volume, the thickness of the unit, the resultant tons, using a 12.0 cubic feet per ton factor, and the grade of the interval within each triangle.

Should other cubic feet per ton factors need to be tabulated, the Tables 2, 3, and 4, can be used.

The totals within the Tables were cumulated by summing the weighted multiples of feet times tonnage and tonnage times grade and dividing by total tonnage to supply the average thickness of each unit and the average grade of each unit.

H. A previous memo, 10/31/89, detailed the consensus of the amount of ore previously removed from the Main "B" zone mineralization by underground and open-pit methods within the proposed pit area. Using only the drill holes and surface samples from within the area, a tonnage of 250,000 tons of 0.051 opt gold was calculated.

I. To restate from Tables 2, 3, and 4:

Total Waste - 12,671,085 tons above "B" zone.

Total "A" zone - 2,738,247 tons of 0.017 opt gold
(The "A" zone mineralization is within the Total Waste tonnage).

Total "B" zone - 4,111,005 tons of 0.051 opt gold
(After subtracting the previously mined tonnage).

J. Figure 2 is a bar-graph which plots "B" zone grades of ore with the tons of ore within that grade range. The same data is tabulated in Table 5 (attached).

At first glance, it is noted that the bulk of the mineralization tonnage is below a grade of 0.050 opt gold, and thus the grade might also be in a lower range. However, the weighted totals of gold values indicate an 0.051 opt gold value.

Should it be decided to cut the high values above 0.080 opt gold, in Table 5, to a value of 0.050 opt gold, the result will be that the weighted average of the total tonnage only drops 0.001 opt, to a value of 0.050 opt gold.

K. Of some interest in viewing Figure 2 is the apparent "decreasing" slope spikes, such as noted between 0.036-0.040 and 0.054-0.061 opt gold, and, of course, the big spike at 0.048-0.049 opt gold.

With the apparent multiple stages of flooding silica and silica veining, the several grade spikes may be indicative of the stages of quartz deposition and the contained gold values with these stages.

James D. Sell

James D. Sell

JDS:mek
Atts.

cc: R.L. Brown (2 copies)
M.A. Miller
S.L. Lakosky

YARNELL PROJECT

Yavapai County, Arizona

Table 1 - Zone Interval Tabulation

Drill Hole	Zone*	From	To	Footage	Grade (opt Au)
YM-1	A	5	55	50'	0.025
YM-1	B	55	125	70'	0.053, incl. 20' stope
YM-2	A	45	140	95'	0.017
YM-2	B	140	245	105'	0.049, incl. 40' stope
YM-3	A	20	125	105'	0.011
YM-3	B	125	200	75'	0.060 stope 147-155
YM-4	A	15	230	175'	0.013, 40' gap
YM-4	B	285	310	25'	0.037
YM-5	A	150	200	50'	0.005
YM-5	B	200	355	155'	0.041, incl. 35' stope
YM-6	B	125	180	55'	0.042
YM-7	B	155	230	75'	0.047, incl. 5' stope
YM-8	A	30	225	195'	0.022
YM-8	B	225	275	50'	0.041
YM-9	B	275	315	40'	0.035
YM-10	A	130	190	60'	0.021
YM-10	B	190	225	35'	0.029
YM-11	B	175	240	65'	0.049
YM-12	A	40	150	110'	0.013
YM-12	B	150	240	90'	0.039, incl. 15' stope
YM-13	B	180	210	30'	0.022
YM-14	B	15	90	75'	0.040

YARNELL PROJECT - Table 1 - Zone Interval Tabulation

Drill Hole	Zone*	From	To	Footage	Grade (opt Au)
YM-15	A	25	140	115'	0.015
YM-15	B	140	295	155'	0.034
YM-16	A	0	40	40'	0.017
YM-16	B	40	80	40'	0.039, incl. 5' stope
YM-17	A	210	285	75'	0.015
YM-17	B	285	325	40'	0.047
YM-18	A	0	100	100'	0.022
YM-18	B	100	140	40'	0.078
YM-19	A	10	85	75'	0.015
YM-19	B	205	235	30'	0.058
YM-20	B	0	35	35'	0.070
YM-21	A	25	55	30'	0.019
YM-21	B	80	90	10'	0.033
YM-22	A	215	225	10'	0.036
YM-22	B	270	285	15'	0.025
YM-23	B	40	125	85'	0.047
YM-24	B	65	115	50'	0.093, incl. 10' stope
YM-25	B	55	90	35'	0.070
YM-26	B	200	290	90'	0.054
YM-27	A	35	265	90'	0.015, 140' gap.
YM-27	B	300	315	15'	0.033
YM-28	A	95	225	130'	0.022
YM-28	B	225	245	20'	0.042
YM-29	B	220	230	10'	0.033
YM-30	A	170	200	30'	0.012
YM-30	B	215	250	35'	0.032
YM-31	A	115	135	20'	0.017
YM-31	B	365	385	20'	0.055
YM-32	A	0	190	155'	0.012, 35' gap.

YARNELL PROJECT - Table 1 - Zone Interval Tabulation

Drill Hole	Zone*	From	To	Footage	Grade (opt Au)
YM-32	B	190	200	10'	0.027
YM-33	A	15	55	40'	0.015
YM-33	B	275	365	90'	0.051
YM-34	A	110	130	20'	0.013
YM-34	B	not reached - assume from other holes.			
YM-34	B	240	250	10'	0.025
YM-35	B	15	40	25'	0.010
YM-36	A	35	55	20'	0.023
YM-36	B	130	140	10'	0.048
YM-37	B	120	180	60'	0.036
YM-38	B	185	220	35'	0.028
	Note: if no fault in area, then above may be "A" Zone.				
YM-39	A	0	325	75'	0.024, 250' gap.
YM-39	B	325	360	35'	0.048, end in ore.
YM-40	A	20	80	60'	0.014
YM-40	B	275	380	105'	0.062
YM-41	B	295	335	40'	0.046
YM-42	B	330	340	10'	0.056
YM-43	B	65	85	20'	0.063
YM-44	A	115	235	120'	0.024
YM-44	B	235	265	30'	0.143
YM-45	B	60	75	15'	0.084
YM-46	B	200	260	60'	0.012
YM-47	A	120	170	50'	0.014
YM-47	B	170	205	35'	0.031
YM-48	B	45	85	40'	0.049
YM-49	B	140	160	20'	0.049
YM-50	B	0	85	85'	0.059

YARNELL PROJECT - Table 1 - Zone Interval Tabulation

Drill Hole	Zone*	From	To	Footage	Grade (opt Au)
YM-51	B	165	170	5'	0.061
YM-52	B	50	75	25'	0.049
YM-53	B	65	140	75'	0.036
YM-54	A	55	125	70'	0.015
YM-54	B	180	270	90'	0.054
YM-55	A	0	70	70'	0.011
YM-55	B	70	165	95'	0.050, incl. 15' stope.
YM-56	A	0	45	45'	0.012
YM-56	B	70	105	35'	0.082
YM-57	A	0	15	15'	0.011
YM-57	B	15	60	45'	0.035, incl. 13' stope.
YM-58	B	0	20	20'	0.034
YM-59	B	50	100	50'	0.032
YM-60	In FW	-	-	-	-
YM-61	B	80	200	120'	0.037, incl. 15' stope.
YM-62	A	115	190	75'	0.015
YM-62	B	190	295	105'	0.040, incl. 40' stope.
YM-63	A	10	140	130'	0.011
YM-63	B	140	240	100'	0.081, end in ore.
YM-64	A	50	110	60'	0.025
YM-64	B	110	145	35'	0.053
YM-65	B	0	50	50'	0.049
YM-66	In FW	-	-	-	-
YM-67	B	0	50	50'	0.048
YM-68	In FW	-	-	-	-
YM-69	A	185	250	65'	0.011
YM-69	B	250	280	30'	0.069

YARNELL PROJECT - Table 1 - Zone Interval Tabulation

Drill Hole	Zone*	From	To	Footage	Grade (opt Au)
YM-70	A	60	95	35'	0.011
YM-70	B	95	135	40'	0.031
YM-71	B	45	110	65'	0.131
YM-72	B	0	35	35'	0.084
YM-73	B	0	20	20'	0.190
YM-74	In FW	-	-	-	-
YM-75	A	65	105	40'	0.023
YM-75	B	105	170	65'	0.066
YM-76	A	0	75	75'	0.012
YM-76	B	75	115	40'	0.034, incl. 15' stope.
YM-77	A	70	107	37'	0.022
YM-77	B	107	180	73'	0.048, incl. 13' stope.
YM-78	A	130	215	85'	0.011
YM-78	B	215	270	55'	0.070
YM-79	A	10	120	110'	0.019
YM-79	B	120	170	50'	0.046
YM-80	A	140	230	90'	0.023
YM-80	B	230	280	50'	0.040
YM-81	A	5	55	50'	0.015
YM-81	B	55	90	35'	0.066
YM-82	A	0	35	35'	0.015
YM-82	B	35	95	60'	0.049
YM-83	A	0	140	140'	0.014
YM-83	B	140	240	100'	0.044, incl. 20' stope.
YM-84	A	10	105	95'	0.017
YM-84	B	105	140	35'	0.062
YM-85	In FW	-	-	-	-
YM-86	B?	50	70	20'	0.013

YARNELL PROJECT - Table 1 - Zone Interval Tabulation

Drill Hole	Zone*	From	To	Footage	Grade (opt Au)
YM-87	A	245	285	40'	0.010
YM-87	B	285	305	20'	0.050
YM-88	A	180	240	60'	0.020
YM-88	B	240	295	55'	0.064
YM-89	A	40	180	140'	0.010
YM-89	B	180	270	90'	0.051
YM-89	Subzone	270	340	70'	0.016
YM-90	A	10	120	110'	0.012
YM-90	B	120	215	95'	0.062
YM-90	Subzone	215	235	20'	0.019
YM-91	A	10	95	85'	0.010
YM-91	B	Hole lost in stope - assume from other holes.			
YM-91	B	95	180	85'	0.051
YM-92	B	35	55	20'	0.072
YM-93	B	5	25	20'	0.064
YM-94	B	105	155	50'	0.086, incl. 30' stope.
YM-95	B	385	395	10'	0.015
YM-96	B	570	575	5'	0.061

*Zone A - Upper low-grade zone.
*Zone B - Main Yarnell Fault Zone & envelope.

YARNELL PROJECT

Yavapai County, Arizona

Table 2 - Total Waste Zone Above "B" Zone

Using 12.0 ft.^{3}/ton factor

Triangle No.	Volume ft.^{3}	Thickness ft.	Tons
1	237,375	63.3	19,781
2	416,500	70.0	34,708
3	1,572,075	123.3	131,006
4	78,204	13.3	6,517
5	182,250	30.3	15,188
6	28,500	5.0	2,375
7	126,784	28.3	10,565
8	138,579	36.7	11,548
9	245,700	60.0	20,475
10	279,630	71.7	23,303
11	298,350	65.0	24,863
12	435,272	98.3	36,273
13	413,595	105.0	34,466
14	495,720	90.0	41,310
15	533,449	76.7	44,454
16	1,811,413	168.3	150,951
17	3,115,350	210.0	259,613
18	106,880	16.7	8,907
19	101,500	35.0	8,458
20	238,637	46.7	19,886
21	301,065	81.7	25,089
22	297,554	86.7	24,796
23	306,363	113.3	25,530
24	324,480	120.0	27,040
25	436,108	116.7	36,342
26	580,210	170.0	48,351
27	471,510	156.7	39,293
28	531,570	183.3	44,298
29	631,800	120.0	52,650
30	1,361,394	148.3	113,450
31	917,150	170.0	76,429
32	965,978	218.3	80,498
33	759,513	231.7	63,293
34	1,710,000	250.0	142,500

YARNELL PROJECT - Table 2 - Total Waste Zone Above "B" Zone

Triangle No.	Volume ft.^{3}	Thickness ft.	Tons
35	2,463,300	230.0	205,275
36	165,186	48.3	13,766
37	266,370	68.3	22,198
38	261,450	90.0	21,788
39	417,431	121.7	34,786
40	555,026	128.3	46,252
41	736,490	156.7	61,374
42	821,100	170.0	68,425
43	897,560	190.0	74,797
44	1,319,115	221.7	109,926
45	1,421,013	253.3	118,418
46	2,156,450	295.0	179,704
47	2,566,960	291.7	213,913
48	2,621,500	281.7	218,458
49	179,400	60.0	14,950
50	325,125	86.7	45,000
51	523,600	110.0	43,633
52	693,600	120.0	57,800
53	368,863	128.3	30,739
54	417,450	150.0	34,788
55	282,004	113.3	23,500
56	332,100	135.0	27,675
57	539,400	155.0	44,950
58	710,600	190.0	59,217
59	1,131,683	206.7	94,307
60	1,451,247	238.3	120,937
61	1,400,175	266.7	116,681
62	2,009,250	285.0	167,438
63	127,400	20.0	10,617
64	236,156	56.7	19,680
65	131,600	40.0	10,967
66	422,089	93.3	35,174
67	442,394	92.3	36,866
68	158,440	75.7	13,203
69	344,440	109.0	28,703
70	417,690	119.0	34,808
71	456,840	143.3	38,070
72	880,757	183.3	73,396
73	754,711	211.7	62,893
74	799,875	213.3	66,656
75	1,331,438	236.7	110,953
76	1,848,868	288.3	154,072
77	1,631,016	251.7	135,918
78	1,236,000	240.0	103,000
79A	68,351	18.3	5,696
79B	None	-	-

YARNELL PROJECT - Table 2 - Total Waste Zone Above "B" Zone

Triangle No.	Volume ft.^{3}	Thickness ft.	Tons
80A	166,430	55.0	13,869
80B	91,603	36.7	7,634
81	85,973	18.3	7,164
82	330,299	79.0	27,525
83	518,925	75.0	43,244
84	296,000	40.0	24,667
86	580,200	96.7	48,350
87	498,133	89.0	41,511
88	1,181,599	127.3	98,467
90	530,796	110.7	41,983
91	1,298,911	171.7	108,243
92	804,825	153.3	67,069
93	726,250	175.0	60,521
94	896,160	186.7	74,680
95	580,200	96.7	48,350
96	812,236	138.3	67,686
97	1,051,250	145.0	87,604
98	1,694,700	188.3	141,225
99	3,251,311	236.7	270,943
100	1,513,103	221.7	126,092
101	215,129	23.3	17,927
102	312,000	40.0	26,000
103	439,800	73.3	36,650
104	175,760	65.0	14,647
105	536,130	105.0	44,678
106	812,820	155.0	67,735
107	1,065,750	210.0	88,813
108M.	2,093,000	260.0	174,417
109	153,720	18.3	12,810
110	267,947	38.3	22,329
111	205,508	51.7	17,126
112	837,181	93.3	69,765
113	1,044,362	128.3	87,030
114	724,500	172.5	60,037
118	653,994	36.7	54,500
119	1,416,100	83.3	118,008
120	1,581,216	126.7	131,768
121	1,478,509	171.7	123,209
122M.	637,000	140.0	53,083
124	330,000	15.0	27,500
127M.	1,205,559	93.0	100,463
128	837,000	75.0	69,750
129M.	675,000	135.0	56,250
135M.	426,360	220.0	35,530
137	3,388,550	275.0	282,379

YARNELL PROJECT - Table 2 - Total Waste Zone Above "B" Zone

Triangle No.	Volume ft.^{3}	Thickness ft.	Tons
138	3,220,368	291.7	268,364
145M.	518,700	285.0	43,225
146M.	862,750	290.0	71,896
147M.	769,500	285.0	64,125
148	1,354,850	245.0	112,904
149	57,015	35.0	4,751
150	221,242	16.7	18,437
151M.	23,000	5.0	1,917
152M.	15,313	2.5	1,276
153M.	None	-	-
154M.	None	-	-
156M.	None	-	-
162M.	1,361,619	63.0	113,468
163M.	362,700	65.0	30,225
165M.	135,000	30.0	11,250
166M.	101,500	5.0	8,458
167M.	82,500	5.0	6,875
168M.	None	-	-
169M.	1,449,000	23.0	120,750
170M.	None	-	-

Back-Slope, 50°, from bottom of block floor
Zone Section in ft.^{2} X length, ft. = ft.^{3}

From NE end, East of Line 3	198,000	30.0	16,500
Line 3-4	1,073,250	90.0	89,438
Line 4-5	2,050,500	100.0	170,875
Line 5-6	2,776,800	100.0	231,392
Line 6-7	3,516,625	125.0	293,052
Line 7-8	5,004,500	100.0	417,042
Line 8-9	5,382,450	90.0	448,538
Line 9-10	4,951,560	120.0	412,630
Line 10-11	2,971,430	110.0	247,619
Line 11-12	3,765,160	245.0	313,763
Line 12-13	3,586,275	135.0	298,856
Line 13-14	2,430,635	145.0	202,553
Line 14-15	3,551,213	205.0	295,935
Line 15-16	2,882,000	200.0	240,167
TOTAL WASTE TONS			12,671,085

YARNELL PROJECT

Yavapai County, Arizona

Table 3 - Upper "A" Zone

Using 12.0 ft.^{3}/ton factor

Triangle No.	Volume ft.^{3}	Thickness ft.	Tons	Grade oz/ton
1	None	-	-	-
2	198,135	33.3	16,511	0.022
3	743,325	58.3	61,944	0.019
4	78,204	13.3	6,517	0.017
5	80,798	13.3	6,733	0.017
6	28,500	5.0	2,375	0.011
7	89,600	20.0	7,467	0.012
8	106,861	28.3	8,905	0.014
9	115,889	28.3	9,657	0.014
10	175,500	45.0	14,625	0.017
11	206,550	45.0	17,213	0.017
12	280,292	63.3	23,358	0.017
13	249,339	63.3	20,778	0.017
14	174,604	31.7	14,550	0.017
15	231,602	33.3	19,300	0.022
16	627,483	58.3	52,290	0.019
17	1,335,150	90.0	111,263	0.020
18	106,880	16.7	8,907	0.014
19	96,570	33.3	8,048	0.020
20	187,537	36.7	15,628	0.018
21	251,686	68.3	20,974	0.019
22	177,434	51.7	14,786	0.017
23	198,203	73.3	16,517	0.016
24	225,243	83.3	18,770	0.014
25	292,607	78.2	24,384	0.015
26	369,628	108.3	30,802	0.017
27	321,060	106.7	26,755	0.014
28	290,000	100.0	24,167	0.017
29	368,550	70.0	30,713	0.016
30	948,294	103.3	79,025	0.019
31	539,500	100.0	44,958	0.018
32	560,648	126.7	46,721	0.016
33	366,153	111.7	30,513	0.016

YARNELL PROJECT - Table 3 - Upper "A" Zone

Triangle No.	Volume ft.^{3}	Thickness ft.	Tons	Grade oz/ton
34	832,428	121.7	69,369	0.016
35	1,374,093	128.3	114,508	0.020
36	153,900	45.0	12,825	0.019
37	175,500	45.0	14,625	0.018
38	188,825	65.0	15,735	0.019
39	291,550	85.0	24,296	0.015
40	396,694	91.7	33,058	0.012
41	485,510	103.3	40,459	0.013
42	442,911	91.7	36,909	0.013
43	228,169	48.3	19,014	0.015
44	486,115	81.7	40,510	0.014
45	439,263	78.3	36,605	0.013
46	755,123	103.3	62,927	0.021
47	513,040	58.3	42,753	0.019
48	309,890	33.3	25,824	0.014
49	109,733	36.7	9,144	0.020
50	181,125	48.3	15,094	0.018
51	317,492	66.7	26,458	0.015
52	520,200	90.0	43,350	0.011
53	330,625	115.0	27,552	0.011
54	292,215	105.0	24,351	0.012
55	248,900	100.0	20,742	0.011
56	221,400	90.0	18,450	0.012
57	348,000	100.0	29,000	0.011
58	268,158	71.7	22,347	0.012
59	365,183	66.7	30,432	0.013
60	243,600	40.0	20,300	0.017
61	341,250	65.0	28,438	0.016
62	317,250	45.0	26,438	0.015
63	None	-	-	-
64	83,300	20.0	6,942	0.025
65	82,250	25.0	6,854	0.012
66	248,820	55.0	20,735	0.016
67	226,709	47.3	18,892	0.014
68	78,069	37.3	6,506	0.015
69	239,212	75.7	19,934	0.012
70	142,857	40.7	11,905	0.014
71	239,100	75.0	19,925	0.010
72	360,375	75.0	30,031	0.010
73	338,675	95.0	28,223	0.012
74	181,125	48.3	15,094	0.015
75	253,125	45.0	21,094	0.017
76	245,618	38.3	20,468	0.013
77	248,184	38.3	20,682	0.013
78	180,250	35.0	15,021	0.011
79A	None	-	-	-

YARNELL PROJECT - Table 3 - Upper "A" Zone

Triangle No.	Volume ft.^{3}	Thickness ft.	Tons	Grade oz/ton
79B	None	-	-	-
80A	75,650	25.0	6,304	0.012
80B	62,400	25.0	5,200	0.012
81	None	-	-	-
82	155,951	37.3	12,996	0.015
83M.	None	-	-	-
84	None	-	-	-
86M.	None	-	-	-
87M.	68,843	12.3	5,737	0.022
88	114,169	12.3	9,514	0.022
90M.	55,977	12.3	4,665	0.022
91	151,300	20.0	12,608	0.020
92	148,575	28.3	12,381	0.011
93	117,445	28.3	9,787	0.011
94	104,160	21.7	8,680	0.011
95	79,800	13.3	6,650	0.023
96	195,571	33.3	16,298	0.022
97	145,000	20.0	12,083	0.021
98	375,300	41.7	31,275	0.016
99	618,120	45.0	51,510	0.017
100	216,353	31.7	13,522 (3/4)	0.011
101	None	-	-	-
102	None	-	-	-
103	79,800	13.3	6,650	0.023
104	35,963	13.3	2,997	0.023
105	153,180	30.0	12,765	0.018
106	262,200	50.0	12,850	0.019
107	203,000	40.0	16,917	0.019
108	537,880	35.0	22,412 (1/2)	0.014
109	None	-	-	-
110	None	-	-	-
111	None	-	-	-
112	None	-	-	-
113	135,938	16.7	11,328	0.014
114	110,938	16.7	6,934 (3/4)	0.014
118	None	-	-	-
119	None	-	-	-
120	None	-	-	-
121	None	-	-	-
122	None	-	-	-
124	None	-	-	-
127	None	-	-	-
128	371,628	33.3	30,969	0.022
129	623,034	76.7	25,960 (1/2)	0.013
135	1,158,690	130.0	48,279 (1/2)	0.021
136	1,228,500	105.0	102,375	0.023

YARNELL PROJECT - Table 3 - Upper "A" Zone

Triangle No.	Volume ft.^{3}	Thickness ft.	Tons*	Grade oz/ton
137	1,108,980	90.0	92,415	0.023
138	422,832	38.3	35,236	0.021
144	253,700	20.0	6,977 (1/3)	0.016
145	183,300	20.0	7,638 (1/2)	0.016
146	139,360	20.0	5,807 (1/2)	0.012
147	208,000	20.0	8,667 (1/2)	0.012
148	193,550	35.0	16,129	0.011
149	46,101	28.3	3,842	0.015
150	155,002	11.7	12,917	0.015
151	None	-	-	-
152	None	-	-	-
153	None	-	-	-
154	None	-	-	-
156	None	-	-	-
162	None	-	-	-
163	None	-	-	-
165	None	-	-	-
166	None	-	-	-
167	None	-	-	-
168	None	-	-	-
169	None	-	-	-
170	None	-	-	-
			2,738,247	46,875.871 Ton-ozs.
TOTAL UPPER "A"			2,738,247	0.017 opt gold

YARNELL PROJECT

Yavapai County, Arizona

Table 4 - Main "B" Zone

Using 12.0 ft.^{3}/ton factor

Triangle No.	Volume ft.^{3}	Thickness ft.	Tons	Grade oz/ton
1	87,375	23.3	7,281	0.037
2	208,250	35.0	17,354	0.057
3	382,500	30.0	31,875	0.068
4	117,600	20.0	9,800	0.037
5	182,250	30.0	15,188	0.035
6	189,810	33.3	15,818	0.047
7	149,184	33.3	12,432	0.051
8	119,699	31.7	9,975	0.054
9	232,187	56.7	19,349	0.054
10	221,130	56.7	18,428	0.050
11	191,403	41.7	15,950	0.043
12	280,292	63.3	23,358	0.047
13	308,424	78.3	25,702	0.051
14	505,084	91.7	42,090	0.041
15	486,850	70.0	40,571	0.044
16	681,298	63.3	56,775	0.049
17	989,495	66.7	82,458	0.041
18	298,880	46.7	24,907	0.050
19	169,070	58.3	14,089	0.047
20	255,500	50.0	21,292	0.054
21	190,515	51.7	15,876	0.057
22	205,920	60.0	17,160	0.055
23	211,723	78.3	17,644	0.045
24	256,880	95.0	21,407	0.044
25	373,700	100.0	31,142	0.048
26	290,105	85.0	24,175	0.045
27	280,740	93.3	23,395	0.046
28	232,000	80.0	19,333	0.047
29	667,076	126.7	55,590	0.039
30	994,194	108.3	82,850	0.036
31	557,304	103.3	46,442	0.040
32	339,398	76.7	28,283	0.036
33	180,290	55.0	15,024	0.047

YARNELL PROJECT - Table 4 - Main "B" Zone

Triangle No.	Volume ft.^{3}	Thickness ft.	Tons	Grade oz/ton
34	490,428	71.7	40,869	0.037
35	856,800	80.0	71,400	0.038
36	188,100	55.0	15,675	0.054
37	188,370	48.3	15,698	0.050
38	154,837	53.3	12,903	0.045
39	205,800	60.0	17,150	0.039
40	331,840	76.7	27,650	0.056
41	438,510	93.3	36,543	0.059
42	474,789	98.3	39,566	0.058
43	551,291	116.7	45,941	0.044
44	535,500	90.0	44,625	0.045
45	532,950	95.0	44,413	0.048
46	402,050	55.0	33,504	0.055
47	674,960	76.7	56,247	0.056
48	728,660	78.3	60,722	0.055
49	144,417	48.3	12,035	0.049
50	137,625	36.7	11,469	0.049
51	238,000	50.0	19,833	0.051
52	414,426	71.7	34,536	0.064
53	258,750	90.0	21,563	0.068
54	278,300	100.0	23,192	0.061
55	211,565	85.0	17,630	0.058
56	233,700	95.0	19,475	0.051
57	324,684	93.3	27,057	0.047
58	436,458	116.7	36,372	0.043
59	547,500	100.0	45,625	0.048
60	639,450	105.0	53,288	0.052
61	350,175	66.7	298,181	0.060
62	434,985	61.7	36,249	0.055
63	371,371	58.3	30,948	0.083
64	242,820	58.3	20,235	0.076
65	153,643	46.7	12,804	0.092
66	263,749	58.3	21,979	0.085
67	340,303	71.0	28,359	0.078
68	124,115	59.3	10,343	0.075
69	245,532	77.7	20,461	0.053
70	272,727	77.7	22,727	0.049
71	265,560	83.3	21,130	0.050
72	352,207	73.3	29,351	0.054
73	237,786	66.7	19,815	0.060
74	181,125	48.3	15,094	0.058
75	243,563	43.3	20,297	0.049
76	213,553	33.3	17,796	0.047
77	205,416	31.7	17,118	0.041
78	145,745	28.3	12,145	0.048
79A	93,375	25.0	7,781	0.103

YARNELL PROJECT - Table 4 - Main "B" Zone

Triangle No.	Volume ft.^{3}	Thickness ft.	Tons	Grade oz/ton
79B	81,250	25.0	6,771	0.109
80A	95,924	31.7	7,994	0.055
80B	79,123	31.7	6,594	0.060
81	85,973	18.3	7,164	0.114
82	206,123	49.3	17,177	0.049
83M.	311,355	45.0	25,946	0.084
84	209,420	28.3	17,452	0.084
86M.	319,800	53.3	26,650	0.069
87M.	294,962	52.7	24,580	0.065
88	643,243	69.3	53,604	0.044
90M.	277,611	61.0	23,134	0.054
91	478,865	63.3	39,905	0.048
92	297,675	56.7	24,806	0.049
93	200,445	48.3	16,704	0.049
94	192,000	40.0	16,000	0.045
95	349,800	58.3	29,150	0.063
96	313,031	53.3	26,086	0.047
97	362,500	50.0	30,208	0.037
98	360,000	40.0	30,000	0.045
99	366,751	26.7	30,563	0.043
100M.	39,000	30.0	3,250	0.069
101	215,129	23.3	17,927	0.085
102	247,260	31.7	20,605	0.075
103	280,200	46.7	23,350	0.073
104	157,643	58.3	13,137	0.054
105	315,040	61.7	26,253	0.051
106	235,980	45.0	19,665	0.047
107	143,623	28.3	11,969	0.029
108M.	181,125	22.5	15,094	0.054
109	363,720	43.3	30,310	0.058
110	431,653	61.7	35,971	0.048
111	245,258	61.7	20,438	0.043
112	672,975	75.0	56,081	0.044
113	502,238	61.7	41,853	0.045
114M.	210,000	50.0	17,500	0.043
118	1,188,594	66.7	99,050	0.048
119	765,000	45.0	63,750	0.042
120	665,184	53.3	55,432	0.043
121	415,911	48.3	34,659	0.034
122M.	91,000	20.0	7,583	0.049
124	1,282,600	58.3	106,883	0.054
127M.	388,890	30.0	32,408	0.049
128	279,000	25.0	23,250	0.075
129M.	125,000	25.0	10,417	0.060
135M.	77,520	40.0	6,460	0.057
136	468,000	40.0	39,000	0.065

YARNELL PROJECT - Table 4 - Main "B" Zone

Triangle No.	Volume ft.^{3}	Thickness ft.	Tons	Grade oz/ton
137	513,827	41.7	42,819	0.041
138	607,200	55.0	50,600	0.046
144	507,400	40.0	42,283	0.052
145M.	118,300	65.0	9,858	0.049
146M.	89,250	30.0	7,438	0.050
147M.	54,000	20.0	4,500	0.050
148	258,251	46.7	21,521	0.057
149	92,364	56.7	7,697	0.049
150	751,162	56.7	62,597	0.049
151M.	92,000	20.0	7,667	0.064
152M.	321,563	52.5	26,797	0.060
153M.	813,484	68.0	67,790	0.055
154M.	580,000	50.0	48,333	0.049
156M.	172,500	50.0	14,375	0.049
162M.	389,034	18.0	32,420	0.072
163M.	97,650	17.5	8,139	0.063
165M.	36,000	8.0	3,000	0.084
166M.	852,600	42.0	71,050	0.049
167M.	693,000	42.0	57,750	0.053
168M.	362,250	23.0	30,188	0.059
169M.	2,835,000	45.0	236,250	0.048
170M.	400,125	27.5	33,344	0.057
TOTALS		271,014,989.8 ft.-tons	4,361,005 tons	223,912.203 ton-oz.
TOTAL		62.1 vertical	4,361,005 tons	0.051 opt gold
Previously Mined			250,000	0.051
Total Remaining		53.8 Perpendicular to YF structure	4,111,005 tons	0.051 opt gold

YARNELL PROJECT

Yavapai County, Arizona

Table 5 - Total Grade Intervals and Contained Tons in "B" Zone

Oz./Ton Grade	Tons	Oz.-Ton
0.029	11,969	347.101
0.034	34,659	1,178.406
0.035	15,188	531.580
0.036	111,133	4,000.788
0.037	88,158	3,261.846
0.038	71,400	2,713.200
0.039	72,740	2,836.860
0.040	46,442	1,857.680
0.041	184,485	7,563.885
0.042	63,750	2,677.500
0.043	176,255	7,578.965
0.044	217,604	9,574.576
0.045	187,200	8,424.000
0.046	73,995	3,403.770
0.047	178,226	8,376.622
0.048	544,501	26,136.048
0.049	435,891	21,358.659
0.050	92,101	4,605.050
0.051	103,695	5,288.445
0.052	95,571	4,969.692
0.053	78,211	4,145.183
0.054	253,890	13,710.060
0.055	223,419	12,288.045
0.056	83,897	4,698.232
0.057	94,555	5,389.635
0.058	102,600	5,950.800
0.059	66,731	3,937.129
0.060	92,804	5,568.240
0.061	23,192	1,414.712
0.062	-	-
0.063	37,288	2,349.144
0.064	42,203	2,700.992
0.065	63,580	4,132.700
0.066	-	-

YARNELL PROJECT - Table 5 - Total Grade Intervals and and Contained Tons in "B" Zone

Oz./Ton Grade	Tons	Oz.-Ton
0.067	-	-
0.068	53,438	3,633.784
0.069	29,900	2,063.100
0.070	-	-
0.071	-	-
0.072	32,420	2,334.240
0.073	23,350	1,704.550
0.074	-	-
0.075	54,198	4,064.850
0.076	20,235	1,537.860
0.077	-	-
0.078	28,359	2,212.002
0.079	-	-
0.080	-	-
0.081	-	-
0.082	-	-
0.083	30,948	2,568.684
0.084	46,398	3,897.432
0.085	39,906	3,392.010
-	-	-
0.092	12,804	1,177.968
-	-	-
0.103	7,781	801.443
-	-	-
0.109	6,771	738.039
-	-	-
0.114	7,164	816.696
	4,361,005 at 0.051	223,912.203

FIGURE 1

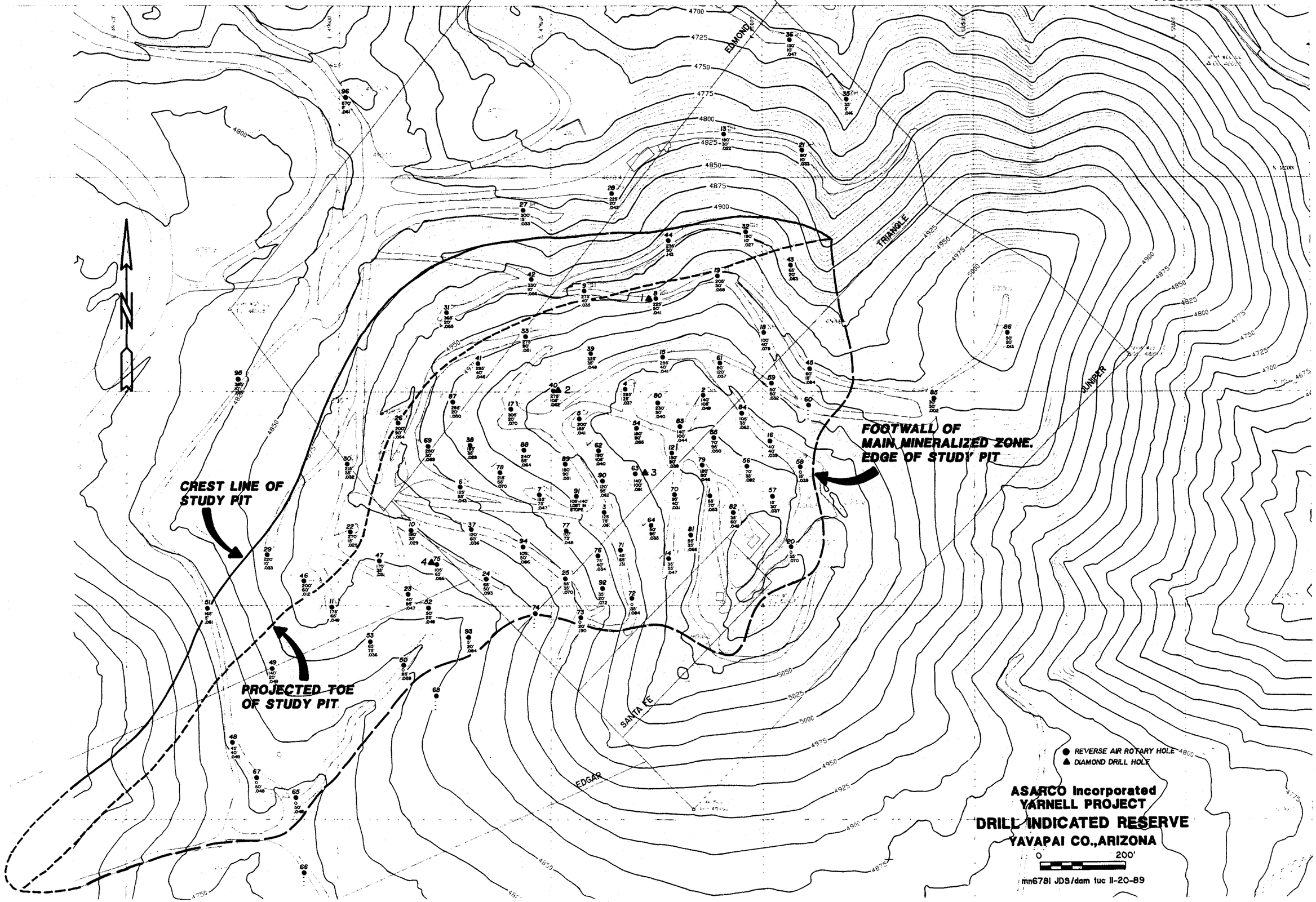
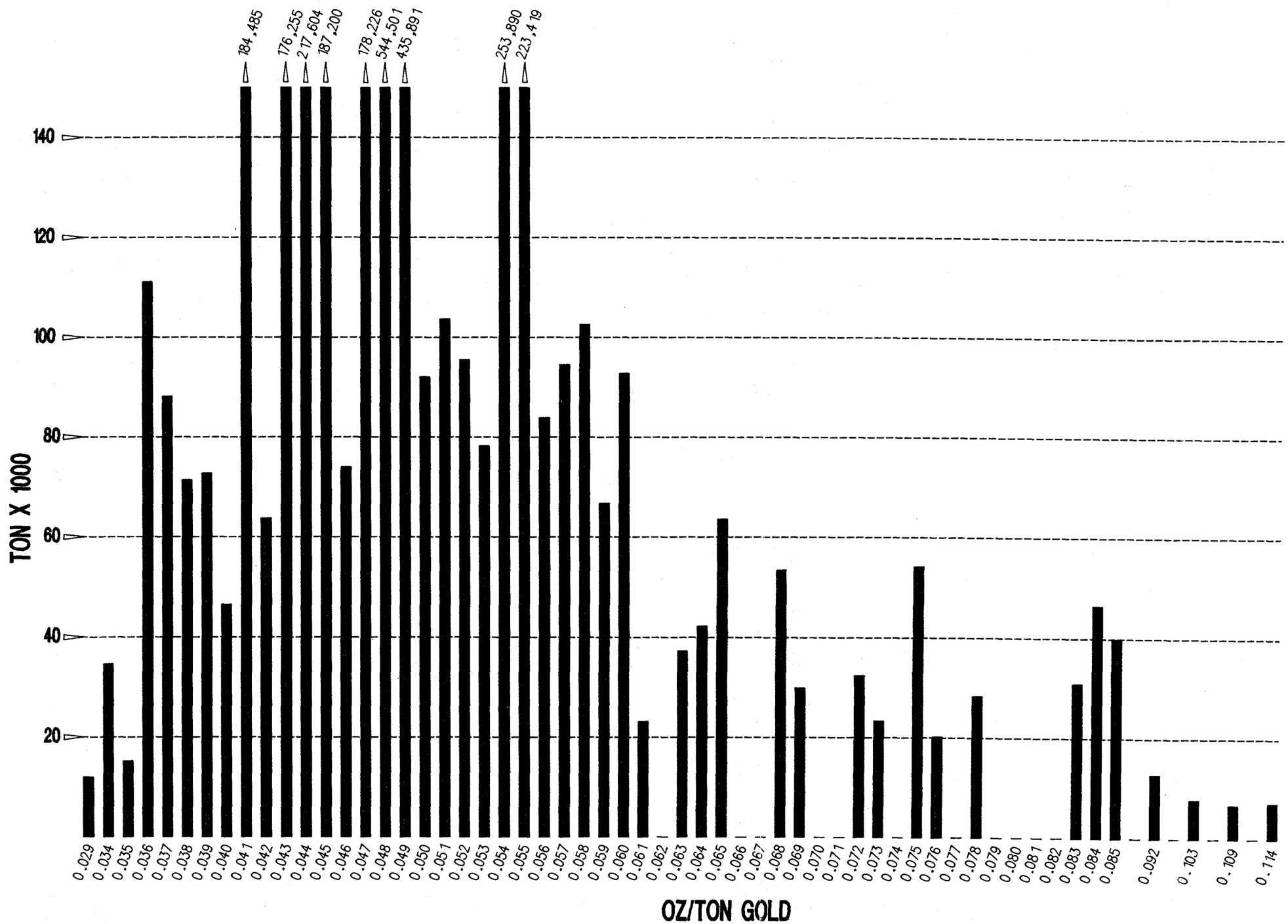

EDMOND
TRIANGLE
JUNIPER
SANTA FE
EDGAR
FOOTWALL OF
MAIN MINERALIZED ZONE.
EDGE OF STUDY PIT
CREST LINE OF
STUDY PIT
PROJECTED TOE
OF STUDY PIT
N
REVERSE AIR ROTARY HOLE
DIAMOND DRILL HOLE
ASARCO Incorporated
YARNELL PROJECT
DRILL INDICATED RESERVE
YAVAPAI CO.,ARIZONA
0
200'
mn6781 JDS/dam tuc 11-20-89

FIGURE 2



"B" Zone

ASARCO Incorporated

YARNELL PROJECT

GRADE VS. TONNAGE

YAVAPAI CO., ARIZONA

J.D.SELL **12-18-89**

MN 6810 JDS/DAM TUC 12-18-89
FILE YAR-1.DWG

ASARCO

Southwestern Exploration Division

JDS

January 30, 1990

W.L. Kurtz

Correction
Drill Indicated Reserve
(of December 20, 1989)
Yarnell Project
Yavapai County, Arizona

Several corrections have been noted for the December 20, 1989, Drill Indicated Reserve memo.

These are replacing a comma with a period in the Ton-ozs figures in the following tables and pages. Corrected copies attached:

Table 3 - Upper "A" Zone, page 4
Table 4 - Main "B" Zone, page 4
Table 5 - Total Grade Intervals and Contained Tons in "B" Zone, pages 1 and 2.

Also noted was the missing of Triangle 27 on Attachment A (Triangles and Drill Holes Used ....) of the above report.

Triangle 27 is the area encompassed by drill holes YM-12, YM-54 and YM-83. Pencil in this Triangle number 27 on copy included with memo of 12/20/89.

James D. Sell

James D. Sell

JDS:mek
Att.

cc: R.L. Brown (2)
M.A. Miller
S.L. Lakosky

YARNELL PROJECT - Table 3 - Upper "A" Zone

Triangle No.	Volume ft.^{3}	Thickness ft.	Tons	Grade oz/ton
137	1,108,980	90.0	92,415	0.023
138	422,832	38.3	35,236	0.021
144	253,700	20.0	6,977 (1/3)	0.016
145	183,300	20.0	7,638 (1/2)	0.016
146	139,360	20.0	5,807 (1/2)	0.012
147	208,000	20.0	8,667 (1/2)	0.012
148	193,550	35.0	16,129	0.011
149	46,101	28.3	3,842	0.015
150	155,002	11.7	12,917	0.015
151	None	-	-	-
152	None	-	-	-
153	None	-	-	-
154	None	-	-	-
156	None	-	-	-
162	None	-	-	-
163	None	-	-	-
165	None	-	-	-
166	None	-	-	-
167	None	-	-	-
168	None	-	-	-
169	None	-	-	-
170	None	-	-	-
			2,738,247	46,875.871 Ton-ozs.
TOTAL UPPER "A"			2,738,247	0.017 opt gold

YARNELL PROJECT - Table 4 - Main "B" Zone

Triangle No.	Volume ft.^{3}	Thickness ft.	Tons	Grade oz/ton
137	513,827	41.7	42,819	0.041
138	607,200	55.0	50,600	0.046
144	507,400	40.0	42,283	0.052
145M.	118,300	65.0	9,858	0.049
146M.	89,250	30.0	7,438	0.050
147M.	54,000	20.0	4,500	0.050
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162M.	389,034	18.0	32,420	0.072
163M.	97,650	17.5	8,139	0.063
165M.	36,000	8.0	3,000	0.084
166M.	852,600	42.0	71,050	0.049
167M.	693,000	42.0	57,750	0.053
168M.	362,250	23.0	30,188	0.059
169M.	2,835,000	45.0	236,250	0.048
170M.	400,125	27.5	33,344	0.057
TOTALS		271,014,989.8 ft.-tons	4,361,005 tons	223,912.203 ton-oz.
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YARNELL PROJECT

Yavapai County, Arizona

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0.038	71,400	2,713.200
0.039	72,740	2,836.860
0.040	46,442	1,857.680
0.041	184,485	7,563.885
0.042	63,750	2,677.500
0.043	176,255	7,578.965
0.044	217,604	9,574.576
0.045	187,200	8,424.000
0.046	73,995	3,403.770
0.047	178,226	8,376.622
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YARNELL PROJECT - Table 5 - Total Grade Intervals and and Contained Tons in "B" Zone

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0.076	20,235	1,537.860
0.077	-	-
0.078	28,359	2,212.002
0.079	-	-
0.080	-	-
0.081	-	-
0.082	-	-
0.083	30,948	2,568.684
0.084	46,398	3,897.432
0.085	39,906	3,392.010
-	-	-
0.092	12,804	1,177.968
-	-	-
0.103	7,781	801.443
-	-	-
0.109	6,771	738.039
-	-	-
0.114	7,164	816.696
	4,361,005 at 0.051	223,912.203

JDS

ASARCO

Southwestern Exploration Division

December 20, 1989

J.D. Sell

Leviathan Mine
Weaver District
Yavapai County, AZ

I have met with George Riddle who is the current owner of the 7-8 patented claims at the Leviathan Mine. The prospect consists of several low angle quartz veins with numerous workings, possibly in an open pittable situation. Reported assays range from trace to .4 opt Au. I do not know whether or not the wall rock will run. I plan to meet with Mr. Riddle the first part of January to look at all the data he has available.

Mark A. Miller

MAM:mek

cc: J.D. Rasmussen

12-21-89

Mark:

I thought you said you had sampled here.

If so, need maps of site & general area, while awaiting assays

Jim

Jim,

I never sampled THIS property.

But it looks interesting.

I sampled sites NORTH of THIS @ THE Rincon Area.

Mark

JDS

ASARCO

Southwestern Exploration Division

December 20, 1989

J.D. Sell

Water Pump
Yarnell Mine
Yavapai County, AZ

As you are aware, the water pump at Yarnell which supplies water to the house has quit. Wickenburg Pump was called out and has diagnosed the problem either as a bad pump or a break in the electric cable which supplies the pump. In any case, the pump will need to be pulled to determine the problem. Estimate of replacement costs is $2600. If the cable is bad then the repair will be considerably less. The depth of the well is reported to be +350' and the pump is 5hp. The well recharge rate is reported to be 15+ gpm, but this information is very sketchy. The age of the pump is +10 years old. If there is no need for the well within the mine production plan then it is probably not cost effective to replace the pump. However, if the water will supplement the needs for the property, then I recommend fixing the pump.

The house that the well services has been used continuously as an exploration and projects office since March. The house also very efficiently saves money in motel costs, etc. It also provides a central base of operations and communications. The Mining Department might seriously consider utilizing the house as an office during the beginning stages of the project.

MAM:mek

Mark A. Miller
Project Geologist

cc: S. Lakosky

JDS

ASARCO

Exploration Department
Southwestern United States Division

James D. Sell
Manager

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

December 20, 1989

Mr. Forrest B. Heintzelman
1315 Cedar Crest Boulevard
Allentown, Pennsylvania 18104

Yarnell Project
Yavapai Co., AZ

Dear Mr. Heintzelman:

Enclosed is Asarco's check for $5000 as payment due December 30, 1989 as stated in Article 2 (b) of your Agreement and Option to Purchase with Norgold Resources (US) Inc., dated June 30, 1989.

Sincerely,

James D. Sell

JDS:mek
enc.

cc: C. Moat - Norgold Resources (US) Inc.
R.L. Brown
W.L. Kurtz
S.L. Lakosky
M.A. Miller
C.L. Snow

ASARCO Incorporated P. O. Box 5747 Tucson, Az 85703-0747
1150 North 7th Avenue (602) 792-3010

JDS

ASARCO

Exploration Department
Southwestern United States Division

James D. Sell
Manager

CERTIFIED MAIL
RETURN RECEIPT

December 20, 1989

Mr. A.J. Roman, President
Western Building & Mining Co., Inc.
P.O. Box 4006
Reading, PA 19606

Western Building
Payment due 1/1/90
Yarnell Project
Yavapai Co., AZ

Dear Mr. Roman:

Enclosed is Asarco's check of $100,000 U.S. for payment due Western Building on January 1, 1990 as per Article 4 of the Norgold Resources, Inc. - Western Building and Mining Co., Inc. Agreement dated December 30, 1988.

Sincerely,

James D. Sell

James D. Sell

JDS:mek

cc: W.L. Kurtz
S.L. Lakosky
M.A. Miller
C.L. Snow
C. Moat - Norgold

ASARCO Incorporated P. O. Box 5747 Tucson, Az 85703-0747
1150 North 7th Avenue (602) 792-3010

JDS

ASARCO

Exploration Department
Southwestern United States Division

James D. Sell
Manager

FEDERAL EXPRESS

December 20, 1989

Mr. Christopher Moat, Chairman
Norgold Resources (US) Inc.
206-475 Howe Street
Vancouver, B.C., V6C-3B3
Canada

Yarnell Project
Yavapai County, AZ

Dear Mr. Moat:

Enclosed is Asarco's check for $20,000 payment due January 1, 1990 as stated in the signed January 25, 1989 letter agreement.

Sincerely,

ORIGINAL SIGNED BY
J. D. SELL

James D. Sell

JDS:mek
enc.

cc: R.L. Brown
W.L. Kurtz
M.A. Miller
C.L. Snow
S.L. Lakosky

ASARCO Incorporated P. O. Box 5747 Tucson, Az 85703-0747
1150 North 7th Avenue (602) 792-3010

JDS
yes

Copy for RLBrown
chance to Sell Yarnell
for cash

DESERT VENTURES, INC.

20 December, 1989

Mr. Bill Kurtz
Manager, Western Exploration
Asarco Inc.
POB 5747
Tucson, Arizona 85703

ASARCO Incorporated
DEC 22 1989
SW Exploration

Dear Mr. Kurtz:

Desert Ventures is a geological consulting firm and has been retained by Cambior to seek out advanced stage projects and joint venture opportunities in the United States. Cambior is a mid-sized Canadian mining company which produced approximately 150,000 ounces of gold in 1989. They have established an exploration office in Reno and are actively carrying out reconnaissance work as well as seeking advanced stage projects.

I have followed the progress of your Yarnell project with a great deal of interest as I was beginning a preliminary evaluation of the project for Cambior when you acquired it. The exploration program has been an unquestioned success, and the Asarco geologists are to be commended for their work. Asarco, like most major mining companies, undoubtably has minimum ore reserve size and production rates which must be met. Should the Yarnell project not meet the size or cash flow requirements of Asarco, I would like to express Cambior's definite interest in discussing with you the outright purchase of Asarco's interest in the Yarnell project.

A copy of the Cambior 1988 annual report is enclosed for your review. Please call on me with any questions you may have regarding Cambior, and I will look forward to hearing from you regarding our proposal.

Yours truly,

Ken Brook

Ken Brook

2305 PLEASURE DR. • RENO, NEVADA 89509 • (702) 825-0719/(702) 348-2032

JDS

DEC 2 7 1989

SW exploration

December 22, 1989

Memo to Sy Lakowsky

Water Pump/Al Roman
Yarnell Project
Yavapai Co, AZ

Al Roman of Western Building and mining(WB&M) Called today to inquire about the status of the water pump at Yarnell. I explained to him that for the time being we were not going to do anything. He then demanded that the water pump be repaired persuant to the agreement that Asarco assumed in the terms of the Joint Venture agreement between Asarco and Norgold Resources.

In reading the terms of the agreement between WB&M and Norgold responsibility for the house has been exempted from the agreement and care and responsibility remain with the owner. We have been doing some of these repairs ourselves for our benefit (more cost effective that motel lodging) and as a "good neighbor". Mr Roman has not charged us any rent on the house. If the pump/well is considered to be included with the house than Mr Roman should be responsible for the repair and mantainence of the pump (pp4,option agreement; section 2,paragraph B). If the well/pump is not included with the house than the issue is in limbo. Mr Roman has threatened additional action if the pump is not repaired. His right to action although somewhat drastic may be covered under pp18, option agreement; section 11,paragraph A which covers terminaton of the agreement by the owner.I told Mr Roman that I would relay his concerns ;thus the purpose of this memo. I think that we need to resolve this issue.

Mark Miller
Project Geologist

attach:

cc:JD Sell

Pump being pulled 12-29-90 to ch problem
SLL OKed expenditure to replace pump
if necessary, according to MM.

due consideration to any written request by NORGOLD to allow commingling but it is agreed and understood that any right of NORGOLD to commingle shall be only such right (if any) as OWNER, in its sole discretion, grants to NORGOLD in writing. NORGOLD shall have the right, at any time during the term hereof, to stockpile any ores mined or produced from the Property at such places on the Property as NORGOLD may elect and such stockpiling shall not be deemed a removal or shipment requiring the payment of production royalties thereon. In no event shall NORGOLD stockpile any of the ore produced from the Property for the purpose of avoiding, delaying or reducing its obligation hereunder to pay production royalties to OWNER. Material deemed by NORGOLD to be waste, overburden or tailings may be deposited by NORGOLD on or off the Property, whether derived from the Property or from adjoining or nearby properties owned, leased or controlled by NORGOLD, provided that nothing herein contained shall lessen or detract from NORGOLD's obligations to perform required reclamation or restoration work as set forth in Section 7(A).

(B) Existing House - OWNER shall retain possession of, and the right to use or lease, the existing house on the Property together with the surface thereunder and within fifty (50) feet of the perimeter thereof until such time (if any) as the closing of the escrow pursuant to NORGOLD's exercise of its option to purchase the Property, whereupon NORGOLD shall become the OWNER of the said house. Until such closing:

(1) the use and maintenance of the house will be at the sole risk and expense of OWNER;

(2) the house will not be used for purposes interfering with NORGOLD's activities on the Property;

(3) if NORGOLD determines that the house has to be moved to carry out its exploration or mining activities, NORGOLD shall give written notice to OWNER describing the site to which the house shall be moved and describing the

route of an access road to such site and NORGOLD will pay all expenses necessary to move the house to such other location and the expenses (if any) of constructing an access road to such location;

(4) the house shall be maintained by OWNER in its present condition, normal wear and tear excepted, until the option to purchase the Property is exercised by NORGOLD;

(5) NORGOLD shall have no responsibility nor liability for or as to the occupants of the house and OWNER shall require that any tenants or other occupants restrict their use and occupation to the house and the area within 50 foot of the perimeter of the house plus the non-exclusive use of the existing access road to the house, or, if the house is moved as described above, the non-exclusive use of the access road referred to in (3) above; and

(6) OWNER will indemnify and save NORGOLD harmless form any liability concerning unauthorized entry of its tenants or other occupants onto the Property occupied by NORGOLD for the purpose of mineral exploration, development and mining.

(C) Equipment; Rental - OWNER shall have the right to continue to store on the Property the various items of its equipment presently located thereon so long as such storage does not interfere with NORGOLD's operations hereunder; provided that OWNER agrees to rent to NORGOLD such items thereof as NORGOLD elects to rent at 40% of the market rental rate, as determined by the current Blue Book of American Equipment Distributors. NORGOLD shall not use any of the equipment prior to entering into a rental agreement with OWNER and except as to equipment leased to NORGOLD, the continued storage on the Property shall be at OWNER's sole risk.

(D) Option to Purchase - OWNER hereby grants to NORGOLD the sole, exclusive and irrevocable option to purchase the Property, which option may be exercised by NORGOLD at any

releasing or satisfying any mortgages, liens or encumbrances) shall be a credit against payments thereafter to be made to OWNER, unless the encumbrance or dispute arises from NORGOLD's failure to perform obligations hereunder, in which case such costs shall be borne by NORGOLD.

(C) Lesser Interest Provisions - If OWNER's title to the claims described in Exhibit A (or any portion thereof) is less than the entire undivided interest in and to all of the claims described in Exhibit A or is subject to a superior adverse interest other than as set forth in Exhibit A, NORGOLD shall have the right to elect to accept such title as OWNER may have by giving notice of such election to OWNER. In such event, since the payments set forth in Paragraph 4 and hereof and the purchase price set forth in Paragraph 6(B) hereof are predicated upon OWNER owning the entire undivided interest in and to the claims described in Exhibit A free and clear of all superior adverse interests other than as set forth in Exhibit A, NORGOLD shall have the right to reduce such payments and the purchase price to the same proportion as the undivided title and interest actually owned by OWNER bears to the entire undivided title and interest in and to the claims described in Exhibit A.

(D) General - Nothing herein contained and no notice or action which may be taken pursuant to this Paragraph 10 shall limit or detract from the right of NORGOLD to terminate this Agreement at any time prior to exercise by NORGOLD of its option to purchase the Property.

11. Termination.

(A) Termination by OWNER - If, at anytime prior to exercise by NORGOLD of its option to purchase the Property, OWNER deems that NORGOLD is in default in the performance of any of its obligations pursuant to this Agreement, OWNER shall give NORGOLD and Escrow Agent written notice of such alleged default, specifying with particularity the nature of the same, and NORGOLD shall not be deemed to be in default hereunder unless within

thirty (30) days after the receipt of such notice NORGOLD shall not have cured or commenced action reasonably designed to cure such default. Upon such failure of NORGOLD and in the event NORGOLD is in fact in default as specified in said notice, OWNER may terminate this Agreement by providing NORGOLD and Escrow Agent written notice of termination; provided, however, that in the event NORGOLD in good faith contests such alleged default, NORGOLD may give written notice to OWNER and Escrow Agent within said thirty (30) day period setting forth such fact and in such event, OWNER shall secure a final judicial determination by a court of competent jurisdiction that NORGOLD is, in fact, in default as set forth in said notice. In the event of such a judicial determination, this Agreement shall not be terminated by OWNER if NORGOLD shall satisfy such judgment within thirty (30) days following the date of the final judicial determination of such default, or, if such judgment cannot be satisfied solely by the payment of money, if NORGOLD shall have failed to commence within said thirty (30) day period action to satisfy such judgment. OWNER shall have no right to terminate this Agreement except for default by NORGOLD of any of its obligation hereunder, in which event such termination shall be in accordance with the provisions of in this Paragraph 11(A).

(B) Complete Termination by NORGOLD - NORGOLD shall have the right to terminate this Agreement in its entirety at any time prior to exercise by NORGOLD of the option to purchase the Property by giving thirty (30) days prior written notice thereof to OWNER, with a copy to the Escrow Agent. Upon the effective date of such termination, all right and interest of NORGOLD under this Agreement shall terminate and NORGOLD shall not be required to make any further payments or to perform any further obligations hereunder, except as to payments or obligations, if any, the due date or incurrence of which occur prior to the date of such termination.

ASARCO

Southwestern Exploration Division

JDS

December 27, 1989

J.D. Sell

Exxon - Santa Fe
Activity ? + Land Status
Yavapai County, Arizona

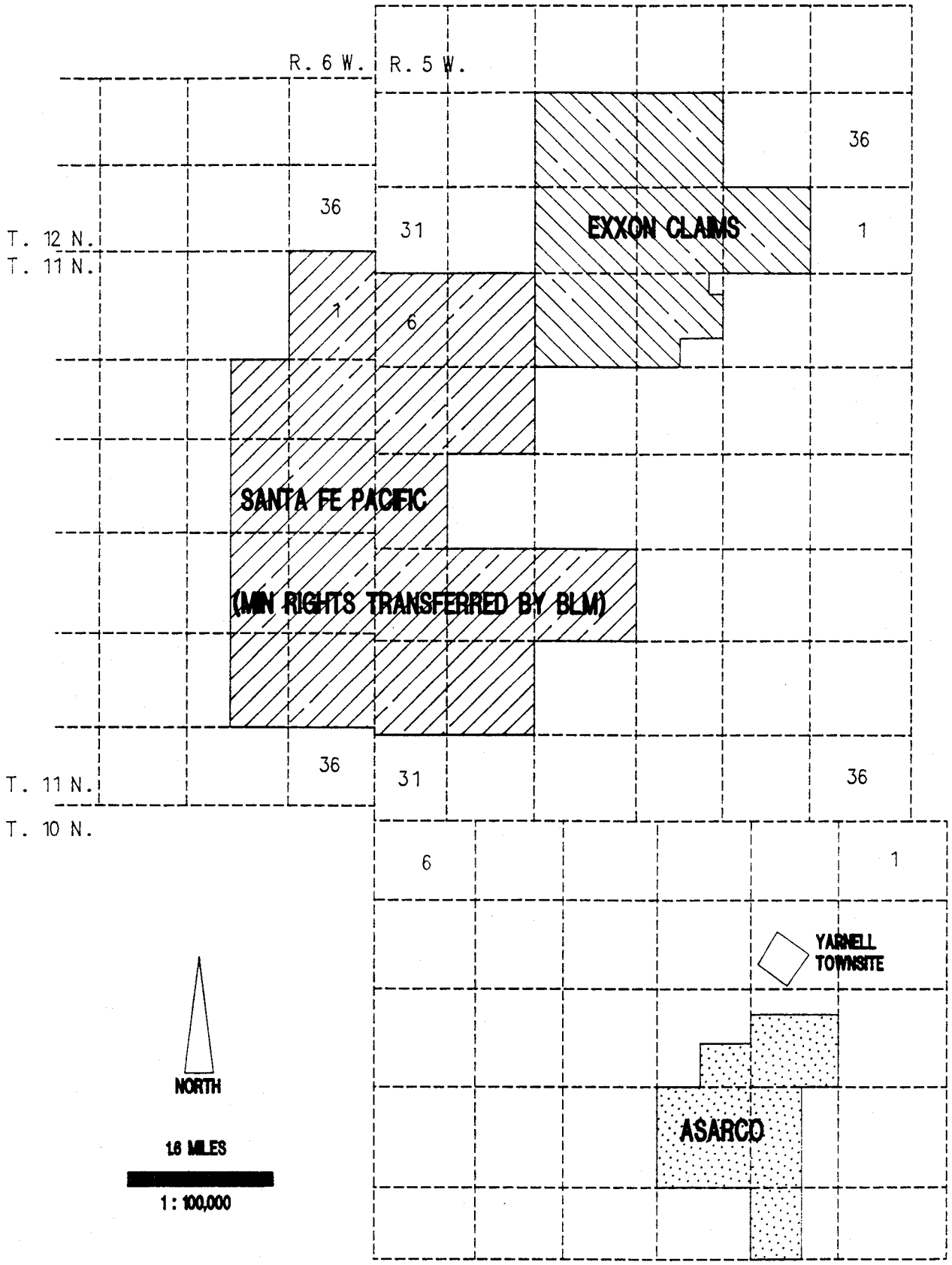
I have recently discovered that Exxon Minerals ? acquired ±200 claims in Yavapai County NW of Yarnell (±9 miles) at the Monte Cristo Mine. These claims were staked in 1980, and according to the records have been assessed each year. The last date of assessment is 1988. The attached copies of microfiche show the Pin claims staked by Exxon. In addition to this, Santa Fe Pacific has recently acquired mineral rights on an exchange basis from the BLM in T11N, R5W, 6W. Approximately 100,000 acres of mineral rights have been exchanged (not all in this area).

The above properties are shown on the attached map (approximate boundaries).

Mark A. Miller
Geologist

MAM:mek
Atts.

cc: W.D. Gay



ASARCO Incorporated

YARNELL AREA LAND POSITION
YAVAPAI COUNTY, ARIZONA

M.A.MILLER 12-22-89

MN 6818 MAM/DAM TUC 12-22-89
FILE YARLAND.DWG

Lead File	County Book;Page	Location Date	Latest Assmt-Yr	Case Closed
[illegible]	1113;0226	12/06/1988	0000	
[illegible]	1090;887	5/15/1977	0000	7/25/1980
[illegible]	1090;888	5/15	0000	7/25/1980
[illegible]	1090;889	5/15	0000	7/25/1980
[illegible]	1090;890	5/15	0000	7/25/1980
[illegible]	1090;891	5/15/1977	0000	7/25/1980
[illegible]	1090;892	5/15/1977	0000	7/25/1980
[illegible]	1090;893	5/15/1977	0000	7/25/1980
10892	1090;894	5/15/1977	0000	7/25/1980
10892	1090;895	5/15/1977	0000	7/25/1980
10892	1090;896	5/15/1977	0000	7/25/1980
10892	1090;897	5/15/1977	0000	7/25/1980
10892	1090;898	5/15/1977	0000	7/25/1980
10892	1090;899	5/15/1977	0000	7/25/1980
10892	1090;900	5/15/1977	0000	7/25/1980
10892	1090;901	5/15/1977	0000	7/25/1980
10892	1090;902	5/15/1977	0000	7/25/1980
10892	1090;903	5/15/1977	0000	7/25/1980
10892	1090;904	5/15/1977	0000	7/25/1980
10892	1090;905	5/15/1977	0000	7/25/1980
10892	1090;906	5/15/1977	0000	7/25/1980
10892	1090;907	5/15/1977	0000	7/25/1980
10892	1090;908	5/15/1977	0000	7/25/1980
10892	1090;909	5/15/1977	0000	7/25/1980
10892	1090;910	5/15/1977	0000	7/25/1980
10892	1090;911	5/15/1977	0000	7/25/1980
10892	1090;912	5/15/1977	0000	7/25/1980
10892	1090;913	5/15/1977	0000	7/25/1980
10892	1090;914	5/15/1977	0000	7/25/1980
10892	1090;915	5/15/1977	0000	7/25/1980
10892	1090;916	5/15/1977	0000	7/25/1980
10892	1090;917	5/15/1977	0000	7/25/1980
10892	1090;918	5/15/1977	0000	7/25/1980
10892	1090;919	5/15/1977	0000	7/25/1980
10892	1090;920	5/15/1977	0000	7/25/1980
10892	1090;921	5/15/1977	0000	7/25/1980
10892	1090;922	5/15/1977	0000	7/25/1980
84486	158;449	7/07/1959	1988	
84486	158;450	7/07/1959	1988	
84486	158;455	7/07/1959	1988	
84486	158;456	7/07/1959	1988	
291908		1/03/1989	0000	
291908		1/03/1989	0000	
292018		1/04/1989	0000	

ON THIS REPORT. NAMES AND ADDRESSES ARE ENTERED AS
[...]FORE THEY MAY NOT APPEAR IN THE EXPECTED SEQUENCE.
[...]AIM. * AFTER S/N INDICATES LAND STATUS CHECKED.

AMERICAN MICRO-DATA

Twnshp	Range	Sec	Subdv	Cty	Dist	Serial No. Case Type	Claim Name/Number	Claimant(s)	Lead File	County Book;Page	Location Date	Latest Assmt-Yr	Case Closed
12 N	5 W	21	S2		2	131492*LD	PIN 91	WELBORN ROBERT	131402	1382;331	5/01/1981	1988	
			SE	25		131539*LD	PIN 138	EXXON	131402	1382;378	5/01/1980	1988	
			NE	25		131584*LD	PIN 183		131402	1382;423	5/02/1980	1988	
			NE	25		131587*LD	PIN 186		131402	1382;426	5/02/1980	1988	
		22	SW	25		131539*LD	PIN 138		131402	1382;378	5/01/1980	1988	
			S2	25		131540*LD	PIN 139		131402	1382;379	5/01/1980	1988	
			SW	25		131541*LD	PIN 140		131402	1382;380	5/01/1980	1988	
			SW	25		131542*LD	PIN 141		131402	1382;381	5/01/1980	1988	
			SW	25		131543*LD	PIN 142		131402	1382;382	5/01/1980	1988	
			SW	25		131544*LD	PIN 143		131402	1382;383	5/01/1980	1988	
			SW	25		131545*LD	PIN 144		131402	1382;384	5/01/1980	1988	
			SW	25		131546*LD	PIN 145		131402	1382;385	5/01/1980	1988	
			S2	25		131550*LD	PIN 149		131402	1382;389	5/01/1980	1988	
			SE	25		131552*LD	PIN 151		131402	1382;391	5/01/1980	1988	
			NW	25		131584*LD	PIN 183		131402	1382;423	5/02/1980	1988	
			NW	25		131585*LD	PIN 184		131402	1382;424	5/02/1980	1988	
			NW	25		131586*LD	PIN 185		131402	1382;425	5/02/1980	1988	
			NW	25		131587*LD	PIN 186		131402	1382;426	5/02/1980	1988	
			NW	25		131588*LD	PIN 187		131402	1382;427	5/02/1980	1988	
			NW	25		131589*LD	PIN 188		131402	1382;428	5/02/1980	1988	
			N2	25		131590*LD	PIN 189		131402	1382;429	5/02/1980	1988	
			N2,SW	25		131591*LD	PIN 190		131402	1382;430	5/02/1980	1988	
			ALL	25		131592*LD	PIN 191		131402	1382;431	5/02/1980	1988	
			S2	25		131593*LD	PIN 192		131402	1382;432	5/02/1980	1988	
			S2	25		131594*LD	PIN 193		131402	1382;433	5/02/1980	1988	
			SE	25		131595*LD	PIN 194		131402	1382;434	5/02/1980	1988	
			SE	25		131596*LD	PIN 195		131402	1382;435	5/02/1980	1988	
			SE	25		131597*LD	PIN 196		131402	1382;436	5/02/1980	1988	
			SE	25		131598*LD	PIN 197		131402	1382;437	5/02/1980	1988	
		23	E2	25		70814 LD	AMERICAN KIRKLAND	BENDER LES	70807	1246;404	9/20/1979	0000	6/17/1982
			SE	25		70815 LD	AMERICAN KIRKLAND #1		70807	1246;406	9/20/1979	0000	6/17/1982
			NW	25		76929 LD	LOST DUTCHMAN	MCCALL JAMES B		137;569	2/16/1933	1980	8/11/1982
			NW	25		76930 LD	CRAZY DUTCHMAN		77929	140;44	2/24/1933	1980	8/11/1982
			NW	25		76931 LD	MOUNTAIN VIEW		77929	140;41	2/24/1933	1980	8/11/1982
			N2	25		76933 LD	HILL TOP		77929	140;45	2/18/1933	1980	8/11/1982
			NW	25		76934 LD	FRACTION		77929	142;238	2/20/1935	1980	8/11/1982
			N2	25		76935 LD	ARASTRA		77929	141;136	1/25/1934	1980	8/11/1982
		26	NE	25		70815 LD	AMERICAN KIRKLAND #1	BENDER LES	70807	1246;406	9/20/1979	0000	6/17/1982
			W2	25		70816 LD	SILVER CHARM		70807	1246;410	9/20/1979	0000	6/17/1982
			NW	25		70817 LD	SILVER CHARM #1		70807	1246;408	9/20/1979	0000	6/17/1982
			SW	25		131566*LD	PIN 165	EXXON	131402	1382;405	5/01/1980	1988	
			SE	25		131601*LD	PIN 200		131402	1382;440	5/02/1980	1988	
			SE	25		131602*LD	PIN 201		131402	1382;441	5/02/1980	1988	
			SE	25		131603*LD	PIN 202		131402	1382;442	5/02/1980	1988	

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AMERICAN MICRO-DATA

Sec	Subdv	Cty	Serial No. Case Type	Claim Name
	SE	15	[illegible]	
	S2	15	154912*	
	SE	15	154913*LD	
	S2	15	154914*LD	J.H.
	SE	15	154915*LD	J.H.
	ALL	15	154916*LD	J.H.
	E2	[illegible]	154917*LD	J.H.
	N2	15	154918*LD	J.H.
	NE	15	154919*LD	J.H.
	N2	15	154920*LD	J.H.
	NE	15	154921*LD	J.H.
	N2	15	154922*LD	J.H.
	NE	15	154923*LD	J.H.
	N2	15	154924*LD	J.H.
	NE	15	154925*LD	J.H. #3176
	N2	15	154926*LD	J.H. #3177
	NE	15	154927*LD	J.H. #3178
	SE	15	155030*LD	J.H. #3265
	SE	15	155032*LD	J.H. #3267
	SE	15	155034*LD	J.H. #3269
	SE	15	155036*LD	J.H. #3271
	E2	15	155038*LD	J.H. #3273
	NE	15	155040*LD	J.H. #3275
	NE	15	155042*LD	J.H. #3277
	NE	15	155044*LD	J.H. #3279
	NE	15	155046*LD	J.H. #3281
	NE	15	155048*LD	J.H. #3283
	NW	15	158251*LD	JUNE H. A.
	NW	15	158253*LD	JUNE H. A.
	NW	15	158255*LD	JUNE H. A.
	NW	15	158257*LD	JUNE H. A.
	NW	15	158259*LD	JUNE H. A.
	SW	15	158261*LD	JUNE H. A.
	SW	15	158263*LD	JUNE H. A.
	SW	15	158265*LD	JUNE H. A.
	SW	15	158267*LD	JUNE H. A.
	SW	15	158269*LD	JUNE H. A.
4	SE	15	154804*LD	J.H. #3055
	SE	15	154806*LD	J.H. #3057
	SE	15	154808*LD	J.H. #3059
	E2	15	154810*LD	J.H. #3061
	NE	15	154812*LD	J.H. #3063
	NE	15	154814*LD	J.H. #3065

* * DISCLOSURE* * ALL INFORMATION RECEIVED IN THIS OFFICE [...]
THEY APPEAR ON THE LOCATION NOTICE OR ARE ABBREVIATED TO F[...]
A BLANK LATEST ASSESSMENT YEAR IN THIS REPORT DOES NOT C[...]

[...]TERIOR

PAGE NO: 4621
PCN: LT892PP1

MERIDIAN: GILA-SALT R.

Claimant(s)	Lead File	County Book;Page	Location Date	Latest Assmt-Yr	Case Closed
	292018		1/04/1989	0000	
	292053		1/09/1989	0000	
[...]RY	292053		1/09/1989	0000	
[...]RY [...]BERT A [...]BERT C [...]RGE [...]BECCA	39246	1037;989	9/07/1976	1988	
[...]BERT A [...]BERT C [...]RGE [...]BECCA	39246	1037;990	9/08/1976	1988	
[...]BERT A [...]BERT C [...]RGE [...]BECCA	39246	1037;991	9/09/1976	1988	
[...]BERT A [...]BERT C [...]RGE [...]BECCA	39246	1037;992	9/10/1976	1988	
[...]BERT A [...]EBEN [...]RY [...]BECCA	41349	1209;164	4/12/1979	1988	
	84486	158;444	7/07/1959	1988	
	84486	158;445	7/07/1959	1988	
	84486	158;446	7/07/1959	1988	
	84486	158;447	7/07/1959	1988	
[...]BERT A [...]BERT C [...]URGE [...]BECCA	39246	1021;111	5/03/1976	1988	
[...]BERT A [...]BERT C [...] [...]BECCA	39246	1021;112	5/03/1976	1988	
[...] A [...] C [...] [...]BECCA	39246	1037;992	9/10/1976	1988	
[...]BERT A	39246	962;276	4/17/1975	1988	
[...]		1209;161	4/12/1979	1988	

[...]PORT. NAMES AND ADDRESSES ARE ENTERED AS
[...]NOT APPEAR IN THE EXPECTED SEQUENCE.
[...]N INDICATES LAND STATUS CHECKED.

12 N 5 W 26 SE

F- 6

REPORT DATE: OCT 18, 1989
ADMINISTRATIVE STATE: ARIZONA

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

PAGE NO: 4636
PCN: LT892PP1

MERIDIAN: GILA-SALT R.

GEOGRAPHIC INDEX
ALL CLAIMS

Twnshp	Range	Sec	Subdv	Geo Cty	BLM Dist	Serial No.	Case Type	Claim Name/Number	Claimant(s)	Lead File	County Book;Page	Location Date	Latest Assmt-Yr	Case Closed
12 N	5 W	26	SE	25	2	131604*	LD	PIN 203	EXXON	131402	1382;443	5/02/1980	1988	
			SE	25		131605*	LD	PIN 204		131402	1382;444	5/02/1980	1988	
		27	SW	25		95712*	LD	PINION NO 10	STALLARD JAMES	95707	1261;708	11/16/1979	1989	
			SW	25		95713*	LD	PINION NO 11		95707	1261;710	11/16/1979	1989	
			SW	25		95714*	LD	PINION NO 12		95707	1261;712	11/16/1979	1989	
			SW	25		95715*	LD	PINION NO 13		95707	1261;714	11/16/1979	1989	
			NW	25		131500*	LD	PIN 99	EXXON	131402	1382;339	5/01/1981	1988	
			NW	25		131502*	LD	PIN 101	WELBORN ROBERT EXXON	131402	1382;341	5/01/1981	1988	
			W2	25		131504*	LD	PIN 103		131402	1382;343	5/01/1981	1988	
			SW	25		131505*	LD	PIN 104		131402	1382;344	5/01/1981	1988	
			NW	25		131506*	LD	PIN 105		131402	1382;345	5/01/1981	1988	
			SW	25		131507*	LD	PIN 106		131402	1382;346	5/01/1981	1988	
			W2	25		131508*	LD	PIN 107		131402	1382;347	5/01/1981	1988	
			SW	25		131509*	LD	PIN 108		131402	1382;348	4/30/1981	1988	
			SW	25		131510*	LD	PIN 109		131402	1382;349	4/30/1981	1988	
			SW	25		131511*	LD	PIN 110		131402	1382;350	4/30/1981	1988	
			SW	25		131512*	LD	PIN 111		131402	1382;351	4/30/1981	1988	
			SW	25		131513*	LD	PIN 112		131402	1382;352	5/01/1980	1988	
			S2	25		131514*	LD	PIN 113		131402	1382;353	5/01/1981	1988	
			SW	25		131515*	LD	PIN 114		131402	1382;354	5/01/1981	1988	
			S2	25		131516*	LD	PIN 115		131402	1382;355	5/01/1981	1988	
			SE	25		131518*	LD	PIN 117		131402	1382;357	5/01/1981	1988	
			SE	25		131520*	LD	PIN 119		131402	1382;359	5/01/1981	1988	
			NW	25		131543*	LD	PIN 142		131402	1382;382	5/01/1980	1988	
			NW	25		131545*	LD	PIN 144		131402	1382;384	5/01/1980	1988	
			NW	25		131547	LD	PIN 146		131402	1382;386	5/01/1980	1988	
			W2,SE	25		131548	LD	PIN 147		131402	1382;387	5/01/1980	1988	
			NW	25		131549*	LD	PIN 148		131402	1382;388	5/01/1980	1988	
			N2	25		131550*	LD	PIN 149		131402	1382;389	5/01/1980	1988	
			NW	25		131551*	LD	PIN 150		131402	1382;390	5/01/1980	1988	
			N2	25		131552*	LD	PIN 151		131402	1382;391	5/01/1980	1988	
			N2,SW	25		131553*	LD	PIN 152		131402	1382;392	5/01/1980	1988	
			N2	25		131554*	LD	PIN 153		131402	1382;393	5/01/1980	1988	
			ALL	25		131555*	LD	PIN 154		131402	1382;394	5/01/1980	1988	
			NE	25		131556*	LD	PIN 155		131402	1382;395	5/01/1980	1988	
			NE,S2	25		131557*	LD	PIN 156		131402	1382;396	5/01/1980	1988	
			S2	25		131558*	LD	PIN 157		131402	1382;397	5/01/1980	1988	
			SE	25		131559*	LD	PIN 158		131402	1382;398	5/01/1980	1988	
			E2	25		131560*	LD	PIN 159		131402	1382;399	5/01/1980	1988	
			SE	25		131561*	LD	PIN 160		131402	1382;400	5/01/1980	1988	
			E2	25		131562*	LD	PIN 161		131402	1382;401	5/01/1980	1988	
			NE	25		131563*	LD	PIN 162		131402	1382;402	5/01/1980	1988	
			E2	25		131564*	LD	PIN 163		131402	1382;403	5/01/1980	1988	

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35 N 5 W 4 NE

REPORT DATE: OCT 18, 1989
ADMINISTRATIVE STATE: ARIZONA

UNITED STAT[...]

Twnshp	Range	Sec	Subdv	Geo Cty	BLM Dist	Serial No. Case Type	Claim Name
35 N	5 W	4	NE	15	1	154816*LD	J.H. #3067
			NE	15		154818*LD	J.H. #3069
			NE	15		154820*LD	J.H. #3071
			NW	15		158142*LD	JUNE H. A.
			N2	15		158143*LD	JUNE H. A.
			NW	15		158144*LD	JUNE H. A.
			N2	15		158145*LD	JUNE H. A.
			NW	15		158146*LD	JUNE H. A.
			N2	15		158147*LD	JUNE H. A.
			NW	15		158148*LD	JUNE H. A.
			N2	15		158149*LD	JUNE H. A.
			NW	15		158150*LD	JUNE H. A.
			N2	15		158151*LD	JUNE H. A.
			SW	15		158152*LD	JUNE H. A.
			S2	15		158153*LD	JUNE H. A.
			SW	15		158154*LD	JUNE H. A.
			S2	15		158155*LD	JUNE H. A.
			SW	15		158156*LD	JUNE H. A.
			S2	15		158157*LD	JUNE H. A.
			SW	15		158158*LD	JUNE H. A.
			S2	15		158159*LD	JUNE H. A.
			SW	15		158160*LD	JUNE H. A.
			S2	15		158161*LD	JUNE H. A.
			NE	15		158250*LD	JUNE H. A.
			NE	15		158251*LD	JUNE H. A.
			NE	15		158252*LD	JUNE H. A.
			NE	15		158253*LD	JUNE H. A.
			NE	15		158254*LD	JUNE H. A.
			NE	15		158255*LD	JUNE H. A.
			NE	15		158256*LD	JUNE H. A.
			NE	15		158257*LD	JUNE H.
			NE	15		158258*LD	JUNE H.
			NE	15		158259*LD	JUNE H.
			SE	15		158260*LD	JUNE H.
			SE	15		158261*LD	JUNE H.
			SE	15		158262*LD	JUNE H.
			SE	15		158263*LD	JUNE H.
			SE	15		158264*LD	JUNE H.
			SE	15		158265*LD	JUNE H.
			SE	15		158266*LD	JUNE H.
			SE	15		158267*LD	JUNE H.
			SE	15		158269*LD	JUNE H.
		5	NW	15		153565*LD	[illegible]
			NW	15		153566*LD	[illegible]

* * DISCLOSURE* * ALL INFORMATION RECEIVED [...]
THEY APPEAR ON THE LOCATION NOTICE OR [...]
A BLANK LATEST ASSESSMENT YEAR IN THI[...]

158;444	7/07/1959	1988
158;445	7/0	1988
158;446	7/	1988
158;447	7/	1988
1021;111	5/03/1976	1988
1021;112	5/03/1976	1988
59246 1037;992	9/10/1976	1988
39246 962;276	4/17/1975	1988
1209;161	4/12/1979	1988

ON THIS REPORT. NAMES AND ADDRESSES ARE ENTERED AS EFORE THEY MAY NOT APPEAR IN THE EXPECTED SEQUENCE. LAIM. * AFTER S/N INDICATES LAND STATUS CHECKED.

AMERICAN MICRO-DATA

SUBDV	CTY	SERIAL NO. CASE TYPE	CLAIM NAME/NUMBER	LEAD FILE	COUNTY BOOK;PAGE	LOCATION DATE	LATEST ASSMT-YR
SE	25	131520*LD	PIN 119				
NW	25	131543*LD	PIN 142	131402	1382;382	5/01/1980	1988
NW	25	131545*LD	PIN 144	131402	1382;384	5/01/1980	1988
NW	25	131547 LD	PIN 146	131402	1382;386	5/01/1980	1988
N2,SE	25	131548 LD	PIN 147	131402	1382;387	5/01/1980	1988
NW	25	131549*LD	PIN 148	131402	1382;388	5/01/1980	1988
N2	25	131550*LD	PIN 149	131402	1382;389	5/01/1980	1988
NW	25	131551*LD	PIN 150	131402	1382;390	5/01/1980	1988
N2	25	131552*LD	PIN 151	131402	1382;391	5/01/1980	1988
N2,SW	25	131553*LD	PIN 152	131402	1382;392	5/01/1980	1988
N2	25	131554*LD	PIN 153	131402	1382;393	5/01/1980	1988
ALL	25	131555*LD	PIN 154	131402	1382;394	5/01/1980	1988
NE	25	131556*LD	PIN 155	131402	1382;395	5/01/1980	1988
NE,S2	25	131557*LD	PIN 156	131402	1382;396	5/01/1980	1988
S2	25	131558*LD	PIN 157	131402	1382;397	5/01/1980	1988
SE	25	131559*LD	PIN 158	131402	1382;398	5/01/1980	1988
E2	25	131560*LD	PIN 159	131402	1382;399	5/01/1980	1988
SE	25	131561*LD	PIN 160	131402	1382;400	5/01/1980	1988
E2	25	131562*LD	PIN 161	131402	1382;401	5/01/1980	1988
NE	25	131563*LD	PIN 162	131402	1382;402	5/01/1980	1988
E2	25	131564*LD	PIN 163	131402	1382;403	5/01/1980	1988

* * DISCLOSURE* * ALL INFORMATION RECEIVED IN THIS OFFICE MAY NOT YET BE LISTED ON THIS REPORT. NAMES AND ADDRESSES ARE ENTERED AS THEY APPEAR ON THE LOCATION NOTICE OR ARE ABBREVIATED TO FIT LIMITED SPACE. THEREFORE THEY MAY NOT APPEAR IN THE EXPECTED SEQUENCE. A BLANK LATEST ASSESSMENT YEAR IN THIS REPORT DOES NOT CONSTITUTE AN ABANDONED CLAIM. * AFTER S/N INDICATES LAND STATUS CHECKED.

AMERICAN MICRO-DATA

NE	15	158259*LD	JUNE H.
NE	15	158260*LD	JUNE H.
SE	15	158261*LD	JUNE H.
SE	15	158262*LD	JUNE H.
SE	15	158263*LD	JUNE H. A
SE	15	158264*LD	JUNE H. A
SE	15	158265*LD	JUNE H. A
SE	15	158266*LD	JUNE H. A
SE	15	158267*LD	JUNE H. A
SE	15	158269*LD	JUNE H. A
5 NW	15	153565*LD	JUNE H. A
NW	15	153566*LD	JUNE H. A

* * DISCLOSURE* * ALL INFORMATION RECEIVED IN THIS OF THEY APPEAR ON THE LOCATION NOTICE OR ARE ABBREVIATED A BLANK LATEST ASSESSMENT YEAR IN THIS REPORT DOES NOT

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PAGE NO: 4622
PCN: LT892PP1

MERIDIAN: GILA-SALT R.

	LEAD FILE	COUNTY BOOK;PAGE	LOCATION DATE	LATEST ASSMT-YR	CASE CLOSED
EBEN		1209;161	4/12/1979	1988	
RY / BECCA / IER		1016;099	5/01/1976	1984	4/17/1986
		901;117	3/10/1974	1979	9/30/1980
	84486	158;443	7/07/1959	1988	
	84486	158;448	7/07/1959	1988	
		1296;975	4/13/1980	1989	
		1323;613-	9/02/1980	1989	
S		1574;264	9/22/1983	1984	3/13/1986
IER			8/08/1984	0000	4/17/1986
AWEH	277310	1994;951	9/07/1987	1989	
		901;117	3/10/1974	1979	9/30/1980
L R	76455	950;34	1/25/1975	1980	1/12/1981
		1243;25	9/09/1979	0000	6/17/1980
		1264;805-	12/10/1979	0000	3/10/1986
		1296;975	4/13/1980	1989	
		1323;613-	9/02/1980	1989	
			12/31/1980	1989	
		1360;267	2/03/1981	1984	3/11/1986
	186256	1484;414	9/02/1982	1989	
	186256	1484;416	9/02/1982	1989	
	186256	1484;418	9/02/1982	1989	
	186256	1484;420	9/02/1982	1989	
	186256	1484;422	9/02/1982	1989	
	186256	1484;424	9/02/1982	1989	

ED ON THIS REPORT. NAMES AND ADDRESSES ARE ENTERED AS EREFORE THEY MAY NOT APPEAR IN THE EXPECTED SEQUENCE. CLAIM. * AFTER S/N INDICATES LAND STATUS CHECKED.

AMERICAN MICRO-DATA

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12 N 5 W 27 SE

G- 6

REPORT DATE: OCT 18, 1989
ADMINISTRATIVE STATE: ARIZONA

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

PAGE NO: 4637
PCN: LT892PP1

MERIDIAN: GILA-SALT R.

GEOGRAPHIC INDEX
ALL CLAIMS

TWNSHP	RANGE	SEC	SUBDV	GEO CTY	BLM DIST	SERIAL NO. CASE TYPE	CLAIM NAME/NUMBER	CLAIMANT(S)	LEAD FILE	COUNTY BOOK;PAGE	LOCATION DATE	LATEST ASSMT-YR	CASE CLOSED
12 N	5 W	27	SE	25	2	131565*LD	PIN 164	EXXON	131402	1382;404	5/01/1980	1988	
			SE	25		131566*LD	PIN 165		131402	1382;405	5/01/1980	1988	
			SE	25		131567*LD	PIN 166		131402	1382;406	5/01/1980	1988	
			NE	25		131596*LD	PIN 195		131402	1382;435	5/02/1980	1988	
			NE	25		131597*LD	PIN 196		131402	1382;436	5/02/1980	1988	
			NE	25		131598*LD	PIN 197		131402	1382;437	5/02/1980	1988	
			NE	25		131599*LD	PIN 198		131402	1382;438	5/02/1980	1988	
			NE	25		131600*LD	PIN 199		131402	1382;439	5/02/1980	1988	
		28	ALL	25		31326*LD	PINION 2	SEWELL PAT STALLARD JAMES ISLER SAM		1184;633	12/04/1978	1989	
			S2	25		31327*LD	PINION 3	SEWELL PAT STALLARD JAMES ISLER SAM	31326	1184;635	12/04/1978	1989	
			S2	25		31328*LD	PINION 4	SEWELL PAT STALLARD JAMES ISLER SAM	31326	1184;637	12/04/1978	1989	
			S2	25		31329*LD	PINION 5	SEWELL PAT STALLARD JAMES	31326	1184;639	12/04/1978	1989	
			W2	25		95707*LD	PINION NO 1	ISLER SAM STALLARD JAMES		1261;690	11/16/1979	1989	
			SE	25		95708*LD	PINION NO 6		95707	1261;700	11/16/1979	1989	
			SE	25		95709*LD	PINION NO 7		95707	1261;702	11/16/1979	1989	
			SE	25		95710*LD	PINION NO 8		95707	1261;704	11/16/1979	1989	
			SE	25		95713*LD	PINION NO 11		95707	1261;710	11/16/1979	1989	
			SE	25		95714*LD	PINION NO 12		95707	1261;712	11/16/1979	1989	
			SE	25		95715*LD	PINION NO 13		95707	1261;714	11/16/1979	1989	
			E2	25		95716*LD	PINION NO 14		95707	1261;716	11/16/1979	1989	
			E2	25		95717*LD	PINION NO 15		95707	1261;718	11/16/1979	1989	
			E2	25		95718*LD	PINION NO 16		95707	1261;720	11/16/1979	1989	
			N2	25		95719*LD	PINION NO 17		95707	1261;722	11/16/1979	1989	
			N2	25		95720*LD	PINION NO 18		95707	1261;724	11/16/1979	1989	
			SW	25		131402*LD	PIN 1	EXXON		1382;241	5/04/1981	1988	
			SW	25		131403*LD	PIN 2		131402	1382;242	5/04/1981	1988	
			SW	25		131404*LD	PIN 3	WELBORN ROBERT EXXON	131402	1382;243	5/04/1981	1988	
			SW	25		131406*LD	PIN 5	WELBORN ROBERT EXXON	131402	1382;245	5/03/1981	1988	
			NW	25		131443*LD	PIN 42	WELBORN ROBERT EXXON	131402	1382;282	5/03/1981	1988	
			NW	25		131444*LD	PIN 43	WELBORN ROBERT EXXON	131402	1382;283	5/03/1981	1988	
			NW	25		131445*LD	PIN 44	WELBORN ROBERT EXXON	131402	1382;284	5/03/1981	1988	

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AMERICAN MICRO-DATA

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35 N 5 W 5 NW

REPORT DATE: OCT 18, 1989
ADMINISTRATIVE STATE: ARIZONA

UNITED ST

TWNSHP	RANGE	SEC	SUBDV	GEO CTY	BLM DIST	SERIAL NO. CASE TYPE	CLAIM NAME
35 N	5 W	5	NW	15	1	153567*LD	JUNE H. A
			NW	15		153568*LD	JUNE H. A
			NW	15		153569*LD	JUNE H. A
			NW	15		153570*LD	JUNE H. A
			NW	15		153571*LD	JUNE H. A
			NW	15		153572*LD	JUNE H. A
			NW	15		153573*LD	JUNE H. A
			NW	15		153574*LD	JUNE H. A
			SW	15		153575*LD	JUNE H. A
			SW	15		153576*LD	JUNE H. A
			SW	15		153577*LD	JUNE H. A
			SW	15		153578*LD	JUNE H. A
			N2	15		153615*LD	JUNE H. A
			NE	15		153616*LD	JUNE H. A
			N2	15		153617*LD	JUNE H. A
			NE	15		153618*LD	JUNE H. A
			N2	15		153619*LD	JUNE H. A
			NE	15		153620*LD	JUNE H. A
			N2	15		153621*LD	JUNE H. A
			NE	15		153622*LD	JUNE H. A
			N2	15		153623*LD	JUNE H. A
			NE	15		153624*LD	JUNE H. A
			S2	15		153625*LD	JUNE H. A
			SE	15		153626*LD	JUNE H. A
			S2	15		153627*LD	JUNE H. A
			SE	15		153628*LD	JUNE H. A
			S2	15		153629*LD	JUNE H. A
			SE	15		153630*LD	JUNE H. A
			S2	15		153631*LD	JUNE H. A
			SE	15		153632*LD	JUNE H. A
			S2	15		153633*LD	JUNE H. A
			SE	15		153634*LD	JUNE H. A
			SW	15		154496*LD	JUNE H. A
			SW	15		154497*LD	JUNE H. A
			SW	15		154498*LD	JUNE H. A
			SW	15		154499*LD	JUNE H. A
			SW	15		154500*LD	JUNE H. A
			SW	15		154501*LD	JUNE H. A
		6	NW	15		96500*LD	SIN 0145H
			N2	15		152563*LD	JUNE H.A09
			NE	15		152564*LD	JUNE H.A09
			N2	15		152565*LD	JUNE H.A09
			NE	15		152566*LD	JUNE H.A09
			N2	15		152567*LD	JUNE H.A

* * DISCLOSURE* * ALL INFORMATION RECEIVED IN THIS OF THEY APPEAR ON THE LOCATION NOTICE OR ARE ABBREVIATED A BLANK LATEST ASSESSMENT YEAR IN THIS REPORT DOES NO

PAGE NO: 4623
PCN: LT892PP1

MERIDIAN: GILA-SALT R.

LOCATION DATE	LATEST ASSMT-YR	CASE CLOSED
9/15/1982	1989	
1982	1989	

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12 N 5 W 28 NW

H- 6

REPORT DATE: OCT 18, 1989
ADMINISTRATIVE STATE: ARIZONA

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

PAGE NO: 4638
PCN: LT892PP1

MERIDIAN: GILA-SALT R.

GEOGRAPHIC INDEX
ALL CLAIMS

TWNSHP	RANGE	SEC	SUBDV	GEO CTY	BLM DIST	SERIAL NO. CASE TYPE	CLAIM NAME/NUMBER	CLAIMANT(S)	LEAD FILE	COUNTY BOOK;PAGE	LOCATION DATE	LATEST ASSMT-YR	CASE CLOSED
12 N	5 W	28	NW		2	131445*LD	PIN 44	WELBORN ROBERT EXXON	131402	1382;284	5/03/1981	1988	
			NW	25		131446*LD	PIN 45	WELBORN ROBERT EXXON	131402	1382;285	5/03/1981	1988	
			NW	25		131447*LD	PIN 46	WELBORN ROBERT EXXON	131402	1382;286	5/03/1981	1988	
			NW	25		131448*LD	PIN 47	WELBORN ROBERT EXXON	131402	1382;287	5/01/1981	1988	
						131449*LD	PIN 48		131402	1382;288	5/01/1981	1988	

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35 N 5 W 6 NE

REPORT DATE: OCT 18, 1989
ADMINISTRATIVE STATE: ARIZONA

- -LEGAL DESCRIPTION- - GEO BLM
TWNSHP RANGE SEC SUBDV CTY DIST

35 N 5 W 6 NE

	9/02/1982	1989	
	9/0	1989	
1484;424	9/02/1982	1989	

...THIS REPORT, NAMES AND ADDRESSES ARE ENTERED AS ...RE THEY MAY NOT APPEAR IN THE EXPECTED SEQUENCE. ...M. * AFTER S/N INDICATES LAND STATUS CHECKED.

AMERICAN MICRO-DATA

SUBDV	CTY	SERIAL NO.	CLAIM NAME/NUMBER	CLAIMANT(S)	LEAD FILE	COUNTY BOOK;PAGE	LOCATION DATE	LATEST ASSMT-YR
SW	25	131404*LD	PIN 3	EXXON	131402	1382;243	5/04/1981	1988
SW	25	131406*LD	PIN 5	WELBORN ROBERT EXXON	131402	1382;245	5/03/1981	1988
NW	25	131443*LD	PIN 42	WELBORN ROBERT EX	131402	1382;282	5/03/1981	1988
NW	25	131444*LD	PIN 43	ROBERT E	131402	1382;283	5/03/1981	1988
NW	25	131445*LD	PIN 44	WELBORN ROBERT EXXON	131402	1382;284	5/03/1981	1988

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AMERICAN MICRO-DATA

SUBDV	CTY	SERIAL NO.
SW	15	154501*LD
NW		96500*LD
N2	15	152563*LD
N2		152564*LD
N2		152565*LD
N2		152566*LD
N2	15	152567*LD

* * DISCLOSURE* * ALL INFORMATION RECEIVED IN THIS OFFI... THEY APPEAR ON THE LOCATION NOTICE OR ARE ABBREVIATED TO... A BLANK LATEST ASSESSMENT YEAR IN THIS REPORT DOES NOT ...

...RIOR PAGE NO: 4623 PCN: LT892PP1

MERIDIAN: GILA-SALT R.

LEAD FILE	COUNTY BOOK;PAGE	LOCATION DATE	LATEST ASSMT-YR	CASE CLOSED
186256	1485;802	9/15/1982	1989	
	1484;410	9/02/1982	1989	
	1503;252	12/10/1982	1988	
	1574;264	9/22/1983	1984	3/13/1986
207862	1574;265	8/12/1983	1984	3/13/1986
207862	1574;266	8/12/1983	1984	3/13/1986
207862	1574;267	8/12/1983	1984	3/13/1986
207862	1574;268	8/12/1983	1984	3/13/1986
207862	1574;269	8/12/1983	1984	3/13/1986
207862	1574;270	8/12/1983	1984	3/13/1986
207862	1574;271	8/12/1983	1984	3/13/1986
207862	1574;272	8/12/1983	1984	3/13/1986
207862	1574;273	8/12/1983	1984	3/13/1986
207862	1574;274	8/12/1983	1985	3/09/1987
	1579;409	10/08/1983	1985	4/29/1987
	1581;583	11/01/1983	1988	
210446	1581;585	11/01/1983	1988	
210446	1581;587	11/01/1983	1988	
226985	; 00	8/08/1984	0000	4/17/1986
231291	1679;385	11/18/1984	1985	3/02/1987
270789		6/24/1987	0000	3/10/1989
277310	1994;951	9/07/1987	1989	
277310	1994;952	9/07/1987	1989	
277310	1994;953	9/07/1987	1989	
277310	1994;954	9/07/1987	1989	
277310	1994;955	9/07/1987	1989	
277310	1994;956	9/07/1987	1989	
277310	1994;957	9/07/1987	1989	
277310	1994;958	9/07/1987	1989	
277310	1994;959	9/07/1987	1989	
277310	1994;960	9/07/1987	1989	

...ON THIS REPORT, NAMES AND ADDRESSES ARE ENTERED AS ...EFORE THEY MAY NOT APPEAR IN THE EXPECTED SEQUENCE. ...LAIM. * AFTER S/N INDICATES LAND STATUS CHECKED.

AMERICAN MICRO-DATA

12 N 5 W 28 NW — H- 6

REPORT DATE: OCT 18, 1989 — UNITED STATES DEPARTMENT OF THE INTERIOR — PAGE NO: 4638
ADMINISTRATIVE STATE: ARIZONA — BUREAU OF LAND MANAGEMENT — PCN: LT892PP1

GEOGRAPHIC INDEX ALL CLAIMS — MERIDIAN: GILA-SALT R.

TWNSHP	RANGE	SEC	SUBDV	GEO CTY	BLM DIST	SERIAL NO.	CASE TYPE	CLAIM NAME/NUMBER	CLAIMANT(S)	LEAD FILE	COUNTY BOOK;PAGE	LOCATION DATE	LATEST ASSMT-YR	CASE CLOSED
12 N	5 W	28	NW		2	131445*LD		PIN 44	WELBORN ROBERT	131402	1382;284	5/03/1981	1988	
			NW	25		131446*LD		PIN 45	EXXON WELBORN ROBERT	131402	1382;285	5/03/1981	1988	
			NW	25		131447*LD		PIN 46	EXXON WELBORN ROBERT	131402	1382;286	5/03/1981	1988	
			NW	25		131448*LD		PIN 47	EXXON WELBORN ROBERT	131402	1382;287	5/01/1981	1988	
			W2	25		131449*LD		PIN 48	EXXON WELBORN ROBERT	131402	1382;288	5/01/1981	1988	
			NW	25		131450*LD		PIN 49	EXXON WELBORN ROBERT	131402	1382;289	5/01/1981	1988	
			W2	25		131451*LD		PIN 50	EXXON WELBORN ROBERT	131402	1382;290	4/30/1981	1988	
			W2	25		131452*LD		PIN 51	EXXON WELBORN ROBERT	131402	1382;291	4/30/1981	1988	
			SW	25		131453*LD		PIN 52	EXXON WELBORN ROBERT	131402	1382;292	4/30/1981	1988	
			W2	25		131454*LD		PIN 53	EXXON WELBORN ROBERT	131402	1382;293	4/30/1981	1988	
			SW	25		131455*LD		PIN 54	EXXON WELBORN ROBERT	131402	1382;294	4/30/1981	1988	
			SW	25		131456*LD		PIN 55	EXXON WELBORN ROBERT	131402	1382;295	4/30/1981	1988	
			SW	25		131457*LD		PIN 56	EXXON WELBORN ROBERT	131402	1382;296	4/30/1981	1988	
			SW	25		131458*LD		PIN 57	EXXON WELBORN ROBERT	131402	1382;297	4/30/1981	1988	
			SW	25		131459*LD		PIN 58	EXXON WELBORN ROBERT	131402	1382;298	4/30/1981	1988	
			SW	25		131460*LD		PIN 59	EXXON WELBORN ROBERT	131402	1382;299	4/30/1981	1988	
			S2	25		131461*LD		PIN 60	EXXON WELBORN ROBERT	131402	1382;300	4/30/1981	1988	
			SE	25		131462*LD		PIN 61	EXXON WELBORN ROBERT	131402	1382;301	4/30/1981	1988	
			SE	25		131463*LD		PIN 62	EXXON WELBORN ROBERT	131402	1382;302	4/30/1981	1988	
			SE	25		131464*LD		PIN 63	EXXON WELBORN ROBERT	131402	1382;303	4/30/1981	1988	
			N2	25		131491*LD		PIN 90	EXXON WELBORN ROBERT	131402	1382;330	5/01/1981	1988	
			NE	25		131492*LD		PIN 91	EXXON WELBORN ROBERT	131402	1382;331	5/01/1981	1988	
			N2	25		131493*LD		PIN 92	EXXON	131402	1382;332	5/01/1981	1988	

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AMERICAN MICRO-DATA

35 N 5 W 6 NE

REPORT DATE: OCT 18, 1989 — UNITED STA...
ADMINISTRATIVE STATE: ARIZONA

TWNSHP	RANGE	SEC	SUBDV	GEO CTY	BLM DIST	SERIAL NO.	CLAIM NAME
35 N	5 W	6	NE	15	1	152568*LD	JUNE H.A090
			N2	15		152569*LD	JUNE H.A090
			NE	15		152570*LD	JUNE H.A090
			ALL	15		152571*LD	JUNE H.A090
			NE	15		152572*LD	JUNE H.A091
			S2	15		152573*LD	JUNE H.A091
			SE	15		152574*LD	JUNE H.A091
			S2	15		152575*LD	JUNE H.A091
			SE	15		152576*LD	JUNE H.A091
			S2	15		152577*LD	JUNE H.A091
			SE	15		152578*LD	JUNE H.A091
			S2	15		152579*LD	JUNE H.A091
			SE	15		152580*LD	JUNE H.A091
			S2	15		152581*LD	JUNE H.A091
			SE	15		152582*LD	JUNE H.A092
			NE	15		153565*LD	JUNE H. A01
			NE	15		153567*LD	JUNE H. A01
			NE	15		153569*LD	JUNE H. A01
			NE	15		153571*LD	JUNE H. A01
			NE	15		153573*LD	JUNE H. A01
			SE	15		153575*LD	JUNE H. A01
			SE	15		153577*LD	JUNE H. A01
			SE	15		154496*LD	JUNE H. A01
			SE	15		154498*LD	JUNE H. A01
			SE	15		154500*LD	JUNE H. A01
			NW	15		164785*LD	JUNE H.A.79
			NW	15		164786*LD	JUNE H.A.79
			NW	15		164787*LD	JUNE H.A.79
			NW	15		164788*LD	JUNE H.A.79
			NW	15		164789*LD	JUNE H.A.79
			NW	15		164790*LD	JUNE H.A.79
			NW	15		164791*LD	JUNE H.A.79
			NW	15		164792*LD	JUNE H.A.80
			NW	15		164793*LD	JUNE H.A.80
			NW	15		164794*LD	JUNE H.A.80
			W2	15		1. 795*LD	JUNE H.A.80
			W2	15		164796*LD	JUNE H.A.80
			SW	15		164797*LD	JUNE H.A.805
			SW	15		164798*LD	JUNE H.A.806
			SW	15		164799*LD	JUNE H.A.807
			SW	15		164800*LD	JUNE H.A.808
			SW	15		164801*LD	JUNE H.A.809
			SW	15		164802*LD	JUNE H.A.810
			SW	15		164803*LD	JUNE H.A.811

* * DISCLOSURE* * ALL INFORMATION RECEIVED IN THIS OFFIC... THEY APPEAR ON THE LOCATION NOTICE OR ARE ABBREVIATED TO... A BLANK LATEST ASSESSMENT YEAR IN THIS REPORT DOES NOT ...

PAGE NO: 4624 PCN: LT892PP1

MERIDIAN: GILA-SALT R.

LEAD FILE	COUNTY BOOK;PAGE	LOCATION DATE	LATEST ASSMT-YR	CASE CLOSED
	1994;961	9/07/1987	1989	
	2052;0496	5/08/1988	1989	
	2144;0120	3/13/1989	0000	
	;0118	3/13/1989	0000	
		6/17/1989	0000	
		1/30/1961	1989	
		2/07/1979	1988	
		5/25/1979	1989	
		7/06/1979	1981	4/03/1986
		6/05/1955	1988	

12 N 5 W 28 N2 — I- 6

REPORT DATE: OCT 18, 1989 — UNITED STATES DEPARTMENT OF THE INTERIOR — PAGE NO: 4639
ADMINISTRATIVE STATE: ARIZONA — BUREAU OF LAND MANAGEMENT — PCN: LT892PP1

GEOGRAPHIC INDEX ALL CLAIMS — MERIDIAN: GILA-SALT R.

TWNSHP	RANGE	SEC	SUBDV	GEO CTY	BLM DIST	SERIAL NO.	CASE TYPE	CLAIM NAME/NUMBER	CLAIMANT(S)	LEAD FILE	COUNTY BOOK;PAGE	LOCATION DATE	LATEST ASSMT-YR	CASE CLOSED
12 N	5 W	28	N2		2	131493*LD		PIN 92	WELBORN ROBERT	131402	1382;332	5/01/1981	1988	
			E2	25		131494*LD		PIN 93	EXXON WELBORN ROBERT	131402	1382;333	5/01/1981	1988	
			N2	25		131495*LD		PIN 94	EXXON WELBORN ROBERT	131402	1382;334	5/01/1981	1988	
			NE	25		131496*LD		PIN 95	EXXON WELBORN ROBERT	131402	1382;335	5/01/1981	1988	
			NE	25		131497*LD		PIN 96	EXXON WELBORN ROBERT	131402	1382;336	5/01/1981	1988	
			NE	25		131498*LD		PIN 97	EXXON WELBORN ROBERT	131402	1382;337	5/01/1981	1988	
			NE	25		131499*LD		PIN 98	EXXON WELBORN ROBERT	131402	1382;338	5/01/1981	1988	
			NE	25		131500*LD		PIN 99	EXXON WELBORN ROBERT	131402	1382;339	5/01/1981	1988	
			NE	25		131501*LD		PIN 100	EXXON	131402	1382;340	5/01/1981	1988	
			NE	25		131502*LD		PIN 101		131402	1382;341	5/01/1981	1988	
			E2	25		131503*LD		PIN 102		131402	1382;342	5/01/1981	1988	
			E2	25		131504*LD		PIN 103		131402	1382;343	5/01/1981	1988	
								PIN 104		131402	1382;344	5/01/1981	1988	

35 N 5 W 6 SW

REPORT DATE: OCT 18, 1989 — UNITED ...
ADMINISTRATIVE STATE: ARIZONA

TWNSHP	RANGE	SEC	SUBDV	GEO CTY	BLM DIST	SERIAL NO.
35 N	5 W	6	SW	15	1	164804*LD
		7	N2	15		152581*LD
			NE	15		15258 LD
			N2	15		152583*LD
			NE	15		152584*LD
			N2	15		152585
			NE	15		152586
			N2	15		[illegible]
			NE	15		[illegible]
			ALL	15		[illegible]
			NE	15		[illegible]
			S2	15		[illegible]
			SE	15		[illegible]
			S2	15		[illegible]
			SE	15		[illegible]
			SE	15		[illegible]

[illegible] GILA-SALT R.

LEAD FILE	COUNTY BOOK;PAGE	LOCATION DATE	LATEST ASSMT-YR	CASE CLOSED
[illegible]	[illegible]	3/23/19[illegible]	[illegible]987	3/07/1989
[illegible]	[illegible]	4/08/1980	0000	9/12/1985
[illegible]	[illegible]	1/01/1981	1988	
[illegible]	1350;967	1/01/1981	1988	
119670	1350;969	1/01/1981	1988	
	1350;253	11/09/1980	0000	4/03/1986
	1419;135	10/21/1981	1982	5/09/1986
	1433;518	11/29/1981	1985	5/13/1987
148229	1433;516	11/29/1981	1985	5/13/1987
	1484;412	9/02/1982	1989	
186256	1484;414	9/02/1982	1989	
186256	1484;424	9/02/1982	1989	
186256	1484;426	9/02/1982	1989	
	1484;410	9/02/1982	1989	
	1491;104	10/07/1982	1988	
	1513;668	2/01/1983	1989	
	1513;612	1/29/1983	0000	4/03/1986
	1513;670	2/01/1983	1989	

THIS REPORT, NAMES AND ADDRESSES ARE ENTERED AS
E THEY MAY NOT APPEAR IN THE EXPECTED SEQUENCE.
1. * AFTER S/N INDICATES LAND STATUS CHECKED.

AMERICAN MICRO-DATA

ALL CLAIMS

TWNSHP	RANGE	SEC	SUBDV	GEO CTY	BLM DIST	SERIAL NO.	CASE TYPE	CLAIM NAME/NUMBER	CLAIMANT(S)	LEAD FILE	COUNTY BOOK;PAGE	LOCATION DATE	LATEST ASSMT-YR	CASE CLOSED
12 N	5 W	33	NW		2	131410*	LD	PIN 9	WEL[illegible]BERT EXXON	131402	1382;249	5/03/1981	1988	
			W2	25		131411*	LD	PIN 10	WELBORN ROBERT EXXON	131402	1382;250	5/03/1981	1988	
			NW	25		131412*	LD	PIN 11	WELBORN ROBERT EXXON	131402	1382;251	5/03/1981	1988	
			SW	25		131413*	LD	PIN 12	WELBORN ROBERT EXXON	131402	1382;252	4/30/1980	1988	
			N2,SW	25		131414*	LD	PIN 13	WELBORN ROBERT EXXON	131402	1382;253	4/30/1980	1988	
			SW	25		131415*	LD	PIN 14	WELBORN ROBERT EXXON	131402	1382;254	4/30/1980	1988	
			ALL	25		131416*	LD	PIN 15	WELBORN ROBERT EXXON	131402	1382;255	4/30/1980	1988	
			SW	25		131417*	LD	PIN 16	WELBORN ROBERT EXXON	131402	1382;256	4/30/1980	1988	
			NE,S2	25		131418*	LD	PIN 17	WELBORN ROBERT EXXON	131402	1382;257	4/30/1980	1988	
			S2	25		131419*	LD	PIN 18	WELBORN ROBERT EXXON	131402	1382;258	4/30/1980	1988	
			SE	25		131420*	LD	PIN 19	WELBORN ROBERT EXXON	131402	1382;259	4/30/1980	1988	
			S2	25		131421*	LD	PIN 20	WELBORN ROBERT EXXON	131402	1382;260	4/30/1981	1988	
			SE	25		131422*	LD	PIN 21	WELBORN ROBERT EXXON	131402	1382;261	4/30/1980	1988	
			SE	25		131423*	LD	PIN 22	WELBORN ROBERT EXXON	131402	1382;262	4/30/1980	1988	
			SE	25		131424*	LD	PIN 23	WELBORN ROBERT EXXON	131402	1382;263	4/30/1980	1988	
			SE	25		131426*	LD	PIN 25	WELBORN ROBERT EXXON	131402	1382;265	4/30/1980	1988	
			SE	25		131428*	LD	PIN 27	WELBORN ROBERT EXXON	131402	1382;267	4/30/1980	1988	
			NW	25		131459*	LD	PIN 58	WELBORN ROBERT EXXON	131402	1382;298	4/30/1981	1988	
			NW	25		131461*	LD	PIN 60	WELBORN ROBERT EXXON	131402	1382;300	4/30/1981	1988	
			N2	25		131463*	LD	PIN 62	WELBORN ROBERT EXXON	131402	1382;302	4/30/1981	1988	
			NE	25		131464*	LD	PIN 63	WELBORN ROBERT EXXON	131402	1382;303	4/30/1981	1988	
			N2	25		131465*	LD	PIN 64	WELBORN ROBERT EXXON	131402	1382;304	4/30/1981	1988	
			NE	25		131466*	LD	PIN 65	WELBORN ROBERT EXXON	131402	1382;305	4/30/1981	1988	

* * DISCLOSURE* * ALL INFORMATION RECEIVED IN THIS OFFICE MAY NOT YET BE LISTED ON THIS REPORT. NAMES AND ADDRESSES ARE ENTERED AS THEY APPEAR ON THE LOCATION NOTICE OR ARE ABBREVIATED TO FIT LIMITED SPACE; THEREFORE THEY MAY NOT APPEAR IN THE EXPECTED SEQUENCE. A BLANK LATEST ASSESSMENT YEAR IN THIS REPORT DOES NOT CONSTITUTE AN ABANDONED CLAIM. * AFTER S/N INDICATES LAND STATUS CHECKED.

AMERICAN MICRO-DATA

TWNSHP	RANGE	SEC	SUBDV	GEO CTY	BLM DIST	SERIAL NO.	CASE TYPE	CLAIM NAME/NUMBER
35 N	5 W	7	SW	15		[illegible]4816*	LD	[illegible]
			SW	15		[illegible]4817*	LD	[illegible]
			SW	15		[illegible]4818*	LD	[illegible]
			SW	15		164819*	LD	[illegible] H. A. [illegible]
			SW	15		164820*	LD	[illegible] H. A. [illegible]
			SW	15		164821*	LD	[illegible] H. A. [illegible]
			SW	15		164822*	LD	[illegible] H. A[illegible]
		8	N2	15		153633*	LD	[illegible] H. A0[illegible]
			NE	15		153634*	LD	[illegible] H. A[illegible]
			N2	15		153635*	LD	[illegible] H. A0[illegible]
			NE	15		153636*	LD	[illegible] H. A0[illegible]
			N2	15		153637*	LD	JUNE H. A0[illegible]
			SE	15		153638*	LD	JUNE H. A0[illegible]
			N2	15		153639*	LD	JUNE H. A0115[illegible]
			NE	15		153640*	LD	JUNE H. A0115[illegible]
			ALL	15		153641*	LD	JUNE H. A0115[illegible]
			NE	15		153642*	LD	JUNE H. A0115[illegible]
			S2	15		153643*	LD	JUNE H. A0115[illegible]
			SE	15		153644*	LD	JUNE H. A0115[illegible]
			S2	15		153645*	LD	JUNE H. A0115[illegible]
			SE	15		153646*	LD	JUNE H. A01158
			S2	15		153647*	LD	JUNE H. A01159
			SE	15		153648*	LD	JUNE H. A01160
			NW	15		154500*	LD	JUNE H. A01027
			NW	15		154501*	LD	JUNE H. A01028
			NW	15		154502*	LD	JUNE H. A01029
			NW	15		154503*	LD	JUNE H. A01030
			NW	15		154504*	LD	JUNE H. A01031
			NW	15		154505*	LD	JUNE H. A01032
			NW	15		154506*	LD	JUNE H. A01033
			NW	15		154507*	LD	JUNE H. A01034
			NW	15		154508*	LD	JUNE H. A01035
			NW	15		154509*	LD	JUNE H. A01036
			SW	15		154510*	LD	JUNE H. A01037
			SW	15		154511*	LD	JUNE H. A01038
			SW	15		154512*	LD	JUNE H. A01039
			SW	15		154513*	LD	JUNE H. A01040
			SW	15		154514*	LD	JUNE H. A01041
			SW	15		154515*	LD	JUNE H. A01042
			SW	15		154516*	LD	JUNE H. A01043
			SW	15		154517*	LD	JUNE H. A01044
			SW	15		154518*	LD	JUNE H. A01045
			SW	15		154519*	LD	JUNE H. A01046
			S2	15		154594*	LD	JUNE H. A01161

* * DISCLOSURE* * ALL INFORMATION RECEIVED IN THIS OFFICE M[illegible]
THEY APPEAR ON THE LOCATION NOTICE OR ARE ABBREVIATED TO FI[illegible]
A BLANK LATEST ASSESSMENT YEAR IN THIS REPORT DOES NOT CON[illegible]

[illegible]IOR PAGE NO: 4626
PCN: LT892PP1

MERIDIAN: GILA-SALT R.

LEAD FILE	COUNTY BOOK;PAGE	LOCATION DATE	LATEST ASSMT-YR	CASE CLOSED
	1513;670	2/01/1983	1989	
	1503;246	12/10/1982	1988	
	1503;252	12/10/1982	1988	
191542	1503;246	12/10/1982	1988	6/23/1989
	1562;77	5/30/1983	1988	
203692	1562;79	5/30/1983	1988	
203692	1562;81	5/30/1983	1988	
203692	1562;83	5/30/1983	1988	
203692	1562;85	5/30/1983	1988	
203692	1562;87	5/30/1983	1988	
203692	1562;89	5/30/1983	1988	
203692	1562;91	5/30/1983	1988	
203692	1562;93	5/30/1983	1988	
207705	1575;520	10/05/1983	1988	
[illegible]7705	1575;518	10/05/1983	1988	
	1679;778	10/07/1984	1985	5/13/1987
[illegible]806	1679;780	10/06/1984	1985	5/13/1987
[illegible]8755	1844;774	8/05/1986	1988	
[illegible]8755	1844;775	8/05/1986	1988	
[illegible]8755	1844;776	8/05/1986	1988	
[illegible]	1844;777	8/05/1986	1988	
[illegible]	1844;778	8/05/1986	1988	
[illegible]	1844;779	8/05/1986	1988	
[illegible]	1844;780	8/05/1986	1988	
[illegible]	[illegible]781	8/05/1986	1988	
[illegible]	[illegible]782	8/05/1986	1988	
[illegible]	[illegible]783	8/05/1986	1988	

[illegible] ADDRESSES ARE ENTERED AS

12 N 5 W 33 NE

K- 6

REPORT DATE: OCT 18, 1989
ADMINISTRATIVE STATE: ARIZONA

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

PAGE NO: 4641
PCN: LT892PP1

MERIDIAN: GILA-SALT R.

GEOGRAPHIC INDEX
ALL CLAIMS

TWNSHP	RANGE	SEC	SUBDV	GEO CTY	BLM DIST	SERIAL NO.	CASE TYPE	CLAIM NAME/NUMBER	CLAIMANT(S)	LEAD FILE	COUNTY BOOK;PAGE	LOCATION DATE	LATEST ASSMT-YR	CASE CLOSED
12 N	5 W	33	NE		2	131466*	LD	PIN 65	WELBORN ROBERT EXXON	131402	1382;305	4/30/1981	1988	
			SE	25		131467*	LD	PIN 66	WELBORN ROBERT EXXON	131402	1382;306	4/30/1981	1988	
			NE	25		131468*	LD	PIN 67	WELBORN ROBERT EXXON	131402	1382;307	4/30/1981	1988	
			NE	25		131469*	LD	PIN 68	WELBORN ROBERT EXXON	131402	1382;308	4/30/1981	1988	
			NE	25		131470*	LD	PIN 69	WELBORN ROBERT EXXON	131402	1382;309	4/30/1981	1988	
			E2	25		131471*	LD	PIN 70	WELBORN ROBERT EXXON	131402	1382;310	4/30/1981	1988	
			NE	25		131472*	LD	PIN 71	WELBORN ROBERT EXXON	131402	1382;311	4/30/1981	1988	
			E2	25		131473*	LD	PIN 72	WELBORN ROBERT EXXON	131402	1382;312	4/30/1981	1988	
			NE	25		131474*	LD	PIN 73	WELBORN ROBERT EXXON	131402	1382;313	4/30/1981	1988	
			E2	25		131475*	LD	PIN 74	WELBORN ROBERT EXXON	131402	1382;314	4/30/1981	1988	
			SE	25		131477*	LD	PIN 76	WELBORN ROBERT EXXON	131402	1382;316	5/03/1981	1988	
			SE	25		131479*	LD	PIN 78	WELBORN ROBERT EXXON	131402	1382;318	5/03/1981	1988	
		34	SW	25		39682	LD	MONTE CRISTO #1	CHEATWOOD CHET		1195;916	1/31/1979	1979	8/25/1983
			S2	25		39683	LD	MONTE CRISTO #2		39682	1195;918	1/31/1979	1979	8/25/1983
			SE	25		39684	LD	MONTE CRISTO #3		39682	1195;920	1/31/1979	1979	8/25/1983
			SE	25		39685	LD	MONTE CRISTO #4		39682	1195;922	1/31/1979	1979	8/25/1983
			S2	25		39686	LD	MONTE CRISTO #5		39682	1195;924	1/31/1979	1979	8/25/1983
			SW	25		39687	LD	MONTE CRISTO #6		39682	1195;926	1/31/1979	1979	8/25/1983
			SW	25		39688	LD	MONTE CRISTO #7		39682	1195;928	1/31/1979	1979	8/25/1983
			SW	25		39689	LD	MONTE CRISTO #8		39682	1195;930	1/31/1979	1979	8/25/1983
			SW	25		39690	LD	MONTE CRISTO #9		39682	1195;932	1/31/1979	1979	8/25/1983
			SW	25		39691	LD	MONTE CRISTO #10		39682	1195;934	1/31/1979	1979	8/25/1983
			SW	25		39692	LD	MONTE CRISTO #11		39682	1195;936	1/31/1979	1979	8/25/1983
			S2	25		39693	LD	MONTE CRISTO #12		39682	1195;938	1/31/1979	1979	8/25/1983
			SE	25		81977*	LD	MONTE CRISTO #1	MONTE CRISTO MINING		371;389	9/01/1965	1989	
			SE	25		81978*	LD	MONTE CRISTO #2		81977	371;390	9/01/1965	1989	
			SE	25		81979*	LD	MONTE CRISTO #3		81977	371;391	9/01/1965	1989	
			SE	25		81980*	LD	MONTE CRISTO #4		81977	371;392	9/01/1965	1989	
			SE	25		81981*	LD	MONTE CRISTO #5		81977	371;393	9/01/1965	1989	
			SE	25		81982*	LD	MONTE CRISTO #6		81977	371;394	9/01/1965	1989	
			SE	25		81983*	LD	MONTE CRISTO #7		81977	371;395	9/01/1965	1989	
			SE	25		81984*	LD	MONTE CRISTO #8		81977	371;396	9/01/1965	1989	
			SE	25		81985*	LD	MONTE CRISTO #9		81977	371;397	9/01/1965	1989	

* * DISCLOSURE* * ALL INFORMATION RECEIVED IN THIS OFFICE MAY NOT YET BE LISTED ON THIS REPORT. NAMES AND ADDRESSES ARE ENTERED AS THEY APPEAR ON THE LOCATION NOTICE OR ARE ABBREVIATED TO FIT LIMITED SPACE; THEREFORE THEY MAY NOT APPEAR IN THE EXPECTED SEQUENCE. [illegible] DOES NOT CONSTITUTE AN ABANDONED CLAIM. * AFTER S/N INDICATES LAND STATUS CHECKED.

35 N 5 W 8 SE

REPORT DATE: OCT 18, 1989
ADMINISTRATIVE STATE: ARIZONA

UNITED STAT[illegible]
BUREA[illegible]

TWNSHP	RANGE	SEC	SUBDV	GEO CTY	BLM DIST	SERIAL NO.	CASE TYPE	CLAIM NAME/NUMBER
35 N	5 W	8	SE	15	1	154555*	LD	JUNE H. A011[illegible]
			S2	15		154556*	LD	JUNE H. A011[illegible]
			SE	15		154557*	LD	JUNE H. A011[illegible]
		9	SW	15		154328*	LD	JUNE H. A0[illegible]
			SE	15		154784*	LD	J.H. 03035
			SE	15		154786*	LD	J.H. 03037
			SE	15		154788*	LD	J.H. 03039
			SE	15		154790*	LD	J.H. 03041
			SE	15		154792*	LD	J.H. 03043
			NE	15		154794*	LD	J.H. 03045
			NE	15		154796*	LD	J.H. 03047
			NE	15		154798*	LD	J.H. 03049
			NE	15		154800*	LD	J.H. 03051
			E2	15		154802*	LD	J.H. 03053
			NW	15		158160*	LD	JUNE H. A. [illegible]
			N2	15		158161*	LD	JUNE H. A. [illegible]
			NW	15		158162*	LD	JUNE H. A. [illegible]
			N2	15		158163*	LD	JUNE H. A. [illegible]
			NW	15		158164*	LD	JUNE H. A. [illegible]
			N2	15		158165*	LD	JUNE H. A. [illegible]
			NW	15		158166*	LD	JUNE H. A. [illegible]
			N2	15		158167*	LD	JUNE H. A. [illegible]
			NW	15		158168*	LD	JUNE H. A. [illegible]
			N2	15		158169*	LD	JUNE H. A. [illegible]
			SW	15		158170*	LD	JUNE H. A. [illegible]
			S2	15		158171*	LD	JUNE H. A. [illegible]
			SW	15		158172*	LD	JUNE H. A. [illegible]
			S2	15		158173*	LD	JUNE H. A. [illegible]
			SW	15		158174*	LD	JUNE H. A. [illegible]
			S2	15		158175*	LD	JUNE H. A[illegible]
			SW	15		158176*	LD	JUNE H. A[illegible]
			S2	15		158177*	LD	JUNE H. [illegible]
			SW	15		158178*	LD	JUNE H. A[illegible]
			S2	15		158179*	LD	JUNE H. [illegible]
			NE	15		158268*	LD	[illegible]
			NE	15		158269*	LD	[illegible]
			NE	15		158270*	LD	[illegible]
			NE	15		158271*	LD	[illegible]
			NE	15		158272*	LD	[illegible]
			NE	15		15827[illegible]	[illegible]	[illegible]
			NE	15		15827[illegible]	[illegible]	[illegible]
			NE	15		15827[illegible]	[illegible]	[illegible]
			NE	15		[illegible]	[illegible]	[illegible]
			SE	15		[illegible]	[illegible]	[illegible]

* * DISCLOSURE* * ALL INFORMAT[illegible]
THEY APPEAR ON THE LOCATION [illegible]
A BLANK LATEST ASSESSMENT [illegible]

[illegible] GILA-SALT R.

LEAD FILE	COUNTY BOOK;PAGE	LOCATION DATE	LATEST ASSMT-YR	CASE CLOSED
[illegible]	[illegible];789	8/05/1986	[illegible]88	
[illegible]	[illegible];0699	2/02/1989	0000	
[illegible]	[illegible];0086	5/03/1989	0000	
[illegible]	[illegible];0084	5/03/1989	0000	
39682	1195;934	1/31/1979	1979	8/25/1983
39682	1195;936	1/31/1979	1979	8/25/1983
39682	1195;938	1/31/1979	1979	8/25/1983
39682	1195;940	1/31/1979	1979	8/25/1983
39682	1195;942	1/31/1979	1979	8/25/1983
39682	1195;944	1/31/1979	1979	8/25/1983
131402	1382;271	4/30/1980	1988	
131402	1382;272	4/30/1980	1988	
131402	1382;273	4/30/1980	1988	
131402	1382;274	4/30/1980	1988	
131402	1382;275	4/30/1980	1988	
131402	1382;276	4/30/1980	1988	
131402	1382;277	4/30/1980	1988	
131402	1382;278	4/30/1980	1988	
131402	1382;279	4/30/1980	1988	
131402	1382;280	4/30/1980	1988	
131402	1382;281	4/30/1980	1988	
131402	1382;320	5/03/1981	1988	
131402	1382;321	5/03/1981	1988	
131402	1382;322	5/03/1981	1988	
131402	1382;323	5/03/1981	1988	
131402	1382;324	5/03/1981	1988	
131402	1382;325	5/03/1981	1988	

IS REPORT. NAMES AND ADDRESSES ARE ENTERED AS THEY MAY NOT APPEAR IN THE EXPECTED SEQUENCE. * AFTER S/N INDICATES LAND STATUS CHECKED.

AMERICAN MICRO-DATA

GEOGRAPHIC INDEX
ALL CLAIMS

TWNSHP	RANGE	SEC	SUBDV	GEO CTY	BLM DIST	SERIAL NO.	CASE TYPE	CLAIM NAME/NUMBER	CLAIMANT(S)	LEAD FILE	COUNTY BOOK;PAGE	LOCATION DATE	LATEST ASSMT-YR	CASE CLOSED
12 N	5 W	34	SE	25	2	81986*	LD	MONTE CRISTO #10	MONTE [illegible] MINING	81977	371;398	9/01/1965	1989	
			SE	25		81987*	LD	MONTE CRISTO #11		81977	371;399	9/01/1965	1989	
			SE	25		81988*	LD	MONTE CRISTO #12		81977	371;400	9/01/1965	1989	
			NW	25		95711*	LD	PINION NO 9	STALLARD JAMES	95707	1261;706	11/16/1979	1989	
			NW	25		95712*	LD	PINION NO 10		95707	1261;708	11/16/1979	1989	
			NW	25		131472*	LD	PIN 71	EXXON WELBORN ROBERT	131402	1382;311	4/30/1981	1988	
			NW	25		131474*	LD	PIN 73	EXXON WELBORN ROBERT	131402	1382;313	4/30/1981	1988	
			W2	25		131475*	LD	PIN 74	EXXON WELBORN ROBERT	131402	1382;314	4/30/1981	1988	
			W2	25		131476*	LD	PIN 75	EXXON WELBORN ROBERT	131402	1382;315	4/30/1981	1988	
			SW	25		131477*	LD	PIN 76	EXXON WELBORN ROBERT	131402	1382;316	5/03/1981	1988	
			W2	25		131478*	LD	PIN 77	EXXON WELBORN ROBERT	131402	1382;317	5/03/1981	1988	
			SW	25		131479*	LD	PIN 78	EXXON WELBORN ROBERT	131402	1382;318	5/03/1981	1988	
			W2	25		131480*	LD	PIN 79	EXXON WELBORN ROBERT	131402	1382;319	5/03/1981	1988	
			SE	25		131482*	LD	PIN 81	EXXON WELBORN ROBERT	131402	1382;321	5/03/1981	1988	
			SE	25		131484*	LD	PIN 83	EXXON WELBORN ROBERT	131402	1382;323	5/03/1981	1988	
			SE	25		131486*	LD	PIN 85	EXXON WELBORN ROBERT	131402	1382;325	5/03/1981	1988	
			NW	25		131513*	LD	PIN 112	EXXON	131402	1382;352	5/01/1980	1988	
			NW	25		131515*	LD	PIN 114		131402	1382;354	5/01/1981	1988	
			NW	25		131516*	LD	PIN 115		131402	1382;355	5/01/1981	1988	
			N2	25		131517*	LD	PIN 116		131402	1382;356	5/01/1981	1988	
			N2	25		131518*	LD	PIN 117		131402	1382;357	5/01/1981	1988	
			N2	25		131519*	LD	PIN 118		131402	1382;358	5/01/1981	1988	
			NE	25		131520*	LD	PIN 119		131402	1382;359	5/01/1981	1988	
			N2	25		131521*	LD	PIN 120		131402	1382;360	5/01/1981	1988	
			NE	25		131522*	LD	PIN 121		131402	1382;361	5/01/1981	1988	
			ALL	25		131523*	LD	PIN 122		131402	1382;362	5/01/1981	1988	
			NE	25		131524*	LD	PIN 123		131402	1382;363	5/01/1981	1988	
			E2	25		131525*	LD	PIN 124		131402	1382;364	5/01/1980	1988	
			NE	25		131526*	LD	PIN 125		131402	1382;365	5/01/1980	1988	
			SE	25		131527*	LD	PIN 126		131402	1382;366	5/01/1980	1988	
			E2	25		131528*	LD	PIN 127		131402	1382;367	5/01/1980	1988	
			SE	25		131529*	LD	PIN 128		131402	1382;368	5/01/1980	1988	
			SE	25		131530*	LD	PIN 129		131402	1382;369	5/01/1980	1988	

* * DISCLOSURE* * ALL INFORMATION RECEIVED IN THIS OFFICE MAY NOT YET BE LISTED ON THIS REPORT. NAMES AND ADDRESSES ARE ENTERED AS THEY APPEAR ON THE LOCATION NOTICE OR ARE ABBREVIATED TO FIT LIMITED SPACE, THEREFORE THEY MAY NOT APPEAR IN THE EXPECTED SEQUENCE. A BLANK LATEST ASSESSMENT YEAR IN THIS REPORT DOES NOT CONSTITUTE AN ABANDONED CLAIM. * AFTER S/N INDICATES LAND STATUS CHECKED.

AMERICAN MICRO-DATA

TWNSHP	RANGE	SEC	SUBDV	GEO CTY	BLM DIST	SERIAL NO.	CASE TYPE	CLAIM NAME/NUMBER
35 N	5 W	9	SE	15	1[illegible]	[illegible]279*	LD	JUNE H. A. [illegible]
			SE	15		[illegible]280*	LD	JUNE H. A. [illegible]
			SE	15		[illegible]281*	LD	JUNE H. A. [illegible]
			SE	15		158282*	LD	JUNE H. A. [illegible]
			SE	15		158283*	LD	JUNE H. A. [illegible]
			SE	15		158284*	LD	JUNE H. A. [illegible]
			SE	15		158285*	LD	JUNE H. A. [illegible]
			SE	15		158286*	LD	JUNE H. A. [illegible]
			SE	15		158287*	LD	JUNE H. A. [illegible]
		10	SW	15		154784*	LD	J.H. #3035
			SW	15		154785*	LD	J.H. #3036
			SW	15		154786*	LD	J.H. #3037
			SW	15		154787*	LD	J.H. #3038
			SW	15		154788*	LD	J.H. #3039
			SW	15		154789*	LD	J.H. #3040
			SW	15		154790*	LD	J.H. #3041
			SW	15		154791*	LD	J.H. #3042
			SW	15		154792*	LD	J.H. #3043
			SW	15		154793*	LD	J.H. #3044
			SW	15		154794*	LD	J.H. #3045
			NW	15		154795*	LD	J.H. #3046
			NW	15		154796*	LD	J.H. #3047
			NW	15		154797*	LD	J.H. #3048
			NW	15		154798*	LD	J.H. #3049
			NW	15		154799*	LD	J.H. #3050
			NW	15		154800*	LD	J.H. #3051
			NW	15		154801*	LD	J.H. #3052
			N2	15		154802*	LD	J.H. #3053
			NW	15		154803*	LD	J.H. #3054
			S2	15		154890*	LD	J.H. #3141
			SE	15		154891*	LD	J.H. #3142
			S2	15		154892*	LD	J.H. #3143
			SE	15		154893*	LD	J.H. #3144
			S2	15		154894*	LD	J.H. #3145
			SE	15		154895*	LD	J.H. #3146
			S2	15		154896*	LD	J.H. #3147
			SE	15		154897*	LD	J.H. #3148
			S2	15		154898*	LD	J.H. #3149
			SE	15		154899*	LD	J.H. #3150
			N2	15		154900*	LD	J.H. #3151
			NE	15		154901*	LD	J.H. #3152
			N2	15		154902*	LD	J.H. #3153
			NE	15		154903*	LD	J.H. #3154
			N2	15		154904*	LD	J.H. #3155

* * DISCLOSURE* * ALL INFORMATION RECEIVED IN THIS OFFICE MAY THEY APPEAR ON THE LOCATION NOTICE OR ARE ABBREVIATED TO FIT LI A BLANK LATEST ASSESSMENT YEAR IN THIS REPORT DOES NOT CONSTIT

MERIDIAN: GILA-SALT R.

LEAD FILE	COUNTY BOOK;PAGE	LOCATION DATE	LATEST ASSMT-YR	CASE CLOSED
131402	1382;325	5/03/1981	1988	
131402	1382;326	5/03/1981	1988	
131402	1382;327	5/03/1981	1988	
131402	1382;328	5/03/1981	1988	
131402	1382;329	5/03/1981	1988	
	1483;550	8/18/1982	0000	9/06/1985
186407	1483;549	8/18/1982	0000	9/06/1985
186407	1483;551	8/18/1982	0000	9/06/1985
203379	1561;397	8/19/1983	0000	8/12/1985
203379	1561;399	8/19/1983	0000	8/12/1985
203379	1561;401	8/19/1983	0000	8/12/1985
203379	1561;403	8/19/1983	0000	8/12/1985
203379	1561;405	8/19/1983	0000	8/12/1985
39682	1195;934	1/31/1979	1979	8/25/1983
131402	1382;258	4/30/1980	1988	
131402	1382;260	4/30/1981	1988	
131402	1382;262	4/30/1980	1988	
131402	1382;264	4/30/1980	1988	
131402	1382;265	4/30/1980	1988	
131402	1382;266	4/30/1980	1988	
[illegible]	1382;267	4/30/1980	1988	
[illegible]	1382;268	4/30/1980	1988	
[illegible]	1382;269	4/30/1980	1988	
[illegible]	1382;270	4/30/1980	1988	
[illegible]	1382;271	4/30/1980	1988	
[illegible]	1382;272	4/30/1980	1988	
[illegible]	[illegible];273	4/30/1980	1988	

[illegible]. NAMES AND ADDRESSES ARE ENTERED AS

12 N 5 W 34 SE

M- 6

REPORT DATE: OCT 18, 1989
ADMINISTRATIVE STATE: ARIZONA

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

MERIDIAN: GILA-SALT R.

GEOGRAPHIC INDEX
ALL CLAIMS

TWNSHP	RANGE	SEC	SUBDV	GEO CTY	BLM DIST	SERIAL NO.	CASE TYPE	CLAIM NAME/NUMBER	CLAIMANT(S)	LEAD FILE	COUNTY BOOK;PAGE	LOCATION DATE	LATEST ASSMT-YR	CASE CLOSED
12 N	5 W	34	SE	25	2	131531*	LD	PIN 130	EXXON	131402	1382;370	5/01/1980	1988	
			SE	25		131532*	LD	PIN 131		131402	1382;371	5/01/1980	1988	
			SE	25		131533*	LD	PIN 132		131402	1382;372	5/01/1980	1988	
			SE	25		131535*	LD	PIN 134		131402	1382;374	5/01/1980	1988	
			SE	25		131537*	LD	PIN 136		131402	1382;376	5/01/1980	1988	
			NE	25		131565*	LD	PIN 164		131402	1382;404	5/01/1980	1988	
			NE	25		131567*	LD	PIN 166		131402	1382;406	5/01/1980	1988	
			NE	25		131569*	LD	PIN 168		131402	1382;408	5/01/1980	1988	
			NE	25		131571*	LD	PIN 170		131402	1382;410	5/01/1980	1988	
			SW	25		186407	LD	PIN 80			1483;550	8/18/1982	0000	9/06/1985
			SW	25		186408	LD	PIN 207		186407	1483;549	8/18/1982	0000	9/06/1985
			SW	25		186409	LD	PIN 208		186407	1483;551	8/18/1982	0000	9/06/1985
			SW	25		203379	LD	MONTE CRISTO #1	BALDWIN EDWARD		1561;377	8/19/1983	0000	8/12/1985
			S2	25		203380	LD	MONTE CRISTO #2		203379	1561;379	8/19/1983	0000	8/12/1985
			SE	25		203381	LD	MONTE CRISTO #3		203379	1561;381	8/18/1983	0000	8/12/1985
			SE	25		203382	LD	MONTE CRISTO #4		203379	1561;383	8/18/1983	0000	8/12/1985
			S2	25		203383	LD	MONTE CRISTO #5		203379	1561;385	8/19/1983	0000	8/12/1985
			SW	25		203384	LD	MONTE CRISTO #6		203379	1561;387	8/19/1983	0000	8/12/1985
			SW	25		203385	LD	MONTE CRISTO #7		203379	1561;389	8/19/1983	0000	8/12/1985
			SW	25		203386	LD	MONTE CRISTO #8		203379	1561;391	8/19/1983	0000	8/12/1985
			SW	25		203387	LD	MONTE CRISTO #9		203379	1561;393	8/19/1983	0000	8/12/1985
			SW	25		203390	LD	MONTE CRISTO #12		203379	1561;399	8/19/1983	0000	8/12/1985
		35	NW	25		131526*	LD	PIN 125	EXXON	131402	1382;365	5/01/1980	1988	
			NW	25		131528*	LD	PIN 127		131402	1382;367	5/01/1980	1988	
			W2	25		131530*	LD	PIN 129		131402	1382;369	5/01/1980	1988	
			SW	25		131531*	LD	PIN 130		131402	1382;370	5/01/1980	1988	
			W2	25		131532*	LD	PIN 131		131402	1382;371	5/01/1980	1988	
			SW	25		131533*	LD	PIN 132		131402	1382;372	5/01/1980	1988	
			SW	25		131534*	LD	PIN 133		131402	1382;373	5/01/1980	1988	
			SW	25		131535*	LD	PIN 134		131402	1382;374	5/01/1980	1988	
			SW	25		131536*	LD	PIN 135		131402	1382;375	5/01/1980	1988	
			SW	25		131537*	LD	PIN 136		131402	1382;376	5/01/1980	1988	
			S2	25		131538*	LD	PIN 137		131402	1382;377	5/01/1980	1988	
			NW	25		131567*	LD	PIN 166		131402	1382;406	5/01/1980	1988	
			NW	25		131568*	LD	PIN 167		131402	1382;407	5/01/1980	1988	
			NW	25		131569*	LD	PIN 168		131402	1382;408	5/01/1980	1988	
			NW	25		131570*	LD	PIN 169		131402	1382;409	5/01/1980	1988	
			NW	25		131571*	LD	PIN 170		131402	1382;410	5/01/1980	1988	
			N2	25		131572*	LD	PIN 171		131402	1382;411	5/01/1980	1988	
			NW	25		131573*	LD	PIN 172		131402	1382;412	5/01/1980	1988	
			N2	25		131574*	LD	PIN 173		131402	1382;413	5/01/1980	1988	
			NW	25		131575*	LD	PIN 174		131402	1382;414	5/01/1980	1988	
			N2	25		131576*	LD	PIN 175		131402	1382;415	5/01/1980	1988	
			N2	25		131577*	LD	PIN 176		131402	1382;416	5/01/1980	1988	

* * DISCLOSURE* * ALL INFORMATION RECEIVED IN THIS OFFICE MAY NOT YET BE LISTED ON THIS REPORT. NAMES AND ADDRESSES ARE ENTERED AS THEY APPEAR ON THE LOCATION NOTICE OR ARE ABBREVIATED TO FIT LIMITED SPACE, THEREFORE THEY MAY NOT APPEAR IN THE EXPECTED SEQUENCE. [illegible] CLAIM. * AFTER S/N INDICATES LAND STATUS CHECKED.

35 N 5 W 10 NE

REPORT DATE: OCT 18, 1989
ADMINISTRATIVE STATE: A[illegible]A

UNITED STATES DE
BUREAU OF

GEOG

TWNSHP	RANGE	SEC	SUBDV	GEO CTY	BLM DIST	SERIAL NO.	CASE TYPE	CLAIM NAME/NUMBE
35 N	5 W	10	NE	15	1	154905*	LD	J.H. #3156
			N2	15		154906*	LD	J.H. #3157
			NE	15		154907*	LD	J.H. #3158
			N2	15		154908*	LD	J.H. #3159
			NE	15		154909*	LD	J.H. #3160
			SE	15		155012*	LD	J.H. #3247
			SE	15		155014*	LD	J.H. #3249
			SE	15		155016*	LD	J.H. #3251
			SE	15		155018*	LD	J.H. #3253
			SE	15		155020*	LD	J.H. #3255
			NE	15		155022*	LD	J.H. #3257
			NE	15		155024*	LD	J.H. #3259
			NE	15		155026*	LD	J.H. #3261
			NE	15		155028*	LD	J.H. #3263
			NE	15		155030*	LD	J.H. #3265
			NW	15		158269*	LD	JUNE H. A. #01362
			NW	15		158271*	LD	JUNE H. A. #01364
			NW	15		158273*	LD	JUNE H. A. #01366
			NW	15		158275*	LD	JUNE H. A. #01368
			NW	15		158277*	LD	JUNE H. A. #01370
			SW	15		158279*	LD	JUNE H. A. #01372
			SW	15		158281*	LD	JUNE H. A. #01374
			SW	15		158283*	LD	JUNE H. A. #01376
			SW	15		158285*	LD	JUNE H. A. #01378
			SW	15		158287*	LD	JUNE H. A. #0138[illegible]
		11	SW	15		155012*	LD	J.H. #3247
			S2	15		155013*	LD	J.H. #3248
			SW	15		155014*	LD	J.H. #3249
			S2	15		155015*	LD	J.H. #3250
			SW	15		155016*	LD	J.H. #3251
			S2	15		155017*	LD	J.H. #325[illegible]
			SW	15		155018*	LD	J.H. #3253
			S2	15		155019*	LD	J.H. #3254
			SW	15		155020*	LD	J.H. #3255
			S2	15		155021*	LD	J.H. #32[illegible]
			NW	15		155022*	LD	J.H. [illegible]
			N2	15		155023*	LD	J.H. [illegible]
			NW	15		155024*	LD	J.H. [illegible]
			N2	15		155025*	LD	J.H. [illegible]
			NW	15		155026*	LD	J.H. [illegible]
			N2	15		155027*	LD	J.H. [illegible]
			NW	15		155028*	LD	J.H. [illegible]
			N2	15		155029*	LD	J.H. [illegible]
			NW	15		155030*	LD	[illegible]

* * DISCLOSURE* * ALL INFORMATION [illegible] THEY APPEAR ON THE LOCATION NOTICE [illegible] A BLANK LATEST ASSESSMENT YEAR IN [illegible]

PAGE NO: 4629
PCN: LT892PP1

MERIDIAN: GILA-SALT R.

LEAD FILE	COUNTY BOOK;PAGE	LOCATION DATE	LATEST ASSMT-YR	CASE CLOSED
131402	1382;274	4/30/1980	1988	
131402	1382;276	4/30/1980	1988	
131402	1382;278	4/30/1980	1988	
203379	1561;395	8/19/1983	0000	8/12/1985
203379	1561;397	8/19/1983	0000	8/12/1985
77164	921;567	2/15/1967	1979	9/15/1983
	1345;514	12/15/1980	1981	10/11/1985
119507	1345;516	12/15/1980	1981	10/11/1985
119507	1345;518	12/15/1980	1981	10/11/1985
119507	1345;520	12/15/1980	1981	10/11/1985
119507	1345;522	12/15/1980	1981	10/11/1985
119507	1345;524	12/15/1980	1981	10/11/1985
	1511;247	12/29/1982	1983	10/11/1985
191226	1511;249	12/29/1982	1983	10/11/1985
191226	1511;251	12/29/1982	1983	10/11/1985
191226	1511;253	12/29/1982	1983	10/11/1985
191226	1511;255	12/29/1982	1983	10/11/1985
191226	1511;257	12/29/1982	1983	10/11/1985
	; \\	9/03/1984	1985	4/06/1987
227810	; 00	9/03/1984	1985	4/06/1987
227810	; 00	9/03/1984	1985	4/06/1987
227810	; 00	9/03/1984	1985	4/06/1987
227810	; 00	9/03/1984	1985	4/06/1987
227810	; 00	9/03/1984	1985	4/06/1987
227810	; 00	9/03/1984	1985	4/06/1987
292610	2116;0047	1/23/1989	1989	
292610	2116;0049	1/23/1989	1989	
296159	2152;0082	5/23/1989	1989	
296159	2152;0084	5/23/1989	1989	
296159	2152;0086	5/23/1989	1989	

D ON THIS REPORT, NAMES AND ADDRESSES ARE ENTERED AS
REFORE THEY MAY NOT APPEAR IN THE EXPECTED SEQUENCE.
CLAIM, * AFTER S/N INDICATES LAND STATUS CHECKED.

12 N 5 W 35 N2

REPORT DATE: OCT 18, 1989
ADMINISTRATIVE STATE: ARIZONA

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

GEOGRAPHIC INDEX
ALL CLAIMS

PAGE NO: 4644
PCN: LT892PP1

MERIDIAN: GILA-SALT R.

TWNSHP	RANGE	SEC	SUBDV	CTY	DIST	GEO BLM NO.	SERIAL CASE TYPE	CLAIM NAME/NUMBER	CLAIMANT(S)	LEAD FILE	COUNTY BOOK;PAGE	LOCATION DATE	LATEST ASSMT-YR	CASE CLOSED
12 N	5 W	35	N2	25	2	131578	LD	PIN 177	EXXON	131402	1382;417	5/01/1980	1988	
			N2,SW	25		131579	LD	PIN 178		131402	1382;418	5/01/1980	1988	
			SE	25		131580	LD	PIN 179		131402	1382;419	5/01/1980	1988	
			NE,S2	25		131581	LD	PIN 180		131402	1382;420	5/01/1980	1988	
			E2	25		131582	LD	PIN 181		131402	1382;421	5/01/1980	1988	
			SE	25		131583	LD	PIN 182		131402	1382;422	5/01/1980	1988	
			NE	25		131603	LD	PIN 202		131402	1382;442	5/02/1980	1988	
			NE	25		131604	LD	PIN 203		131402	1382;443	5/02/1980	1988	
			NE	25		131605	LD	PIN 204		131402	1382;444	5/02/1980	1988	
			NE	25		131606	LD	PIN 205		131402	1382;445	5/02/1980	1988	
			NE	25		131607	LD	PIN 206		131402	1382;446	5/02/1980	1988	
		36	NW	25		131606	LD	PIN 205		131402	1382;445	5/02/1980	1988	
			NW	25		131607	LD	PIN 206		131402	1382;446	5/02/1980	1988	
14 N	5 W	23	SE	25		98225	LD	BEND NO 1	TRI CON MINING		1148;829	2/11/1980	1984	11/04/1985
			SE	25		98226	LD	BEND NO 2		98225	1148;831	2/11/1980	1984	11/04/1985
			SE	25		98227	LD	BEND NO 3		98225	1148;833	2/11/1980	1984	11/04/1985
			SE	25		98228	LD	BEND NO 4		98225	1148;835	2/11/1980	1984	11/04/1985
15 N	5 W	1	SW	5		258166	LD	TIRE #1	POLEY ROBERT JR	258166	1833;081	4/27/1986	1988	
			SW	25		258167	LD	TIRE #2		258166	1833;082	4/27/1986	1988	
			SW	25		258168	LD	TIRE #3		258166	1833;083	4/27/1986	1988	
			SW	25		258169	LD	TIRE #4		258166	1833;084	4/27/1986	1988	
			S2	25		258170	LD	TIRE #5		258166	1833;085	4/27/1986	1988	
			SE	25		258171	LD	TIRE #6		258166	1833;086	4/27/1986	1988	
			SE	25		258172	LD	TIRE #7		258166	1833;087	4/27/1986	1988	
			SE	25		258173	LD	TIRE #8		258166	1833;088	4/27/1986	1988	
			SE	25		258174	LD	TIRE #9		258166	1833;089	4/27/1986	1988	
		2	SE	25		258166	LD	TIRE #1		258166	1833;081	4/27/1986	1988	
		11	NE	25		258166	LD	TIRE #1		258166	1833;081	4/27/1986	1988	
		12	NW	25		258166	LD	TIRE #1		258166	1833;081	4/27/1986	1988	
			NW	25		258167	LD	TIRE #2		258166	1833;082	4/27/1986	1988	
			NW	25		258168	LD	TIRE #3		258166	1833;083	4/27/1986	1988	
			NW	25		258169	LD	TIRE #4		258166	1833;084	4/27/1986	1988	
			N2	25		258170	LD	TIRE #5		258166	1833;085	4/27/1986	1988	
			SE	25		258171	LD	TIRE #6		258166	1833;086	4/27/1986	1988	
			SE	25		258172	LD	TIRE #7		258166	1833;087	4/27/1986	1988	
			SE	25		258173	LD	TIRE #8		258166	1833;088	4/27/1986	1988	
			SE	25		258174	LD	TIRE #9		258166	1833;089	4/27/1986	1988	
			NE	25		258175	LD	TIRE #10		258166	1833;090	4/27/1986	1988	
			NW	25		258176	LD	TIRE #11		258166	1833;091	4/27/1986	1988	
			NW	25		258177	LD	TIRE #12		258166	1833;092	4/27/1986	1988	
			N2	25		258178	LD	TIRE #13		258166	1833;093	4/27/1986	1988	
			NE	25		258179	LD	TIRE #14		258166	1833;094	4/27/1986	1988	
			NE	25		258180	LD	TIRE #15		258166	1833;095	4/27/1986	1988	
			NE	25		258181	LD	TIRE #16		258166	1833;096	4/27/1986	1988	

* * DISCLOSURE * * ALL INFORMATION RECEIVED IN THIS OFFICE MAY NOT YET BE LISTED ON THIS REPORT. NAMES AND ADDRESSES ARE ENTERED AS THEY APPEAR ON THE LOCATION NOTICE OR ARE ABBREVIATED TO FIT LIMITED SPACE. THEREFORE THEY MAY NOT APPEAR IN THE EXPECTED SEQUENCE. A BLANK LATEST ASSESSMENT YEAR IN THIS REPORT DOES NOT CONSTITUTE AN ABANDONED CLAIM. * AFTER S/N INDICATES LAND STATUS CHECKED.

35 N 5 W 1[illegible]

REPORT DATE: OCT 18, [illegible]
ADMINISTRATIVE STATE: ARIZONA

UNITED [illegible]

TWNSHP	RANGE	SEC	SUBDV	CTY	DIST	GEO BLM NO.	SERIAL CASE TYPE	CLAIM NAME
35 N	5 W	11	N2	15	1	155031	LD	J.H. #3266
			SE	15		155084	LD	J.H. NO 33[illegible]
			SE	15		155085	LD	J.H. NO 33[illegible]
			SE	15		155086	LD	J.H. NO 33[illegible]
			SE	15		155087	LD	J.H. NO 33[illegible]
			SE	15		155088	LD	J.H. NO 3325
			SE	15		155089	LD	J.H. NO 3324
			SE	15		155090	LD	J.H. NO 3325
			SE	15		155091	LD	J.H. NO 3326
			SE	15		155092	LD	J.H. NO 3327
			SE	15		155093	LD	J.H. NO 3328
			SE	15		155094	LD	J.H. NO 3329
			E2	15		155095	LD	J.H. NO 3330
			NE	15		155096	LD	J.H. NO 3331
			NE	15		155097	LD	J.H. NO 3332
			NE	15		155098	LD	J.H. NO 3333
			NE	15		155099	LD	J.H. NO 3334
			NE	15		155100	LD	J.H. NO 3335
			NE	15		155101	LD	J.H. NO 3336
			NE	15		155102	LD	J.H. NO 3337
			NE	15		155103	LD	J.H. NO 3338
		12	SW	15		155085	LD	J.H. NO 3320
			SW	15		155087	LD	J.H. NO 3322
			SW	15		155089	LD	J.H. NO 3324
			SW	15		155091	LD	J.H. NO 3326
			SW	15		155093	LD	J.H. NO 3328
			SW	15		155095	LD	J.H. NO 3330
			N2	15		155097	LD	J.H. NO 3332
			NW	15		155099	LD	J.H. NO 3334
			NW	15		155101	LD	J.H. NO 3336
			NW	15		155103	LD	J.H. NO 3338
			SW	15		157107	LD	J H #3391
			S2	15		157108	LD	J H #3392
			SW	15		157109	LD	J H #3393
			SW	15		157110	LD	J H #3394
			SW	15		157111	LD	J H #3395
			S2	15		157112	LD	J H #3396
			SW	15		157113	LD	J H #3397
			S2	15		157114	LD	J H #3398
			SW	15		157115	LD	J H #3399
			SW	15		157116	LD	J H #3400
			SW	15		157117	LD	J H #3401
			SW	15		157118	LD	J H #3402
			NW	15		157119	LD	J H #3403

* * DISCLOSURE * * ALL INFORMATION RECEIVED IN THIS OFFIC
THEY APPEAR ON THE LOCATION NOTICE OR ARE ABBREVIATED TO
A BLANK LATEST ASSESSMENT YEAR IN THIS REPORT DOES NOT CO

INTERIOR

PAGE NO: 4630
PCN: LT892PP1

MERIDIAN: GILA-SALT R.

LEAD FILE	COUNTY BOOK;PAGE	LOCATION DATE	LATEST ASSMT-YR	CASE CLOSED
296159	2152;0088	5/23/1989	1989	
227810	; 00	9/03/1984	1985	4/06/1987
CLAUDIA	1288;143	3/25/1980	1988	
105264	1288;145	3/25/1980	1988	
105264	1288;147	3/25/1980	1988	
105264	1288;149	3/28/1980	1988	
	1484;141	10/04/1982	1988	
186186	1484;143	10/04/1982	1988	
186186	1484;145	10/04/1982	1988	
186186	1484;147	10/04/1982	1988	
	125;186	7/01/1925	1985	2/17/1987
72206	123;342	1/02/1924	1985	2/17/1987
287763	2058;0538	7/06/1988	0000	
287763	2058;0540	7/06/1988	0000	
	1233;219-	7/30/1979	1982	10/11/1985
50738	1233;221-	7/30/1979	1982	10/11/1985
50738	1233;223-	7/30/1979	1982	10/11/1985
50738	1233;225-	7/30/1979	1982	10/11/1985

15 N 5 W 12 NE

REPORT DATE: OCT 18, 1989
ADMINISTRATIVE STATE: ARIZONA

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

GEOGRAPHIC INDEX
ALL CLAIMS

PAGE NO: 4645
PCN: LT892PP1

MERIDIAN: GILA-SALT R.

TWNSHP	RANGE	SEC	SUBDV	CTY	DIST	GEO BLM NO.	SERIAL CASE TYPE	CLAIM NAME/NUMBER	CLAIMANT(S)	LEAD FILE	COUNTY BOOK;PAGE	LOCATION DATE	LATEST ASSMT-YR	CASE CLOSED
15 N	5 W	12	NE	25	2	258182	LD	TIRE #17	POLEY ROBERT JR	258166	1833;097	4/27/1986	1988	
			E2	25		258183	LD	TIRE #18		258166	1833;098	4/29/1986	1988	
			E2	25		258184	LD	TIRE #19		258166	1833;099	4/29/1986	1988	
			E2	25		258185	LD	TIRE #20		258166	1833;100	4/29/1986	1988	
			E2	25		258186	LD	TIRE #21		258166	1833;101	4/29/1986	1988	
			S2	25		258187	LD	TIRE #22		258166	1833;102	4/29/1986	1988	
			SE	25		258188	LD	TIRE #23		258166	1833;103	4/29/1986	1988	
			SE	25		258189	LD	TIRE #24		258166	1833;104	4/29/1986	1988	
			SE	25		258190	LD	TIRE #25		258166	1833;105	4/29/1986	1988	
			SE	25		258191	LD	TIRE #26		258166	1833;106	4/29/1986	1988	
		13	NW	25		265400	LD	TIKY #1	POLEY ROBERT	265400	1906;976	12/07/1986	1988	
			NW	25		265401	LD	TIKY #2		265400	1906;977	12/07/1986	1988	
			NE	25		265402	LD	TIKY #3		265400	1906;978	12/07/1986	1988	
			NE	25		265403	LD	TIKY #4		265400	1906;979	12/07/1986	1988	
			NE	25		265404	LD	TIKY #5		265400	1906;980	12/07/1986	1988	
			NE	25		265405	LD	TIKY #6		265400	1906;981	12/07/1986	1988	
			NE	25		265406	LD	TIKY #7		265400	1906;982	12/07/1986	1988	
			N2	25		265407	LD	TIKY #8		265400	1906;983	12/07/1986	1988	
			ALL	25		265408	LD	TIKY #9		265400	1906;984	12/07/1986	1988	
			E2	25		265409	LD	TIKY #10		265400	1906;985	12/07/1986	1988	
			E2	25		265410	LD	TIKY #11		265400	1906;986	12/07/1986	1988	
			E2	25		265411	LD	TIKY #12		265400	1906;987	12/07/1986	1988	
			E2	25		265412	LD	TIKY #13		265400	1906;988	12/07/1986	1988	
			SE	25		265413	LD	TIKY #14		265400	1906;989	12/08/1986	1988	
			SE	25		265414	LD	TIKY #15		265400	1906;990	12/08/1986	1988	
			SE	25		265415	LD	TIKY #16		265400	1906;991	12/08/1986	1988	
			SE	25		265416	LD	TIKY #17		265400	1906;992	12/08/1986	1988	
			SE	25		290424	PL	ZUMA #1	POLEY ROBERT JR	290424	2095;0259	9/06/1988	0000	
			SE	25		290425	PL	ZUMA #2		290424	2095;0261	9/06/1988	0000	
		14	SE	25		290458	PL	ZUMA #35		290424	2095;0327	9/07/1988	0000	
			SE	25		290459	PL	ZUMA #36		290424	2095;0329	9/07/1988	0000	
			SE	25		290460	PL	ZUMA #37		290424	2095;0331	9/07/1988	0000	
		23	SE	25		290445	PL	ZUMA #22		290424	2095;0301	9/08/1988	0000	
			SE	25		290446	PL	ZUMA #23		290424	2095;0303	9/08/1988	0000	
			SE	25		290447	PL	ZUMA #24		290424	2095;0305	9/08/1988	0000	
			SE	25		290448	PL	ZUMA #25		290424	2095;0307	9/08/1988	0000	
			SE	25		290449	PL	ZUMA #26		290424	2095;0309	9/07/1988	0000	
			SE	25		290450	PL	ZUMA #27		290424	2095;0311	9/07/1988	0000	
			NE	25		290452	PL	ZUMA #29		290424	2095;0315	9/07/1988	0000	

35 N 5 W 12 N2

REPORT DATE: OCT 18, 1989
ADMINISTRATIVE STATE: ARIZONA

UNITED STA
BURE

TWNSHP	RANGE	SEC	SUBDV	CTY	DIST	GEO BLM NO.	SERIAL CASE TYPE	CLAIM NAME
35 N	5 W	12	N2	15	1	157120	LD	J H #3404
			NW	15		157121	LD	J H #3405
			N2	15		157122	LD	J H #3406
			NW	15		157123	LD	J H #3407
			N2	15		157124	LD	J H #3408
			NW	15		157125	LD	J H #3409
			N2	15		157126	LD	J H #3410
			SE	15		157179	LD	J H #3463
			SE	15		157180	LD	J H #3464
			SE	15		157181	LD	J H #3465
			SE	15		157182	LD	J H #3466
			SE	15		157183	LD	J H #3467
			SE	15		157184	LD	J H #3468
			SE	15		157185	LD	J H #3469
			SE	15		157186	LD	J H #3470
			SE	15		157187	LD	J H #3471
			SE	15		157188	LD	J H #3472
			E2	15		157189	LD	J H #3473
			E2	15		157190	LD	J H #3474
			E2	15		157191	LD	J H #3475
			NE	15		157192	LD	J H #3476
			NE	15		157193	LD	J H #3477
			NE	15		157194	LD	J H #3478
			NE	15		157195	LD	J H #3479
			NE	15		157196	LD	J H #3480
			NE	15		157197	LD	J H #3481
			NE	15		157198	LD	J H #3482
		13	SW	15		155067	LD	J.H. NO 3[illegible]
			SW	15		155069	LD	J.H. NO 3[illegible]
			SW	15		155071	LD	J.H. NO 3[illegible]
			SW	15		155073	LD	J.H. NO 3[illegible]
			SW	15		155075	LD	J.H. NO 3[illegible]
			W2	15		155077	LD	J.H. NO 3[illegible]
			NW	15		155079	LD	J.H. NO 3[illegible]
			NW	15		155081	LD	J.H. NO 3[illegible]
			NW	15		155083	LD	J.H. NO 3[illegible]
			NW	15		155085	LD	J.H. NO 3[illegible]
			SW	15		155[illegible]	LD	J.H. NO 3[illegible]
			S2	15		157[illegible]	LD	J H #3[illegible]
			SW	15		157[illegible]	LD	J H #3[illegible]

ASARCO

Southwestern Exploration Division

December 27, 1989

R.L. Brown
New York Office

Yarnell Project
Quarterly/Monthly Report
Oct/Nov/Dec. 1989

Drilling

All core logging was completed during the last monthly report period of 10/4/89. The rotary drill was released upon completion of DH 96. All holes were logged and assayed. Four diamond drill holes were completed during the last report period for a total of 1295'. The diamond drill was released upon the completion of DDH-4. All holes have been logged in detail and will be bagged for assay by year's end.

Surveying

All holes (both DDH & RDH holes) have been surveyed for location and elevation by W.D. Gay. All claims (both patented and unpatented) have been surveyed and a map is in progress.

Geologic Mapping

A final map at 1" = 100' scale of the mine area was published and is now being revised. Completion is expected the early part of January. In addition mapping of Section 14 and Section 23 at 1" = 200' scale is in progress.

Reconnaissance

Several days were spent looking at some of the prospects in the Weaver District between Octave and Yarnell. Follow up is planned on the Leviathon Prospect, and the Rincon, Welcome prospects. Land owners have been contacted and we will examine these prospects in January 1990.

Forecast

Continue section mapping. Continue reconnaissance of area, especially along Yarnell Fault Trend.

Mark A. Miller

MAM:mek

cc: J.D. Sell

JDS

1-2-90

FROM: J. D. SELL

TO: W D Gay

Please call the Green-Lees' & set up a time to complete this transaction.

I would think you need to take the check along & arrange for a Notary.

Jim

Copy for files, etc.

LAW OFFICES OF
APKER, APKER, HAGGARD & KURTZ, P.C.
A PROFESSIONAL CORPORATION
PARK ONE
2111 EAST HIGHLAND AVENUE, SUITE 230
PHOENIX, ARIZONA 85016
AREA CODE 602 TELEPHONE 381-0085

BURTON M. APKER*
JERRY L. HAGGARD**
DAVID B. APKER***
GERRIE APKER KURTZ
JOHN R. FITZPATRICK

*ALSO ADMITTED IN WISCONSIN
**ALSO ADMITTED IN DISTRICT OF COLUMBIA AND KANSAS
***ALSO ADMITTED IN COLORADO

MAILING ADDRESS
P. O. BOX 10280
PHOENIX, ARIZONA 85064-0280

TELECOPIER
(602) 956-3457

December 8, 1989

ASARCO Incorporated
DEC 11 1989
SW Exploration

Mr. James D. Sell
Manager
Exploration Department
Southwestern United States Division
ASARCO Incorporated
P.O. Box 5747
Tucson, Arizona 85703

Dear Mr. Sell:

In response to your December 1, 1989 letter, there are enclosed a short form of Purchase Agreement, Quit Claim Deed and Notice of Transfer of Interest for the purchase of the Black Dike No. 3 unpatented mining claim from Mr. and Mrs. Green-Lee. The Purchase Agreement (primarily for the purpose of acknowledging the amount of the full purchase price and receipt thereof) may be executed at the same time the Quit Claim Deed is executed and payment is made. You are reminded that a $5.00 filing fee is now required for filing a Notice of Transfer of Interest in the BLM and you will, of course, record the executed Quit Claim Deed.

Sincerely,

Jerry L. Haggard

Jerry L. Haggard
For APKER, APKER, HAGGARD
& KURTZ, P.C.

JLH/jb
Enclosures

AGREEMENT TO PURCHASE AND SELL
UNPATENTED MINING CLAIM

This Agreement is made on December ____, 1989 by and between ASARCO INCORPORATED, a New Jersey corporation ("Buyer") and DAVID J. GREEN-LEE and DOROTHY M. GREEN-LEE, husband and wife, ("Sellers"). Sellers hereby agree to sell to Buyer the Black Dike No. 3 unpatented mining claim located in Section 23, Township 10 North, Range 5 West, Weaver Mining District, Yavapai County, Arizona ("Property").

The full purchase price of the Property in the amount of Five Thousand Dollars ($5,000.00) shall be paid to Sellers and is acknowledged by Sellers as having been received, upon execution of this Agreement.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement the day, month and year first above written.

BUYER:

ASARCO INCORPORATED

By_____

Its_____

ASARCO Incorporated
1150 North 7th Avenue
Tucson, Arizona 85703-0747

SELLERS:

_____
DAVID J. GREEN-Lee

_____
DOROTHY M. GREEN-LEE

David J. and Dorothy M. Green-Lee
P.O. Box 332
Yarnell, Arizona 85362

QUIT CLAIM DEED

For the consideration of Ten Dollars, and other valuable consideration, DAVID J. GREEN-LEE and DOROTHY M. GREEN-LEE, husband and wife, hereinafter called the Grantors, hereby remise, release, relinquish and quit claim to ASARCO INCORPORATED, a New Jersey corporation, hereinafter called Grantee, all right, title and interest in the Black Dike No. 3 unpatented mining claim located in Section 23, Township 10 North, Range 5 West, Weaver Mining District, Yavapai County, Arizona, the location notice of which is recorded in the Official Records of Yavapai County, Arizona in Book 153, Page 393 and filed in the Arizona State Office of the Bureau of Land Management at A.M.C. 72445.

TO HAVE AND TO HOLD the same unto Grantee, its successors, and assigns forever.

_____
DAVID J. GREEN-LEE

_____
DOROTHY M. GREEN-LEE

STATE OF ARIZONA)
) ss.
County of _____)

This instrument was acknowledged before me this day of _____, 19____, by DAVID J. GREEN-LEE and DOROTHY M. GREEN-LEE, husband and wife.

_____
Notary Public

My Commission Expires:

_____

State Director, State Office
Bureau of Land Management
Department of the Interior
Siete Square Building
3707 North 7th Street
Phoenix, Arizona 85014

Re: Notice of Transfer of
Interest in Mining Claim

Dear Sir:

Pursuant to 43 C.F.R. § 3833.3, this is to notify the Bureau of Land Management that the mining claim described below was transferred by deed to:

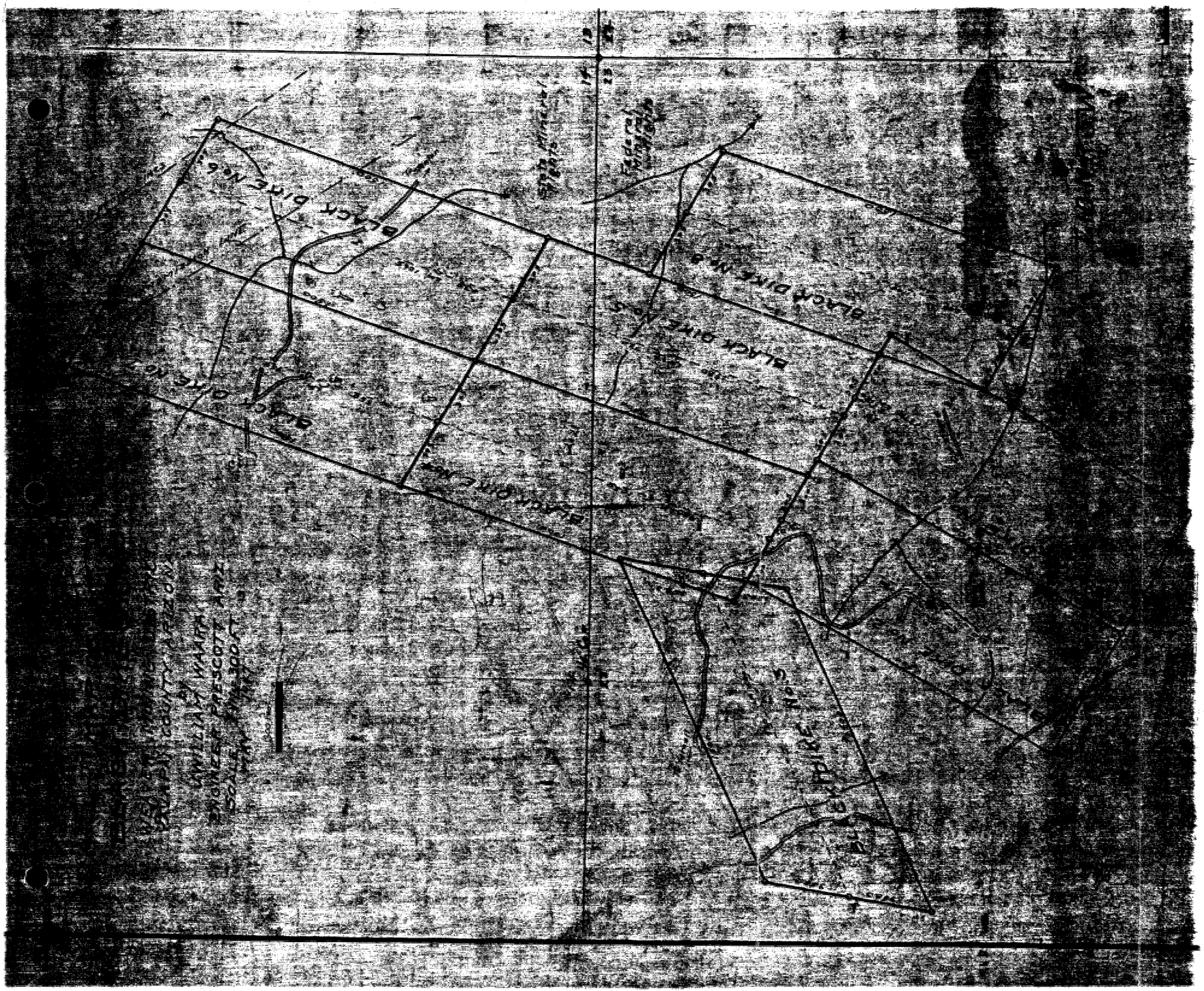
Name	Address
ASARCO Incorporated	1150 North 7th Avenue Tucson, Arizona 85703-0747

The mining claim subject to this transfer is described as follows:

Claim Name	Recorded in Yavapai County, Arizona	BLM Serial Number
Black Dike No. 3	Book 153, Page 393	AMC 72445

ASARCO Incorporated

By: James D. Sell
James D. Sell,
Manager



Reduced Print

Also BD No 1, 2, 4, 5, 6, 7, 8.

Black Dike No. 3

May 1947

ASARCO

Exploration Department
Southwestern United States Division

January 3, 1990

Mr. Don L. Jenkins
Gold River Exploration Co.
1385 Iron Springs Road, Suite 234
Prescott, Arizona 86301

Dear Mr. Jenkins:

Reference is made to your letter of October 5, 1989 to Mr. W.L. Kurtz concerning a conflict of your YX-1 and YX-2 mining claims with Asarco's YAR mining claims.

After reviewing this situation with our legal advisors, it is felt that boundary monuments for YX-1 and YX-2 were not erected within the allowed 90 days as required by A.R.S. §27-203A. Therefore, YX-1 and YX-2 were not valid claims.

Please feel free to contact me concerning this matter.

Sincerely yours,

William D. Gay

William D. Gay
Land Engineer, SWED

WDG:mek

CC: W.L. Kurtz
J.D. Sell
M.A. Miller
S.L. Lakosky

ASARCO Incorporated P. O. Box 5747 Tucson, Az 85703-0747
1150 North 7th Avenue (602) 792-3010

1/5/90 JDS

FROM: J. D. SELL

TO: SLL

What say?

Jim

WESTERN BUILDING AND MINING CO., INC.
BOX 4006
READING, PA. 19606

December/29/89

Asarco
P.O.Box 5747
1150 North 7th Avenue
Tuscon Az. 85703,0747

Attention, Cy Lakosky

Gentlemen;

In accordance with our telephone conversation regarding your use of the dwelling on our Yarnell property in Yarnell Ariz= ona, please accept this letter as your authority to occupy the house while your firm is on the property for exploration and evaluation of the yarnell property and claims adjacent to it.

We will expect the property to be maintained in the same condition as received including utilities, well and well pump,etc. Asarco must provide insurance coverage in the amount of $50.000.00 and must provide certificates to Western Building and Mining Corp , as the beneficiary which will include fire, windstorm etc. within 30 days.

If this is agreeable kindly sign in the appropriate place and return one copy to us.

Sincerely,
Mr. A.J.Roman (Pres)

A J Roman

Asarco

Name and Title.

ASARCO

Southwestern Mining Department

January 5, 1990

MEMORANDUM

ASARCO Incorp.

JAN 8 1990

SW Exploration

TO: R. J. Kupsch

FROM: S. L. Lakosky

RE: Yarnell Project - Feasibility Update

Per your request, the following briefly summarizes the ongoing Intermediate Feasibility Study for the Yarnell Project.

Operating costs have been refined in-house from information generated from Kilborn Engineering's pre-feasibility study which was completed and delivered to Asarco on December 26, 1989, from contractor's cost estimates for mining and primary crushing at the Yarnell Project site, and from operating costs at other similar open pit mining and heap leaching operations.

Using these operating costs, economic ore reserves have been developed for gold prices of: $300, $350, $400 and $450 per ounce, and are summarized as follows:

GOLD PRICE ($/OZ)	ORE (TONS)	ORE GRADE (OZ/TON)	WASTE (TONS)	STRIP RATIO	RECOVERABLE OUNCES	oz/yr.	OPERATING COST ($/OZ)
450	3,201,000	0.049	7,065,000	2.21:1	114,025	25,369	287
400	2,487,000	0.055	5,982,000	2.40:1	100,187	28,625	262
350	1,154,000	0.072	2,770,000	2.40:1	59,714	34,496	215
300	950,000	0.079	2,227,000	2.34:1	54,067	41,590	199

While Kilborn's capital cost estimates have not yet been closely scrutinized, if a rough estimate of $10 million for all capital and development expenditures is used, the pre-tax cash flows for the combined Asarco/Norgold ownership are as follows:

GOLD PRICE ($/OZ)	TOTAL CASH FLOW ($)	MINE LIFE (YRS)
450	8,600,000	4.5
400	3,800,000	3.5
350	[1,900,000]	1.6
300	[4,500,000]	1.3

During the next several weeks, the capital and development costs will be closely scrutinized and a complete economic analysis will be developed for gold prices of $350, $375, $400, $425 and $450 per ounce with sensitivities for variations in capital and operating cost estimates.

S. L. Lakosky
S. L. Lakosky
Yarnell Project Manager

SLL/kh
cc: RLBrown
TEScartaccini
WLKurtz
JDSell
DECrowell

US Precious Metals, Inc. - GEXA
Mother Lode, E of Beatty, NV.

3/7/85 GCNL Formed partnership to explore Gold prospects
2/3/88 GCNL 21 of 28 holes at an grade mineralization, est. reserves are 3.8 million tons of 0.04 opt. flat-lying
2/20/88 Skillings same as above.
3/7/88 Western Mining News same as above.
4/4/88 FILE NOTE, JDS rehash of above, plus locations.
8/27/88 Skillings: NA Dagestan due to help bring Mother Lode into production
11/11/88 Mining Journal NA Dagestan can earn a 20% interest in JV by placing Mother Lode deposit into production.
Mineral reserves: ~~1.8 M# oxide~~
1.5 Mill tons oxide ave. 1.7 g/t &
3.0 Mill tons sulfide ave. 1.9 g/t.
Dagestan required to spend $2.5 million to develop a 900 t/d mining operation
11/24/89 GCNL. NA Dagestan drilled new deposit, the Sunday Night anomaly, containing approx 450,000 tons of 0.06 opt.
"Further drilling at Mother Lode has added reserves. Plan of operation envision annual production of 25,000 oz gold at an estimated direct cash cost of $200 per ounce.

continued

7/10/89 GCNL Mother Lode total now 4.9 million tons averaging 0.054 oz/gold/ton of which 1.2 million tons of similar grade is oxidized & targeted for initial production. Combined with the Sunday Night resource, the total resource now exceed 5.3 million tons. (ie SN = 450,000 Tons, as before!)

7/29/89 Shillings Construction on Mother Lode Project by GEXA GOLD Corp.
Early stages of construction will include topsoil stockpiling and site preparation for the heap leach pad, process plant and solution ponds, as well as prestripping of the orebody. It is anticipated that total construction will be complete within 16 weeks. Production rate of 2,500 tons of ore per day.

8/29/89 GCNL. Mining of ore and waste will begin by mid-October, followed by heap leaching by mid-December

11/29/89 GCNL Opening ceremonies took place 18 Nov, 1st gold to be poured in mid-December.

1/9/90 GCNL Two pours of total 899 oz gold have been recovered.
Start up with only minor delays and have achieved design capacity of 2,500 tons ore per day. Expected recovery rate will be above designed level of 70%
Mother Lode was brought into production for $4 Million & will produce 25,000 oz/year

at cost about $200/oz.

JDS

1-8-90

FROM: J. D. SELL

TO: W L Kenty

Fred will be in on the 22nd in Phoenix & go to the Yarnell Proj. to review same & what Norgold wants done. Apparently Metro Pulpit & Tench Nax + one other will be there.

Fred thinks you & MAM should also come along so all are aware of the end result

Jim

cc: MAMuller.

1-8-90

FROM: J. D. SELL

TO: SL Lahoshy
SA Anzalone
LJ Jansen

mineral
~~Geo~~ Reserve Review.
Yarnell Project

Fred Graybeal will be in Tucson on Wed-Thu-Fri, ie Jan 24-25-26, to review all the data & results of the Yarnell mineral (ore) reserve.

Plan to participate during these days.

Jim

cc: WLKeuty
MHMelles
FTGraybeal

ASARCO

Southwestern Exploration Division

January 8, 1990

FILE NOTE

Yarnell Project
Transfer of Interest
in Mining Claim & Quit
Claim Deed for Black Dike No. 3

On January 5, 1990 (9:45 AM) I met with Mr. & Mrs. David Green-Lee at the Hilltop Reality in Yarnell, Arizona.

At that time an Agreement to Purchase and Sell Unpatented Mining Claim and a Quit Claim Deed were executed. Also, a check for $5000 was given to the Green-Lee's for the Black Dike No. 3 unpatented claim.

In the afternoon of January 5, 1990 the executed Quit Claim Deed was presented to the Yavapai County Recorder for recording.

A Notice of Transfer of Interest in Mining Claim will be filed with the BLM.

William D. Gay

WDG:mek

William D. Gay

cc: J.D. Sell
S.L. Lakosky

VOUCHER NO. 1-93 DATE Jan 1990

ASARCO INCORPORATED
TUCSON OFFICE
TUCSON, ARIZONA 85703

Purchase of the unpatented mining claim
"Black Dike No. 3" $5,000.00

DETACH BEFORE PRESENTING FOR PAYMENT

ASARCO

DOWNTOWN OFFICE
THE VALLEY NATIONAL BANK
TUCSON, ARIZONA

ASARCO INCORPORATED
TUCSON OFFICE
TUCSON, ARIZONA 85703

91-2/1221

No. 0032673

PAY The sum of $5,000 and 00 cts

January 4, 1990
$5,000.00

TO THE ORDER OF

ASARCO INCORPORATED
TUCSON OFFICE

DAVID J. AND DOROTHY M. GREEN-LEE
P O Bx 332
Yarnell, AZ

⑈032673⑈ ⑆122100024⑆ 2000⑈0673⑈

QUIT CLAIM DEED

For the consideration of Ten Dollars, and other valuable consideration, DAVID J. GREEN-LEE and DOROTHY M. GREEN-LEE, husband and wife, hereinafter called the Grantors, hereby remise, release, relinquish and quit claim to ASARCO INCORPORATED, a New Jersey corporation, hereinafter called Grantee, all right, title and interest in the Black Dike No. 3 unpatented mining claim located in Section 23, Township 10 North, Range 5 West, Weaver Mining District, Yavapai County, Arizona, the location notice of which is recorded in the Official Records of Yavapai County, Arizona in Book 153, Page 393 and filed in the Arizona State Office of the Bureau of Land Management at A.M.C. 72445.

TO HAVE AND TO HOLD the same unto Grantee, its successors, and assigns forever.

David J. Green-Lee
DAVID J. GREEN-LEE

Dorothy M. Green-Lee
DOROTHY M. GREEN-LEE

STATE OF ARIZONA)
) ss.
County of Maricopa

This instrument was acknowledged before me this 5th day of Jan., 1990, by DAVID J. GREEN-LEE and DOROTHY M. GREEN-LEE, husband and wife.

Nancy W. Adams
Notary Public

My Commission Expires:
My Commission Expires June 30, 1991

AGREEMENT TO PURCHASE AND SELL
UNPATENTED MINING CLAIM

W.D.H. D.J.G.-L. D.M.G.

This Agreement is made on ~~December~~ January 5, 19~~89~~ 90 by and between ASARCO INCORPORATED, a New Jersey corporation ("Buyer") and DAVID J. GREEN-LEE and DOROTHY M. GREEN-LEE, husband and wife, ("Sellers"). Sellers hereby agree to sell to Buyer the Black Dike No. 3 unpatented mining claim located in Section 23, Township 10 North, Range 5 West, Weaver Mining District, Yavapai County, Arizona ("Property").

The full purchase price of the Property in the amount of Five Thousand Dollars ($5,000.00) shall be paid to Sellers and is acknowledged by Sellers as having been received, upon execution of this Agreement.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement the day, month and year first above written.

BUYER:

ASARCO INCORPORATED

By W. D. Gay

Its Agent

ASARCO Incorporated
1150 North 7th Avenue
Tucson, Arizona 85703-0747

SELLERS:

David J. Green-Lee
DAVID J. GREEN-Lee

Dorothy M. Green-Lee
DOROTHY M. GREEN-LEE

David J. and Dorothy M. Green-Lee
P.O. Box 332
Yarnell, Arizona 85362

ASARCO

Exploration Department
Southwestern United States Division

January 9, 1990

State Director, State Office
Bureau of Land Management
P.O. Box 16563
Phoenix, AZ 85011

Notice of Transfer of
Interest in Mining Claim
Yarnell Project

Dear Sir:

Attached is a Notice of Transfer of Interest in Mining Claim along with Asarco's check of $5.00 as your filing fee. Also enclosed is a return stamped envelope.

Sincerely yours,

William D. Gay

William D. Gay
Land Engineer, SWED

WDG:mek
Encs.

cc: J.D. Sell
S.L. Lakosky
C.L. Snow

ASARCO Incorporated P. O. Box 5747 Tucson, Az 85703-0747
1150 North 7th Avenue (602) 792-3010

January 8, 1990

State Director, State Office
Bureau of Land Management
Department of the Interior
Siete Square Building
3707 North 7th Street
Phoenix, Arizona 85014

Re: Notice of Transfer of
Interest in Mining Claim

Dear Sir:

Pursuant to 43 C.F.R. § 3833.3, this is to notify the Bureau of Land Management that the mining claim described below was transferred by deed to:

Name	Address
ASARCO Incorporated	1150 North 7th Avenue Tucson, Arizona 85703-0747

The mining claim subject to this transfer is described as follows:

Claim Name	Recorded in Yavapai County, Arizona	BLM Serial Number
Black Dike No. 3	Book 153, Page 393	AMC 72445

ASARCO Incorporated

By: James D. Sell
James D. Sell,
Manager

1/9/90

FTG:

will be in Reno 1-8 & 1-9, then Denver 1-10 & 1-11, then NYC.

Call him on Monday 15th to tell him how things are arranged for the Monday 22nd Yarnell.

1-9- tentative:

"Cleary"
Mike Philpot
2 Unnamed
Tench Page

Norfolk
to arrive in Wickenburg on Sunday 21, then up to Yarnell.

FTG, NYC-Phoenix ± 10:30AM → Yarnell
JDS, WLK, MAM-SLL TOC-Pho-Yarnell

Monday 22nd

To JDS

Date 4/9 Time 12:10 ☐ AM ☐ PM

WHILE YOU WERE OUT

M Adrian Hobkirk

of Norgold

Phone (604) 681-5566

Area Code Number Extension

TELEPHONED	✓	PLEASE CALL	✓
CALLED TO SEE YOU		WILL CALL AGAIN	
WANTS TO SEE YOU		URGENT	
RETURNED YOUR CALL			

Message Will probably be 5 people attending June 22 meeting at Yarnell. If you need further info call him back

M.

Operator

AMPAD EFFICIENCY®

REORDER #23-000

ASARCO

Southwestern Exploration Division

JDS

January 10, 1990

W.L. Kurtz

AF Budge Mining Ltd.
Vulture Mine
Maricopa County, AZ

I talked with Carole O'Brien of Budge Mining about the possibility of visiting the tailings leach at the Vulture Mine.

Dale H. Allen is the production manager of Vulture, phone: 376-9056 or 376-9894 and tours/visits are open with a few days' notice.

They are now winding down the leach. No new material has been mined as their drilled zone averaged 0.06 gold but is silica encapsulated and gives only 50% recovery. They decided not to go after 0.03 opt gold.

Budge has been mining at UVX, Jerome, for the past year or so. They have a silica flux contract with P.D. Hidalgo. Ron Short is the general manager, Jon McKenney is the geologist. They have the mining costs at around $30/ton and the transportation charges from Jerome to Hidalgo are $31/ton. Thus they will be talking to Hayden to see if they can reduce the transport charges as well as secure acid for a copper leach project next year.

Visits to Jerome UVX are also available. UVX may be reached at either 634-9034 or 9035 for visit confirmation.

James D. Sell

JDS:mek

James D. Sell

cc: F.T. Graybeal

ASARCO

Southwestern Exploration Division

JDS

January 10, 1990

W. D. Gay

Norgold Affairs
Yarnell Project
Yavapai County, AZ

I understand the Norgold Agreement was signed on about 1-8-90.

As J.L. Haggard's letter states (Oct. 25, 1989), Asarco has 30 days to bring to the attention of Norgold some things that need to be addressed.

Please review these items and clearly state what Asarco should say to Norgold.

James D. Sell

JDS:mek

James D. Sell

cc: W.L. Kurtz

JDS

ASARCO

Southwestern Exploration Division

January 10, 1990

J.D. Sell

Assay Comparison
Diamond Drill vs. Rotary Hole
Yarnell Project
Yavapai County, Arizona

Assay results have been received for YDDH-1 diamond drill hole. This hole was a twin to RC Hole YM-8. Comparisons of the assay intervals are as follows (Comparisons, Assay for Assay, are tabulated and attached).

	YM-8		YDDH-1	
A Zone	30-225'	.022	30-225'	.026
B Zone	225-275'	.041	225-275'	.041

While there are variations within individual assay intervals, the averages of the intervals are nearly identical, suggesting that there is negligible difference in gold recovery in diamond drilling vs. reverse drilling in the Yarnell Deposit. Variations in individual assays (attached) can be explained by lag of sample up the drill pipe or some cross contamination between samples. The High Grade Zone seen in YM-8 and from 35-40' was broken into 1' intervals in YDDH-1. Results are as follows:

YM-8		YDDH-1		
35-40'	.212	35-36'	.012	
40-45'	.015	36-37'	.034	
45-50'	.02	37-38'	.134	.096
		38-39'	.108	
		39-40'	.195	
		40-45'	.108	.116
		45-50'	.125	

The interval 40-50' in YDDH-1 at .116 opt Au does not agree with 40-50' in YM-8 at .017 opt Au. This may represent a nugget effect within the High Grade Zone or a lag of sample between 40-50' with the reverse circulation.

RC hole YM-8 rejects were used as standard checks on the assays. The results are tabulated (attached) with check vs. original assays.

Overall, there is good correlation with Core vs. Reverse Circulation Drilling results.

Mark A. Miller / mek

Mark A. Miller

MAM:mek
Att.

YARNELL PROJECT

REVERSE CIRCULATION/DIAMOND DRILL COMPARISON

Interval	RC Hole YM-8	Diamond Drill YDDH-1
5-10	.003	.006
10-15	.027	.003
15-20	.002	.008
17-19		
20-25	.008	.001
25-30	.004	.004
30-35	.037	.001
35-36		.012
36-37		.034
37-38	.212	.134
37-39		
38-39		.108
39-40		.195
40-45	.015	.108
45-50	.02	.125
50-55	.044	.015
57-59		
55-60	.01	.003
60-65	.004	.002
65-70	.023	.015
70-75	.01	.01
77-79		
75-80	.037	.019
80-85	.018	.008
85-90	.011	.012
90-95	.012	.013
97-99		
95-100	.015	.002
100-105	.004	.001
105-110	.01	.006
110-115	.001	.001
115-120	.033	.039
117-119		
120-125	.005	.05
125-130	.01	.004
130-135	.641 No Sample ?	
135-140	.017	.013
137-139		
140-145	.004	.02
145-150	.004	.011
150-155	.02	.01
155-160	.043	.021
157-159		

YM-8 Check Assays		
Interval	Check Assay 1/4/90	Original 4/4/89
15-20	.009	.002
35-40	.075	.212
55-60	.003	.01
75-80	.018	.037
95-100	.006	.015
115-120	.014	.033
135-140	.011	.017
155-160	.033	.043

YARNELL PROJECT

REVERSE CIRCULATION/DIAMOND DRILL

COMPARISON

Interval	RC Hole YM-8	Diamond Drill YDDH-1
160-165	.008	.058
165-170	.047	.016
170-175	.014	.017
177-179		
175-180	.016	.008
180-185	.029	.026
185-190	.004	.019
190-195	.009	.017
197-199		
200-205	.012	.013
205-210	.005	.029
210-215	.019	.061
217-219		
215-220	.01	.02
220-225	.004	.017
225-230	.047	.043
227-229		
230-235	.044	.013
235-240	.029	.003
237-239		
240-245	.018	.016
242-244		
245-250	.013	.009
247-249		
250-255	.048	.065
252-254		
255-260	.087	.079
257-259		
260-265	.063	.153
262-264		
265-270	.023	.012
267-269		
270-275	.037	.019
272-274		

YM-8 Check Assays		
Interval	Check Assay 1/4/90	Original 4/4/89
175-180	.021	.016
195-200	.018	.019
215-220	.017	.01
225-230	.056	.047
230-235	.044	.044
235-240	.024	.029
240-245	.017	.018
245-250	.009	.013
250-255	.056	.048
255-260	.111	.087
260-265	.084	.063
265-270	.023	.023
270-275	.028	.037

.452/10
= .0045

B Zone

BULK ASSAY REPORT

TRIAD MINERALS CO.
ASSAYING & CONSULTING
P.O. Box 2754 · Mile Post 115, Hwy. 89
Wickenburg, Arizona 85358
602-684-3616

DATE 1-12-90

ASARCO Incorporated

JAN 12 1990

SW exploration

COMPANY ASARCO LAB #010990-1

REFIRE

PAGE 1

Sample Description	Ounces per ton AU (gold)	AG (silver)	Remarks
YDDH-1 40-45	.122		
YDDH-1 45-50	.119		
YDDH-1 130-135	.016		

Certified Assays When Signed And Dated

1-12-90 [signature]
DATE SIGNATURE

Incomplete See Attached

GSI GEOCHEMICAL SERVICES INC.

GEOCHEMICAL ANALYSIS REPORT

O: Mr. James D. Sell
ASARCO Inc.
P. O. Box 5747
Tucson, AZ 85703 tel:602/792-3010

ASARCO Incorporated
JAN 1 0 1990
SW Exploration

~~copy~~ for MAMüller
JD Rasmussen
JDSell

which do you think of the Te Mo Ga values? where is location map.

file in Yarnell File

Job Number: ASB-OR1722
Analysis Code: SRP30
Digest: 30 gram
Total number of samples: 131

his report has been reviewed and approved by:

Nancy G. Gonzalez for Date: 1/11/90
ary Leitch, Quality Assurance Manager

3805 Atherton Road • Rocklin, California 95677 • 916/624-6000 1/800/827-4GSI FAX: 916/624-8986
1498 Kleppe Lane • Sparks, Nevada 89431 • 702/359-6600 FAX: 702/359-6605

GEOCHEMICAL SERVICES INC.

GEOCHEMICAL ANALYSIS REPORT

JOB #: ASB-OR1722

Soils

SAMPLE ID	#	Ag ppb	Au ppb	As ppm	Bi ppm	Cd ppm	Hg ppm	Sb ppm	Se ppm	Te ppm	Cu ppm	Mo ppm	Pb ppm	Zn ppm	Ga ppm	Tl ppm
YA 200	1	165.	117.	40.3	1.32	.371	.131	3.36	<.246	1.06	35.9	20.7	58.5	160.	2.82	<.493
YA 201	2	233.	614.	31.6	1.31	.324	.121	3.27	<.249	1.29	38.3	21.6	51.0	149.	2.43	<.497
YA 202	3	146.	185.	49.7	.477	.567	.197	.761	.345	.128	29.9	4.19	34.4	181.	4.34	<.497
YA 203	4	144.	157.	12.6	.409	.384	.152	.516	<.248	.06	27.6	1.58	33.9	117.	4.65	<.495
YA 204	5	198.	237.	12.7	.364	.553	.142	.512	.309	.102	32.0	1.93	39.1	100.	2.97	<.492
YA 205	6	171.	549.	10.0	.552	.364	.086	.638	<.247	.145	40.1	2.88	19.8	94.4	4.29	<.494
YA 206	7	186.	130.	9.12	.413	.422	.04	.426	<.247	.074	41.9	1.48	16.3	93.3	4.93	<.494
YA 207	8	268.	188.	8.34	.333	.564	.062	.385	<.249	.074	55.4	1.39	20.6	109.	4.60	<.497
YA 208	9	173.	178.	6.86	.360	1.02	.05	.544	<.247	.055	49.7	1.71	14.5	89.1	3.21	<.494
YA 209	10	201.	188.	7.19	1.01	.375	.042	.370	<.248	.107	54.1	1.90	17.6	76.4	4.21	<.496
YA 210	11	77.5	59.1	5.02	.208	.231	.028	.331	<.248	<.05	28.0	1.29	12.3	62.5	3.46	<.495
YA 211	12	103.	95.3	6.53	.426	.250	.04	.360	<.246	<.049	27.4	1.25	17.0	59.3	3.75	<.493
YA 212	13	100.	127.	5.67	.350	.423	.049	.405	<.248	<.05	25.3	1.39	20.4	65.1	3.00	<.496
YA 213	14	82.4	129.	6.87	.248	.455	.042	.519	<.247	.053	21.6	1.70	15.4	52.3	3.26	<.494
YA 214	15	96.2	593.	5.19	.180	.244	.041	.376	<.249	.074	16.5	2.25	12.5	38.9	3.32	<.498
YA 215	16	73.5	54.5	6.40	.216	.811	.043	.382	.270	<.049	18.1	1.24	13.1	58.7	3.55	<.494
YA 216	17	91.4	26.1	8.62	.327	.792	.111	.516	<.246	<.049	23.4	1.42	21.9	75.9	3.72	<.493
YA 217	18	150.	85.5	11.5	.525	.403	.074	.904	<.248	.145	24.2	2.93	22.7	57.2	2.90	<.496
YA 218	19	82.7	38.7	8.55	.376	.310	.048	.549	<.249	.056	20.1	1.63	20.3	54.6	3.18	<.499
YA 219	20	102.	106.	9.03	.320	.194	.047	.630	<.25	<.05	22.0	1.80	19.3	56.7	4.09	<.499
YA 220	21	72.2	59.9	6.47	.279	.185	.04	.526	<.247	.073	18.5	1.53	16.2	51.1	3.35	<.493
YA 221	22	66.6	53.4	7.36	.284	.136	.025	.524	<.247	<.049	17.7	1.51	16.6	46.2	3.30	<.493
YA 222	23	167.	22.7	13.9	.281	.154	.059	.473	<.248	<.05	17.5	2.01	24.6	67.4	5.18	<.495
YA 226	24	47.6	8.59	5.04	.479	.125	<.02	.359	<.249	<.05	20.4	1.74	22.5	76.0	5.17	<.498
YA 227	25	43.2	19.3	9.68	.332	.139	.023	.743	<.249	<.05	24.3	1.45	17.9	60.8	4.71	<.497
YA 228	26	37.8	30.5	5.17	.291	.140	<.02	.351	<.249	<.05	16.9	1.75	22.1	58.0	4.31	<.498
YA 229	27	96.1	265.	6.23	.316	.214	<.02	.407	<.248	.052	21.2	1.56	18.3	55.3	3.53	<.496
YA 230	28	101.	230.	6.50	.269	.358	.02	.417	<.249	<.05	24.8	1.56	19.7	65.5	4.16	<.498
YA 231	29	71.7	177.	9.56	.309	.339	.051	.635	<.248	.071	20.4	2.41	14.8	48.7	3.45	<.496
YA 232	30	92.0	236.	6.88	.290	.425	.042	.430	<.249	<.05	24.2	2.12	18.9	67.8	4.41	<.498

ASARCO Incorporated
JAN 11 1990
SW Exploration

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GEOCHEMICAL SERVICES INC.

GEOCHEMICAL ANALYSIS REPORT

JOB #: ASB-OR1722

SAMPLE ID	#	Ag ppb	Au ppb	As ppm	Bi ppm	Cd ppm	Hg ppm	Sb ppm	Se ppm	Te ppm	Cu ppm	Mo ppm	Pb ppm	Zn ppm	Ga ppm	Tl ppm
YA 233	31	146.	177.	11.6	.404	.261	.048	.408	<.246	<.049	28.2	1.78	27.4	94.2	4.82	<.493
YA 234	32	164.	148.	15.4	.439	.238	.073	.822	<.246	.129	30.0	5.45	26.2	93.2	4.96	<.492
YA 235	33	72.5	98.3	8.72	.334	.211	.031	.507	<.249	<.05	21.2	2.39	20.9	63.5	3.51	<.499
YA 236	34	68.9	42.7	9.73	.304	.168	.041	.483	<.246	<.049	18.7	1.64	19.9	59.0	3.58	<.492
YA 237	35	70.5	66.7	10.1	.337	.197	.037	.528	<.247	<.049	18.3	1.65	21.4	63.7	3.45	<.494
YA 238	36	58.3	89.9	9.30	.320	.165	.03	.539	<.249	<.05	18.7	1.81	20.6	57.7	3.73	<.498
YA 239	37	39.1	14.6	6.77	.285	.186	.022	.323	<.249	<.05	18.1	1.45	22.8	66.4	4.27	<.499
YA 240	38	41.1	25.9	6.39	.212	.121	<.02	.378	<.25	<.05	15.6	1.44	18.2	56.6	3.60	<.5
YA 241	39	65.4	147.	6.57	.245	.110	<.02	.324	<.25	<.05	15.0	1.08	17.5	51.9	3.74	<.5
YA 242	40	60.8	105.	5.31	.926	.135	<.02	.297	<.248	<.05	25.7	1.48	20.8	61.0	4.98	<.496
YA 243	41	56.0	31.6	6.12	.447	.223	.024	.344	<.247	<.049	23.6	1.52	25.0	80.5	5.32	<.494
YA 244	42	30.9	15.3	5.57	.435	.200	<.02	.407	<.25	<.05	18.8	1.91	24.1	69.4	5.00	<.5
YA 245	43	53.9	10.7	5.99	.490	.134	<.02	.340	<.248	<.05	21.3	1.76	23.3	76.6	5.81	<.497
YA 246	44	85.3	297.	9.04	.305	.269	.052	.383	<.247	<.049	28.9	1.43	17.3	97.8	4.38	<.494
YA 247	45	354.	440.	9.04	.301	.389	.024	.340	<.249	.117	55.1	1.42	15.5	93.6	4.34	<.497
YA 248	46	221.	448.	11.3	.306	.415	.049	.337	<.248	.082	44.4	1.75	18.9	114.	5.24	<.495
YA 249	47	187.	363.	13.5	.488	.450	.100	.466	<.249	.113	32.0	2.25	29.0	103.	4.24	<.499
YA 250	48	132.	166.	8.83	.355	.390	.079	.400	<.247	.081	30.6	1.50	22.6	101.	4.76	<.494
YA 251	49	131.	189.	9.19	.365	.398	.059	.416	<.249	<.05	27.4	1.16	24.6	103.	4.65	<.498
YA 252	50	199.	530.	9.66	.362	.386	.134	.464	<.249	<.05	24.7	1.30	27.5	102.	4.58	<.498
YA 253	51	200.	461.	14.3	.397	.816	.176	.608	<.25	<.05	27.3	2.04	43.9	270.	4.02	<.499
YA 254	52	107.	135.	29.2	.541	.386	.104	1.05	<.249	.272	23.6	8.39	31.4	145.	4.03	<.498
YA 255	53	142.	458.	56.2	.507	.322	.110	.907	<.249	.199	31.9	6.05	28.6	111.	4.22	<.499
YA 255 DUP	54	141.	512.	54.7	.472	.329	.120	.907	<.246	.216	31.0	6.19	28.6	102.	3.49	<.493
YA 256	55	98.4	109.	4.73	.353	.315	.043	.407	<.246	<.049	21.6	1.24	20.1	58.7	3.41	<.493
YA 257	56	91.6	166.	9.13	.336	.388	.063	.496	<.249	.057	24.9	1.89	18.8	61.5	4.31	<.499
YA 258	57	127.	832.	10.5	.478	.231	.021	1.16	<.248	.205	16.7	5.96	17.9	41.7	2.16	<.496
YA 259	58	111.	772.	6.74	.368	.451	.038	.453	<.246	.074	23.7	2.98	18.3	62.6	3.35	<.492
YA 260	59	127.	115.	7.07	.350	.394	.052	.355	<.25	<.05	24.3	1.86	24.0	77.1	3.70	<.5
YA 261	60	108.	112.	8.95	.305	.242	.046	.446	<.25	<.05	27.0	1.60	22.8	81.3	4.35	<.5

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GSI GEOCHEMICAL SERVICES INC.

GEOCHEMICAL ANALYSIS REPORT

JOB #: AS8-OR1722

SAMPLE ID	#	Ag ppb	Au ppb	As ppm	Bi ppm	Cd ppm	Hg ppm	Sb ppm	Se ppm	Te ppm	Cu ppm	Mo ppm	Pb ppm	Zn ppm	Ga ppm	Tl ppm
YA 262	61	135.	468.	16.0	.440	.234	.054	.795	<.247	<.049	24.2	1.98	26.5	81.9	4.41	<.495
YA 263	62	61.2	54.9	11.2	.307	.166	.046	.563	<.248	<.05	20.1	1.38	23.1	65.7	3.67	<.496
YA 264	63	66.0	95.3	10.0	.335	.169	.036	.592	<.249	<.05	19.2	1.52	19.7	58.0	3.73	<.498
YA 265	64	61.2	20.4	8.14	.343	.172	.031	.474	<.246	<.049	16.1	1.59	19.1	51.6	3.09	<.493
YA 266	65	53.0	53.0	7.80	.418	.189	<.02	.546	<.247	<.049	16.6	1.77	21.4	51.7	3.32	<.494
YA 267	66	39.7	24.8	7.71	.239	.110	<.02	.436	<.249	<.05	17.4	1.38	20.6	81.1	5.50	<.497
YA 268	67	133.	379.	24.4	.519	.266	.088	.453	<.247	.059	20.8	1.81	27.3	95.6	4.63	<.493
YA 269	68	47.0	17.3	18.8	1.76	.156	.046	.495	<.247	<.049	27.3	1.87	28.0	124.	7.00	<.493
YA 270	69	43.2	10.5	5.06	1.07	.130	.035	.315	<.246	<.049	19.2	1.23	16.8	51.6	3.63	<.493
YA 271	70	36.5	30.3	6.14	.672	.151	<.02	.338	<.248	<.05	14.8	1.15	27.9	48.3	3.17	<.495
YA 272	71	37.3	2.39	6.06	.485	.197	<.02	.438	<.246	<.049	20.9	1.83	27.6	84.5	5.76	<.493
YA 273	72	63.7	14.0	6.33	.443	.155	.022	.373	<.249	<.05	20.8	1.30	18.8	78.4	6.00	<.498
YA 274	73	98.1	69.5	4.71	.380	.286	.066	.404	<.249	.059	24.3	1.36	25.0	66.1	4.08	<.498
YA 275	74	133.	523.	5.81	.497	.387	.043	.385	<.247	.083	23.9	1.34	24.1	60.9	3.67	<.494
YA 276	75	131.	718.	6.56	.409	.333	.036	.497	<.247	.100	22.5	1.84	25.8	68.8	4.16	<.493
YA 277	76	157.	280.	5.98	.443	.526	.045	.340	<.248	.113	30.8	1.43	19.9	86.3	3.63	<.496
YA 278	77	222.	307.	9.45	1.63	.523	.073	.435	<.247	.128	31.4	1.81	26.3	109.	3.81	<.493
YA 279	78	197.	318.	19.0	.750	.425	.075	.579	<.247	.118	29.8	2.53	28.7	105.	3.85	<.494
YA 280	79	127.	13.4	10.0	.393	.382	.083	.337	<.247	.096	22.3	1.85	21.2	79.7	2.42	<.495
YA 281	80	126.	5.39	8.38	.439	.373	.120	.437	<.248	.085	31.5	1.42	25.3	84.5	3.61	<.496
YA 282	81	61.4	43.0	4.69	.171	.203	.035	.239	<.247	<.049	16.3	.865	15.8	43.1	2.03	<.494
YA 283	82	239.	603.	9.99	1.33	.496	.139	.316	<.25	<.05	21.1	1.43	30.0	120.	2.17	<.5
YA 284	83	85.3	48.2	38.2	.315	.312	.071	.451	<.247	<.049	17.1	2.08	24.3	104.	2.84	<.494
YA 285	84	93.1	209.	35.6	.277	.263	.059	.486	<.247	.067	20.1	3.15	20.5	62.4	2.44	<.493
YA 285 DUP	85	85.4	144.	33.1	.282	.262	.05	.485	<.246	.054	20.0	3.11	20.2	62.1	2.31	<.493
YA 286	86	66.8	120.	7.59	.289	.261	.028	.482	<.249	<.05	19.6	1.58	20.6	37.3	2.27	<.497
YA 288	87	60.9	104.	4.38	.181	.328	.062	.300	<.25	<.05	19.9	1.41	22.5	46.6	1.82	<.499
YA 289	88	53.6	36.0	4.39	.163	.197	.028	.255	<.247	<.049	19.3	1.16	18.7	42.4	1.92	<.493
YA 290	89	66.0	37.9	5.64	.219	.219	.028	.280	<.247	<.049	18.4	1.36	19.7	38.7	1.94	<.494
YA 291	90	54.1	26.4	6.80	.202	.184	.033	.308	<.247	<.049	15.8	1.79	18.8	38.1	2.06	<.494

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geochemical services inc. TEL No. 916 624 8986 Jan 11 '90 10:26 P.05/07

GSI GEOCHEMICAL SERVICES INC.

GEOCHEMICAL ANALYSIS REPORT

JOB #: ASB-OR1722

SAMPLE ID	#	Ag ppb	Au ppb	As ppm	Bi ppm	Cd ppm	Hg ppm	Sb ppm	Se ppm	Te ppm	Cu ppm	Mo ppm	Pb ppm	Zn ppm	Ga ppm	Tl ppm
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'A 292	91	54.3	60.7	9.32	.281	.155	.048	.431	<.247	<.049	17.3	1.87	18.0	33.5	2.13	<.494
'A 293	92	60.0	45.6	8.14	.301	.176	.058	.394	<.248	<.05	17.9	1.72	20.3	36.4	2.31	<.496
'A 294	93	50.2	27.8	8.28	.355	.175	<.02	.481	<.25	.059	15.0	1.50	19.1	31.4	2.18	<.499
'A 295	94	50.4	17.3	6.82	.327	.145	<.02	.333	<.246	<.049	13.8	1.45	17.5	30.3	2.15	<.493
'A 296	95	48.7	20.7	8.87	.304	.125	.023	.381	<.249	<.05	14.0	1.34	19.9	34.1	2.81	<.499
'A 297	96	97.6	22.5	12.0	.286	.116	.038	.442	<.247	<.049	11.5	1.25	20.8	32.9	3.30	<.494
'A 298	97	68.5	23.7	10.9	.381	.116	.028	.325	<.247	<.049	13.5	1.23	19.1	58.1	4.37	<.494
'A 299	98	31.3	9.08	9.37	.347	.088	<.02	.363	<.248	<.05	13.5	1.50	19.0	59.0	4.93	<.496
'A 300	99	52.7	1.88	3.64	.179	.135	<.02	.204	<.248	<.05	14.4	1.01	15.3	33.3	2.56	<.495
'A 301	100	51.4	13.6	10.0	.463	.174	.033	.295	<.247	<.049	16.6	1.29	24.8	49.2	2.50	<.493
'A 302	101	64.9	13.4	7.34	.360	.120	<.02	.277	<.248	<.05	25.9	1.32	18.8	45.8	4.09	<.495
'A 303	102	74.4	73.0	3.96	.258	.257	.023	.315	<.249	<.05	20.6	1.31	19.0	33.7	1.93	<.499
'A 304	103	90.4	59.8	4.62	.382	.364	.044	.361	<.249	.058	24.2	1.54	22.8	39.4	1.87	<.497
'A 306	104	134.	116.	8.77	.526	.320	.05	.389	<.248	.110	32.4	1.60	25.6	53.9	2.23	<.496
'A 307	105	116.	72.6	6.87	.493	.343	.047	.384	<.249	.111	26.6	1.29	25.4	52.6	2.27	<.499
'A 308	106	99.6	191.	10.0	.460	.317	.054	.494	<.249	.089	24.1	1.24	28.3	59.7	2.44	<.498
'A 309	107	84.0	101.	5.96	.300	.230	.022	.346	<.249	.072	21.0	.964	19.8	52.1	2.82	<.497
'A 310	108	64.5	113.	10.0	.329	.186	.034	.385	<.25	<.05	18.8	3.65	15.7	55.4	2.42	<.5
'A 311	109	60.6	66.2	20.2	.341	.240	.04	.336	<.247	<.049	17.8	1.13	25.4	60.0	2.52	<.494
'A 312	110	65.1	21.2	13.0	.295	.412	.042	.361	<.247	<.049	21.6	1.48	23.8	93.5	2.22	<.494
'A 313	111	79.8	59.1	14.2	.447	.417	.059	.415	<.249	.102	19.0	1.97	25.6	90.2	2.03	<.497
'A 314	112	43.9	5.74	3.96	.290	.144	.028	.230	<.249	<.05	8.51	.526	21.2	61.5	3.90	<.498
'A 315	113	24.1	2.72	4.86	.083	.147	.024	.223	<.249	<.05	8.33	.486	17.2	47.2	3.24	<.498
'A 315 DUP	114	20.5	2.05	4.05	.095	.136	<.02	.201	<.249	<.05	7.47	.429	15.4	40.6	2.74	<.497
'A 316	115	45.1	2.15	3.37	.264	.332	.037	.271	<.249	<.05	19.2	.702	20.2	67.1	3.47	<.497
'A 317	116	43.6	4.04	3.47	.191	.265	.022	.198	<.246	<.049	18.0	.760	22.5	64.6	3.28	<.493
'A 318	117	40.6	4.90	3.16	.175	.241	<.02	.195	<.247	<.049	14.9	.638	17.6	52.5	2.68	<.493
'A 319	118	34.8	2.21	3.69	.154	.102	<.02	.178	<.248	<.05	11.9	.616	15.0	43.7	3.43	<.496
'A 320	119	45.3	7.14	5.22	.279	.216	<.02	.303	<.249	<.05	10.9	.700	30.9	86.9	3.61	<.498
'A 321	120	56.4	11.9	6.49	.310	.314	.029	.403	<.25	<.05	22.5	1.24	73.2	165.	3.84	<.499

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GSI GEOCHEMICAL SERVICES INC.

GEOCHEMICAL ANALYSIS REPORT

JOB #: ASB-OR1722

SAMPLE ID	#	Ag ppb	Au ppb	As ppm	Bi ppm	Cd ppm	Hg ppm	Sb ppm	Se ppm	Te ppm	Cu ppm	Mo ppm	Pb ppm	Zn ppm	Ga ppm	Tl ppm
'A 322	121	43.6	16.2	4.29	.171	.103	.031	.287	<.249	<.05	15.8	1.17	17.9	51.0	4.25	<.498
'A 323	122	72.9	22.1	9.19	.238	.345	.03	.391	<.248	<.05	22.9	1.67	28.3	100.	3.85	<.496
'A 326	123	170.	184.	17.8	.305	1.08	.082	.659	<.247	.084	25.6	2.09	73.0	341.	2.16	<.495
'A 327	124	176.	110.	8.34	.270	.551	.08	.405	<.247	.057	28.3	1.33	35.2	179.	2.55	<.494
'A 328	125	114.	111.	7.84	.283	.468	.05	.518	<.248	.116	35.1	1.04	23.6	141.	2.40	<.497
'A 329	126	147.	79.6	9.22	.284	.457	.057	.429	<.248	.076	48.2	1.26	23.8	103.	2.39	<.497
'A 330	127	124.	58.6	11.0	.289	.307	.043	.502	<.248	<.05	34.9	.999	20.1	68.5	2.59	<.495
'A 331	128	83.8	30.1	9.23	.249	.315	.041	.326	<.247	.059	29.9	1.01	17.9	53.7	1.88	<.495
'A 332	129	131.	41.8	21.8	.545	.218	.047	.527	<.249	<.05	31.8	1.22	22.8	40.7	2.32	<.499
'A 333	130	76.9	31.0	11.2	.254	.429	.053	.305	<.248	<.05	30.5	1.07	17.1	57.0	2.00	<.495
'A 334	131	117.	36.6	21.8	.653	.355	.074	.446	<.249	.055	47.2	1.68	25.1	52.2	2.87	<.498

ASARCO Incorporated
JAN 11 1990
SW Exploration

3805 Atherton Road • Rocklin, California 95677 • 916/624-6000 1/800/827-4GSI FAX: 916/624-8986
1498 Kleppe Lane • Sparks, Nevada 89431 • 702/359-6600 FAX: 702/359-6605

GSI
GEOCHEMICAL SERVICES INC.

Q.A.REPORT

Dear Customer:

In order to assure the quality of our products, we have withheld data on the following sample(s) listed below:

1. YA 223	2. YA 224	3. YA 225
4. YA 225 DUP	5. YA 287	6. YA 305
7. YA 324	8. YA 325	9.
10.	11.	12.

The reason that the data was withheld is checked below:

___ The sample(s) listed above contained unusually high values for one or more elements. In order for us to assure our higher reporting limits, it is necessary to re-run the sample at a higher dilution factor. Rather than hold your report for this data, the report was issued less the sample(s) in question. The data for the delayed sample(s) will be ready no later than _____.

✓ The sample(s) listed above need to be re-run through the normal process. Rather than hold your report for this data, the report was issued less the sample(s) in question. The data for the delayed sample(s) will be ready no later than 1/16/90.

We apologize for any inconvenience that this action may have caused you. If for any reason our scheduled completion date is inadequate for your program please call and let me know.

Sincerely yours,

Nancy G. Gonzalez for

Mary Leitch
Quality Assurance Manager

ASARCO Incorporated
JAN 11 1990
SW Exploration

Incomplete See Attached

GEOCHEMICAL SERVICES INC.

GEOCHEMICAL ANALYSIS REPORT

TO: Mr. James D. Sell
ASARCO Inc.
P. O. Box 5747
Tucson, AZ 85703 tel:602/792-3010

CC: M.A. Miller
J.D. Rasmussen
J.D. Sell

Job Number: ASB-0S6273
Analysis Code: GXPL10
Digest: 10 gram
Total number of samples: 59

ASARCO Incorporated
JAN 11 1990
SW Exploration

This report has been reviewed and approved by:

Nancy G. Gonzalez for Date: 1/11/90
Mary Leitch, Quality Assurance Manager

3805 Atherton Road • Rocklin, California 95677 • 916/624-6000 1/800/827-4GSI FAX: 916/624-8986
1498 Kleppe Lane • Sparks, Nevada 89431 • 702/359-6600 FAX: 702/359-6605

geochemical services inc. tel no. 916 624 8986 jan 11,90 12:00 p.02/04

GEOCHEMICAL SERVICES INC.

GEOCHEMICAL ANALYSIS REPORT

JOB #: ASB-OS6273

SAMPLE ID	#	Ag ppm	As ppm	Au ppm	Cu ppm	Hg ppm	Mo ppm	Pb ppm	Sb ppm	Tl ppm	Zn ppm	Bi ppm	Cd ppm	Ga ppm	Se ppm	Te ppm
YM26 0 5	1	.109	4.76	.02	27.4	<.099	1.24	10.1	<.246	<.493	70.6	<.246	.109	1.10	<.985	<.493
YM26 25 30	2	.041	2.67	.008	18.6	<.096	2.35	9.01	<.241	<.481	240.	<.241	.108	1.31	<.962	<.481
YM26 50 55	3	.05	17.3	.012	15.5	<.099	1.87	14.2	<.248	<.495	94.7	<.248	<.099	.884	<.99	<.495
YM26 75 80	4	.064	22.9	.014	8.85	<.1	2.08	9.59	<.249	<.498	54.4	<.249	.101	<.498	<.995	<.498
YM26 100 105	5	.065	25.4	.016	10.8	<.099	2.16	21.0	<.248	<.496	141.	<.248	.109	<.496	<.991	<.496
YM26 125 130	6	.099	39.4	.320	15.7	<.099	2.79	20.4	<.248	<.496	163.	<.248	.163	1.36	<.991	<.496
YM26 175 180	7	.051	8.10	.011	10.0	<.099	2.61	9.57	<.248	<.497	45.1	<.248	.106	1.40	<.993	<.497
YM26 200 205	8	.790	139.	.769	36.8	<.097	14.7	255.	1.01	<.485	124.	1.81	.298	<.485	<.971	1.46
YM26 200 205 DUP	9	.722	124.	.698	33.4	<.099	13.3	231.	1.00	<.496	113.	1.68	.278	<.496	<.991	1.30
YM26 225 230	10	.395	69.4	1.09	5.13	<.099	3.79	9.17	<.247	<.494	43.5	.287	.139	<.494	<.988	<.494
YM26 250 255	11	.518	15.1	.762	5.55	<.099	5.40	7.69	<.248	<.496	34.3	<.248	.189	<.496	<.991	<.496
YM26 275 280	12	.782	11.8	2.44	26.3	<.097	2.76	4.73	<.242	<.483	36.4	.323	.166	<.483	<.966	.509
YM26 300 305	13	.302	5.11	.206	2.46	<.099	2.70	3.71	<.248	<.495	94.2	<.248	.120	<.495	<.99	<.495
YM26 325 330	14	.164	188.	.520	6.85	<.099	4.97	10.1	.414	<.496	36.7	<.248	.169	<.496	<.992	<.496
YM26 350 355	15	.200	58.4	.399	5.29	.187	9.02	6.97	<.249	<.498	90.4	<.249	.257	<.498	<.996	<.498
YM26 375 380	16	.034	3.31	.014	1.19	<.096	1.19	4.19	<.239	<.479	21.4	<.239	.128	<.479	<.958	<.479
YM26 395 400	17	.058	5.13	.015	1.64	<.098	1.09	8.94	<.245	<.489	23.6	<.245	.149	<.489	<.978	<.489
YM26 425 430	18	.069	6.85	.019	12.4	<.099	2.73	10.1	<.247	<.494	54.4	<.247	.114	2.30	<.987	<.494
YM26 445 450	19	.04	4.65	.009	10.6	<.096	1.03	12.6	.289	<.478	52.8	<.239	<.096	2.41	<.957	<.478
YM6 0 5	20	.067	6.78	.025	14.3	<.098	1.58	16.6	.467	<.491	187.	<.246	.108	1.71	<.982	<.491
YM6 25 30	21	.067	2.00	.056	14.5	<.096	2.20	12.8	.559	<.48	113.	<.24	.357	1.00	<.961	<.48
YM6 50 55	22	.071	11.4	.013	12.6	<.097	2.28	10.7	.558	<.487	172.	<.243	.149	.528	<.974	<.487
YM6 75 80	23	.071	17.5	.021	11.7	<.099	2.23	8.82	1.04	<.494	47.1	<.247	.137	<.494	<.987	<.494
YM6 100 105	24	.064	23.0	.143	14.9	<.099	2.94	8.85	1.17	<.496	92.9	<.248	.213	<.496	<.991	<.496
YM6 125 130	25	.580	18.8	2.32	4.99	<.099	2.12	7.12	.679	<.496	36.4	.967	<.099	<.496	<.991	<.496
YM6 150 155	26	.319	19.9	1.11	3.50	<.097	7.53	10.7	.539	<.483	24.1	.742	.141	<.483	<.965	<.483
YM6 175 180	27	.562	22.2	5.22	2.55	<.1	3.89	5.90	.550	<.5	25.8	<.25	.207	<.5	<.999	<.5
YM6 200 205	28	.137	27.9	.472	1.86	<.098	4.28	7.46	.326	<.488	71.0	<.244	.157	<.488	<.976	<.488
YM6 225 230	29	.493	22.2	1.26	2.02	.112	8.43	7.29	1.14	<.48	49.6	<.24	.232	<.48	<.961	.599
YM6 250 255	30	.238	32.6	.164	1.64	<.099	2.32	6.26	.604	<.493	41.7	<.247	.180	<.493	<.986	<.493

ASARCO Incorporated
JAN 11 1990
SW Exploration

3805 Atherton Road • Rocklin, California 95677 • 916/624-6000 1/800/827-4GSI FAX: 916/624-8986
1498 Kleppe Lane • Sparks, Nevada 89431 • 702/359-6600 FAX: 702/359-6605

geochemical services inc. TEL NO. 916 624 8986 Jan 11,90 17:00 P.02/04

GEOCHEMICAL SERVICES INC.

GEOCHEMICAL ANALYSIS REPORT

JOB #: ASB-0S6273

SAMPLE ID	#	Ag ppm	As ppm	Au ppm	Cu ppm	Hg ppm	Mo ppm	Pb ppm	Sb ppm	Tl ppm	Zn ppm	Bi ppm	Cd ppm	Ga ppm	Se ppm	Te ppm
rM6 275 280	31	.445	42.4	1.39	1.52	.166	11.0	4.42	1.11	<.498	21.2	.775	<.1	<.498	<.996	.753
rM6 300 305	32	.126	3.21	.163	.920	<.099	1.91	5.92	.808	<.495	93.3	<.247	.154	<.495	<.989	<.495
rM6 325 330	33	.022	3.58	.037	.694	<.097	1.94	5.54	.475	<.484	44.8	<.242	.116	.681	<.967	<.484
rM6 350 355	34	.056	17.6	.05	1.62	<.097	1.93	7.59	.317	<.483	43.8	<.241	.119	.502	<.965	<.483
rM6 375 380	35	.045	13.2	.024	1.65	<.096	3.00	6.18	.293	<.48	30.2	<.24	<.096	<.48	<.961	<.48
rM6 395 400	36	.049	3.74	.016	4.42	<.1	1.72	8.15	.365	<.5	32.6	<.25	.136	.950	<.999	<.5
r50 0 10	37	.131	7.54	.118	26.1	<.099	.983	7.45	.407	<.497	39.5	<.249	.108	1.45	<.994	<.497
r50 20 30	38	.197	10.6	.261	14.5	<.096	2.33	8.43	.555	<.481	40.4	<.241	.159	.734	<.962	<.481
r50 40 50	39	.057	10.9	.044	8.71	<.096	.887	7.07	<.24	<.479	34.8	<.24	.135	1.60	<.959	<.479
r50 60 70	40	.189	26.6	.381	22.0	<.097	3.58	11.7	.401	<.483	57.0	<.242	.307	.626	<.966	<.483
r50 80 90	41	.077	9.30	.131	13.6	<.096	1.71	7.74	<.239	<.478	37.4	<.239	.180	1.43	<.956	<.478
r50 100 110	42	.09	17.8	.061	15.7	<.097	2.25	12.2	<.242	<.484	38.2	<.242	.178	.994	<.967	<.484
r50 100 110 DUP	43	.086	16.1	.051	14.2	<.098	2.01	10.7	<.244	<.489	35.9	<.244	.157	.837	<.978	<.489
r50 120 130	44	.102	9.85	.054	15.4	<.1	2.23	10.6	<.25	<.499	39.2	<.25	.189	1.21	<.998	<.499
r50 140 150	45	.368	13.2	2.11	14.0	.151	2.22	5.86	<.238	<.477	36.9	.309	.181	1.30	<.953	1.06
r50 160 170	46	.255	8.98	.547	11.2	<.097	3.02	8.81	<.243	<.486	27.5	<.243	.251	1.10	<.973	<.486
r50 180 190	47	.374	12.3	.426	38.4	.119	1.66	10.1	.538	<.481	33.4	<.241	.227	.666	<.962	<.481
r50 200 210	48	.270	13.4	.210	15.3	.168	1.71	10.8	<.24	<.481	33.5	<.24	.267	.969	<.962	<.481
r50 220 230	49	.397	21.5	.668	19.6	<.1	1.98	7.39	<.249	<.499	41.5	<.249	.252	.524	<.997	<.499
r50 240 250	50	.211	19.6	.139	24.2	<.099	1.72	12.5	<.248	<.496	46.6	<.248	.319	1.01	<.991	<.496
r50 260 270	51	.113	22.6	.326	15.4	.103	2.11	13.6	<.247	<.494	41.2	.279	.250	.670	<.987	<.494
r50 280 290	52	.517	21.7	.584	20.2	.110	1.56	7.30	.323	<.493	35.6	<.246	.249	1.27	<.985	.869
r50 300 310	53	.473	20.3	.358	18.7	<.099	2.17	8.09	<.247	<.495	25.7	<.247	.180	.555	<.989	.800
r50 320 330	54	.364	36.2	.867	14.3	<.097	4.19	7.95	<.242	<.483	43.0	<.242	.246	.789	<.966	.704
r50 340 350	55	1.39	17.4	2.13	50.8	<.099	1.96	6.60	<.249	<.497	21.9	<.249	.157	.869	<.994	2.94
r50 360 370	56	.603	16.6	.599	141.	.134	3.71	6.61	<.241	<.481	29.0	<.241	.177	<.481	<.962	<.481
r50 380 390	57	.087	8.32	.142	20.3	<.1	2.96	8.11	<.249	<.498	25.7	<.249	.356	<.498	<.996	<.498
r50 400 410	58	.115	6.54	.450	9.49	<.099	4.25	6.77	<.248	<.495	20.3	<.248	.180	.857	<.99	<.495
r50 420 430	59	.074	14.0	.239	2.72	<.099	2.20	6.01	<.247	<.495	20.0	<.247	.268	.739	<.989	<.495

ASARCO Incorporated
JAN 11 1990
SW Exploration

3805 Atherton Road • Rocklin, California 95677 • 916/624-6000 1/800/827-4GSI FAX: 916/624-8986
1498 Kleppe Lane • Sparks, Nevada 89431 • 702/359-8600 FAX: 702/359-6605

GSI
GEOCHEMICAL SERVICES INC.

Q.A.REPORT

Dear Customer:

In order to assure the quality of our products, we have withheld data on the following sample(s) listed below:

1. YMZ6 150 155 2. _____ 3. _____

4. _____ 5. _____ 6. _____

7. _____ 8. _____ 9. _____

10. _____ 11. _____ 12. _____

The reason that the data was withheld is checked below:

____ The sample(s) listed above contained unusually high values for one or more elements. In order for us to assure our higher reporting limits, it is necessary to re-run the sample at a higher dilution factor. Rather than hold your report for this data, the report was issued less the sample(s) in question. The data for the delayed sample(s) will be ready no later than _____.

✓ The sample(s) listed above need to be re-run through the normal process. Rather than hold your report for this data, the report was issued less the sample(s) in question. The data for the delayed sample(s) will be ready no later than 1/16/90.

We apologize for any inconvenience that this action may have caused you. If for any reason our scheduled completion date is inadequate for your program please call and let me know.

Sincerely yours,

Nancy G. Gonzalez

Mary Leitch
Quality Assurance Manager

AS1200 / [illegible]

JAN 11 1990

SW Exploration

3805 Atherton Road • Rocklin, California 95677 • 916/624-9701 FAX: 916/624-8986

GEOCHEMICAL SERVICES INC.

GEOCHEMICAL ANALYSIS REPORT

O: Mr. James D. Sell
ASARCO Inc.
P. O. Box 5747
Tucson, AZ 85703 tel:602/792-3010

==========

Job Number: REP-0S6273
Analysis Code: GXPL10
Digest: 10 gram
Total number of samples: 1

ASARCO Incorporate
JAN 1 6 1990
SW Exploration

==========

'his report has been reviewed and approved by:

Nancy G. Gonzalez for Date: 1/15/90
lary Leitch, Quality Assurance Manager

3805 Atherton Road • Rocklin, California 95677 • 916/624-6000 1/800/827-4GSI FAX: 916/624-8988
1498 Kleppe Lane • Sparks, Nevada 89431 • 702/359-6600 FAX: 702/359-6605

GEOCHEMICAL SERVICES INC

GEOCHEMICAL ANALYSIS REPORT

B #: REP-0S6273

MPLE ID	#	Ag ppm	As ppm	Au ppm	Cu ppm	Hg ppm	Mo ppm	Pb ppm	Sb ppm	Tl ppm	Zn ppm	Bi ppm	Cd ppm	Ga ppm	Se ppm	Te ppm
126 150 155	1	.075	15.4	.012	21.3	<.096	2.03	20.6	.446	<.478	54.7	.545	.186	.998	<.956	<.478

ASARCO Incorporated

JAN 1 6 1990

SW Exploration

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1498 Kleppe Lane • Sparks, Nevada 89431 • 702/359-6600 FAX: 702/359-6605

ASARCO

Exploration Department
Southwestern United States Division

January 11, 1990

Mr. Jerry L. Haggard
Apker, Apker, Haggard & Kurtz, P.C.
2111 East Highland Avenue, Suite 230
Phoenix, AZ 85016

Yarnell Project
Yavapai County, AZ

Dear Jerry:

Reference is made to your letter of June 20, 1989, in particular Requirement No. 6 on page 14.

A field examination was conducted on Victoria Nos. 1 through 5. The found corners were surveyed, and the lost corners were monumented. During the examination no location monuments were found.

Enclosed are the following:

1. Amended Notice of Location for Victoria Nos. 2 through 5.

2. Area map of the Victoria claim group.

As we discussed before, are the enclosed Amended Notice of Locations, as I have written them, satisfactory?

It should be noted that in conversation with several local Yarnell people, they put the mine workings for Victoria No. 1 outside the claim on the west side.

Please call if you need further information.

Sincerely,

W. D. Gay

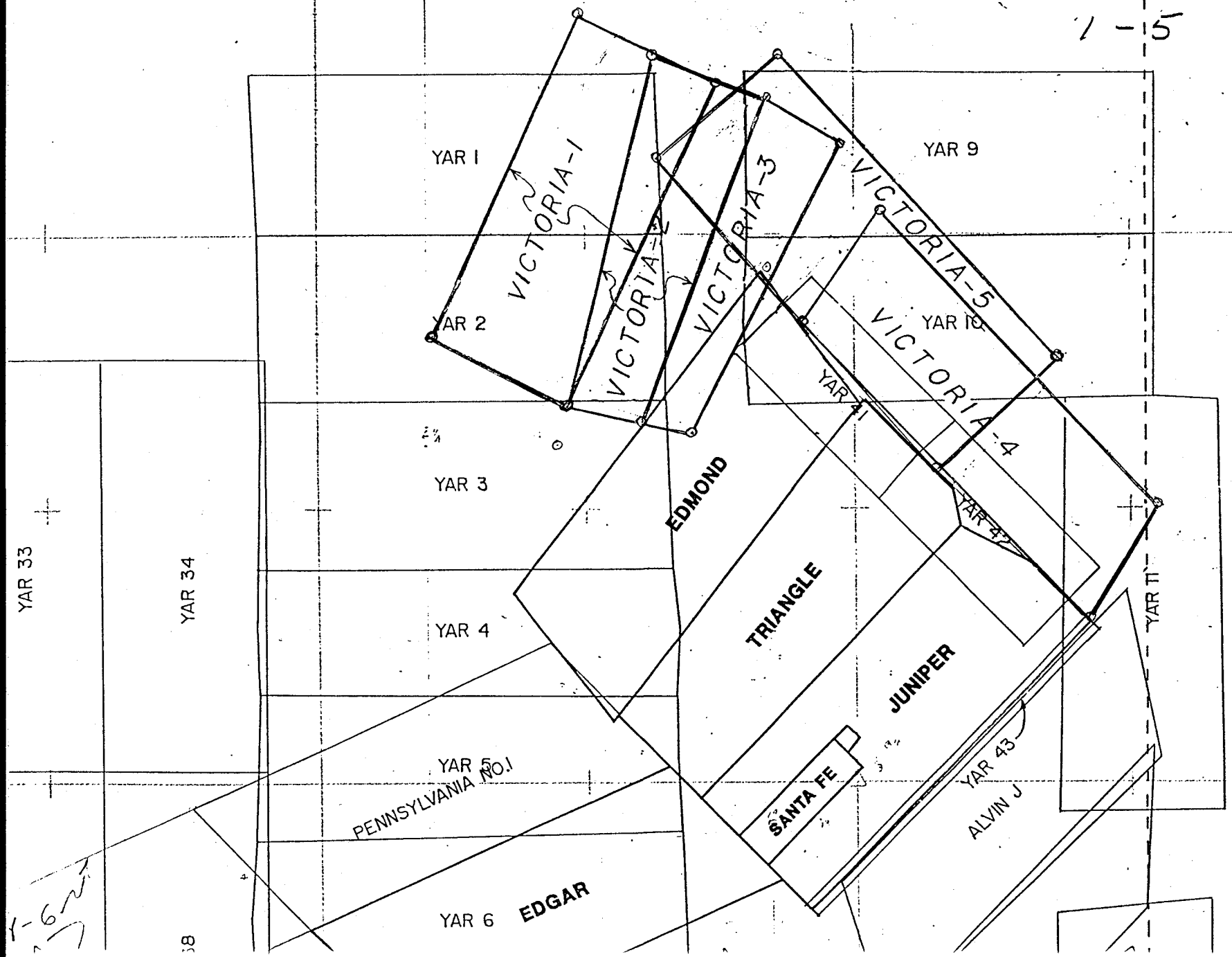
W. D. Gay
Land Engineer, SWED

WDG:mek
Encs.

cc: J.D. Sell
W.L. Kurtz

ASARCO Incorporated P. O. Box 5747 Tucson, Az 85703-0747
1150 North 7th Avenue (602) 792-3010

AREA MAP
OF
VICTORIA CLAIMS
1 - 5



AMENDED NOTICE OF LOCATION
(Lode Claim)

Notice is hereby given that _____, by _____ undersigned agent, makes this location of the VICTORIA-4 lode mining claim, in the WEAVER Mining District, County of YAVAPAI, State of Arizona.

The claim is 1500 feet in length along the vein or deposit of mineral bearing rock in place and 478 feet in width (239 feet on either side of the center line of the claim), forming a claim in the shape of a parallelogram. The general course of said claim is from NW to SE.

This Notice is posted on the centerline of the claim which location monument is in Section 14, Township 10 N, Range 5 W, GSRB&M.

The location monument of said claim is located approx. N26°05'E 3585' from the 5W corner of Section 14, Township 10N, Range 5 W, GSRB&M, Arizona and said claim lies within the W½ & SE¼ Sec. 14, T10N, R5W. GSRB&M.

The surface boundaries of the claim are described as follows: Beginning at the discovery monument and running thence N44°W 50 feet to the center of the end line and the true point of beginning thence (clockwise) N30°E 250' to corner 1, thence S44°E 1500' to corner 2, thence S30°W 250' to center end line, thence S30°W 250' to corner 3, thence N44°W 1500' to corner 4, thence N30°E 250' to point of beginning.

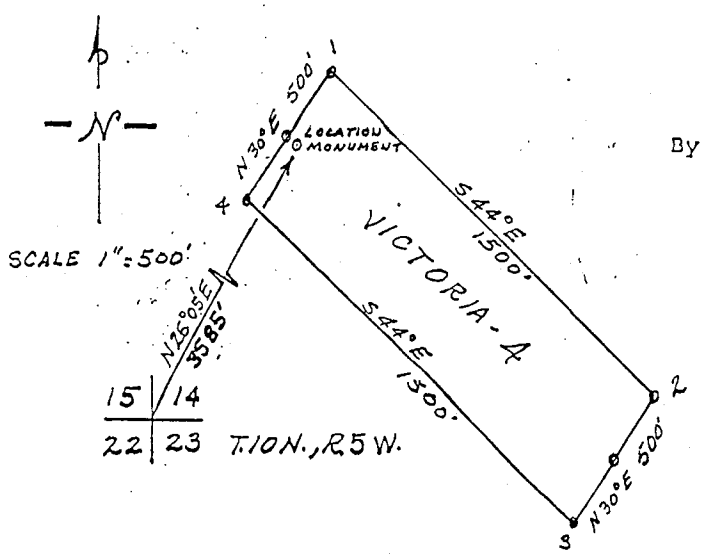
There are seven substantial posts, projecting at least 4 feet above the surface of the ground, or stone monuments, at least 3 feet high, one for the location monument, one at each of the four corners and one at the center of each end line as prescribed by A.R.S. §27-204.

Located, dated and posted on the ground this _____ day of _____, 19___.

The original Notice of Location of this claim is recorded in the official records of _____ County, Arizona, as follows:

Name of Claim	Recorded Book	Recorded Page	Recorded Date
VICTORIA-4	1287	769 & 770	3-2-80

This amendment is made for purposes of more accurately describing the boundries hereof and correcting errors or ommissions (if any) contained in the original location notice. This amendment is made without waiver of the rights previously acquired under the location hereof. If for any reason it is determined that this notice is ineffective as an amendment of the location of this claim, the undersigned intends that this amendment shall serve as an original location of the area described herein as of the date of posting hereof.



By _____
Agent

O = ALL POSTS 4' – 2X2 OR 2" PVC PIPE.

AMENDED NOTICE OF LOCATION
(Lode Claim)

Notice is hereby given that _____ undersigned agent, makes this location of the VICTORIA-5 lode mining claim, in the WEAVER Mining District, County of YAVAPAI, State of Arizona.

The claim is 1500 feet in length along the vein or deposit of mineral bearing rock in place and 600 feet in width (300 feet on either side of the center line of the claim), forming a claim in the shape of a parallelogram. The general course of said claim is from NW to SE.

This Notice is posted on the centerline of the claim which location monument is in Section 14, Township 10N, Range 5W, GSRB&M.

The location monument of said claim is located approx. N24°41'E 3684' from the 5W corner of Section 14, Township 10N, Range 5W, GSRB&M, Arizona and said claim lies within the W1/4, Sec. 14, T10N, R5W. GSRB&M.

The surface boundaries of the claim are described as follows: Beginning at the discovery monument and running thence N43°35'W 660 ft. to the center of the end line and the true point of beginning thence (clockwise) N46°E 300' to corner 1, thence S44°E 1500' to corner 2, thence S46°W 300' to center end line, thence S46°W 300' to corner 3, thence N44°W 1500' to corner 4, thence N46°E 300' to point of beginning.

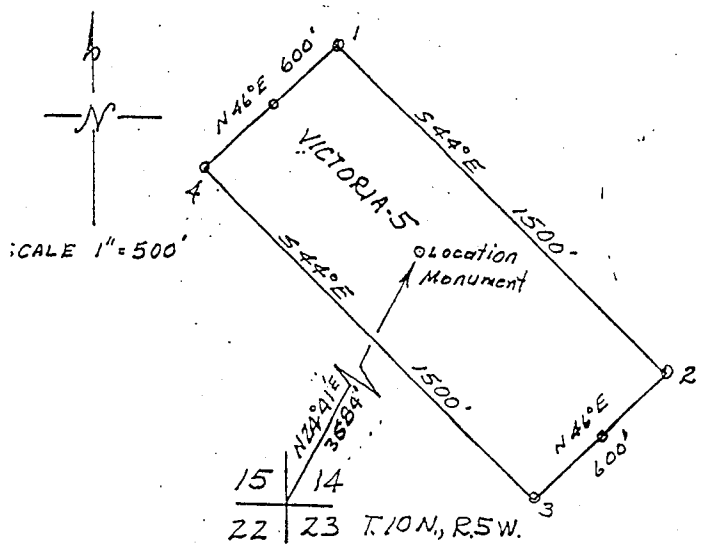
There are seven substantial posts, projecting at least 4 feet above the surface of the ground, or stone monuments, at least 3 feet high, one for the location monument, one at each of the four corners and one at the center of each end line as prescribed by A.R.S. §27-204.

Located, dated and posted on the ground this _____ day of _____, 19___.

The original Notice of Location of this claim is recorded in the official records of _____ County, Arizona, as follows:

Name of Claim	Recorded Book	Recorded Page	Recorded Date
VICTORIA – 5	1751	484 & 485	9-4-85

This amendment is made for purposes of more accurately describing the boundries hereof and correcting errors or ommissions (if any) contained in the original location notice. This amendment is made without waiver of the rights previously acquired under the location hereof. If for any reason it is determined that this notice is ineffective as an amendment of the location of this claim, the undersigned intends that this amendment shall serve as an original location of the area described herein as of the date of posting hereof.



By _____
Agent

⊙ = ALL POSTS 4' – 2X2 OR PVC PIPE.

AMENDED NOTICE OF LOCATION
(Lode Claim)

Notice is hereby given that _____, by undersigned agent, makes this location of the VICTORIA-2 lode mining claim, in the WEAVER Mining District, County of YAVAPAI, State of Arizona.

The claim is 1266 feet in length along the vein or deposit of mineral bearing rock in place and 439 NE 263 SW feet in width (131 SW 220 NE feet on either side of the center line of the claim), forming a claim in the shape of a parallelogram. The general course of said claim is from NE to SW.

This Notice is posted on the centerline of the claim which location monument is in Section 14, Township 10N, Range 5W, GSRB&M.

The location monument of said claim is located approx. N 12°31'E 2878 ft from the SW corner of Section 14, Township 10N, Range 5W, GSRB&M, Arizona and said claim lies within the NW1/4 Sec.14, T10N, R5W. GSRB&M.

The surface boundaries of the claim are described as follows: Beginning at the discovery monument and running thence S20°W 50 ft. to the center of the end line and the true point of beginning thence (clockwise) N72°W 132' to corner 1, thence N16°E 1279' to corner 2, thence S68°E 220' to center end line, thence S68°E 220' to corner 3, thence S24°W 1258' to corner 4, thence N72°W 132' to point of beginning.

There are seven substantial posts, projecting at least 4 feet above the surface of the ground, or stone monuments, at least 3 feet high, one for the location monument, one at each of the four corners and one at the center of each end line as prescribed by A.R.S. §27-204.

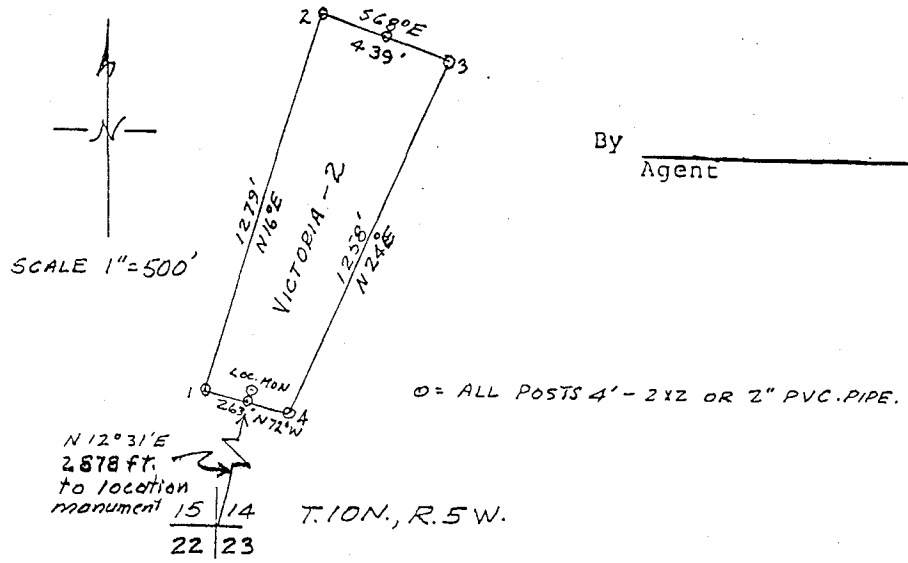
Located, dated and posted on the ground this _____ day of _____, 19__.

The original Notice of Location of this claim is recorded in the official records of _____ County, Arizona, as follows:

Name of Claim	Recorded Book	Recorded Page	Recorded Date
VICTORIA-2	1287	765 & 766	3-2-80

This amendment is made for purposes of more accurately describing the boundries hereof and correcting errors or ommissions (if any) contained in the original location notice. This amendment is made without waiver of the rights previously acquired under the location hereof. If for any reason it is determined that this notice is ineffective as an amendment of the location of this claim, the undersigned intends that this amendment shall serve as an original location of the area described herein as of the date of posting hereof.

By _____
Agent



AMENDED NOTICE OF LOCATION
(Lode Claim)

Notice is hereby given that _____, by undersigned agent, makes this location of the VICTORIA - 3 lode mining claim, in the WEAVER Mining District, County of YAVAPAI, State of Arizona.

The claim is 1225 feet in length along the vein or deposit of mineral bearing rock in place and 322 NE 187 SW feet in width (161 NE 94 SW feet on either side of the center line of the claim), forming a claim in the shape of a parallelogram. The general course of said claim is from NE to SW.

This Notice is posted on the centerline of the claim which location monument is in Section 14, Township 10 N, Range 5 W, GSRB&M.

The location monument of said claim is located approx. N17°07'E 2867 ft. from the SW corner of Section 14, Township 10 N, Range 5 W, GSRB&M, Arizona and said claim lies within the NW1/4 Sec. 14, T10N, R5W GSRB&M.

The surface boundaries of the claim are described as follows: Beginning at the discovery monument and running thence S 28°W 50 ft. to the center of the end line and the true point of beginning thence (clockwise) N74°W 94' to corner 1, thence N24°E 1258' to corner 2, thence S58°E 161' to center end line, thence S58°E 160' to corner 3, thence S31°W 1197' to corner 4, thence N74°W 94' to point of beginning.

There are seven substantial posts, projecting at least 4 feet above the surface of the ground, or stone monuments, at least 3 feet high, one for the location monument, one at each of the four corners and one at the center of each end line as prescribed by A.R.S. §27-204.

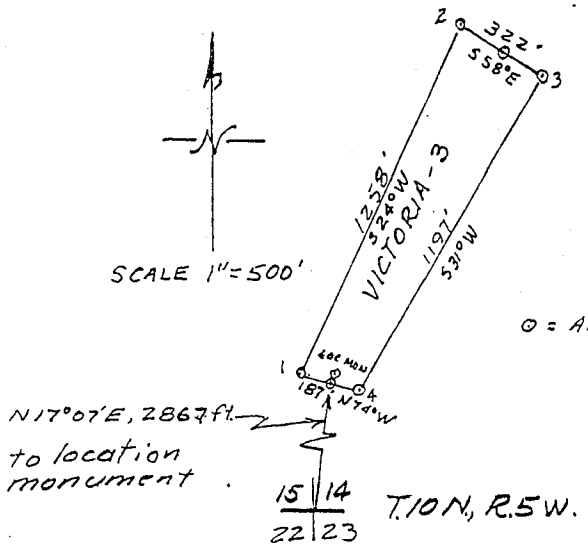
Located, dated and posted on the ground this _____ day of _____ 19__.

The original Notice of Location of this claim is recorded in the official records of _____ County, Arizona, as follows:

Name of Claim	Recorded Book	Recorded Page	Recorded Date
VICTORIA - 3	1287	767 & 768	3-2-80

This amendment is made for purposes of more accurately describing the boundries hereof and correcting errors or ommissions (if any) contained in the original location notice. This amendment is made without waiver of the rights previously acquired under the location hereof. If for any reason it is determined that this notice is ineffective as an amendment of the location of this claim, the undersigned intends that this amendment shall serve as an original location of the area described herein as of the date of posting hereof.

By _____
Agent



⊙ = ALL ~~CORNER~~ POSTS 4'-2x2 OR 2" PVC. PIPE.

regulatory approval, two directors of the company will

HOLLINGER INC.

The Transcript

TUCO ENERGY CORPORATION (TUE-V)

NORGOLD RESOURCES INC. (NGR-V)

CETEC ENGINEERING CO. INC. (CEK-V)

BULK ASSAY REPORT

TRIAD MINERALS CO.
ASSAYING & CONSULTING
P.O. Box 2754 - Mile Post 115, Hwy. 89
Wickenburg, Arizona 85358
602-684-3816

DATE 1-12-90

COMPANY ASARCO LAB #010990-1

REFIRE

PAGE 1

Sample Description	Ounces per ton AU (gold)	Ounces per ton AG (silver)	Remarks
YDDH-1 40-45	.122		
YDDH-1 45-50	.119		
YDDH-1 130-135	.016		

FRED

RECEIVED
JAN 29 1990
EXPLORATION DEPARTMENT

Certified Assays When Signed And Dated
1-12-90
DATE SIGNATURE

BULK ASSAY REPORT

TRIAD MINERALS CO.
ASSAYING & CONSULTING
P.O. Box 2754 - Mile Post 115, Hwy. 89
Wickenburg, Arizona 85358
602-684-3816

DATE 1-12-90

ASARCO Incorporated

JAN 1 2 1990

SW Exploration

COMPANY ASARCO LAB #010990-1

REFIRE

PAGE 1

Sample Description	Ounces per ton AU (gold)	Ounces per ton AG (silver)	Remarks
YDDH-1 40-45	.122		
YDDH-1 45-50	.119		
YDDH-1 130-135	.016		

Certified Assays When Signed And Dated

1-12-90 [signature]
DATE SIGNATURE

JDS

TRIAD MINERALS CO.

Assaying & Consulting

TO: ASARCO

J. D. SELL

MARK MILLER

ASARCO Incorporated

JAN 12 1990

SW Exploration

TOTAL NUMBER OF PAGES INCLUDING THIS PAGE: 2

FAX #: 1-792-3934

DATE: 1-12-90

TIME: 16.30

COMMENTS:

COREY B. EDDINGTON
METALLURGIST

MILE POST 115 HWY. 89 P.O. BOX 2754 WICKENBURG, AZ 85358
(602) 684-3816 FAX (602) 684-3013

~~WHL → WDG~~ FILE

JDS

LAW OFFICES OF
APKER, APKER, HAGGARD & KURTZ, P.C.
A PROFESSIONAL CORPORATION
PARK ONE
2111 EAST HIGHLAND AVENUE, SUITE 230
PHOENIX, ARIZONA 85016
AREA CODE 602 TELEPHONE 381-0085

BURTON M. APKER*
JERRY L. HAGGARD**
DAVID B. APKER***
GERRIE APKER KURTZ
JOHN R. FITZPATRICK

*ALSO ADMITTED IN WISCONSIN
**ALSO ADMITTED IN DISTRICT OF COLUMBIA AND KANSAS
***ALSO ADMITTED IN COLORADO

MAILING ADDRESS
P. O. BOX 10280
PHOENIX, ARIZONA 85064-0280

TELECOPIER
(602) 956-3457

January 16, 1990

Mr. W. D. Gay
Land Engineer
Southwestern Exploration Department
ASARCO Incorporated
P.O. Box 5747
Tucson, Arizona 85703

ASARCO Incorp
JAN 17 1990
SW Exploration

Re: Yarnell Project

Dear Mr. Gay:

This is in response to your January 11, 1990 letter concerning the amendments to the Victoria Nos. 2 through 5 lode mining claims. For convenience of illustration, I have written on the draft Amended Notice of Location for Victoria No. 2 which you sent, our suggestions for revisions. You will note that the Agreement between Norgold and Mr. and Mrs. Layton does not expressly provide Norgold with the right to amend the mining claims subject to that Agreement. Therefore, it would be advisable to obtain the consent of Mr. and Mrs. Layton in writing prior to amending the claims.

The second and fifth paragraphs of the Amended Notices for the Victoria No. 2 and Victoria No. 3 claims describe the end lines as not being parallel. I recognize that the land covered by Victoria Nos. 2 and 3 is planned to be used for waste dumps. However, if there is any possibility that ASARCO may want to assert extralateral rights from the Victoria Nos. 2 and 3 claims in the future, it would be necessary for the end lines of those claims to be parallel. The end lines may be moved over prior unpatented or patented claims in order to make them parallel and obtain extralateral rights even though the new land which may be taken in by the Victoria No. 2 or Victoria No. 3 claims would remain with the prior claims.

Finally, I have inserted other information which needs to be added to the sketch on the bottom of the Amended Notices.

Although it may appear to be ultra-technical to add this information because it is already contained in the body of the Amended Notices, the statute requires that information to be placed on the map or sketch (A.R.S. § 27-203). It is also noted that the BLM serial number for the original Location Notice for each claim should be included in the Amended Notices.

Please be reminded that, commencing January 3, 1990, there is a filing fee of $5.00 for each Amended Location Notice which is filed in the BLM.

Sincerely,

Jerry L. Haggard

Jerry L. Haggard
For APKER, APKER, HAGGARD
& KURTZ, P.C.

JLH/jb
Enclosures

cc: Mr. W. L. Kurtz
Mr. J. D. Sell

AMENDED NOTICE OF LOCATION
(Lode Claim)

amended

Notice is hereby given that D.C. Layton and Priscilla A. Layton, by undersigned agent, makes this location of the VICTORIA-2 lode mining claim, in the WEAVER Mining District, County of YAVAPAI, State of Arizona.

See letter

The claim is 1266 feet in length along the vein or deposit of mineral bearing rock in place and 439 NE 263 SW feet in width (131 SW 220 NE feet on either side of the center line of the claim), forming a claim in the shape of a parallelogram. The general course of said claim is from NE to SW.

See Letter

This Notice is posted on the centerline of the claim which location monument is in Section 14, Township 10N, Range 5W, GSRB&M.

The location monument of said claim is located approx. N 12°31'E 2878 ft from the SW corner of Section 14, Township 10N, Range 5W, GSRB&M, Arizona and said claim lies within the NW1/4 Sec. 14, T10N, R5W. GSRB&M.

See letter

The surface boundaries of the claim are described as follows: Beginning at the discovery monument and running thence S20°W 50 ft. to the center of the end line and the true point of beginning thence (clockwise) N72°W 132' to corner 1, thence N16°E 1279' to corner 2, ~~thence S68°E 220'~~ to center end line, thence S68°E 220' to corner 3, thence S24°W 1258' to corner 4, thence N72°W 132' to point of beginning.

There are seven substantial posts, projecting at least 4 feet above the surface of the ground, or stone monuments, at least 3 feet high, one for the location monument, one at each of the four corners and one at the center of each end line as prescribed by A.R.S. §27-204.

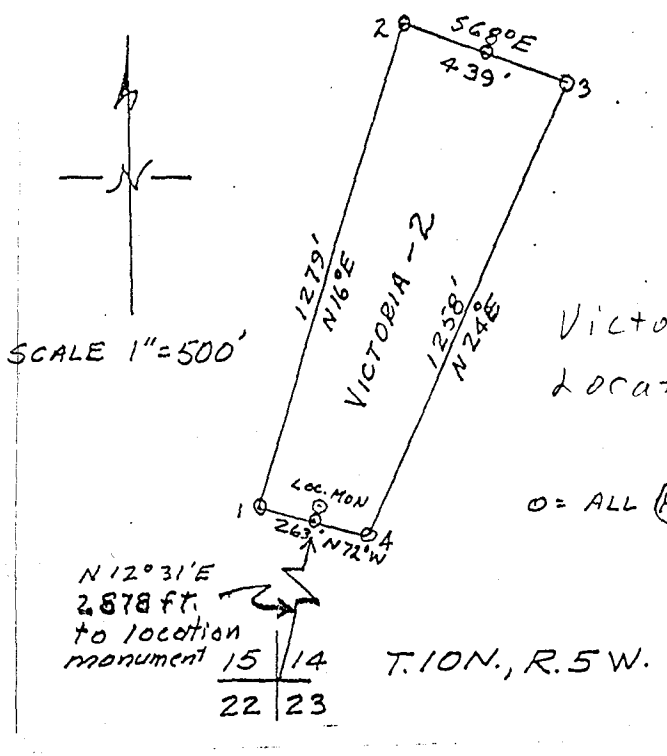
Located, dated and posted on the ground this _____ day of _____, 19__.

The original Notice of Location of this claim is recorded in the official records of Yavapai County, Arizona, as follows:

Name of Claim	Recorded Book	Recorded Page	Recorded Date	BLM Serial No
VICTORIA-2	1287	765 & 766	3-2-80	98902

This amendment is made for purposes of more accurately describing the boundries hereof and correcting errors or ommissions (if any) contained in the original location notice. This amendment is made without waiver of the rights previously acquired under the location hereof. If for any reason it is determined that this notice is ineffective as an amendment of the location of this claim, the undersigned intends that this amendment shall serve as an original location of the area described herein as of the date of posting hereof.

By _____
Agent



Victoria-2 is a Lode Claim Located in Yavapai County, Arizona

O = ALL POSTS 4'-2X2 OR 2" PVC. PIPE

State which type of monuments they are

AMENDED NOTICE OF LOCATION
(Lode Claim)

Notice is hereby given that _____, by undersigned agent, makes this location of the VICTORIA - 3 lode mining claim, in the WEAVER Mining District, County of YAVAPAI, State of Arizona.

The claim is 1225 feet in length along the vein or deposit of mineral bearing rock in place and 322 NE 187 SW feet in width (161 NE 94 SW feet on either side of the center line of the claim), forming a claim in the shape of a parallelogram. The general course of said claim is from NE to SW.

This Notice is posted on the centerline of the claim which location monument is in Section 14, Township 10 N, Range 5 W, GSRB&M.

The location monument of said claim is located approx. N17°07'E 2867 ft. from the SW corner of Section 14, Township 10 N, Range 5 W, GSRB&M, Arizona and said claim lies within the NW1/4 Sec. 14, T10N, R5W GSRB&M.

The surface boundaries of the claim are described as follows: Beginning at the discovery monument and running thence S 28°W 50 ft. to the center of the end line and the true point of beginning thence (clockwise) N74°W 94' to corner 1, thence N24°E 1258' to corner 2, thence S58°E 161' to center end line, thence S58°E 160' to corner 3, thence S31°W 1197' to corner 4, thence N74°W 94' to point of beginning.

There are seven substantial posts, projecting at least 4 feet above the surface of the ground, or stone monuments, at least 3 feet high, one for the location monument, one at each of the four corners and one at the center of each end line as prescribed by A.R.S. §27-204.

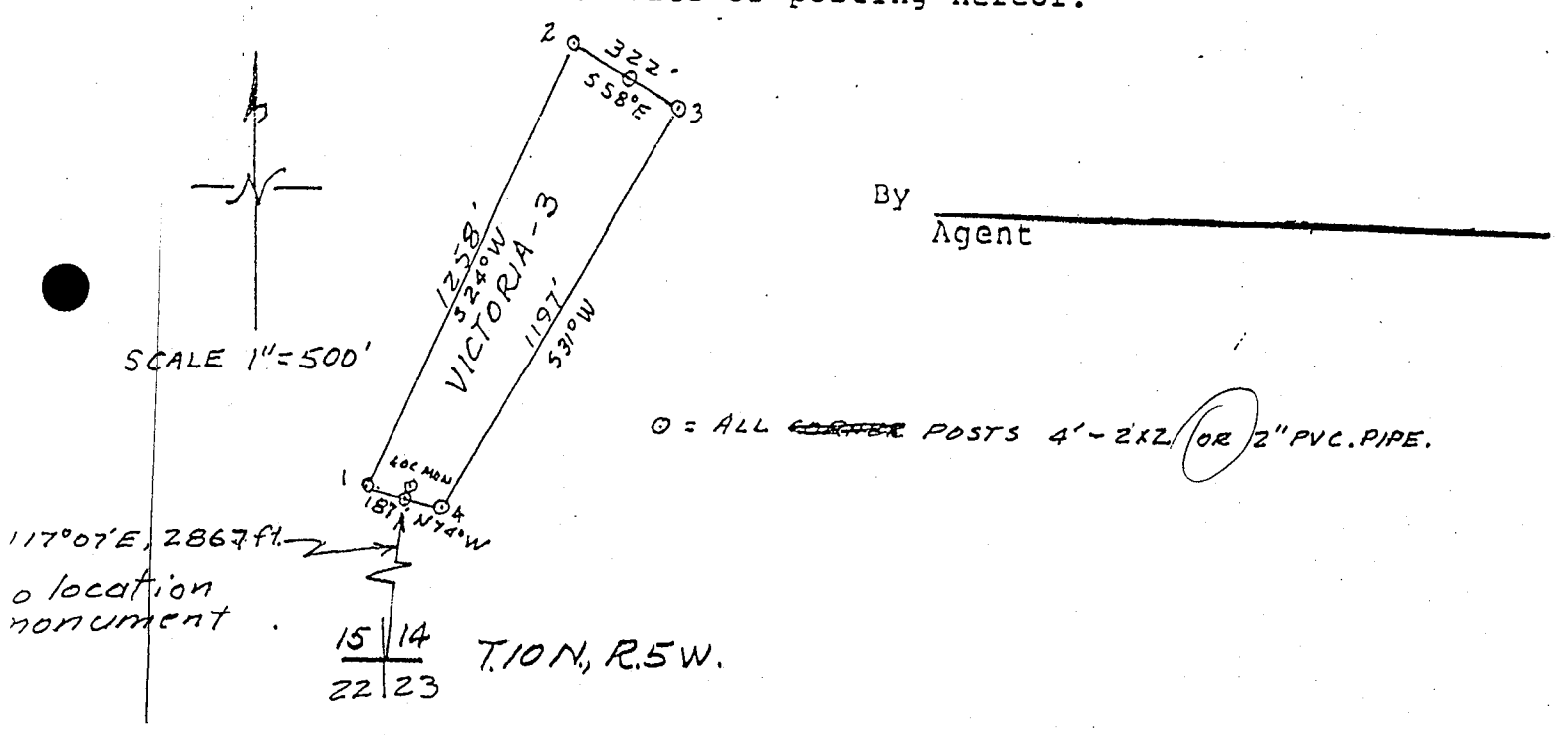
Located, dated and posted on the ground this _____ day of _____, 19___.

The original Notice of Location of this claim is recorded in the official records of County, Arizona, as follows:

Name of Claim	Recorded Book	Recorded Page	Recorded Date
VICTORIA - 3	1287	767 & 768	3-2-80

This amendment is made for purposes of more accurately describing the boundries hereof and correcting errors or ommissions (if any) contained in the original location notice. This amendment is made without waiver of the rights previously acquired under the location hereof. If for any reason it is determined that this notice is ineffective as an amendment of the location of this claim, the undersigned intends that this amendment shall serve as an original location of the area described herein as of the date of posting hereof.

By _____
Agent



AMENDED NOTICE OF LOCATION
(Lode Claim)

Notice is hereby given that _____, by undersigned agent, makes this location of the VICTORIA-4 lode mining claim, in the WEAVER Mining District, County of YAVAPAI, State of Arizona.

The claim is 1500 feet in length along the vein or deposit of mineral bearing rock in place and 478 feet in width (239 feet on either side of the center line of the claim), forming a claim in the shape of a parallelogram. The general course of said claim is from NW to SE.

This Notice is posted on the centerline of the claim which location monument is in Section 14, Township 10 N, Range 5 W, GSRB&M.

The location monument of said claim is located approx. N26°05'E 3585' from the SW corner of Section 14, Township 10 N, Range 5 W, GSRB&M, Arizona and said claim lies within the W½ & SE¼ Sec. 14, T.10 N., R.5 W. GSRB&M.

The surface boundaries of the claim are described as follows: Beginning at the discovery monument and running thence N44°W 50 feet to the center of the end line and the true point of beginning thence (clockwise) N30°E 250' to corner 1, thence S44°E 1500' to corner 2, thence S30°W 250' to center end line, thence S30°W 250' to corner 3, thence N44°W 1500' to corner 4, thence N30°E 250' to point of beginning.

There are seven substantial posts, projecting at least 4 feet above the surface of the ground, or stone monuments, at least 3 feet high, one for the location monument, one at each of the four corners and one at the center of each end line as prescribed by A.R.S. §27-204.

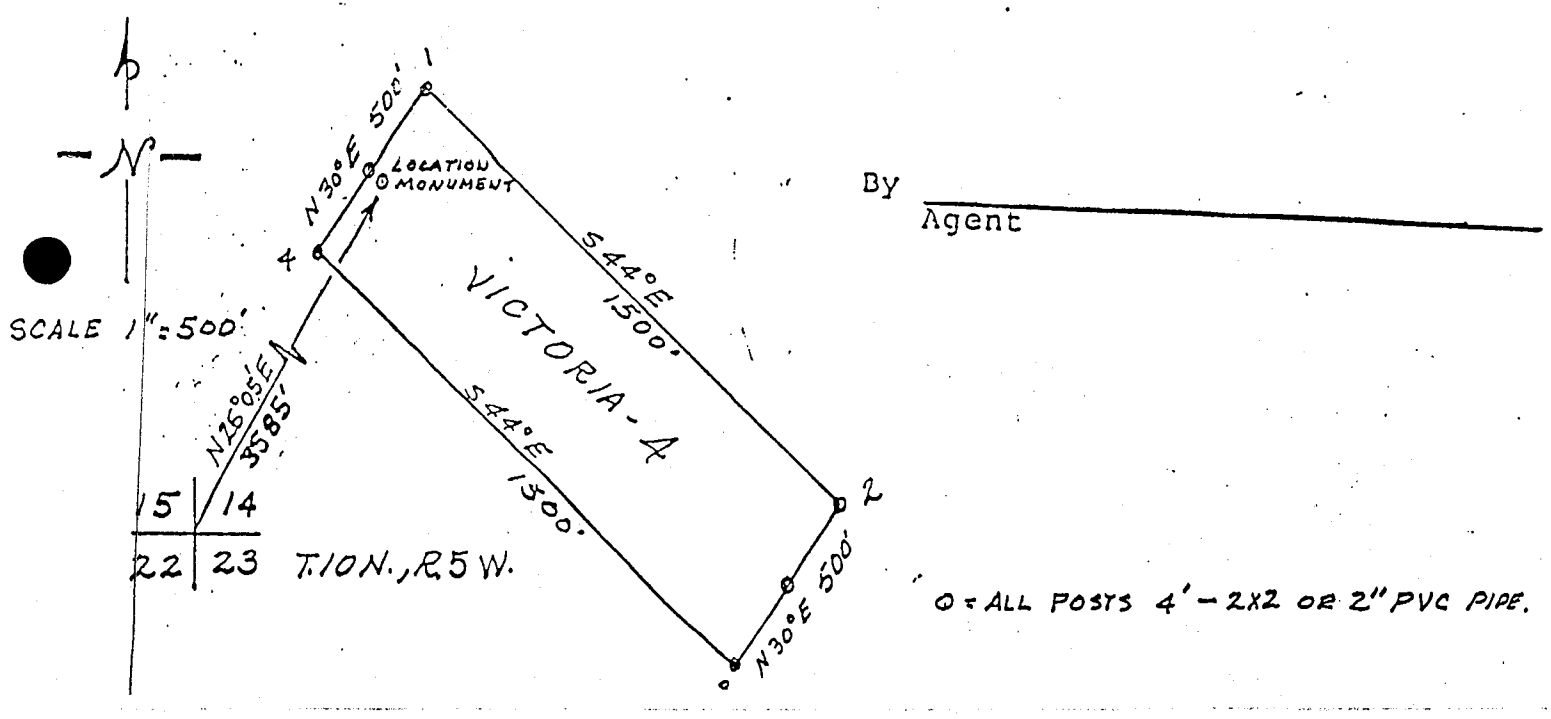
Located, dated and posted on the ground this _____ day of _____, 19___.

The original Notice of Location of this claim is recorded in the official records of _____ County, Arizona, as follows:

Name of Claim	Recorded Book	Recorded Page	Recorded Date
VICTORIA-4	1287	769 & 770	3-2-80

This amendment is made for purposes of more accurately describing the boundries hereof and correcting errors or ommissions (if any) contained in the original location notice. This amendment is made without waiver of the rights previously acquired under the location hereof. If for any reason it is determined that this notice is ineffective as an amendment of the location of this claim, the undersigned intends that this amendment shall serve as an original location of the area described herein as of the date of posting hereof.

By _____
Agent



AMENDED NOTICE OF LOCATION
(Lode Claim)

Notice is hereby given that _____, undersigned agent, location of the VICTORIA-5 lode mining claim, i. WEAVER Mining District, County of YAVAPAI, State of Arizona.

The claim is 1500 feet in length along the vein or deposit of mineral bearing rock in place and 600 feet in width (300 feet on either side of the center line of the claim), forming a claim in the shape of a parallelogram. The general course of said claim is from NW to SE.

This Notice is posted on the centerline of the claim which location monument is in Section 14, Township 10N, Range 5W, GSRB&M.

The location monument of said claim is located approx. N24°41'E 3684' from the SW corner of Section 14, Township 10N, Range 5W, GSRB&M, Arizona and said claim lies within the W1/4, Sec. 14, T10N, R5W. GSRB&M.

The surface boundaries of the claim are described as follows: Beginning at the discovery monument and running thence N43°35'W 660 ft. to the center of the end line and the true point of beginning thence (clockwise) N46°E 300' to corner 1, thence S44°E 1500' to corner 2, thence S46°W 300' to center end line, thence S46°W 300' to corner 3, thence N44°W 1500' to corner 4, thence N46°E 300' to point of beginning.

There are seven substantial posts, projecting at least 4 feet above the surface of the ground, or stone monuments, at least 3 feet high, one for the location monument, one at each of the four corners and one at the center of each end line as prescribed by A.R.S. §27-204.

Located, dated and posted on the ground this _____ day of _____, 19___.

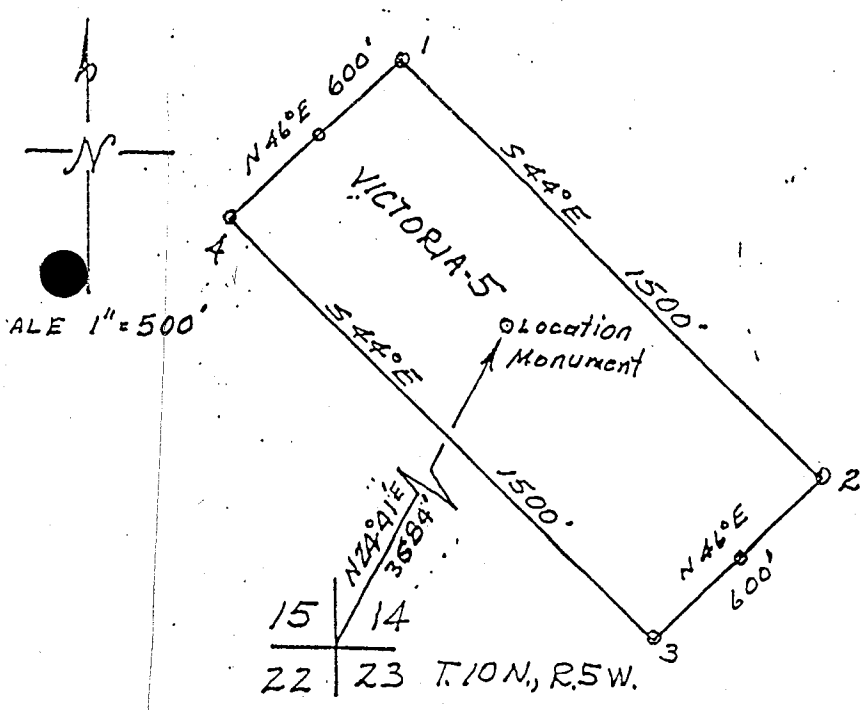
The original Notice of Location of this claim is recorded in the official records of County, Arizona, as follows:

Name of Claim	Recorded Book	Recorded Page	Recorded Date
VICTORIA-5	1751	484 & 485	9-4-85

BLM SD

This amendment is made for purposes of more accurately describing the boundries hereof and correcting errors or ommissions (if any) contained in the original location notice. This amendment is made without waiver of the rights previously acquired under the location hereof. If for any reason it is determined that this notice is ineffective as an amendment of the location of this claim, the undersigned intends that this amendment shall serve as an original location of the area described herein as of the date of posting hereof.

By _____
Agent



⊙ = ALL POSTS 4' – 2X2 OR PVC PIPE.

JDS

ASARCO

Exploration Department
Southwestern United States Division

James D. Sell
Manager

January 16, 1990

Mr. Christopher Moat, Chairman
Norgold Resources Inc.
206-475 Howe Street
Vancouver, B.C. V6C 3B3
Canada

Yarnell Project
Yavapai County, Arizona

Dear Mr. Moat:

This letter addresses the Exploration and Option Agreement, Section 15.2 of which Asarco is obligated to notify Norgold of defects in Norgold's interests of which Asarco is aware, within 30 days after execution of the Agreement.

The possible defects are as follows:

1. A problem of extralateral rights might exist stemming from the Santa Fe property within the patented Juniper Lode (MS 1112).

2. Several easements over the Juniper, Edgar, Triangle and Edmond patented mining claims:

   A. An easement dated December 13, 1939 and recorded January 4, 1940 in Book 176 of Deeds, Page 176, for a right-of-way to the Mountain States Telephone and Telegraph Company for the right, privilege and authority to construct, operate and maintain telephone and telegraph lines and poles over an undescribed portion of the Edmond and Triangle patented mining claims.

   B. An easement for ingress and egress over an existing road from U.S. Highway No. 89 over the Edmond, Triangle and Juniper patented lode mining claims for the benefit of a parcel of land within the boundaries of the Juniper patented lode mining claim conveyed to the California, Arizona and Santa Fe Railway Company, A California corporation, as set forth in Warranty Deed dated September 29, 1961 and recorded October 4, 1961 in Book 235, Page 8. Said easement comprises a strip of land twelve feet in width being six feet on each side of the center line thereof, which center line is more particularly described

ASARCO Incorporated P. O. Box 5747 Tucson, Az 85703-0747
1150 North 7th Avenue (602) 792-3010

in the document. A copy of the foregoing Warranty Deed is attached hereto as Exhibit "A." The parcel originally conveyed to the California, Arizona and Santa Fe Railroad Company is currently owned by the Atchison, Topeka and Santa Fe Railway Company by virtue of that deed dated August 19, 1963 and recorded September 3, 1963 in Book 299, page 510.

C. An easement for ingress and egress purposes over an existing roadway as reserved in that Joint Tenancy Deed dated March 29, 1973 and recorded in Book 1207, Page 425. (Affects the Edmond patented lode mining claim).

D. An easement for ingress and egress purposes over an existing roadway, thirty feet in width, reserved in that Joint Tenancy Deed dated October 14, 1974 and that Warranty Deed dated August 21, 1982, recorded respectively in Book 1375, Page 64 and Book 1485, Page 769. (Affects the Edgar patented lode mining claim).

E. An easement for ingress and egress over the Edmond and Triangle patented lode mining claims from U.S. Highway No. 89 for the benefit of a parcel of land within the boundaries of the Juniper lode mining claim conveyed to Maricopa County as set forth in Warranty Deed dated September 28, 1979 recorded in Book 1265, Pages 694 through 705. Said easement being twelve feet in width, 6 feet on each side of the center line described in said documents. All coal, oil,, gas and other mineral rights were reserved from the conveyance to Maricopa County. A description of this easement and of the parcel conveyed to Maricopa County is more fully set forth in Exhibit "B" attached hereto.

Yarnell Project

3. Two leases dated in 1958 and 1961 affecting the patented claims. These leases may have expired, but formal terminations would be advisable.

   A. The interest, if any, of Herbert K. Cameron in the subject Juniper, Edmond, Edgar and Triangle patented lode mining claims under an unrecorded lease as disclosed in a Notice of Non-liability for Labor or Materials Furnished dated March 24, 1958 and recorded March 27, 1958 in Book 121, Page 306. Said claims appear to be leased to Mr. Cameron as a storage place for explosives under certain lease dated March 24, 1958 by and between Mojave Mining and Milling Company and Herbert K. Cameron, as lessor and lessee, respectively.

   B. Interests, if any, of John T. Bearup as disclosed by that certain lease dated September 12, 1961 and recorded February 28, 1962 in Book 248, Pages 237 through 240 between Tom Ridgeway and Mable Ridgeway, husband and wife, and Ray Krieger and Jaynelle Krieger, husband and wife, lessors, and John T. Bearup, lessee, affecting all of the Subject Patented Mining Claims.

4. A realty mortgage dated in 1979 which has not been released of record. It is likely that the debt secured by this mortgage has been satisfied. However, it would be advisable to obtain a formal release of the mortgage before significant development takes place on the Triangle and Edmond patented claims.

   A. Realty mortgage dated April 18, 1979 and recorded May 16, 1979 in Book 1216, Page 390 between Western Building and Mining, Inc., an Arizona corporation, mortgagor, and James R. Deabler and Joyce N. Deabler, husband and wife, mortgagees. Said realty mortgage evidences a debt in the initial balance of $55,000.00. (Affects the Triangle and Edmond patented lode mining claims.)

5. An attempted forfeiture proceeding for failure to contribute to assessment work carried out by the prior owner of the Victoria Nos. 1 through 4 unpatented mining claims against West Beroy Inc. which owned an undivided one-half interest in those claims. However, the forfeiture proceedings were defective in numerous respects and probably did not cause the interest of West Beroy Inc. to be forfeited. The only means by which to clear this interest would be to acquire the interest from West Beroy Inc. or reinstitute the forfeiture proceedings. Unfortunately, reinstituting the forfeiture proceedings would provide West Beroy Inc. with another opportunity to cure its default and preserve its interest in the claims.

Yarnell Project

A. The record possessory title of D.C. Layton and Priscilla A. Layton in the Victoria #s 1 through 4 mining claims may be subject to an undivided one-half ownership interest of West Beroy, Inc., a California corporation. The undivided one-half interest was acquired by West Beroy, Inc., by virture of a quit claim deed dated September 21, 1982 and recorded March 25, 1983 in Book 1525, Page 64. It appears that the Laytons have attempted to acquire all of the interests of West Beroy, Inc., in and to the Victoria #s 1 through 4 claims by virtue of the forfeiture statute set forth in 30 U.S.C. Section 28. However, the law places very specific requirements on a party seeking to forfeit a co-owner for failure to contribute to assessment work. The county and BLM records do not establish that the following requirements were met:

(a) That the assessment work was actually performed during the years for which forfeiture is claimed. An affidavit was filed for Victoria #s 1 through 4 for the 1983/1984 and 1984/1985 assessment years. Even though affidavits have been filed, if the delinquent co-owner could prove that the work was not actually done, the forfeiture notices would be ineffective.

(b) That the delinquent co-owners did not actually contribute within the notice period.

(c) That the letter notices dated November 21, 1984 and January 15, 1986 were actually received by the delinquent co-owners.

See, 2 Am. L. of Mining, Sec. 46.04[2] (2nd ed 1984). Further, the county and BLM records do establish that the notices which were given contain the following defects:

(a) None of the notices identifies the specific mining claims to which the notices apply.

(b) The notice dated November 21, 1984 was not signed.

(c) The notice published in the Prescott Courier was not published for the full 90 day period required.

(d) The notice dated November 21, 1984 was addressed to Bar BM Livestock, Inc. which was improper because the Bar BM interest had been conveyed to West Beroy, Inc. by Quitclaim Deed dated September 21, 1982.

(e) The notice dated January 15, 1986 was addressed to Ansul Slome, Esq., who has no apparent interest in the mining claims.

See, 2 Am. L. of Mining, Sec. 46.04[3] (2d ed. 1984). In view of the defects identified above and other possible defects in the notices of forfeiture to West Beroy, Inc., it is highly probable that the interests of West Beroy, Inc. in the Victoria #s 1 through 4 mining claims would not be deemed forfeited.

6. An agreement (Section "A" below) between Western Building and Mining Company and Norgold. Although that agreement purports to grant an interest in the mining claims identified in Comment No. 4 to Norgold, there is no recorded conveyance of those claims from A.J. Roman and Kathryn A. Gooding to Western Building and Mining. A.J. Roman is shown to be President of Western Building and Mining. A deed should be obtained from Mr. Roman and Ms. Gooding conveying those claims to Western Building and Mining and making them subject to the Mining Agreement with Norgold.

A. Effect of that certain Mining Agreement (with option to purchase) dated December 30, 1988, as disclosed by a Memorandum of Mining Agreement dated December 30, 1988 and recorded February 6, 1989 in Book 2120, Page 243, between Western Building and Mining Company, Inc., a Pennsylvania corporation, owner, and Norgold Resources (U.S.), Inc.

Comment on "A" above.

The Memorandum of Mining Agreement described above purports to show Western Building and Mining Company, Inc. as owner of the Kathryn A., Kathryn B., Alvin J., Pennsylvania No. 1 and the Sun #s 1 and 2, 3B, 6B through 8B and 9 through 15 unpatented lode mining claims. The Memorandum of Mining Agreement is signed by A.J. Roman as President of Western Building and Mining Company, Inc. However, there is no recorded conveyance of the aforesaid mining claims from A.J. Roman and Kathryn A. Gooding to Western Building and Mining, Inc.

Yarnell Project

7. A right of way issued by the BLM to Arizona Public Service Company over the Victoria 4 and 5 claims. Any development of those claims that would affect any facilities within that right of way would likely require a rerouting of the transmission line facilities.

   A. Electric transmission line right-of-way No. AR0110 granted by the United States Department of the Interior, BLM, to Arizona Public Service Company over Lots 2 and 3, Section 14, Township 10 North, Range 5 West. (Affects the Victoria #s 4 and 5 claims.)

8. There are defects in the assessment work affidavits for the 1986 and 1988 assessment years respecting the Alvin J, Kathryn A, Kathryn B and Pennsylvania No. 1 unpatented claims. Examination failed to reveal a recorded affidavit for the Victoria #1 claim during or for the 1975 assessment year.

   A. The affidavit of annual labor when recorded is prima facie evidence of the performance of the labor or improvements. However, prior to the enactment of FLPMA in 1976, the failure to record an affidavit did not render a mining claim void. If, however, clear and convincing evidence is produced showing that the required amount of annual labor was not performed on the Victoria #1 claim, then such claim would have been subject to relocation prior to the resumption of the work in later years. Hartman Gold Mining Company v. Warning, 40 Ariz. 267, 11 P.2d 854 (1932).

   B. The affidavits for the Alvin J., Kathryn A., Kathryn B. and Pennsylvania No. 1 claims for the 1986 and 1988 assessment years only claim $300 worth of labor and improvements for the benefit of all four claims.

James D. Sell

JDS:mek
Atts.

cc: R.L. Brown
F.T. Graybeal
W.L. Kurtz

JDS

ASARCO

Southwestern Exploration Division

January 17, 1990

R.L. Brown
New York Office

M.A. Miller's Map
Yarnell Project
Yavapai County, AZ

Attached are two copies of Mr. Miller's Yarnell maps. One is colored only in the actual outcrops, the other has interpretive shading on the cover areas.

James D. Sell

James D. Sell

JDS:mek
Att.

ASARCO

Southwestern Exploration Division

JDS

January 19, 1990

W.L. Kurtz

Potential to West
Yarnell Project
Yavapai County, AZ

In the "Drill Indicated Reserve" of 12/20/89, the potential open-pit was terminated west of drill holes YM-48, 65, and 67. The reserve was calculated for a distance of 200 feet west of the drill hole line and was reported as triangle block 169M.

Down dip the toe of the pit was based on the control point of drill hole 51 which had only a 5' intercept of 0.061 opt gold. I have taken the new pit extension starting at a toe line between drill holes 51 and 49 (20' @ 0.049) and running essentially westward to a point some 1000 feet where the potential pit would curl southward to intercept the surface expression of the Yarnell Fault. The back slope on the curl would partially follow a curved drainage which is outside the highway right-of-way.

The outline of the potential is shown on Figure 1, along with the Yarnell Fault, the previous triangle block 169M, and the highway. Two cross-sections are attached as Figures 2 and 3. Figure 2 is an extension of the Section thru drill holes 48 & 67, along the east side of triangle block 169M. Figure 3 is a new section some 600 feet west of Figure 2.

Within these parameters the potential tonnage of mineral within the Main "B" zone and the overlying waste have been calculated and reported in Table 1.

Main "B" zone mineralization of 662,000 tons at 0.040-0.050 opt gold, with a total waste of 2,100,000 tons, giving an ore/waste ratio of 3.2.

Depending upon the thickness and grade of mineralization, the tonnage could increase by expanding the pit to near the right-of-way boundaries, however, based on the thinning to the NW, I have placed the boundaries as shown.

Eight holes on 200 foot centers would indicate the potential within this expanded zone.

The Figures are hand-drafted as preliminary sketches.

James D. Sell

James D. Sell

JDS:mek
Att.

TABLE 1

POTENTIAL TONS - GRADE IN WESTERN EXPANSION

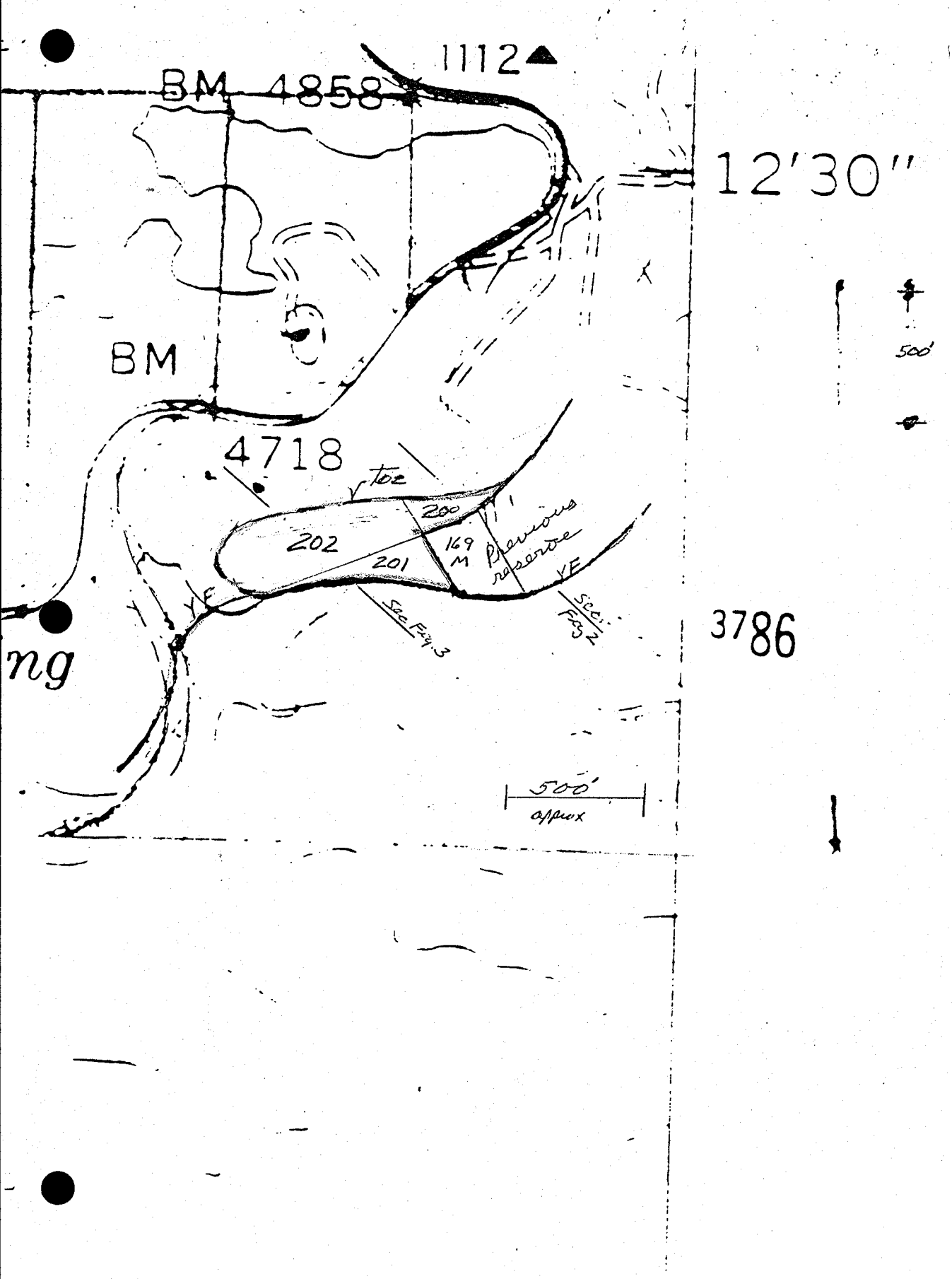
A. Main "B" Zone Mineralization

Triangle Block#	Thickness	Tons	Grade, opt Au
200	30'	67,500	±0.045
201	20'	125,000	±0.045
202	35'	469,600	±0.045
	31.7'	662,100	± 0.045

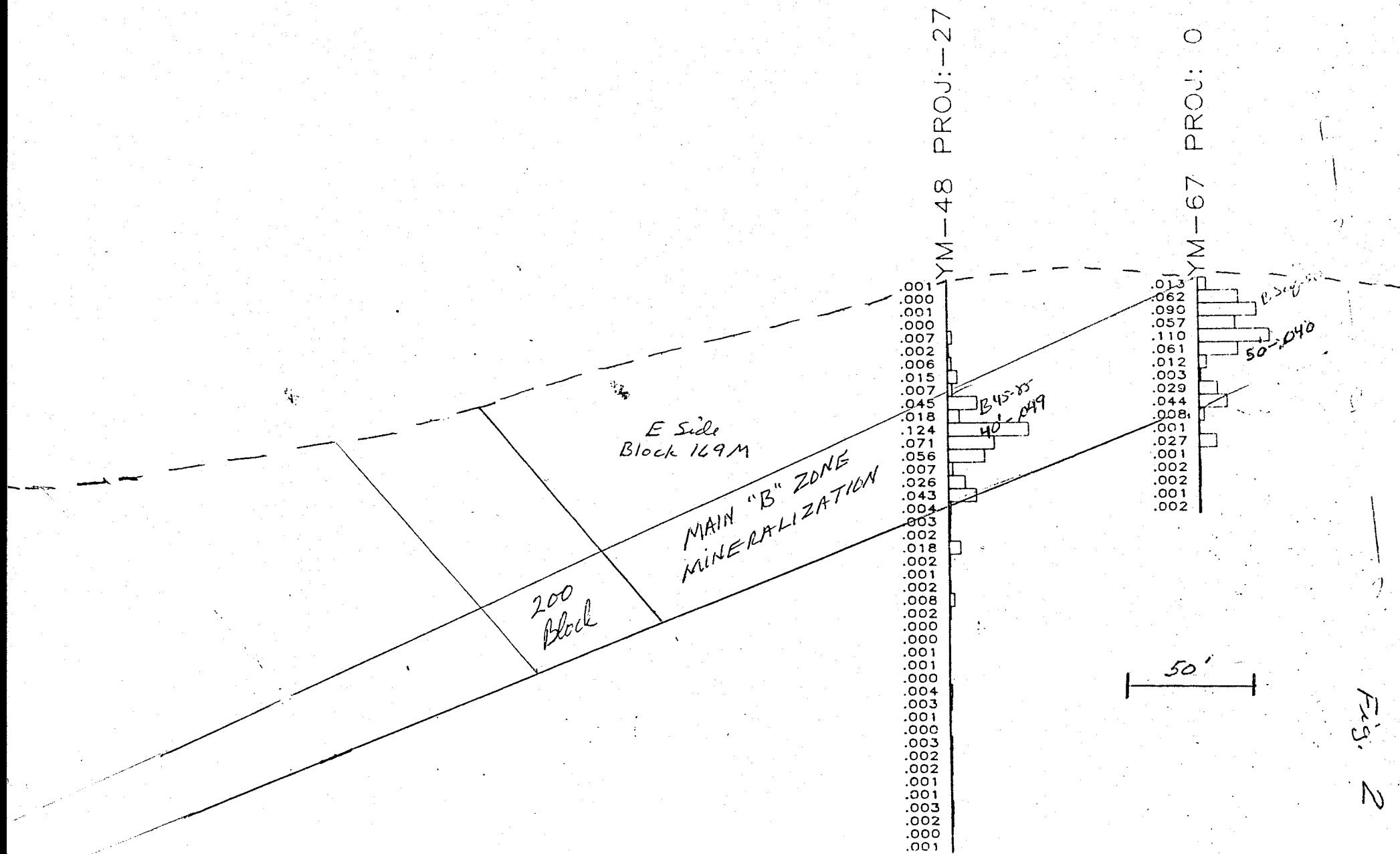
B. Waste above Main "B" Zone

Triangle Block#	Thickness	Tons
200	85'	318,750
201	15'	93,750
202	90'	1,680,000
	85.9'	2,092,500

Fig. 1.


BM 4858
1112
12'30"
BM
4718
toe
200
202
201
169
M
Previous reserve
YE
See Fig. 3
See Fig. 2
3786
500'
500'
approx
ng

4816


YM-48 PROJ:-27
YM-67 PROJ: 0
.001
.000
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.002
.006
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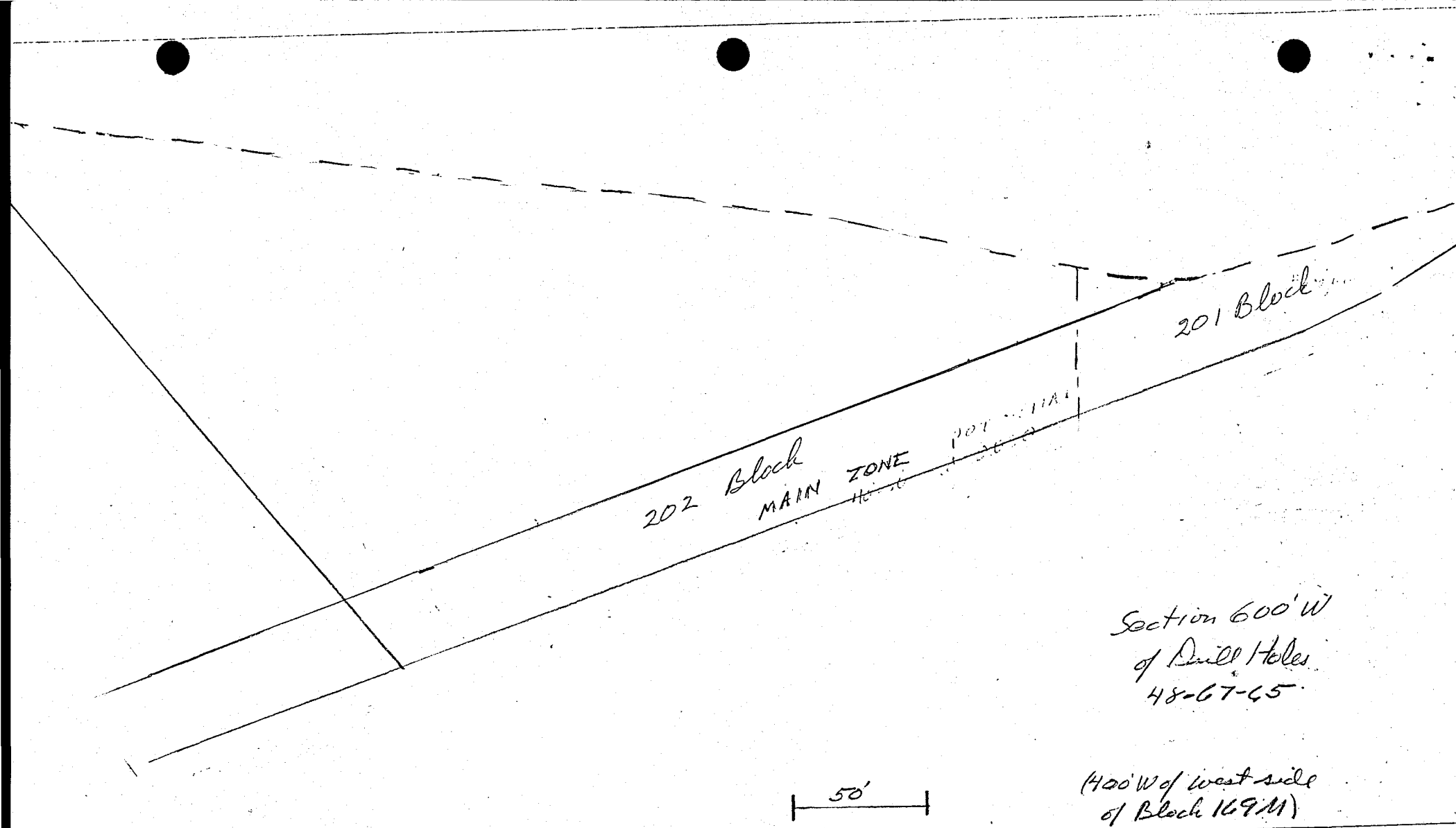
B45-55
40'-.049
.013
.062
.090
.057
.110
.061
.012
.003
.029
.044
.008
.001
.027
.001
.002
.002
.001
.002
50'-.040
E Side
Block 169M
MAIN "B" ZONE
MINERALIZATION
200
Block
50'

Fig. 2



N50W CROSS SECTIONS, LOOKING N40

SECTION LOCATION MAP

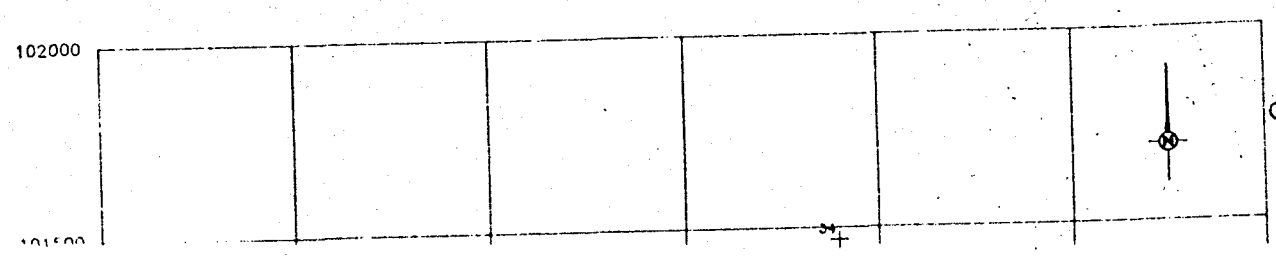


Fig. 3

ASARCO

Southwestern Exploration Division

JDS

January 19, 1990

W.L. Kurtz

Geologic Map
Yarnell Project
Yavapai County, AZ

I submit M.A. Miller's report and colored geologic map at a scale of 1" = 100' surrounding the main part of the drilled Yarnell deposit.

This outcrop map also shows all the rotary drill holes and the claim names/boundaries.

James D. Sell

JDS:mek
Att.

cc: R.L. Brown (2 copies of map previously submitted)
S.L. Lakosky
M.A. Miller

January 3, 1990

J.D. Sell

Geologic Map
Yarnell Project
Yavapai County, AZ

The attached geologic map covers the main area of alteration and mineralization that we have recognized within the project area. The mapping is outcrop type at 1" = 100' scale.

Lithology

The principal rock type seen at the Yarnell Project is a Precambrian medium to coarse grained equigranular biotite granite/granodiorite. Included within the granitic complex are schistose zeoliths of probable wall rock. The occurrence and angular nature of the zeoliths suggest that "stoping" by the intrusive has occurred. The fresh unweathered granitic rock is light greenish gray to gray in color and contains 10-20% biotite along with quartz, potassium feldspar and plagioclase feldspar. The rock when weathered exhibits a light brownish color, probably due to the iron leaching out of the biotite, and the rock becomes slightly disaggregated. Jointing is common in the unaltered granite and creates large boulders typical of granitic weathering.

A number of aplitic dikes have been located, especially in the SE area of the map. These dikes are commonly associated with quartz vein float; the importance of this relationship is still unclear. A number of these dikes have been sampled and results are pending. There are also a number of diorite -> dioritic (in composition) dikes, the most obvious (by outcrop and drill hole) is striking N10°W, dipping 80-85° SW (see map). This dike when seen in outcrop is ±10' thick and is very heavily weathered. There are other instances of diorite dikes in the chip logging of the RC holes. It is interesting to note that the Alvarado Vein has a diorite dike in the footwall which is weakly mineralized. Perhaps the diorite dikes are more important at Yarnell then previously thought.

Geologic Map January 3, 1990
Yarnell Project

Alteration Zone

We have recognized three and perhaps four mappable zones of alteration. These are described below:

Weakly Altered (propylitic) - This zone is characterized by the presence of biotite as seen in the fresh rock. However, there appears to be the beginnings of biotite replacement by iron oxide. Replacement occurs as hematite (partial) and can be easily seen with a ten-power hand lens. The feldspars also appear to be weakly sericitically altered (light green). This zone is shown as green on the geologic map.

Transition Zone - As seen in the field, the transition zone has elements of the weakly altered zone described above and the moderate altered zone described below. It is characterized by thin; <1" to +6" zones of moderate alteration within weaker altered rock. The stronger altered areas show a higher degree of sericitization, absence of biotite, some silicification and occasional limonite pseudomorphs. This zone is not separated in the mapping but is shown by yellow banding on green within the green area.

Moderate Alteration (phyllic) - This zone is the host for the bulk of the gold mineralization within the Yarnell Deposit, and is characterized by the absence of biotite and the replacement of feldspar by sericite. As one approaches the Yarnell Fault or the Yarnell Fault zone, the amount of sericite increases and becomes pervasive within the ground mass of the rock. Iron oxides are abundant within this zone and occur as: 1. specularite (as vein fillings and disseminated throughout the rock); 2. limonite pseudomorphs; 3. limonite/goethite veinlets and coatings. Patches of red hematite are also seen within this zone and generally correspond to the higher assays (+.05 opt Au). Silicification occurs mostly as silica flooding, i.e., (interstitial silica) which becomes more pervasive as the intensity of alteration increases. Silica flooding also seems to increase with the amount of quartz veining. A quartz vein stockwork is developed in the hanging wall above the Yarnell Fault; and this stockwork has been seen in several of the diamond drill holes and in field observations.

Moderate alteration also occurs below the Yarnell Fault; however, it differs from the above described zone. The rock appears to be the unoxidized equivalent of the moderate zone. The zone is more chloritic, calcite veining and "gash" veining is common. Specularite? is very common and locally very

abundant. Fresh pyrite is slight -> locally abundant. The potassium feldspar phenocrysts are pink and appear unaltered or possibly are more potassic. Silification appears to be very strong mostly as flooding. Quartz veining is very rare.

We have also identified what appear to be "structurally controlled" alteration zones within the fresh granite massif on the SE side of the mapping area. These zones appear to occur within confined linear "shear zones" and are of the same approximate attitude as the Yarnell Fault Structure. These zones are 4-6'+ thick between unaltered granite and may represent "leakage" from a larger mineralized system below.

Strongly Altered (argillic) - Argillic alteration is predominate in this zone and is characterized by a textural destruction of the rock and the conversion of the components of the rock to clay minerals. There is some silicification found in this zone, but for the most part, the texture can best be described as destructive and there appears to be a shear texture associated with the Yarnell Fault. As seen in the field and in the four diamond drill holes, the argillic zone usually occurs ±20' above and below the Yarnell Fault Zone. This zone is also the host for the highest grade gold mineralization, usually in the .1 ounce per ton range or better.

Silicification

Silica occurs in two basic forms, quartz veining and flooding. There appears to be 3-4 stages of quartz veining in the drill core. The stages are shown from oldest to youngest.

1. Early grey quartz ± associated specularite in vugs parallel to subparallel to structure.

2. Dark grey quartz - some brecciation in vein. Dark color probably due to specularite.

3. Lighter grey quartz with disseminated limonite pseudomorphs (usually on margin of vein).

4. White quartz vein - possibly 2 stages of white quartz veining. (This stage cross-cuts all other stages.)

Silica also occurs as a "pervasive" flooding of the ground mass. The intensity of the flooding may be related to the degree of quartz vein ± stockwork development. Silica flooding appears to postdate

alteration as it overprints the moderate to strong alteration zones.

The latest stage silica is the white quartz veins. We have assayed these white quartz veins and they are consistently gold bearing (.03 opt Au to .8 opt Au). We have also seen visible gold in diamond drill hole YDDH-4 in similar looking veins.

Structure

The principal structure identified in the mapping is the Yarnell Fault Zone. This is a 4' to 6'+ zone of strong gouge, mylonite and breccia which has been argillically altered. The Yarnell Fault is a low angle structure with an attitude of N40-60°E and dipping 30-45°NW. Movement on the fault is unknown but is thought to be a thrust. This fault appears to be a regional feature and has been traced by a surface exposure ±2 miles to the SW from the Yarnell Deposit before it eventually disappears underneath alluvial cover. The northeast extension of the fault is unclear as the northern valleys are alluvium filled. Alteration associated with the fault zone appears to be continuous along its length, but considerably thinner (±20)' to the southwest. Several assays taken along the southwest extension of the fault are ore grade (.03 to .06 ounce per ton gold), indicating that gold mineralization occurs away from the main Yarnell Deposit. However, the thickness of the alteration/mineralization package is much less. Association with the Yarnell Fault are numerous parallel to subparallel fracture/faults in the hanging wall of the structure which are often mineralized. The fracture/fault systems probably acted as the conduits for gold mineralizing fluids to move away from the Yarnell Fault Zone and create the disseminated deposits we are exploring today. Several joints set have been mapped. The predominant joint directions appear to be N10E± by N70W. These joint sets occasionally will show limonite and iron oxide mineralization on the joint surfaces. Another structural direction N40W (30°NE) appears to be unmineralized and occurs on the north end of the deposit.

Gold Mineralization & Occurrence

On the basis of core logging, field observations, assays, and limited mineralogic work, gold mineralization appears to have several modes of occurrence. According to Russ Honea, a contract mineralogist, gold occurs in the free state and is also associated with iron oxides and possibly manganese as psilomelane. Size ranges of the gold are in the order of 13 microns which is .013 millimeters to 200 microns or greater which is +.2 millimeters in size. The

larger size 200 microns might be considered coarse gold, suggesting the possibility for a nugget effect in the assays and a slower leaching rate. Gold also appears to be associated with quartz veining, as the assays are higher within a gray quartz stage and within quartz stockwork zones. Gold also appears to be associated with the relict sulfides, i.e., limonite pseudomorphs and red hematite/pyrite patches. Finally gold is found within the Yarnell Fault zone with abundant red hematite. This zone was followed by the old time miners and ranges anywhere from .1 to .5 ounce per ton. Very little visible gold has been found within this zone.

Summary and Conclusions

Based upon the geologic mapping and logging of the recent diamond drilling we can now see that the Yarnell Deposit is a structurally controlled (and prepared) hydrothermal altered zone (propylitic to argillic) occurring within a low angle fault zone. Gold mineralization is associated with quartz veining, silica flooding and iron oxides, plus or minus sulfide. The existence of a stockwork quartz vein system has been very evident in the diamond drill hole and is probably related to B-zone mineralization.

HYDROTHERMAL ZONATION
Yarnell Deposit

AVERAGE THICKNESS OF ZONE	
±20'->200'	Weakly Altered (Propylitic) Biotite present, weak sericite, partial FeOxide replacement of biotite.
±50' thick	Transition Zone Some biotite changing to chlorite? Increasing sericite ± Fe Oxide Rims - local increase in silica.
50-150' thick	Moderate Altered Zone (Phyllic?) Biotite absent - moderate to strong sericite (increases closer to YFZ). Specularite occupying biotite sites, specularite veins/veinlets. Increase in MnOx (as dendrites, possibly also as mix with Fe Oxides). Potassic Alteration as K-Feldspar rims around quartz veins: as quartz veins increase K-Alteration becomes more pervasive. Silica flooding common also increasing with increasing quartz veining. Rock texture is preserved within this zone. This zone also occurs to a lessor degree (thickness) below the Yarnell Fault Zone.
±20' thick	Strongly Altered Zone (Argillic) Textural destruction - rock predominantly quartz (± veining) and clays - Kaolinite Illite? adjacent to YFZ (Yarnell Fault Zone) both above and below. Rock is strongly sheared and cataclastized.
±2-8' thick	Yarnell Fault Zone Gouge, breccia mylonite - all argillically altered - strong red hematite - component.
30 -> 100'	Moderate - Footwal rocks - chlorite, calcite veining, specularite (mod Alter.), pyrite (slt -> mod) pink unaltered? K-spars, no biotite. This zone is different from the weakly altered zone.

Geologic Map
Yarnell Project

January 3, 1990

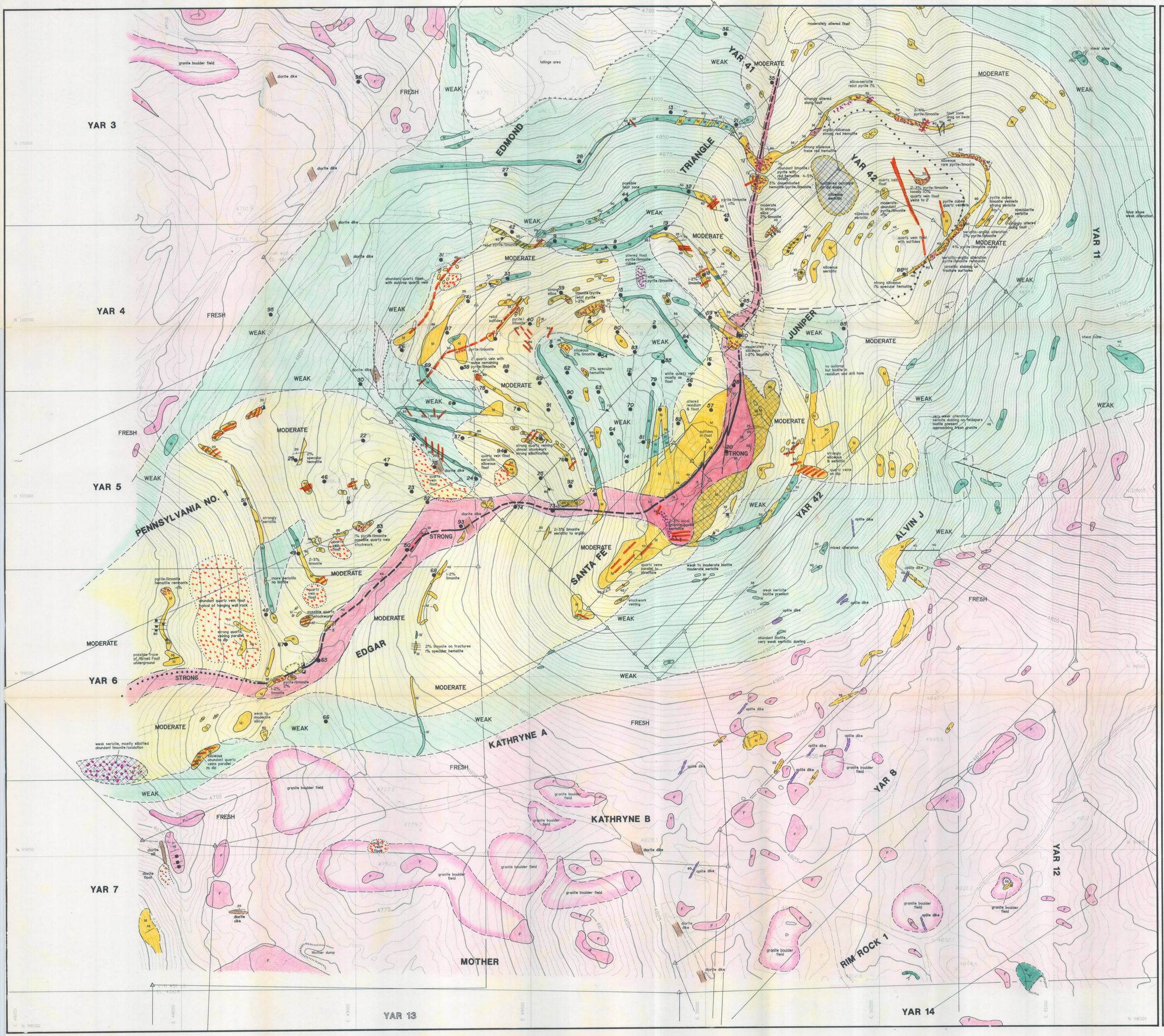
Decreasing Alteration	This zone may represent the unoxidixed equivalent of the moderately altered zone.

Note: Most of these detailed observations of the zones are based upon the observations made from logging the diamond drill holes where the zones are better defined than in the field. One must realize, however, that there are variations within the zones themselves.

Mark A. Miller

MAM:mek
Att.

cc: R.L. Brown
W.L. Kurtz
S.L. Lakosky



DIORITE DIKE

APLITE DIKE

F FRESH

W WEAKLY ALTERED
biotite fresh to weakly altered
slight specularite psudomorphs after biotite
weak sericite replacement of feldspar
±silica veinlets

M MODERATELY ALTERED
biotite absent
±specularite psudomorphs after biotite
moderate/strong sericite replacement of feldspar
±silica veinlets

S STRONGLY ALTERED
argillic, kaolinite, clay alteration
specularite altered to hematite

AS ABOVE
overprint of interstitial to pervasive
silica with minor quartz veining

LIMONITE PSUDOMORPHS
limonite psudomorphs of pyrite and red/orange
hematite of oxidized specularite/pyrite

MAJOR QUARTZ VEINS, with strike and dip

YARNELL FAULT, as mapped with strike and dip

YARNELL FAULT, as projected

YARNELL FAULT, as inferred

MAJOR STRUCTURES, with strike and dip

JOINTING, with strike and dip

SURVEYED CLAIM CORNERS

N

0 100' 200'

ASARCO Incorporated
YARNELL PROJECT

GEOLOGY MAP

YAVAPAI CO., ARIZONA

mn6780 MAM/dam tuc 11-08-89

From: W. D. Gay 1-23-90

To: J. D. Sell

Jerry Haggard said no to the assessment question.

Bill

FTG thoughts: — Yarnell Project

MS Thesis

Geology

Variation of granites

Alteration

Thermal aureole

Isotope aureole

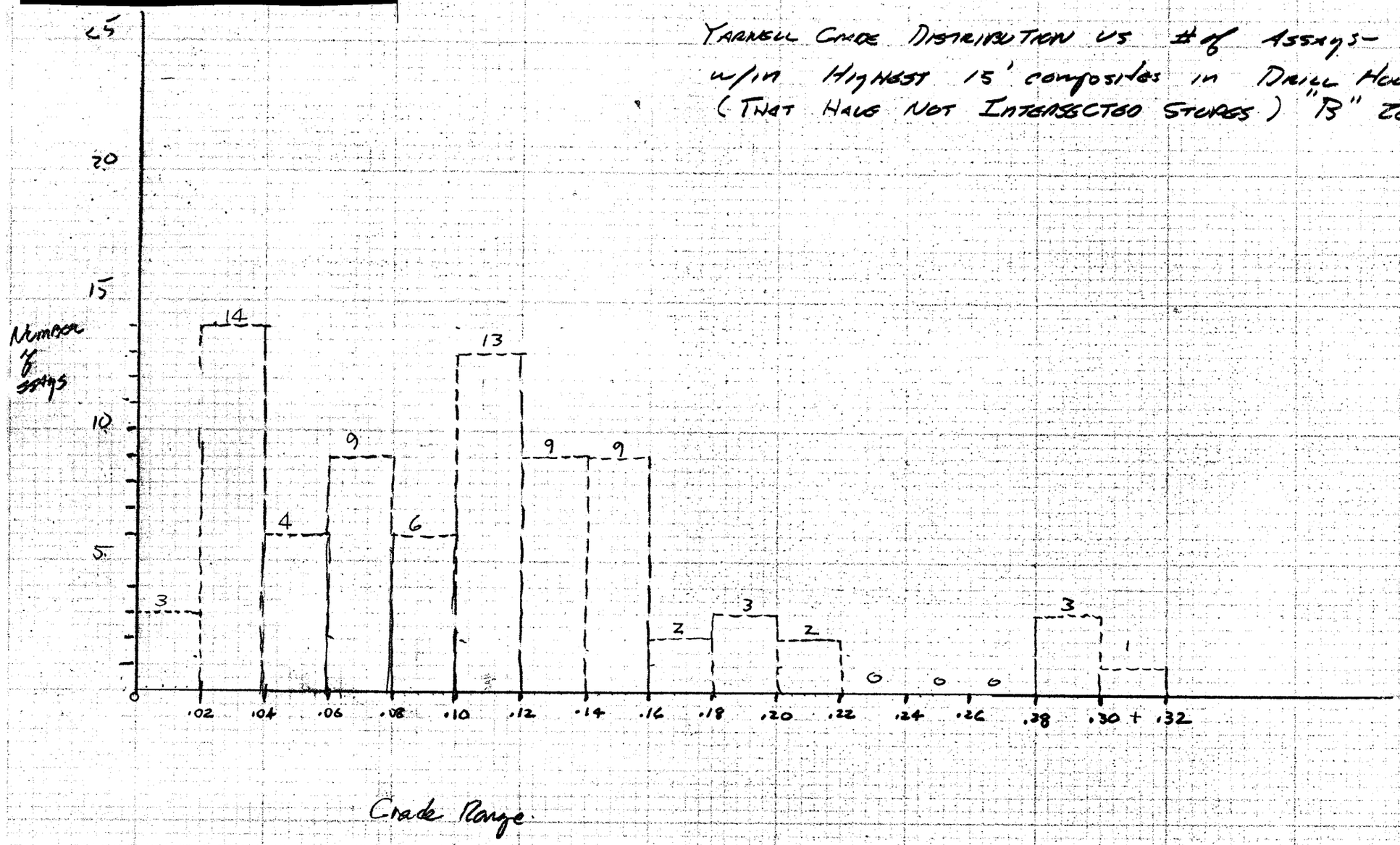
Fluid inclusions / temp / salinity / type

Fluid flow parameters.

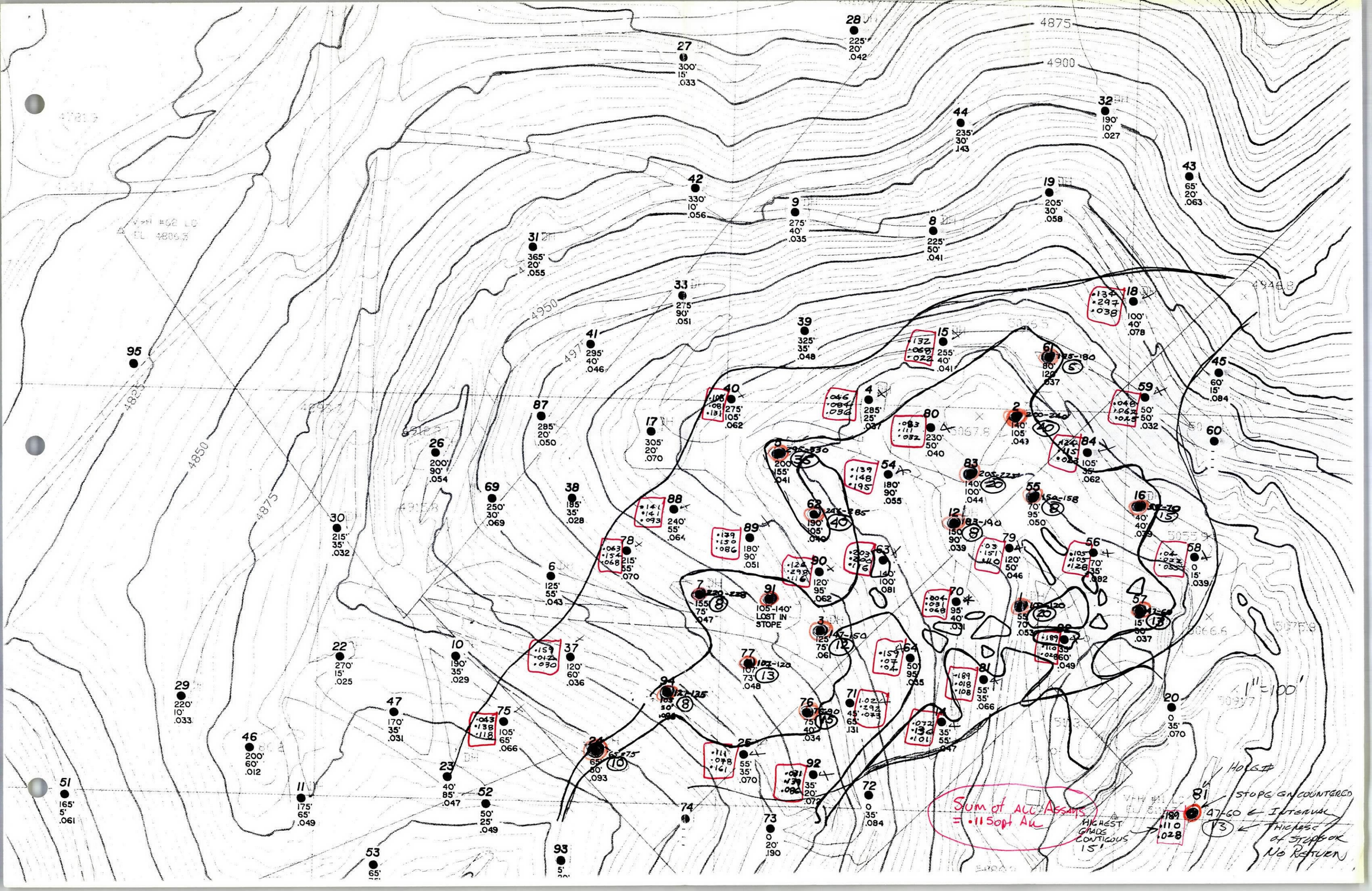
[redacted]

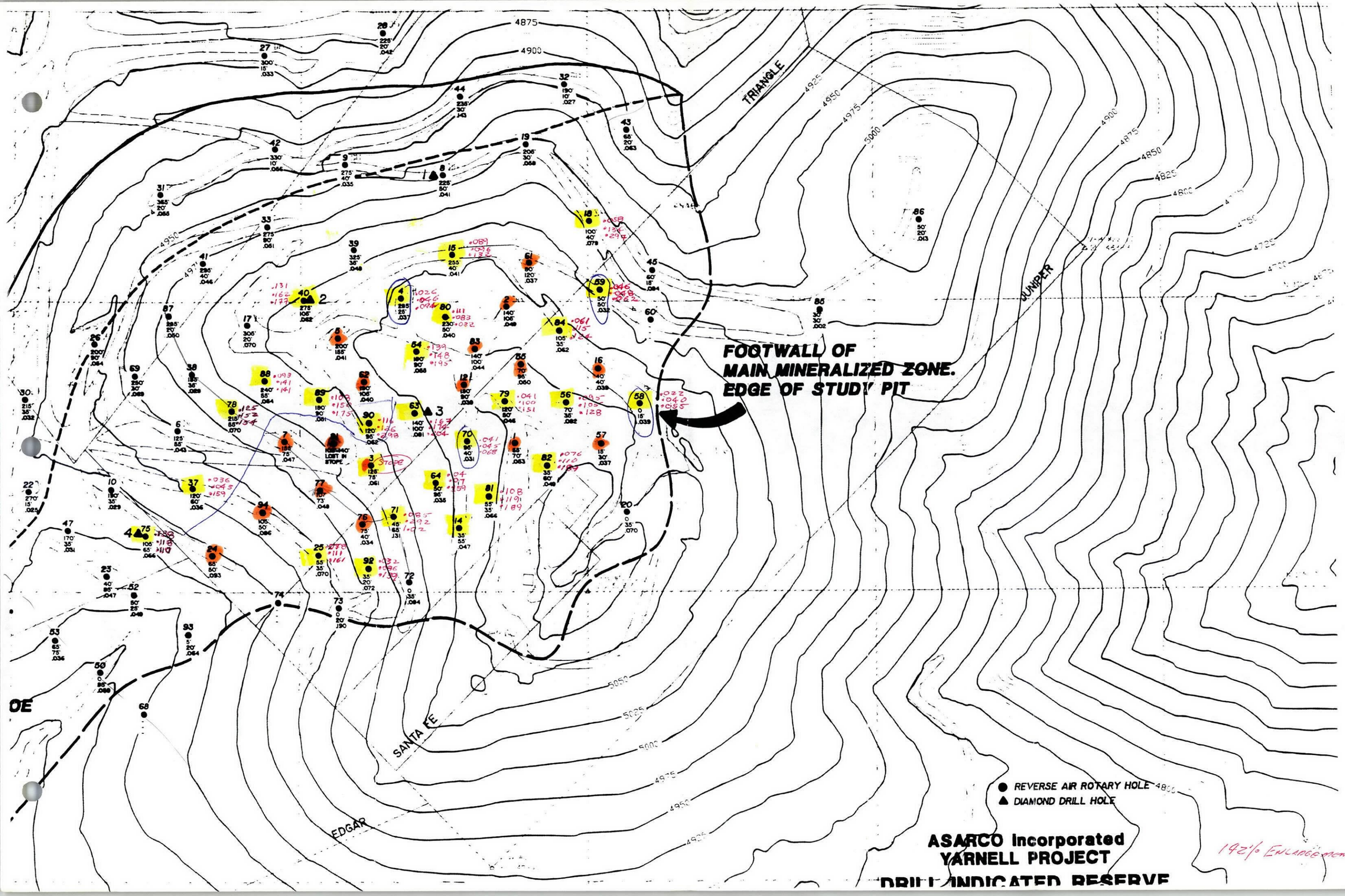
Distribution of highest % assay in 15', which did not intersect stope

YARNELL GRADE DISTRIBUTION VS # of ASSAYS
W/IN HIGHEST 15' composites IN DRILL HOLES.
(THAT HAVE NOT INTERSECTED STOPES) "B" ZONE ONLY.

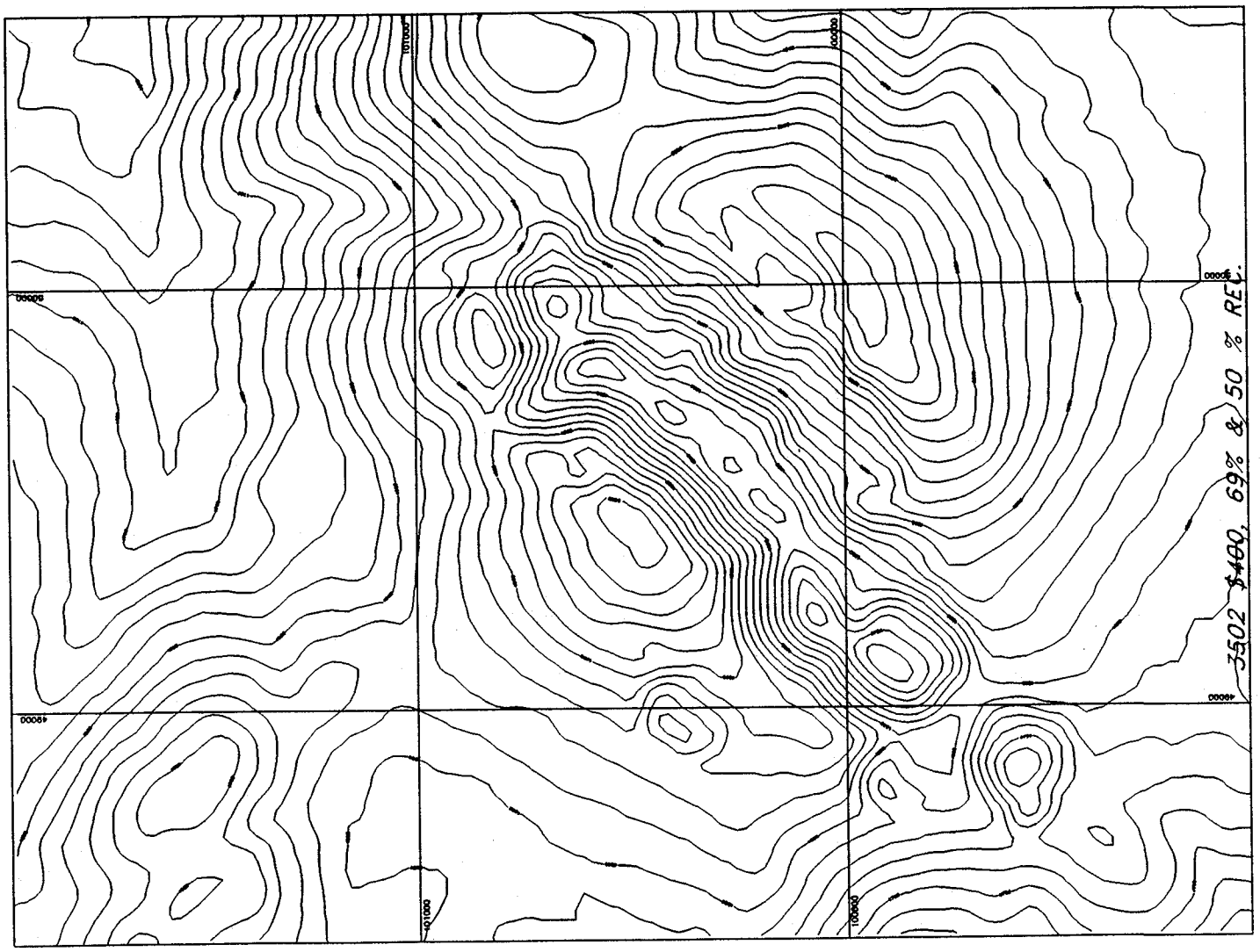


1-24-90


4875
4900
4950
4850
1" = 100'
105'-140' LOST IN STOPE
Sum of ALL Assays = .115 opt Au
HIGHEST GRADE CONTIGUOUS 15'
HOLE #
STOPE ENCOUNTERED
← INTERVAL
← THICKNESS OF STOPE OR NO RETURN


FOOTWALL OF
MAIN MINERALIZED ZONE.
EDGE OF STUDY PIT
TRIANGLE
JUNIPER
SANTA FE
EDGAR
STOPE
LOST IN STOPE
REVERSE AIR ROTARY HOLE
DIAMOND DRILL HOLE
ASARCO Incorporated
YARNELL PROJECT
DRILL INDICATED RESERVE
192% ENLARGEMENT

1-24-90 JDS



YARNELL PROJECT
28-NOV-89 16:14:43 MST
ALL TONNAGES ARE *1000
20 FOOT BLOCK-MINERALIZATION MODEL

UPPER TOPO ID /1001/ INITIAL YARNELL BLOCK TOPOGRAPHY
LOWER TOPO ID /3502/ $400, 50 DEG. SLOPE, 3/8 INCH, 6 INCH, GT WASTE VALUE, 69% REC & 50% REC

COORDINATE LIMITS OF SUMMARY

	MAX	MIN
NORTH	102000	99020
EAST	50700	48400

CUTOFF GRADES:		0.009 TO 0.015 OZ AU			0.015 TO 0.021 OZ AU			GT 0.021 OZ AU			GT 0.009 OZ AU			
BENCH	WASTE	M TONS	OZ AU	OZ AG	M TONS	OZ AU	OZ AG	M TONS	OZ AU	OZ AG	M TONS	OZ AU	OZ AG	STRIP
5100	8	1	0.011	0.000	1	0.020	0.000	2	0.113	0.000	5	0.059	0.000	1.73
5080	36	12	0.011	0.000	10	0.019	0.000	34	0.072	0.000	57	0.049	0.000	0.65
5060	80	35	0.012	0.000	25	0.018	0.000	65	0.075	0.000	125	0.046	0.000	0.64
5040	157	49	0.012	0.000	38	0.018	0.000	84	0.067	0.000	172	0.040	0.000	0.91
5020	216	54	0.012	0.000	52	0.018	0.000	96	0.049	0.000	203	0.031	0.000	1.06
5000	242	77	0.011	0.000	77	0.017	0.000	99	0.045	0.000	255	0.026	0.000	0.95
4980	248	105	0.011	0.000	74	0.017	0.000	122	0.044	0.000	302	0.025	0.000	0.82
4960	259	121	0.011	0.000	85	0.017	0.000	131	0.046	0.000	338	0.026	0.000	0.77
4940	276	125	0.011	0.000	61	0.017	0.000	157	0.050	0.000	344	0.030	0.000	0.80
4920	313	104	0.011	0.000	36	0.018	0.000	161	0.059	0.000	303	0.037	0.000	1.03
4900	324	83	0.011	0.000	32	0.017	0.000	163	0.051	0.000	278	0.035	0.000	1.16
4880	310	59	0.011	0.000	36	0.017	0.000	175	0.045	0.000	271	0.034	0.000	1.14
4860	316	44	0.012	0.000	36	0.016	0.000	179	0.052	0.000	260	0.040	0.000	1.22
4840	321	29	0.012	0.000	33	0.017	0.000	172	0.055	0.000	236	0.044	0.000	1.36
4820	273	36	0.012	0.000	29	0.018	0.000	174	0.057	0.000	240	0.046	0.000	1.14
4800	225	28	0.012	0.000	29	0.018	0.000	171	0.056	0.000	229	0.046	0.000	0.98
4780	190	27	0.011	0.000	16	0.018	0.000	139	0.057	0.000	183	0.047	0.000	1.04
4760	152	21	0.011	0.000	14	0.017	0.000	110	0.054	0.000	146	0.044	0.000	1.05
4740	89	8	0.010	0.000	14	0.019	0.000	107	0.061	0.000	130	0.053	0.000	0.68
4720	52	0	0.011	0.000	18	0.019	0.000	78	0.068	0.000	97	0.058	0.000	0.54
4700	34	1	0.013	0.000	23	0.018	0.000	32	0.071	0.000	57	0.048	0.000	0.60
4680	27	0	0.009	0.000	5	0.017	0.000	8	0.112	0.000	14	0.074	0.000	1.89
4660	7	1	0.009	0.000	2	0.017	0.000	1	0.154	0.000	4	0.052	0.000	1.54
4640	0	0	0.000	0.000	0	0.017	0.000	0	0.000	0.000	0	0.017	0.000	0.00
TOTAL	4166	1032	0.011	0.000	758	0.017	0.000	2470	0.055	0.000	4260	0.037	0.000	0.98

```
$ SET VERIFY
$ ASSIGN TT PVI_IPORT_1
$ SHO LOGICAL TT
$ RUN ACM
ECONOMIC
18
L1
0
0
0
3
400     /AU PRICE
1.30    / ORE MINING COST
1.25    / WASTE MINING COST
0       / 3/8 INCH CUTOFF GRADE
0.69      / RECOVERY FOR 3/8
4.45      / PROCESS COST 3/8
0.50     / PLANT ADMIN COST 3/8
1.05     / PLANT INDIRECTS COST
0      / CUTOFF FOR 6 INCH
0.50     / RECOVERY FOR 6 INCH
1.68      / PROCESS COST FOR 6 INCH
100     / MULTIPLIER
EXIT
$ RUN ACM
CONE MIN
1
3502
  $400, 50 DEG. SLOPE, 3/8 INCH, 6 INCH, GT WASTE VALUE, 69% REC & 50% REC
L1
0       /CUTOFF GRADE
1.25      / COST PER TON BETWEEN TOPO & FIRST BENCH
-10000
0
50      / PIT SLOPE
EXIT
$ RUN amps$user:graphics_driver.exe
RESERV
1001       / UPPER TOPO /
3502       / LOWER TOPO /
.009 .018 .031        /CUTOFFS  /
ex
$ SET NOVER
```

YARNELL PROJECT
23-JAN-90 11:47:37 MST
ALL TONNAGES ARE *1000
20 FOOT BLOCK-MINERALIZATION MODEL

UPPER TOPO ID /7001/ COPY OF INITIAL TOPOGRAPHY
LOWER TOPO ID /7004/ INVENTORY PIT > 0.02 USING J.D. SELL MASK PIT OUTLINE
/Au96/ Yarnell Gold Model using Holes 1-96, Open Cut, and hypothetical stope values

COORDINATE LIMITS OF SUMMARY

	MAX	MIN
NORTH	102000	99020
EAST	50700	48400

CUTOFF GRADES:		0.010 TO 0.015 OZ AU			0.015 TO 0.020 OZ AU			GT 0.020 OZ AU			GT 0.010 OZ AU			
BENCH	WASTE	M TONS	OZ AU	OZ AG	M TONS	OZ AU	OZ AG	M TONS	OZ AU	OZ AG	M TONS	OZ AU	OZ AG	STRIP
5100	7	1	0.011	0.000	0	0.000	0.000	3	0.084	0.000	5	0.059	0.000	1.44
5080	35	11	0.011	0.000	2	0.017	0.000	41	0.064	0.000	55	0.050	0.000	0.63
5060	84	33	0.012	0.000	17	0.017	0.000	67	0.073	0.000	119	0.047	0.000	0.71
5040	164	47	0.012	0.000	33	0.018	0.000	86	0.065	0.000	167	0.041	0.000	0.98
5020	227	58	0.012	0.000	44	0.017	0.000	115	0.047	0.000	218	0.032	0.000	1.04
5000	288	75	0.012	0.000	71	0.016	0.000	128	0.043	0.000	274	0.028	0.000	1.05
4980	367	89	0.012	0.000	78	0.016	0.000	139	0.041	0.000	307	0.026	0.000	1.19
4960	466	85	0.012	0.000	91	0.016	0.000	142	0.040	0.000	319	0.026	0.000	1.46
4940	555	87	0.012	0.000	78	0.016	0.000	170	0.043	0.000	336	0.029	0.000	1.65
4920	668	92	0.012	0.000	54	0.017	0.000	182	0.051	0.000	329	0.034	0.000	2.03
4900	776	86	0.012	0.000	52	0.017	0.000	188	0.047	0.000	327	0.033	0.000	2.37
4880	856	80	0.012	0.000	54	0.016	0.000	206	0.048	0.000	341	0.034	0.000	2.51
4860	979	71	0.012	0.000	49	0.016	0.000	208	0.056	0.000	329	0.040	0.000	2.97
4840	993	61	0.012	0.000	45	0.016	0.000	205	0.056	0.000	313	0.042	0.000	3.17
4820	919	71	0.012	0.000	44	0.016	0.000	228	0.053	0.000	344	0.040	0.000	2.67
4800	819	71	0.012	0.000	45	0.017	0.000	260	0.050	0.000	377	0.039	0.000	2.17
4780	784	52	0.012	0.000	46	0.018	0.000	238	0.048	0.000	338	0.038	0.000	2.32
4760	749	50	0.012	0.000	54	0.017	0.000	219	0.044	0.000	323	0.035	0.000	2.32
4740	669	43	0.012	0.000	55	0.017	0.000	246	0.042	0.000	346	0.035	0.000	1.93
4720	551	57	0.012	0.000	38	0.017	0.000	250	0.043	0.000	346	0.035	0.000	1.59
4700	415	57	0.012	0.000	27	0.018	0.000	246	0.042	0.000	330	0.035	0.000	1.26
4680	268	50	0.012	0.000	25	0.018	0.000	230	0.039	0.000	306	0.033	0.000	0.88
4660	171	22	0.011	0.000	15	0.018	0.000	209	0.041	0.000	247	0.037	0.000	0.69
4640	82	8	0.012	0.000	5	0.018	0.000	172	0.040	0.000	185	0.038	0.000	0.44
4620	31	2	0.014	0.000	2	0.017	0.000	96	0.041	0.000	100	0.040	0.000	0.31
4600	4	0	0.014	0.000	0	0.000	0.000	30	0.030	0.000	30	0.030	0.000	0.14
4580	0	0	0.000	0.000	0	0.000	0.000	3	0.023	0.000	3	0.023	0.000	0.00
TOTAL	11939	1371	0.012	0.000	1035	0.017	0.000	4320	0.047	0.000	6728	0.035	0.000	1.77

1-24-90

JDS

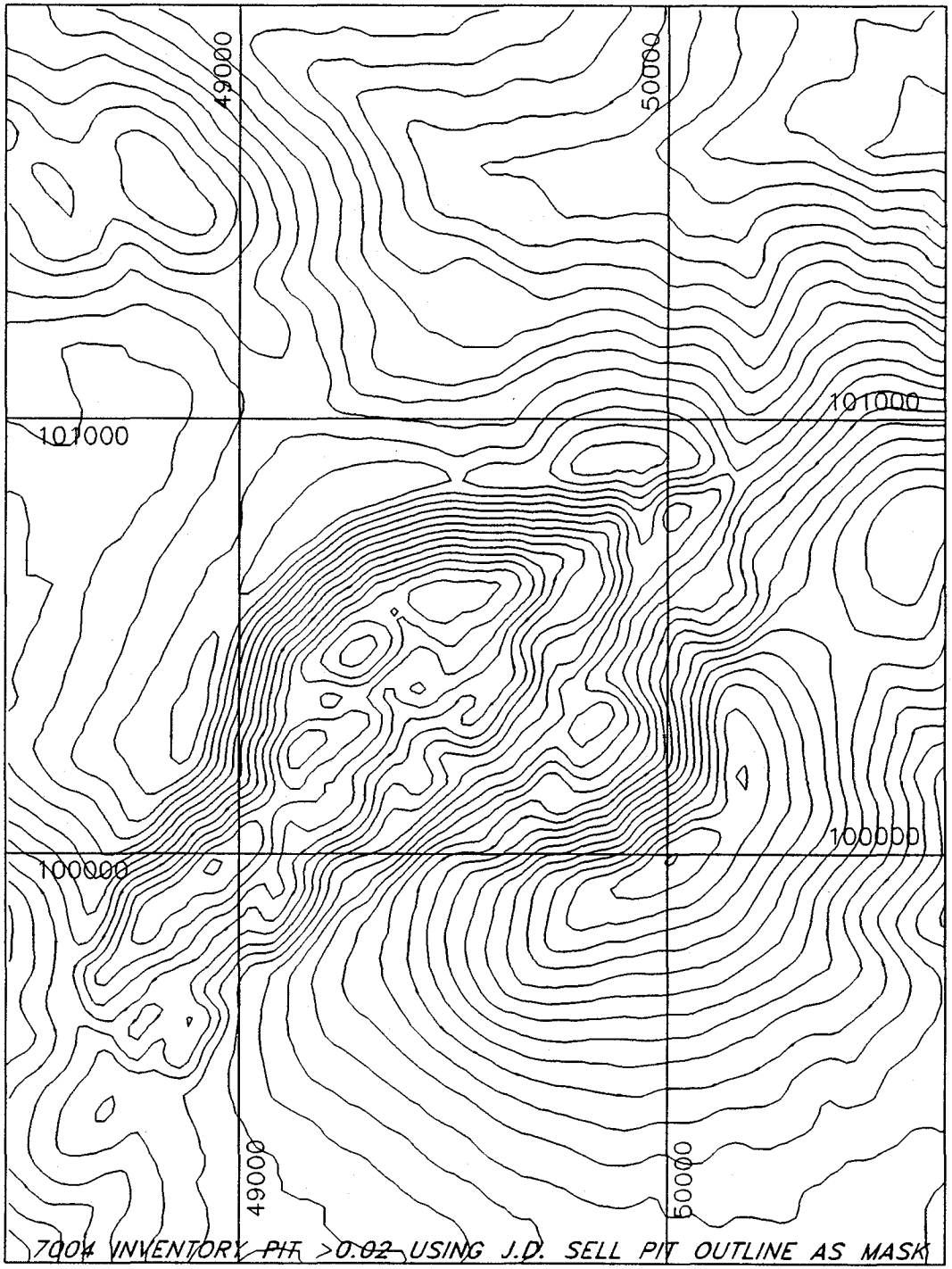
YARNELL PROJECT
23-JAN-90 11:43:21 MST
ALL TONNAGES ARE *1000
20 FOOT BLOCK-MINERALIZATION MODEL

UPPER TOPO ID /7001/ COPY OF INITIAL TOPOGRAPHY
LOWER TOPO ID /7004/ INVENTORY PIT > 0.02 USING J.D. SELL MASK PIT OUTLINE
/Au / GOLD MODEL WITH ZERO STOPE VALUES

COORDINATE LIMITS OF SUMMARY

	MAX	MIN
NORTH	102000	99020
EAST	50700	48400

CUTOFF GRADES:		0.010 TO 0.015 OZ AU			0.015 TO 0.020 OZ AU			GT 0.020 OZ AU			GT 0.010 OZ AU			
BENCH	WASTE	M TONS	OZ AU	OZ AG	M TONS	OZ AU	OZ AG	M TONS	OZ AU	OZ AG	M TONS	OZ AU	OZ AG	STRIP
5100	7	0	0.013	0.000	0	0.019	0.000	4	0.030	0.000	5	0.028	0.000	1.35
5080	45	11	0.011	0.000	5	0.018	0.000	28	0.046	0.000	45	0.034	0.000	1.00
5060	96	34	0.012	0.000	17	0.017	0.000	55	0.058	0.000	106	0.037	0.000	0.90
5040	176	52	0.012	0.000	33	0.018	0.000	69	0.051	0.000	155	0.031	0.000	1.14
5020	249	62	0.012	0.000	48	0.018	0.000	86	0.044	0.000	196	0.028	0.000	1.27
5000	320	79	0.012	0.000	66	0.016	0.000	97	0.045	0.000	242	0.026	0.000	1.32
4980	388	96	0.012	0.000	68	0.016	0.000	121	0.038	0.000	286	0.024	0.000	1.35
4960	467	106	0.012	0.000	80	0.016	0.000	132	0.038	0.000	318	0.024	0.000	1.47
4940	552	110	0.012	0.000	79	0.017	0.000	149	0.035	0.000	339	0.023	0.000	1.63
4920	654	111	0.012	0.000	76	0.017	0.000	154	0.044	0.000	343	0.027	0.000	1.91
4900	785	86	0.012	0.000	65	0.017	0.000	167	0.049	0.000	318	0.033	0.000	2.47
4880	894	91	0.012	0.000	53	0.016	0.000	158	0.053	0.000	303	0.034	0.000	2.94
4860	1003	88	0.012	0.000	54	0.016	0.000	163	0.055	0.000	306	0.035	0.000	3.28
4840	1014	82	0.012	0.000	56	0.016	0.000	153	0.056	0.000	292	0.036	0.000	3.47
4820	964	72	0.012	0.000	53	0.016	0.000	173	0.058	0.000	299	0.039	0.000	3.22
4800	876	78	0.012	0.000	50	0.017	0.000	192	0.055	0.000	321	0.039	0.000	2.73
4780	825	61	0.012	0.000	36	0.018	0.000	199	0.049	0.000	296	0.037	0.000	2.78
4760	770	58	0.012	0.000	42	0.018	0.000	202	0.041	0.000	303	0.032	0.000	2.54
4740	711	47	0.012	0.000	50	0.017	0.000	206	0.043	0.000	304	0.034	0.000	2.34
4720	593	50	0.012	0.000	41	0.017	0.000	211	0.045	0.000	303	0.036	0.000	1.96
4700	473	49	0.012	0.000	35	0.017	0.000	186	0.040	0.000	271	0.032	0.000	1.74
4680	328	40	0.012	0.000	21	0.017	0.000	183	0.038	0.000	246	0.032	0.000	1.33
4660	178	22	0.012	0.000	19	0.017	0.000	198	0.042	0.000	240	0.037	0.000	0.74
4640	91	5	0.011	0.000	16	0.017	0.000	154	0.042	0.000	176	0.039	0.000	0.52
4620	44	1	0.014	0.000	7	0.017	0.000	78	0.042	0.000	86	0.039	0.000	0.51
4600	14	0	0.014	0.000	1	0.017	0.000	19	0.028	0.000	20	0.027	0.000	0.70
4580	0	1	0.010	0.000	0	0.017	0.000	1	0.023	0.000	3	0.017	0.000	0.00
TOTAL	12531	1503	0.012	0.000	1083	0.017	0.000	3549	0.046	0.000	6136	0.032	0.000	2.04



7004 INVENTORY PIT >0.02 USING J.D. SELL PIT OUTLINE AS MASK

KURTZ PACIFICATION

70% rec. $400 g/oz

mine this out 5 years

+ plant costs

+ op. costs.

2X

YARNELL PROJECT
22-NOV-89 14:34:09 MST
ALL TONNAGES ARE *1000
20 FOOT BLOCK-MINERALIZATION MODEL

UPPER TOPO ID /7001/ COPY OF INITIAL TOPOGRAPHY
LOWER TOPO ID /7004/ INVENTORY PIT > 0.02 USING J.D. SELL MASK PIT OUTLINE

COORDINATE LIMITS OF SUMMARY

	MAX	MIN
NORTH	102000	99020
EAST	50700	48400

CUTOFF GRADES:		0.010 TO 0.015 OZ AU			0.015 TO 0.020 OZ AU			GT 0.020 OZ AU			GT 0.010 OZ AU			
BENCH	WASTE	M TONS	OZ AU	OZ AG	M TONS	OZ AU	OZ AG	M TONS	OZ AU	OZ AG	M TONS	OZ AU	OZ AG	STRIP
5100	7	1	0.011	0.000	0	0.000	0.000	3	0.084	0.000	5	0.059	0.000	1.44
5080	33	11	0.011	0.000	2	0.017	0.000	39	0.064	0.000	53	0.050	0.000	0.63
5060	81	32	0.012	0.000	17	0.017	0.000	64	0.073	0.000	114	0.047	0.000	0.71
5040	157	45	0.012	0.000	32	0.018	0.000	83	0.065	0.000	160	0.040	0.000	0.98
5020	218	55	0.012	0.000	42	0.017	0.000	111	0.047	0.000	209	0.032	0.000	1.04
5000	277	72	0.012	0.000	68	0.016	0.000	123	0.043	0.000	264	0.028	0.000	1.05
4980	352	86	0.012	0.000	75	0.016	0.000	133	0.041	0.000	295	0.026	0.000	1.19
4960	448	81	0.012	0.000	87	0.016	0.000	137	0.040	0.000	307	0.026	0.000	1.46
4940	533	84	0.012	0.000	75	0.016	0.000	163	0.043	0.000	323	0.029	0.000	1.65
4920	642	88	0.012	0.000	52	0.017	0.000	175	0.051	0.000	316	0.034	0.000	2.03
4900	745	83	0.012	0.000	50	0.017	0.000	181	0.047	0.000	314	0.033	0.000	2.37
4880	823	77	0.012	0.000	51	0.016	0.000	198	0.048	0.000	328	0.034	0.000	2.51
4860	941	68	0.012	0.000	47	0.016	0.000	200	0.055	0.000	316	0.040	0.000	2.97
4840	954	59	0.012	0.000	44	0.016	0.000	197	0.056	0.000	301	0.041	0.000	3.17
4820	883	68	0.012	0.000	43	0.016	0.000	219	0.053	0.000	331	0.040	0.000	2.67
4800	787	68	0.012	0.000	43	0.017	0.000	250	0.050	0.000	363	0.039	0.000	2.17
4780	753	50	0.012	0.000	45	0.017	0.000	229	0.047	0.000	325	0.038	0.000	2.32
4760	720	48	0.012	0.000	52	0.017	0.000	210	0.044	0.000	311	0.034	0.000	2.32
4740	643	42	0.012	0.000	53	0.017	0.000	237	0.042	0.000	333	0.034	0.000	1.93
4720	529	54	0.012	0.000	36	0.017	0.000	241	0.043	0.000	332	0.035	0.000	1.59
4700	399	54	0.012	0.000	26	0.017	0.000	236	0.042	0.000	317	0.035	0.000	1.26
4680	258	48	0.012	0.000	24	0.018	0.000	221	0.039	0.000	294	0.033	0.000	0.88
4660	165	21	0.011	0.000	14	0.018	0.000	201	0.041	0.000	237	0.037	0.000	0.69
4640	78	7	0.012	0.000	5	0.017	0.000	165	0.040	0.000	178	0.038	0.000	0.44
4620	29	1	0.014	0.000	2	0.017	0.000	92	0.041	0.000	96	0.040	0.000	0.31
4600	4	0	0.014	0.000	0	0.000	0.000	29	0.030	0.000	29	0.030	0.000	0.14
4580	0	0	0.000	0.000	0	0.000	0.000	3	0.023	0.000	3	0.023	0.000	0.00
TOTAL	11473	1318	0.012	0.000	995	0.017	0.000	4151	0.047	0.000	6465	0.035	0.000	1.77

6.4

18.0

226275

158,000 oz rec

YARNELL PROJECT
27-NOV-89 16:24:30 MST
ALL TONNAGES ARE *1000
20 FOOT BLOCK-MINERALIZATION MODEL

UPPER TOPO ID /7001/ COPY OF INITIAL TOPOGRAPHY
LOWER TOPO ID /7004/ INVENTORY PIT > 0.02 USING J.D. SELL MASK PIT OUTLINE

COORDINATE LIMITS OF SUMMARY

	MAX	MIN
NORTH	102000	99020
EAST	50700	48400

CUTOFF GRADES:		0.020 TO 0.030 OZ AU			0.030 TO 0.050 OZ AU			GT 0.050 OZ AU			GT 0.020 OZ AU			
BENCH	WASTE	M TONS	OZ AU	OZ AG	M TONS	OZ AU	OZ AG	M TONS	OZ AU	OZ AG	M TONS	OZ AU	OZ AG	STRIP
5100	8	1	0.020	0.000	0	0.000	0.000	1	0.133	0.000	3	0.084	0.000	2.67
5080	47	19	0.022	0.000	3	0.042	0.000	16	0.117	0.000	39	0.064	0.000	1.21
5060	130	35	0.024	0.000	5	0.040	0.000	24	0.153	0.000	64	0.073	0.000	2.02
5040	235	41	0.024	0.000	19	0.036	0.000	21	0.169	0.000	83	0.065	0.000	2.84
5020	317	44	0.023	0.000	44	0.038	0.000	22	0.116	0.000	111	0.047	0.000	2.85
5000	418	46	0.023	0.000	46	0.039	0.000	30	0.082	0.000	123	0.043	0.000	3.38
4980	514	60	0.023	0.000	40	0.039	0.000	33	0.076	0.000	133	0.041	0.000	3.84
4960	618	71	0.023	0.000	39	0.040	0.000	26	0.082	0.000	137	0.040	0.000	4.51
4940	693	81	0.023	0.000	53	0.040	0.000	27	0.107	0.000	163	0.043	0.000	4.24
4920	783	82	0.025	0.000	53	0.039	0.000	39	0.120	0.000	175	0.051	0.000	4.47
4900	879	88	0.026	0.000	49	0.038	0.000	43	0.101	0.000	181	0.047	0.000	4.85
4880	952	85	0.026	0.000	64	0.040	0.000	49	0.096	0.000	198	0.048	0.000	4.79
4860	1058	49	0.026	0.000	81	0.040	0.000	69	0.095	0.000	200	0.055	0.000	5.29
4840	1058	41	0.026	0.000	77	0.039	0.000	78	0.090	0.000	197	0.056	0.000	5.35
4820	995	52	0.025	0.000	76	0.038	0.000	89	0.083	0.000	219	0.053	0.000	4.54
4800	900	66	0.024	0.000	81	0.038	0.000	102	0.077	0.000	250	0.050	0.000	3.59
4780	849	59	0.023	0.000	82	0.038	0.000	87	0.073	0.000	229	0.047	0.000	3.70
4760	821	67	0.024	0.000	77	0.040	0.000	66	0.068	0.000	210	0.044	0.000	3.90
4740	739	75	0.024	0.000	84	0.042	0.000	77	0.061	0.000	237	0.042	0.000	3.12
4720	621	77	0.024	0.000	79	0.039	0.000	84	0.064	0.000	241	0.043	0.000	2.58
4700	480	96	0.024	0.000	66	0.038	0.000	73	0.068	0.000	236	0.042	0.000	2.03
4680	331	101	0.024	0.000	67	0.037	0.000	51	0.071	0.000	221	0.039	0.000	1.50
4660	201	81	0.024	0.000	70	0.038	0.000	49	0.075	0.000	201	0.041	0.000	1.00
4640	91	58	0.025	0.000	71	0.038	0.000	35	0.071	0.000	165	0.040	0.000	0.56
4620	33	23	0.024	0.000	53	0.038	0.000	15	0.076	0.000	92	0.041	0.000	0.37
4600	4	17	0.024	0.000	11	0.040	0.000	0	0.000	0.000	29	0.030	0.000	0.15
4580	0	3	0.023	0.000	0	0.000	0.000	0	0.000	0.000	3	0.023	0.000	0.00
TOTAL	13786	1532	0.024	0.000	1400	0.039	0.000	1218	0.084	0.000	4151	0.047	0.000	3.32

Grade	Tons	Ave Grade
0 - .0099		
.01 - .01499		
.015 - .0199		
.02 - .0299		
.03 - .0399		
.04 - .0499		
.05 - .0599		
.06 - .0699		
.07 - .0799		
.08 →		

YARNELL PROJECT
27-NOV-89 10:27:36 MST
ALL TONNAGES ARE *1000
20 FOOT BLOCK-MINERALIZATION MODEL

UPPER TOPO ID /7001/ COPY OF INITIAL TOPOGRAPHY
LOWER TOPO ID /7004/ INVENTORY PIT > 0.02 USING J.D. SELL MASK PIT OUTLINE

COORDINATE LIMITS OF SUMMARY

	MAX	MIN
NORTH	102000	99020
EAST	50700	48400

CUTOFF GRADES:		0.000 TO 0.010 OZ AU			0.010 TO 0.015 OZ AU			GT 0.015 OZ AU			GT 0.000 OZ AU			
BENCH	WASTE	M TONS	OZ AU	OZ AG	M TONS	OZ AU	OZ AG	M TONS	OZ AU	OZ AG	M TONS	OZ AU	OZ AG	STRIP
5100	0	7	0.000	0.000	1	0.011	0.000	3	0.084	0.000	12	0.024	0.000	0.00
5080	0	33	0.001	0.000	11	0.011	0.000	42	0.060	0.000	87	0.031	0.000	0.00
5060	0	81	0.002	0.000	32	0.012	0.000	81	0.062	0.000	195	0.028	0.000	0.00
5040	0	157	0.002	0.000	45	0.012	0.000	115	0.052	0.000	318	0.022	0.000	0.00
5020	0	218	0.002	0.000	55	0.012	0.000	153	0.039	0.000	428	0.017	0.000	0.00
5000	0	277	0.002	0.000	72	0.012	0.000	192	0.034	0.000	541	0.015	0.000	0.00
4980	0	352	0.003	0.000	86	0.012	0.000	209	0.032	0.000	648	0.013	0.000	0.00
4960	0	448	0.003	0.000	81	0.012	0.000	225	0.030	0.000	755	0.012	0.000	0.00
4940	0	533	0.003	0.000	84	0.012	0.000	238	0.035	0.000	856	0.013	0.000	0.00
4920	0	642	0.003	0.000	88	0.012	0.000	227	0.043	0.000	959	0.013	0.000	0.00
4900	0	745	0.003	0.000	83	0.012	0.000	231	0.041	0.000	1060	0.012	0.000	0.00
4880	0	823	0.002	0.000	77	0.012	0.000	250	0.041	0.000	1151	0.011	0.000	0.00
4860	0	941	0.002	0.000	68	0.012	0.000	247	0.048	0.000	1258	0.012	0.000	0.00
4840	0	954	0.002	0.000	59	0.012	0.000	241	0.049	0.000	1255	0.012	0.000	0.00
4820	0	883	0.002	0.000	68	0.012	0.000	262	0.047	0.000	1214	0.013	0.000	0.00
4800	0	787	0.002	0.000	68	0.012	0.000	294	0.045	0.000	1151	0.014	0.000	0.00
4780	0	753	0.002	0.000	50	0.012	0.000	274	0.043	0.000	1078	0.013	0.000	0.00
4760	0	720	0.002	0.000	48	0.012	0.000	262	0.039	0.000	1031	0.012	0.000	0.00
4740	0	643	0.002	0.000	42	0.012	0.000	290	0.038	0.000	976	0.013	0.000	0.00
4720	0	529	0.002	0.000	54	0.012	0.000	277	0.040	0.000	862	0.014	0.000	0.00
4700	0	399	0.002	0.000	54	0.012	0.000	262	0.039	0.000	716	0.016	0.000	0.00
4680	0	258	0.002	0.000	48	0.012	0.000	245	0.037	0.000	552	0.018	0.000	0.00
4660	0	165	0.002	0.000	21	0.011	0.000	216	0.040	0.000	403	0.023	0.000	0.00
4640	0	78	0.002	0.000	7	0.012	0.000	170	0.040	0.000	257	0.027	0.000	0.00
4620	0	29	0.003	0.000	1	0.014	0.000	94	0.040	0.000	126	0.031	0.000	0.00
4600	0	4	0.001	0.000	0	0.014	0.000	29	0.030	0.000	33	0.026	0.000	0.00
4580	0	0	0.000	0.000	0	0.000	0.000	3	0.023	0.000	3	0.023	0.000	0.00
TOTAL	0	11473	0.002	0.000	1318	0.012	0.000	5147	0.041	0.000	17938	0.014	0.000	0.00

YARNELL PROJECT
27-NOV-89 10:28:58 MST
ALL TONNAGES ARE *1000
20 FOOT BLOCK-MINERALIZATION MODEL

UPPER TOPO ID /7001/ COPY OF INITIAL TOPOGRAPHY
LOWER TOPO ID /7004/ INVENTORY PIT > 0.02 USING J.D. SELL MASK PIT OUTLINE

COORDINATE LIMITS OF SUMMARY

	MAX	MIN
NORTH	102000	99020
EAST	50700	48400

CUTOFF GRADES:		0.015 TO 0.020 OZ AU			0.020 TO 0.030 OZ AU			GT 0.030 OZ AU			GT 0.015 OZ AU			
BENCH	WASTE	M TONS	OZ AU	OZ AG	M TONS	OZ AU	OZ AG	M TONS	OZ AU	OZ AG	M TONS	OZ AU	OZ AG	STRIP
5100	8	0	0.000	0.000	1	0.020	0.000	1	0.133	0.000	3	0.084	0.000	2.67
5080	45	2	0.017	0.000	19	0.022	0.000	19	0.104	0.000	42	0.060	0.000	1.06
5060	113	17	0.017	0.000	35	0.024	0.000	29	0.132	0.000	81	0.062	0.000	1.39
5040	203	32	0.018	0.000	41	0.024	0.000	41	0.105	0.000	115	0.052	0.000	1.77
5020	274	42	0.017	0.000	44	0.023	0.000	66	0.064	0.000	153	0.039	0.000	1.79
5000	349	68	0.016	0.000	46	0.023	0.000	76	0.056	0.000	192	0.034	0.000	1.82
4980	438	75	0.016	0.000	60	0.023	0.000	73	0.056	0.000	209	0.032	0.000	2.10
4960	530	87	0.016	0.000	71	0.023	0.000	65	0.058	0.000	225	0.030	0.000	2.36
4940	618	75	0.016	0.000	81	0.023	0.000	81	0.063	0.000	238	0.035	0.000	2.59
4920	731	52	0.017	0.000	82	0.025	0.000	92	0.074	0.000	227	0.043	0.000	3.21
4900	828	50	0.017	0.000	88	0.026	0.000	93	0.068	0.000	231	0.041	0.000	3.58
4880	900	51	0.016	0.000	85	0.026	0.000	113	0.064	0.000	250	0.041	0.000	3.59
4860	1010	47	0.016	0.000	49	0.026	0.000	150	0.065	0.000	247	0.048	0.000	4.08
4840	1013	44	0.016	0.000	41	0.026	0.000	155	0.064	0.000	241	0.049	0.000	4.19
4820	952	43	0.016	0.000	52	0.025	0.000	166	0.062	0.000	262	0.047	0.000	3.63
4800	856	43	0.017	0.000	66	0.024	0.000	184	0.059	0.000	294	0.045	0.000	2.91
4780	804	45	0.017	0.000	59	0.023	0.000	169	0.056	0.000	274	0.043	0.000	2.93
4760	768	52	0.017	0.000	67	0.024	0.000	143	0.053	0.000	262	0.039	0.000	2.92
4740	685	53	0.017	0.000	75	0.024	0.000	161	0.051	0.000	290	0.038	0.000	2.36
4720	584	36	0.017	0.000	77	0.024	0.000	163	0.052	0.000	277	0.040	0.000	2.10
4700	453	26	0.017	0.000	96	0.024	0.000	140	0.054	0.000	262	0.039	0.000	1.73
4680	307	24	0.018	0.000	101	0.024	0.000	119	0.052	0.000	245	0.037	0.000	1.25
4660	186	14	0.018	0.000	81	0.024	0.000	120	0.053	0.000	216	0.040	0.000	0.86
4640	86	5	0.017	0.000	58	0.025	0.000	107	0.049	0.000	170	0.040	0.000	0.51
4620	31	2	0.017	0.000	23	0.024	0.000	68	0.047	0.000	94	0.040	0.000	0.34
4600	4	0	0.000	0.000	17	0.024	0.000	11	0.040	0.000	29	0.030	0.000	0.15
4580	0	0	0.000	0.000	3	0.023	0.000	0	0.000	0.000	3	0.023	0.000	0.00
TOTAL	12791	995	0.017	0.000	1532	0.024	0.000	2619	0.060	0.000	5147	0.041	0.000	2.49

YARNELL PROJECT
27-NOV-89 10:32:30 MST
ALL TONNAGES ARE *1000
20 FOOT BLOCK-MINERALIZATION MODEL

UPPER TOPO ID /7001/ COPY OF INITIAL TOPOGRAPHY
LOWER TOPO ID /7004/ INVENTORY PIT > 0.02 USING J.D. SELL MASK PIT OUTLINE

COORDINATE LIMITS OF SUMMARY

	MAX	MIN
NORTH	102000	99020
EAST	50700	48400

CUTOFF GRADES:		0.030 TO 0.040 OZ AU			0.040 TO 0.050 OZ AU			GT 0.050 OZ AU			GT 0.030 OZ AU			
BENCH	WASTE	M TONS	OZ AU	OZ AG	M TONS	OZ AU	OZ AG	M TONS	OZ AU	OZ AG	M TONS	OZ AU	OZ AG	STRIP
5100	10	0	0.000	0.000	0	0.000	0.000	1	0.133	0.000	1	0.133	0.000	5.53
5080	67	0	0.033	0.000	2	0.044	0.000	16	0.117	0.000	19	0.104	0.000	3.39
5060	165	2	0.035	0.000	2	0.045	0.000	24	0.153	0.000	29	0.132	0.000	5.59
5040	276	16	0.034	0.000	2	0.045	0.000	21	0.169	0.000	41	0.105	0.000	6.63
5020	362	31	0.035	0.000	12	0.045	0.000	22	0.116	0.000	66	0.064	0.000	5.45
5000	465	29	0.034	0.000	16	0.046	0.000	30	0.082	0.000	76	0.056	0.000	6.05
4980	574	23	0.035	0.000	16	0.045	0.000	33	0.076	0.000	73	0.056	0.000	7.78
4960	689	14	0.034	0.000	24	0.044	0.000	26	0.082	0.000	65	0.058	0.000	10.48
4940	775	19	0.035	0.000	33	0.043	0.000	27	0.107	0.000	81	0.063	0.000	9.52
4920	866	21	0.035	0.000	31	0.043	0.000	39	0.120	0.000	92	0.074	0.000	9.36
4900	967	27	0.034	0.000	21	0.044	0.000	43	0.101	0.000	93	0.068	0.000	10.40
4880	1037	35	0.035	0.000	28	0.046	0.000	49	0.096	0.000	113	0.064	0.000	9.12
4860	1107	44	0.036	0.000	36	0.045	0.000	69	0.095	0.000	150	0.065	0.000	7.34
4840	1099	48	0.035	0.000	28	0.044	0.000	78	0.090	0.000	155	0.064	0.000	7.05
4820	1048	45	0.035	0.000	31	0.044	0.000	89	0.083	0.000	166	0.062	0.000	6.29
4800	966	50	0.035	0.000	31	0.043	0.000	102	0.077	0.000	184	0.059	0.000	5.25
4780	908	51	0.034	0.000	31	0.044	0.000	87	0.073	0.000	169	0.056	0.000	5.35
4760	888	34	0.034	0.000	42	0.045	0.000	66	0.068	0.000	143	0.053	0.000	6.21
4740	815	32	0.035	0.000	52	0.046	0.000	77	0.061	0.000	161	0.051	0.000	5.06
4720	698	42	0.035	0.000	37	0.044	0.000	84	0.064	0.000	163	0.052	0.000	4.27
4700	576	42	0.035	0.000	24	0.043	0.000	73	0.068	0.000	140	0.054	0.000	4.10
4680	433	48	0.035	0.000	19	0.044	0.000	51	0.071	0.000	119	0.052	0.000	3.64
4660	283	49	0.035	0.000	20	0.045	0.000	49	0.075	0.000	120	0.053	0.000	2.36
4640	149	50	0.035	0.000	20	0.046	0.000	35	0.071	0.000	107	0.049	0.000	1.40
4620	57	32	0.035	0.000	20	0.044	0.000	15	0.076	0.000	68	0.047	0.000	0.84
4600	22	5	0.037	0.000	6	0.043	0.000	0	0.000	0.000	11	0.040	0.000	1.94
4580	3	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000	0.00
TOTAL	15319	802	0.035	0.000	598	0.044	0.000	1218	0.084	0.000	2619	0.060	0.000	5.85

YARNELL PROJECT
27-NOV-89 10:33:36 MST
ALL TONNAGES ARE *1000
20 FOOT BLOCK-MINERALIZATION MODEL

UPPER TOPO ID /7001/ COPY OF INITIAL TOPOGRAPHY
LOWER TOPO ID /7004/ INVENTORY PIT > 0.02 USING J.D. SELL MASK PIT OUTLINE

COORDINATE LIMITS OF SUMMARY

	MAX	MIN
NORTH	102000	99020
EAST	50700	48400

CUTOFF GRADES:		0.050 TO 0.060 OZ AU			0.060 TO 0.070 OZ AU			GT 0.070 OZ AU			GT 0.050 OZ AU			
BENCH	WASTE	M TONS	OZ AU	OZ AG	M TONS	OZ AU	OZ AG	M TONS	OZ AU	OZ AG	M TONS	OZ AU	OZ AG	STRIP
5100	10	0	0.000	0.000	1	0.062	0.000	0	0.236	0.000	1	0.133	0.000	5.53
5080	71	0	0.051	0.000	7	0.063	0.000	8	0.176	0.000	16	0.117	0.000	4.31
5060	171	0	0.059	0.000	6	0.063	0.000	17	0.190	0.000	24	0.153	0.000	7.09
5040	296	0	0.054	0.000	2	0.062	0.000	18	0.188	0.000	21	0.169	0.000	13.62
5020	406	0	0.054	0.000	1	0.062	0.000	20	0.121	0.000	22	0.116	0.000	18.36
5000	511	2	0.054	0.000	6	0.062	0.000	21	0.091	0.000	30	0.082	0.000	16.57
4980	614	4	0.053	0.000	9	0.064	0.000	19	0.087	0.000	33	0.076	0.000	18.26
4960	728	6	0.053	0.000	7	0.064	0.000	13	0.106	0.000	26	0.082	0.000	27.15
4940	829	7	0.054	0.000	5	0.063	0.000	14	0.154	0.000	27	0.107	0.000	29.99
4920	919	5	0.056	0.000	9	0.064	0.000	24	0.158	0.000	39	0.120	0.000	23.31
4900	1017	7	0.055	0.000	13	0.063	0.000	23	0.137	0.000	43	0.101	0.000	23.36
4880	1101	14	0.055	0.000	16	0.062	0.000	18	0.157	0.000	49	0.096	0.000	22.24
4860	1188	26	0.056	0.000	14	0.062	0.000	28	0.149	0.000	69	0.095	0.000	17.04
4840	1177	31	0.056	0.000	17	0.062	0.000	30	0.140	0.000	78	0.090	0.000	14.99
4820	1124	31	0.055	0.000	20	0.064	0.000	38	0.116	0.000	89	0.083	0.000	12.54
4800	1048	34	0.055	0.000	18	0.066	0.000	48	0.096	0.000	102	0.077	0.000	10.25
4780	991	36	0.054	0.000	6	0.067	0.000	44	0.090	0.000	87	0.073	0.000	11.39
4760	965	38	0.053	0.000	1	0.061	0.000	26	0.091	0.000	66	0.068	0.000	14.63
4740	899	47	0.053	0.000	10	0.063	0.000	19	0.081	0.000	77	0.061	0.000	11.68
4720	778	48	0.053	0.000	10	0.064	0.000	25	0.084	0.000	84	0.064	0.000	9.26
4700	642	39	0.054	0.000	7	0.065	0.000	27	0.091	0.000	73	0.068	0.000	8.73
4680	500	25	0.054	0.000	7	0.064	0.000	18	0.096	0.000	51	0.071	0.000	9.74
4660	353	13	0.055	0.000	7	0.064	0.000	28	0.087	0.000	49	0.075	0.000	7.09
4640	221	8	0.055	0.000	7	0.064	0.000	19	0.080	0.000	35	0.071	0.000	6.17
4620	110	3	0.056	0.000	0	0.064	0.000	11	0.082	0.000	15	0.076	0.000	7.22
4600	33	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000	0.00
4580	3	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000	0.00
TOTAL	16720	435	0.054	0.000	215	0.063	0.000	566	0.115	0.000	1218	0.084	0.000	13.72

YARNELL PROJECT
27-NOV-89 10:34:56 MST
ALL TONNAGES ARE *1000
20 FOOT BLOCK-MINERALIZATION MODEL

UPPER TOPO ID /7001/ COPY OF INITIAL TOPOGRAPHY
LOWER TOPO ID /7004/ INVENTORY PIT > 0.02 USING J.D. SELL MASK PIT OUTLINE

COORDINATE LIMITS OF SUMMARY

	MAX	MIN
NORTH	102000	99020
EAST	50700	48400

CUTOFF GRADES: 0.060 TO 0.070 OZ AU; 0.070 TO 0.080 OZ AU; GT 0.080 OZ AU; GT 0.060 OZ AU

BENCH	WASTE	0.060 TO 0.070 OZ AU M TONS	OZ AU	OZ AG	0.070 TO 0.080 OZ AU M TONS	OZ AU	OZ AG	GT 0.080 OZ AU M TONS	OZ AU	OZ AG	GT 0.060 OZ AU M TONS	OZ AU	OZ AG	STRIP
5100	10	1	0.062	0.000	0	0.000	0.000	0	0.236	0.000	1	0.133	0.000	5.53
5080	72	7	0.063	0.000	1	0.077	0.000	6	0.195	0.000	15	0.121	0.000	4.62
5060	172	6	0.063	0.000	0	0.000	0.000	17	0.190	0.000	23	0.156	0.000	7.31
5040	297	2	0.062	0.000	0	0.075	0.000	17	0.192	0.000	21	0.173	0.000	14.06
5020	407	1	0.062	0.000	1	0.078	0.000	18	0.126	0.000	21	0.118	0.000	18.93
5000	513	6	0.062	0.000	5	0.078	0.000	16	0.096	0.000	28	0.085	0.000	18.16
4980	619	9	0.064	0.000	3	0.078	0.000	15	0.089	0.000	29	0.079	0.000	21.32
4960	735	7	0.064	0.000	0	0.000	0.000	13	0.106	0.000	20	0.092	0.000	35.96
4940	836	5	0.063	0.000	4	0.077	0.000	9	0.189	0.000	19	0.128	0.000	41.92
4920	925	9	0.064	0.000	8	0.076	0.000	15	0.202	0.000	33	0.131	0.000	27.47
4900	1024	13	0.063	0.000	7	0.077	0.000	15	0.167	0.000	36	0.110	0.000	28.05
4880	1116	16	0.062	0.000	0	0.000	0.000	18	0.157	0.000	34	0.113	0.000	32.07
4860	1215	14	0.062	0.000	0	0.000	0.000	28	0.149	0.000	42	0.119	0.000	28.34
4840	1208	17	0.062	0.000	3	0.079	0.000	26	0.149	0.000	47	0.112	0.000	25.48
4820	1156	20	0.064	0.000	8	0.078	0.000	29	0.127	0.000	58	0.098	0.000	19.76
4800	1083	18	0.066	0.000	23	0.076	0.000	25	0.114	0.000	67	0.087	0.000	16.05
4780	1028	6	0.067	0.000	26	0.075	0.000	17	0.113	0.000	50	0.087	0.000	20.42
4760	1003	1	0.061	0.000	14	0.075	0.000	12	0.110	0.000	27	0.090	0.000	35.97
4740	946	10	0.063	0.000	8	0.076	0.000	10	0.085	0.000	29	0.075	0.000	31.92
4720	827	10	0.064	0.000	12	0.075	0.000	13	0.093	0.000	35	0.078	0.000	23.35
4700	681	7	0.065	0.000	14	0.074	0.000	13	0.108	0.000	34	0.085	0.000	19.71
4680	526	7	0.064	0.000	7	0.073	0.000	11	0.110	0.000	25	0.087	0.000	20.39
4660	366	7	0.064	0.000	13	0.076	0.000	14	0.097	0.000	36	0.082	0.000	10.08
4640	229	7	0.064	0.000	14	0.076	0.000	5	0.089	0.000	27	0.075	0.000	8.31
4620	114	0	0.064	0.000	6	0.076	0.000	5	0.089	0.000	12	0.081	0.000	9.39
4600	33	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000	0.00
4580	3	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000	0.00
TOTAL	17156	215	0.063	0.000	187	0.076	0.000	379	0.134	0.000	782	0.100	0.000	21.92

Tons Ore : 2,430,000
Tons Waste 5,734,000
3.3 year life.
2700 tons ore/day ; 9072 tons waste/day ; 5 days per week. crushing to 6".
13,000 tons/day total

SUMMARY OF PARAMETERS USED IN CONE MINER ORE RESERVE CALCULATIONS

COST PARAMETERS	WASTE	ORE
CONTRACT MINING	1.07	1.18
CONTRACT CRUSHING (TO – 6")	–	0.50
SUPERVISION & ADMINISTRATION (INCL. 40%)	–	1.30
LABOR – OPERATIONS & MAINTENANCE (INCL. 40%)	–	0.81
COARSE ORE HANDLING (FRONT-END LOADER)	–	0.25
HEAP LEVELING (TRACK DOZER)	–	0.04
PLANT OPERATING SUPPLIES – REAGENTS	–	0.69
PLANT OPERATING SUPPLIES – FLUXES	–	0.04
PLANT MAINTENANCE SUPPLIES	–	0.13
ELECTRICAL POWER	–	0.36
FRESH WATER	–	0.06
ROYALTY – ATCHINSON AND WESTERN	–	0.18
INSURANCE	–	0.42
SEVERANCE TAX	–	0.18
PROPERTY TAX	–	0.30
SALES TAX	–	0.06
OTHER (EXCL. ROYALTY)	–	0.17
TOTAL OPERATING COST PER TON	**$1.07**	**$6.67**

MISCELLANEOUS

GOLD RECOVERY = 72 PERCENT
DENSITY = 12.0 CUBIC FEET PER TON (IN PLACE)
ULTIMATE PIT SLOPE = 50 DEGREES
NO CONSIDERATION GIVEN TO HAUL ROAD DESIGN

1-24-90 JDS

$ 1989 year $

YARNELL CONTRACT MINING AND CRUSHING COST ESTIMATES

CONTRACTORS	MINING COST ($/TON ORE)	MINING COST ($/TON WASTE)	COARSE CRUSHING COST ($/TON ORE) to 6"
J. D. WELSH & ASSOCIATES (LON ARMSTRONG)	$1.50	$1.38	$0.86
LEDCOR CONSTRUCTION (DEXTER BAKER)	$1.36	$1.28	$1.01
MORRISON - KNUDSEN (JOHN ROBERTS)	$1.65	$1.45	$1.00
N. A. DEGERSTROM (ARMAND HANSEN)	$1.20	$1.20	$1.05
SUNDT CORPORATION (MARVIN HUSTAD)	$1.78	$1.54	$1.15
WASHINGTON CONSTRUCTION (RON KENT)	$1.18	$1.07	$0.50
AVERAGE (ALL CONTRACTORS)	**$1.45**	**$1.32**	**$0.93**

NOTE:

COSTS ARE WITHIN +/- 25% RANGE
COSTS EXCLUDE MOBILIZATION AND DEMOBILIZATION
COSTS ARE 1989 DOLLARS, W/O INFLATION

COST ($/TON ORE)

SUPERVISION & ADMINISTRATION (INCL. 40% BURDEN)

((NUMBER OF SALARIED PERSONNEL)*(AVERAGE YEARLY SALARY)*(140 PERCENT))/(AVERAGE ORE TONNAGE PER YEAR)

((19)*($35,000)*(1.40))/(716,000) = $1.30

LABOR - OPERATIONS & MAINTENANCE (INCL. 40% BURDEN)

((NUMBER OF HOURLY PERSONNEL)*(AVERAGE WAGE PER HOUR)*(AVERAGE HOURS PER YEAR)*(140 PERCENT))/(AVERAGE ORE TONNAGE PER YEAR)

((16)*($12.50)*(2080)*(1.40))/(716,000) = $0.81

COARSE ORE HANDLING (FRONT-END LOADER)

((LOADER COST/HOUR, EXCL. LABOR)*(AVG. OPER. HOURS/SHIFT)*(AVG. SHIFTS/DAY))/(AVG. ORE TONS/DAY)

($50.00)*(5)*(2))/(2,000) = $0.25

HEAP LEVELING (USED TRACK DOZER)

((DOZER COST/HOUR, EXCL. LABOR)*(AVG. OPER. HOURS/SHIFT)*(AVG. SHIFTS/DAY))/(AVG. ORE TONS/DAY)

($40.00)*(1.0)*(2))/(2,000) = $0.04

PLANT OPERATING SUPPLIES - REAGENTS

DESCRIPTION	CONSUMPTION (LB./TON)	UNIT COST (LB./TON)	COST ($/TON)
CEMENT	5.00	0.05	0.25
SODIUM CYANIDE	0.40	0.85	0.34
CARBON	0.01	1.00	0.01
CAUSTIC SODA	0.20	0.35	0.07
MURIATIC ACID	0.10	0.15	0.02
ANTISCALENT	0.01	0.60	0.01
TOTAL			0.69

$0.69

PLANT OPERATING SUPPLIES - FLUXES

(ESTIMATED FLUX COST PER YEAR)/(AVERAGE ORE TONNAGE PER YEAR)

($25,000)/(716,000) = $0.04

PLANT MAINTENANCE SUPPLIES

(KILBORN'S ESTIMATED PLANT MAINTENANCE COST PER YEAR)/(AVERAGE ORE TONNAGE PER YEAR)

($95,000)/(716,000) = $0.13

ELECTRICAL POWER

(((KILBORN'S ESTIMATED KWH CONSUMPTION PER YEAR)*(A.P.S. POWER COST PER KWH))+ (BASIC SERVICE AND POWER CHARGE PER YEAR))/(AVG. ORE TONNAGE/YEAR)

CONSUMPTION	CONSUMPTION
5145707 KWH/YEAR	428809 KWH/MONTH

	AVERAGE MONTHLY BILLING RATE	
JUNE-OCTOBER	0.112096	PER KWH FOR THE FIRST 2,500 KWH
NOVEMBER-MAY	0.101201	PER KWH FOR THE FIRST 2,500 KWH
JUNE-OCTOBER	0.077456	PER KWH FOR THE NEXT 42,000 KWH
NOVEMBER-MAY	0.069800	PER KWH FOR THE NEXT 42,000 KWH
JUNE-OCTOBER	0.049571	PER KWH FOR ALL ADDITIONAL KWH
NOVEMBER-MAY	0.044525	PER KWH FOR ALL ADDITIONAL KWH

KWH	AVG. RATE	AVG. COST/MONTH	AVG. COST/YEAR
2500	0.105741	264	3172
42000	0.072990	3066	36787
384309	0.046628	17919	215032
SUB-TOTAL			254992
BASIC SERVICE CHARGE			180
POWER CHARGE			1970
TOTAL			257142

($257,142 PER YEAR)/(716,000 ORE TONS PER YEAR) = $0.36

FRESH WATER

((ESTIMATED WATER COST PER GALLON)*(AVG. GALLONS OF WATER CONSUMED PER DAY)*(365 DAYS PER YEAR))/(AVERAGE ORE TONNAGE PER YEAR)

(($0.0005)*(227,000)*(365))/(716,000) = $0.06

ROYALTY

(AVERAGE ROYALTY PER YEAR AT $400 GOLD PRICE)/(AVERAGE ORE TONNAGE PER YEAR)

($130,000)/(716,000) = $0.18

INSURANCE

(INSURANCE COST PER YEAR)/(AVERAGE ORE TONNAGE PER YEAR)

($300,000)/(716,000) = $0.42

SEVERANCE TAX

(1.25% NSR)*(NSR PER TON OF ORE AT $400 GOLD PRICE)

((0.0125)*(400-4.00)*(0.052)*(0.72)) = $0.18

PROPERTY TAX

((11.42%)*(ESTIMATED CAPITAL - 15% SALVAGE VALUE)*(25% ASSESSMENT))/(AVERAGE ORE TONNAGE PER YEAR)

((.1142)*(9,000,000-1,350,000)*(.25))/ (716,000) = $0.30

SALES TAX

(COST OF CONSUMABLES PER TON ORE)*(5%)

CONSUMABLES	COST/TON ORE
PLANT OPERATING SUPPLIES - REAGENTS	0.69
PLANT OPERATING SUPPLIES - FLUXES	0.04
ELECTRICAL POWER	0.36
FRESH WATER	0.06
TOTAL	1.15 *(.05) =

$0.06

OTHER (EXCL. ROYALTY)

((OPERATING COSTS)*(1.9%))/(AVERAGE ORE TONNAGE PER YEAR)

OPERATING COSTS	COSTS/TON ORE		
CONTRACT MINING ORE	1.18		
CONTRACT MINING WASTE (AT 2.40:1 STRIPPING RATIO)	2.57		
COARSE CRUSHING COST TO -6"	0.50		
SUPERVISION & ADMINISTRATION (INCL. 40% BURDEN)	1.30		
LABOR - OPERATIONS & MAINTENANCE (INCL. 40% BURDEN)	0.81		
COARSE ORE HANDLING (FRONT-END LOADER)	0.25		
HEAP LEVELING (USED TRACK DOZER)	0.04		
PLANT OPERATING SUPPLIES - REAGENTS	0.69		
PLANT OPERATING SUPPLIES - FLUXES	0.04		
PLANT MAINTENANCE SUPPLIES	0.13		
ELECTRICAL POWER	0.36		
FRESH WATER	0.06		
ROYALTY	0.18		
INSURANCE	0.42		
SEVERANCE TAX	0.18		
PROPERTY TAX	0.30		
SALES TAX	0.06		
TOTAL	9.07	*(0.019) =	$0.17

	COST/TON WASTE	COST/TON ORE
GRAND TOTAL OPERATING COSTS FOR CONE MINER ORE RESERVE CALCULATIONS	$1.07	$6.67

CUTOFF GRADES FOR ECONOMIC ORE RESERVES AT VARIOUS GOLD PRICES

ORE CUTOFF GRADE = (OPERATING COST/TON ORE)/((GOLD PRICE/OUNCE)-(SMELTER CHARGE @ 1% OF GOLD PRICE))*(RECOVERY %)

OPERATING COST/TON ORE ($/TON)	6.67
RECOVERY (%)	72

	GOLD PRICE ($/OUNCE)				
	450	425	400	375	350
ORE CUTOFF GRADE (OPT)	**0.021**	**0.022**	**0.023**	**0.025**	**0.027**

GREATER THAN WASTE CUTOFF GRADE = ((OPER. COST/TON ORE)-(MINING COST/TON WASTE))/((GOLD PRICE/OUNCE)-(1% SMELTER CHG.))*(REC. %)

OPERATING COST/TON ORE ($/TON)	6.67
MINING COST/TON WASTE ($/TON)	1.07
RECOVERY (%)	72

	GOLD PRICE ($/OUNCE)				
	450	425	400	375	350
G.T. WASTE CUTOFF GRADE (OPT)	**0.017**	**0.018**	**0.020**	**0.021**	**0.022**

YARNELL ORE RESERVES SUMMARY

$450 ECONOMIC PIT DESIGN

WESTERN BUILDING & MINING CO. AND ATCHINSON, TOPEKA & SANTA FE (COMBINED)

GREATER THAN ORE CUTOFF		GREATER THAN WASTE VALUE		COMBINED ORE RESERVES		WASTE	
TONS	GRADE	TONS	GRADE	TONS	GRADE	TONS	GRADE
2761	0.054	440	0.019	3201	0.049	7065	0.004

ATCHINSON,TOPEKA & SANTA FE

GREATER THAN ORE CUTOFF		GREATER THAN WASTE VALUE		COMBINED ORE RESERVES		WASTE	
TONS	GRADE	TONS	GRADE	TONS	GRADE	TONS	GRADE
75	0.069	20	0.019	95	0.058	118	0.001

WESTERN BUILDING & MINING CO.

COMBINED ORE RESERVES		WASTE	
TONS	GRADE	TONS	GRADE
3106	0.049	6947	0.004

YARNELL ORE RESERVES SUMMARY

$425 ECONOMIC PIT DESIGN

WESTERN BUILDING & MINING CO. AND ATCHINSON, TOPEKA & SANTA FE (COMBINED)

GREATER THAN ORE CUTOFF		GREATER THAN WASTE VALUE		COMBINED ORE RESERVES		WASTE	
TONS	GRADE	TONS	GRADE	TONS	GRADE	TONS	GRADE
2353	0.057	454	0.020	2807	0.051	5922	0.005

ATCHINSON,TOPEKA & SANTA FE

GREATER THAN ORE CUTOFF		GREATER THAN WASTE VALUE		COMBINED ORE RESERVES		WASTE	
TONS	GRADE	TONS	GRADE	TONS	GRADE	TONS	GRADE
69	0.073	25	0.020	94	0.059	111	0.001

WESTERN BUILDING & MINING CO.

COMBINED ORE RESERVES		WASTE	
TONS	GRADE	TONS	GRADE
2713	0.051	5811	0.005

YARNELL ORE RESERVES SUMMARY

$400 ECONOMIC PIT DESIGN

WESTERN BUILDING & MINING CO. AND ATCHINSON, TOPEKA & SANTA FE (COMBINED)

GREATER THAN ORE CUTOFF		GREATER THAN WASTE VALUE		COMBINED ORE RESERVES		WASTE	
TONS	GRADE	TONS	GRADE	TONS	GRADE	TONS	GRADE
2169	0.060	318	0.021	2487	0.055	5982	0.005

ATCHINSON,TOPEKA & SANTA FE

GREATER THAN ORE CUTOFF		GREATER THAN WASTE VALUE		COMBINED ORE RESERVES		WASTE	
TONS	GRADE	TONS	GRADE	TONS	GRADE	TONS	GRADE
67	0.074	13	0.021	80	0.065	126	0.003

WESTERN BUILDING & MINING CO.

COMBINED ORE RESERVES		WASTE	
TONS	GRADE	TONS	GRADE
2407	0.055	5856	0.005

YARNELL ORE RESERVES SUMMARY

$375 ECONOMIC PIT DESIGN

WESTERN BUILDING & MINING CO. AND ATCHINSON, TOPEKA & SANTA FE (COMBINED)

GREATER THAN ORE CUTOFF		GREATER THAN WASTE VALUE		COMBINED ORE RESERVES		WASTE	
TONS	GRADE	TONS	GRADE	TONS	GRADE	TONS	GRADE
1228	0.072	76	0.023	1304	0.069	3230	0.005

ATCHINSON,TOPEKA & SANTA FE

GREATER THAN ORE CUTOFF		GREATER THAN WASTE VALUE		COMBINED ORE RESERVES		WASTE	
TONS	GRADE	TONS	GRADE	TONS	GRADE	TONS	GRADE
65	0.075	1	0.022	66	0.074	130	0.005

WESTERN BUILDING & MINING CO.

COMBINED ORE RESERVES		WASTE	
TONS	GRADE	TONS	GRADE
1238	0.069	3100	0.005

YARNELL ORE RESERVES SUMMARY

$350 ECONOMIC PIT DESIGN

WESTERN BUILDING & MINING CO. AND ATCHINSON, TOPEKA & SANTA FE (COMBINED)

GREATER THAN ORE CUTOFF		GREATER THAN WASTE VALUE		COMBINED ORE RESERVES		WASTE	
TONS	GRADE	TONS	GRADE	TONS	GRADE	TONS	GRADE
1072	0.076	82	0.023	1154	0.072	2770	0.005

ATCHINSON,TOPEKA & SANTA FE

GREATER THAN ORE CUTOFF		GREATER THAN WASTE VALUE		COMBINED ORE RESERVES		WASTE	
TONS	GRADE	TONS	GRADE	TONS	GRADE	TONS	GRADE
63	0.076	1	0.022	64	0.075	123	0.005

WESTERN BUILDING & MINING CO.

COMBINED ORE RESERVES		WASTE	
TONS	GRADE	TONS	GRADE
1090	0.072	2647	0.005

1-24-90

2 stage crushing to 1 1/2"
72% recovery in 60-90 days.

ck logs of 3 core hole for "clay" zone.

New phase 2 1) ~~without time~~ assumed 1 1/2" no extra clay.
2) ~~with time~~ 1 1/2" assuming clay
3) 3/8" ~~cutting~~ on core
4). " " "

$ 3K per 12" column 1000# test including assays.

~~$ 2,450,000 oz~~

NAM ck polymer type heat lamp etc

Resale electric - tanks etc
Prep ADR plant etc 1.4 M
Leach ponds distinct = 0.14
Leach pads clay 2,3.4 80 mil liner
Conveyors, 0.58
Administ bldg & trailer 2.2 (1.59)
Assay - mill lab 1.09 + equip .18
Warehouse .250
Mobil equip. .52
Start up spare parts ~~.125~~
Indirect construction items .42
Eng & Procurement 10% of total .7

Quantum 1-21-90 Call RLB 3 for Tony & OE

14.8 capital
4 of 4.8 M cash flows
IRR internal rate of return

11.3%

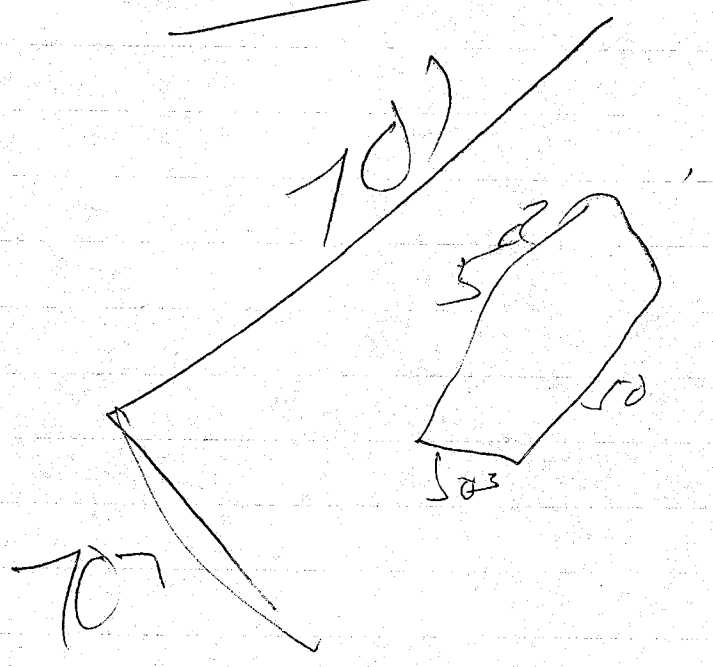
Add 50,000 tons at 0.10 5

(91) 2115
1,915

200

15 of 0.10
rest 0.05

does Tom have stop terminus removed. NO



.JDS

YARNELL PROJECT
26-JAN-90 11:15:47 MST
ALL TONNAGES ARE *1000
20 FOOT BLOCK-MINERALIZATION MODEL

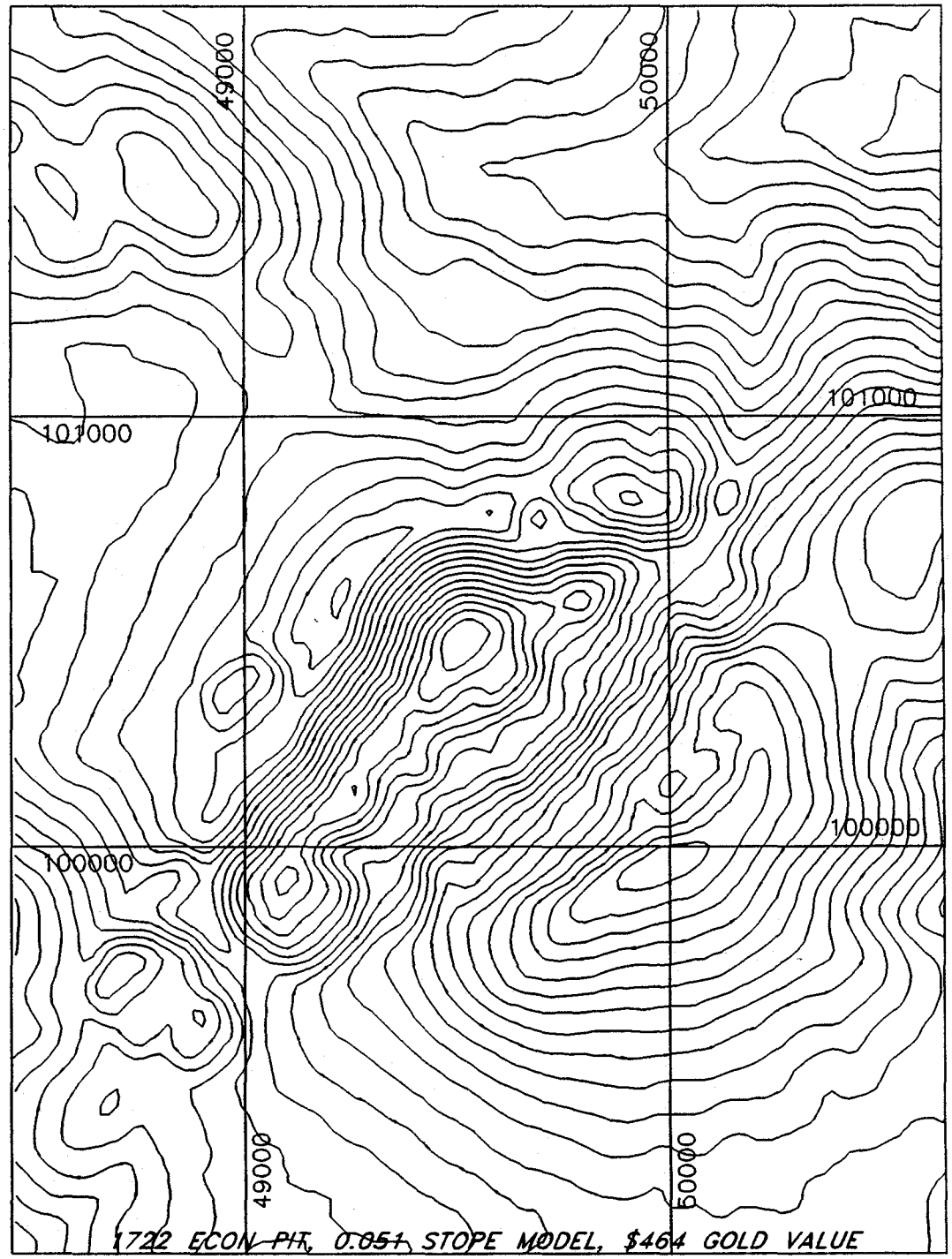
UPPER TOPO ID /1001/ INITIAL YARNELL BLOCK TOPOGRAPHY
LOWER TOPO ID /1722/ $464, 50 DEG. SLOPE, 2", >WASTE, density 12.0, 72% RECOVERY (0.051 stope model)

COORDINATE LIMITS OF SUMMARY

	MAX	MIN
NORTH	102000	99020
EAST	50700	48400

CUTOFF GRADES:		0.010 TO 0.015 OZ AU			0.015 TO 0.020 OZ AU			GT 0.020 OZ AU			GT 0.010 OZ AU			
BENCH	WASTE	M TONS	OZ AU	OZ AG	M TONS	OZ AU	OZ AG	M TONS	OZ AU	OZ AG	M TONS	OZ AU	OZ AG	STRIP
5100	8	1	0.011	0.000	0	0.000	0.000	3	0.084	0.000	5	0.059	0.000	1.63
5080	38	11	0.011	0.000	2	0.017	0.000	45	0.061	0.000	59	0.049	0.000	0.65
5060	91	35	0.012	0.000	17	0.017	0.000	82	0.072	0.000	135	0.049	0.000	0.67
5040	170	49	0.012	0.000	33	0.018	0.000	102	0.065	0.000	185	0.042	0.000	0.92
5020	228	56	0.012	0.000	44	0.017	0.000	127	0.050	0.000	228	0.034	0.000	1.00
5000	271	73	0.012	0.000	71	0.016	0.000	136	0.045	0.000	280	0.029	0.000	0.97
4980	325	88	0.012	0.000	78	0.016	0.000	148	0.043	0.000	315	0.028	0.000	1.03
4960	413	85	0.012	0.000	91	0.016	0.000	150	0.045	0.000	326	0.028	0.000	1.27
4940	479	87	0.012	0.000	77	0.016	0.000	179	0.049	0.000	344	0.032	0.000	1.39
4920	545	82	0.012	0.000	51	0.017	0.000	186	0.057	0.000	320	0.039	0.000	1.70
4900	571	68	0.012	0.000	43	0.017	0.000	187	0.052	0.000	300	0.038	0.000	1.90
4880	565	54	0.012	0.000	38	0.016	0.000	200	0.049	0.000	293	0.038	0.000	1.93
4860	573	47	0.012	0.000	34	0.016	0.000	205	0.056	0.000	287	0.044	0.000	1.99
4840	537	38	0.011	0.000	34	0.016	0.000	212	0.056	0.000	285	0.045	0.000	1.89
4820	475	43	0.011	0.000	35	0.016	0.000	220	0.058	0.000	299	0.046	0.000	1.59
4800	414	45	0.012	0.000	22	0.018	0.000	233	0.052	0.000	301	0.043	0.000	1.37
4780	371	29	0.012	0.000	20	0.018	0.000	220	0.050	0.000	270	0.043	0.000	1.38
4760	301	28	0.012	0.000	30	0.017	0.000	212	0.048	0.000	271	0.040	0.000	1.11
4740	212	25	0.012	0.000	30	0.017	0.000	231	0.050	0.000	287	0.043	0.000	0.74
4720	137	15	0.012	0.000	21	0.017	0.000	211	0.053	0.000	248	0.047	0.000	0.55
4700	75	8	0.012	0.000	14	0.018	0.000	151	0.054	0.000	174	0.049	0.000	0.43
4680	32	5	0.012	0.000	1	0.016	0.000	81	0.050	0.000	87	0.048	0.000	0.36
4660	3	0	0.000	0.000	1	0.018	0.000	37	0.060	0.000	38	0.059	0.000	0.08
4640	0	0	0.000	0.000	0	0.000	0.000	9	0.056	0.000	9	0.056	0.000	0.00
TOTAL	6844	982	0.012	0.000	798	0.017	0.000	3577	0.052	0.000	5358	0.040	0.000	1.28

cc: FTG
WLK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1722 ECON PIT, 0.051 STOPE MODEL, $464 GOLD VALUE

YARNELL PROJECT
23-JAN-90 11:47:37 MST
ALL TONNAGES ARE *1000
20 FOOT BLOCK-MINERALIZATION MODEL

UPPER TOPO ID /7001/ COPY OF INITIAL TOPOGRAPHY
LOWER TOPO ID /7004/ INVENTORY PIT > 0.02 USING J.D. SELL MASK PIT OUTLINE
/Au96/ Yarnell Gold Model using Holes 1-96, Open Cut, and hypothetical stope values (0.05 stope model)

COORDINATE LIMITS OF SUMMARY

	MAX	MIN
NORTH	102000	99020
EAST	50700	48400

CUTOFF GRADES:		0.010 TO 0.015 OZ AU			0.015 TO 0.020 OZ AU			GT 0.020 OZ AU			GT 0.010 OZ AU			
BENCH	WASTE	M TONS	OZ AU	OZ AG	M TONS	OZ AU	OZ AG	M TONS	OZ AU	OZ AG	M TONS	OZ AU	OZ AG	STRIP
5100	7	1	0.011	0.000	0	0.000	0.000	3	0.084	0.000	5	0.059	0.000	1.44
5080	35	11	0.011	0.000	2	0.017	0.000	41	0.064	0.000	55	0.050	0.000	0.63
5060	84	33	0.012	0.000	17	0.017	0.000	67	0.073	0.000	119	0.047	0.000	0.71
5040	164	47	0.012	0.000	33	0.018	0.000	86	0.065	0.000	167	0.041	0.000	0.98
5020	227	58	0.012	0.000	44	0.017	0.000	115	0.047	0.000	218	0.032	0.000	1.04
5000	288	75	0.012	0.000	71	0.016	0.000	128	0.043	0.000	274	0.028	0.000	1.05
4980	367	89	0.012	0.000	78	0.016	0.000	139	0.041	0.000	307	0.026	0.000	1.19
4960	466	85	0.012	0.000	91	0.016	0.000	142	0.040	0.000	319	0.026	0.000	1.46
4940	555	87	0.012	0.000	78	0.016	0.000	170	0.043	0.000	336	0.029	0.000	1.65
4920	668	92	0.012	0.000	54	0.017	0.000	182	0.051	0.000	329	0.034	0.000	2.03
4900	776	86	0.012	0.000	52	0.017	0.000	188	0.047	0.000	327	0.033	0.000	2.37
4880	856	80	0.012	0.000	54	0.016	0.000	206	0.048	0.000	341	0.034	0.000	2.51
4860	979	71	0.012	0.000	49	0.016	0.000	208	0.056	0.000	329	0.040	0.000	2.97
4840	993	61	0.012	0.000	45	0.016	0.000	205	0.056	0.000	313	0.042	0.000	3.17
4820	919	71	0.012	0.000	44	0.016	0.000	228	0.053	0.000	344	0.040	0.000	2.67
4800	819	71	0.012	0.000	45	0.017	0.000	260	0.050	0.000	377	0.039	0.000	2.17
4780	784	52	0.012	0.000	46	0.018	0.000	238	0.048	0.000	338	0.038	0.000	2.32
4760	749	50	0.012	0.000	54	0.017	0.000	219	0.044	0.000	323	0.035	0.000	2.32
4740	669	43	0.012	0.000	55	0.017	0.000	246	0.042	0.000	346	0.035	0.000	1.93
4720	551	57	0.012	0.000	38	0.017	0.000	250	0.043	0.000	346	0.035	0.000	1.59
4700	415	57	0.012	0.000	27	0.018	0.000	246	0.042	0.000	330	0.035	0.000	1.26
4680	268	50	0.012	0.000	25	0.018	0.000	230	0.039	0.000	306	0.033	0.000	0.88
4660	171	22	0.011	0.000	15	0.018	0.000	209	0.041	0.000	247	0.037	0.000	0.69
4640	82	8	0.012	0.000	5	0.018	0.000	172	0.040	0.000	185	0.038	0.000	0.44
4620	31	2	0.014	0.000	2	0.017	0.000	96	0.041	0.000	100	0.040	0.000	0.31
4600	4	0	0.014	0.000	0	0.000	0.000	30	0.030	0.000	30	0.030	0.000	0.14
4580	0	0	0.000	0.000	0	0.000	0.000	3	0.023	0.000	3	0.023	0.000	0.00
TOTAL	11939	1371	0.012	0.000	1035	0.017	0.000	4320	0.047	0.000	6728	0.035	0.000	1.77

YARNELL PROJECT
23-JAN-90 11:43:21 MST
ALL TONNAGES ARE *1000
20 FOOT BLOCK-MINERALIZATION MODEL

UPPER TOPO ID /7001/ COPY OF INITIAL TOPOGRAPHY
LOWER TOPO ID /7004/ INVENTORY PIT > 0.02 USING J.D. SELL MASK PIT OUTLINE
/Au / GOLD MODEL WITH ZERO STOPE VALUES

COORDINATE LIMITS OF SUMMARY

	MAX	MIN
NORTH	102000	99020
EAST	50700	48400

CUTOFF GRADES:		0.010 TO 0.015 OZ AU			0.015 TO 0.020 OZ AU			GT 0.020 OZ AU			GT 0.010 OZ AU			
BENCH	WASTE	M TONS	OZ AU	OZ AG	M TONS	OZ AU	OZ AG	M TONS	OZ AU	OZ AG	M TONS	OZ AU	OZ AG	STRIP
5100	7	0	0.013	0.000	0	0.019	0.000	4	0.030	0.000	5	0.028	0.000	1.35
5080	45	11	0.011	0.000	5	0.018	0.000	28	0.046	0.000	45	0.034	0.000	1.00
5060	96	34	0.012	0.000	17	0.017	0.000	55	0.058	0.000	106	0.037	0.000	0.90
5040	176	52	0.012	0.000	33	0.018	0.000	69	0.051	0.000	155	0.031	0.000	1.14
5020	249	62	0.012	0.000	48	0.018	0.000	86	0.044	0.000	196	0.028	0.000	1.27
5000	320	79	0.012	0.000	66	0.016	0.000	97	0.045	0.000	242	0.026	0.000	1.32
4980	388	96	0.012	0.000	68	0.016	0.000	121	0.038	0.000	286	0.024	0.000	1.35
4960	467	106	0.012	0.000	80	0.016	0.000	132	0.038	0.000	318	0.024	0.000	1.47
4940	552	110	0.012	0.000	79	0.017	0.000	149	0.035	0.000	339	0.023	0.000	1.63
4920	654	111	0.012	0.000	76	0.017	0.000	154	0.044	0.000	343	0.027	0.000	1.91
4900	785	86	0.012	0.000	65	0.017	0.000	167	0.049	0.000	318	0.033	0.000	2.47
4880	894	91	0.012	0.000	53	0.016	0.000	158	0.053	0.000	303	0.034	0.000	2.94
4860	1003	88	0.012	0.000	54	0.016	0.000	163	0.055	0.000	306	0.035	0.000	3.28
4840	1014	82	0.012	0.000	56	0.016	0.000	153	0.056	0.000	292	0.036	0.000	3.47
4820	964	72	0.012	0.000	53	0.016	0.000	173	0.058	0.000	299	0.039	0.000	3.22
4800	876	78	0.012	0.000	50	0.017	0.000	192	0.055	0.000	321	0.039	0.000	2.73
4780	825	61	0.012	0.000	36	0.018	0.000	199	0.049	0.000	296	0.037	0.000	2.78
4760	770	58	0.012	0.000	42	0.018	0.000	202	0.041	0.000	303	0.032	0.000	2.54
4740	711	47	0.012	0.000	50	0.017	0.000	206	0.043	0.000	304	0.034	0.000	2.34
4720	593	50	0.012	0.000	41	0.017	0.000	211	0.045	0.000	303	0.036	0.000	1.96
4700	473	49	0.012	0.000	35	0.017	0.000	186	0.040	0.000	271	0.032	0.000	1.74
4680	328	40	0.012	0.000	21	0.017	0.000	183	0.038	0.000	246	0.032	0.000	1.33
4660	178	22	0.012	0.000	19	0.017	0.000	198	0.042	0.000	240	0.037	0.000	0.74
4640	91	5	0.011	0.000	16	0.017	0.000	154	0.042	0.000	176	0.039	0.000	0.52
4620	44	1	0.014	0.000	7	0.017	0.000	78	0.042	0.000	86	0.039	0.000	0.51
4600	14	0	0.014	0.000	1	0.017	0.000	19	0.028	0.000	20	0.027	0.000	0.70
4580	0	1	0.010	0.000	0	0.017	0.000	1	0.023	0.000	3	0.017	0.000	0.00
TOTAL	12531	1503	0.012	0.000	1083	0.017	0.000	3549	0.046	0.000	6136	0.032	0.000	2.04

YARNELL PROJECT
26-JAN-90 11:15:47 MST
ALL TONNAGES ARE *1000
20 FOOT BLOCK-MINERALIZATION MODEL

UPPER TOPO ID /1001/ INITIAL YARNELL BLOCK TOPOGRAPHY
LOWER TOPO ID /1722/ $464, 50 DEG. SLOPE, 2", >WASTE, density 12.0, 72% RECOVERY (0.051 stope model)

COORDINATE LIMITS OF SUMMARY

	MAX	MIN
NORTH	102000	99020
EAST	50700	48400

CUTOFF GRADES:		0.010 TO 0.015 OZ AU			0.015 TO 0.020 OZ AU			GT 0.020 OZ AU			GT 0.010 OZ AU			
BENCH	WASTE	M TONS	OZ AU	OZ AG	M TONS	OZ AU	OZ AG	M TONS	OZ AU	OZ AG	M TONS	OZ AU	OZ AG	STRIP
5100	8	1	0.011	0.000	0	0.000	0.000	3	0.084	0.000	5	0.059	0.000	1.63
5080	38	11	0.011	0.000	2	0.017	0.000	45	0.061	0.000	59	0.049	0.000	0.65
5060	91	35	0.012	0.000	17	0.017	0.000	82	0.072	0.000	135	0.049	0.000	0.67
5040	170	49	0.012	0.000	33	0.018	0.000	102	0.065	0.000	185	0.042	0.000	0.92
5020	228	56	0.012	0.000	44	0.017	0.000	127	0.050	0.000	228	0.034	0.000	1.00
5000	271	73	0.012	0.000	71	0.016	0.000	136	0.045	0.000	280	0.029	0.000	0.97
4980	325	88	0.012	0.000	78	0.016	0.000	148	0.043	0.000	315	0.028	0.000	1.03
4960	413	85	0.012	0.000	91	0.016	0.000	150	0.045	0.000	326	0.028	0.000	1.27
4940	479	87	0.012	0.000	77	0.016	0.000	179	0.049	0.000	344	0.032	0.000	1.39
4920	545	82	0.012	0.000	51	0.017	0.000	186	0.057	0.000	320	0.039	0.000	1.70
4900	571	68	0.012	0.000	43	0.017	0.000	187	0.052	0.000	300	0.038	0.000	1.90
4880	565	54	0.012	0.000	38	0.016	0.000	200	0.049	0.000	293	0.038	0.000	1.93
4860	573	47	0.012	0.000	34	0.016	0.000	205	0.056	0.000	287	0.044	0.000	1.99
4840	537	38	0.011	0.000	34	0.016	0.000	212	0.056	0.000	285	0.045	0.000	1.89
4820	475	43	0.011	0.000	35	0.016	0.000	220	0.058	0.000	299	0.046	0.000	1.59
4800	414	45	0.012	0.000	22	0.018	0.000	233	0.052	0.000	301	0.043	0.000	1.37
4780	371	29	0.012	0.000	20	0.018	0.000	220	0.050	0.000	270	0.043	0.000	1.38
4760	301	28	0.012	0.000	30	0.017	0.000	212	0.048	0.000	271	0.040	0.000	1.11
4740	212	25	0.012	0.000	30	0.017	0.000	231	0.050	0.000	287	0.043	0.000	0.74
4720	137	15	0.012	0.000	21	0.017	0.000	211	0.053	0.000	248	0.047	0.000	0.55
4700	75	8	0.012	0.000	14	0.018	0.000	151	0.054	0.000	174	0.049	0.000	0.43
4680	32	5	0.012	0.000	1	0.016	0.000	81	0.050	0.000	87	0.048	0.000	0.36
4660	3	0	0.000	0.000	1	0.018	0.000	37	0.060	0.000	38	0.059	0.000	0.08
4640	0	0	0.000	0.000	0	0.000	0.000	9	0.056	0.000	9	0.056	0.000	0.00
TOTAL	6844	982	0.012	0.000	798	0.017	0.000	3577	0.052	0.000	5358	0.040	0.000	1.28

1-26-90 maps to follow.

JDS

ASARCO

Southwestern Mining Department

January 29, 1990

MEMORANDUM

TO: T. E. Scartaccini

FROM: S. L. Lakosky

RE: Yarnell Project Activity Chart - January, 1990

Attached is the Yarnell Project Activity Chart showing progress thru January, 1990.

AGREEMENTS

The agreement between Norgold Resources (US) Inc. and ASARCO Incorporated dated January 30, 1989, and the letter agreement between Norgold, Asarco and Western Building and Mining Company dated January 9, 1990, were fully executed by all parties effective January 9, 1990.

ASARCO/NORGOLD MEETING

On January 22, 1990, a meeting was held at the Yarnell Project site area. In attendance were: F. T. Graybeal, S. A. Anzalone, J. D. Sell, M. A. Miller, J. D. Rasmussen and S. L. Lakosky of ASARCO Incorporated; and C. S. Moat, P. W.McCleery, M. D.Philpot, T. C. Page and D. Shaw of Norgold, Inc.

The meeting centered around a geologic discussion of the Yarnell deposit. The general consensus was that the only undrilled portion of the deposit which might possibly yield a limited amount of ore grade mineralization is immediately southwest of the drilled area.

It was decided that Asarco's Exploration Department would make the determination whether or not additional drilling would take place.

The Norgold personnel wanted to discuss Asarco's feasibility study. Norgold was informed that while we feel the metallurgy of this ore will require two stage crushing to -1 1/2 inches to yield an estimated recovery of 72 percent, our evaluation is still in the preliminary stage and there will be no discussion of our feasibility study until it is finalized and delivered to Norgold.

METALLURGY

Final metallurgical results from three (3) recently completed column tests of Yarnell ore grade material yielded maximum recovery rates of 52.2 percent for -6" crushed material, 70.6 percent for -2" crushed material and 76.4 percent for -3/8" crushed material. An ongoing leach test of low grade material (approximately 0.010 Opt Au) has shown an indicated overall recovery rate of only 25 to 30 percent. Based primarily on the above mentioned recovery rates, Yarnell is being evaluated as a deposit which will require two stage crushing to - 1 1/2 inches and yield an yield an estimated recovery of 72%.

PROCESS

The proposed Yarnell Project is an open pit-heap leach operation which will mine, crush, place and leach gold ore at the rate of 2,000 tons per day.

Ore and waste mining as well as coarse ore crushing will all be performed by a contractor who must supply all of the equipment, facilities and supplies necessary to complete those operations.

Asarco personnel will fine crush (to - 1 1/2 inches), agglomerate and stack ore on the heap, leach that material with cyanide solution, collect the pregnant solution and recover the gold in the adsorption, desorption and refining (ADR) building. Gold will be recovered using an activated carbon process. The adsorbed gold will then be stripped, electrowon, filtered and refined in an on-site induction furnace. The resulting gold bullion will then be shipped to a refinery for final upgrading.

INTERMEDIATE FEASIBILITY STUDY

Preliminary results from the intermediate feasibility study, which is nearing completion, indicate the following:

YARNELL PROJECT (100% basis)

Gold Price ($/oz)	450	425	400	375	350
Ore Tons (000's)	3,425	3,003	2,661	1,395	1,235
Waste Tons (000's)	6,841	5,726	5,808	3,138	2,690
Ore Grade (Oz/Ton)	0.046	0.048	0.052	0.065	0.067
Cutoff Grade (Oz/Ton)	0.017	0.018	0.020	0.021	0.022
Strip Ratio	2.00:1	1.91:1	2.18:1	2.25:1	2.18:1
Mine Life (Yrs)	4.8	4.2	3.7	1.9	1.7
Recoverable Ounces	114,025	104,308	100,185	65,502	59,714

ASARCO AT 51% OF J/V

Total Estimated Capital ($'000's)	14,805	14,470	14,194	13,198	12,930
After Tax Cash Flow ($'000's)	2,009	833	376	(804)	(1,394)
DCFROI %	9.7	4.6	2.3	(8.2)	(15.1)

S. L. Lakosky
S. L. Lakosky
Yarnell Project Manager

SLL/kh

cc: RJKupsch -w/attach.
RLBrown -" "
WLKurtz -" "
JDSell -" "
DECrowell -" "

YARNELL PROJECT ACTIVITY CHART

PROGRESS THRU JAN 1991

1989 OCT NOV DEC 1990 JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC 1991 JAN FEB MAR APR MAY

EXPLORATION DEPARTMENT

FINALIZE LAND POSITION
PRODUCE DETAILED PROPERTY MAPS
PRODUCE DETAILED TOPOGRAPHIC MAPS
FINALIZE NORGOLD AGREEMENTS
COMPLETE EXPLORATION DRILLING
ESTIMATE ORE REMOVED BY PREVIOUS U. G. MINING
SAMPLE AND ASSAY TAILINGS MATERIAL

MINERAL BENEFICIATION DEPARTMENT

INITIAL COLUMN AND MISC. METALLURGICAL TESTING
INTERMEDIATE COLUMN AND MISC. METALLURGICAL TESTING
FINAL COLUMN AND MISC. METALLURGICAL TESTING
REFINE INITIAL CAPITAL AND OPERATING COST ESTIMATES
PRE-FEASIBILITY CONSULTING
M.B.D. FINAL PROCESS RECOMMENDATIONS AND COST ESTIMATES

S.W.M.D. COMPUTER RESOURCES

ORE RESERVES (96 HOLES)
MINE SCHEDULING

S.W. MINING DEPARTMENT

DEVELOP DETAILED PLAN OF OPERATION FOR MINING AND LEACHING
COMPLETE INTERMEDIATE FEASIBILITY STUDY
DEVELOP COST ESTIMATES FOR FRESH WATER SYSTEM
INVESTIGATE ALTERNATIVE WATER SUPPLY SOURCES
INVESTIGATE ELECTRIC POWER SUPPLY SOURCE
SECURE ESTIMATES FOR CONTRACT MINING, CRUSHING, PLACEMENT
DEVELOP DETAILED CAPITAL AND OPERATING COST ESTIMATES
COMPLETE FINAL FEASIBILITY STUDY

PERMITTING

AQUIFER PROTECTION PERMIT (A.P.P.)
B.L.M. PLAN OF OPERATION (PRELIMINARY)
B.L.M. PLAN OF OPERATION (DETAILED)
AIR QUALITY PERMIT (INSTALLATION)
AIR QUALITY PERMIT (OPERATION)

POST - FEASIBILITY

RELOCATE MICROWAVE TOWERS
EXERCISE OPTION TO PURCHASE TWO PRIVATE HOMES
HYDROGEOLOGIC CHARACTERIZATION (DETAILED)
DETAILED ENGINEERING DESIGNS AND DRAWINGS
SPECIFICATIONS AND BID PACKAGES
INITIATE WATER SUPPLY SPECIFICATIONS DOCUMENTS
DEVELOP EXPLORATORY WATER WELLS (IF NECESSARY)
INSTALL WATER SUPPLY PUMPS, TANKS, AND LINES
INITIATE ELECTRIC POWER SUPPLY SPECIFICATIONS DOCUMENTS
INSTALL ELECTRIC POWER SUPPLY LINES, TRANSFORMERS, ETC.
SITE PREP (ROADS, BLDGS, FENCES, ETC.)
BUILDINGS INSTALLED
SITE PREP (PADS AND PONDS)
PAD AND POND CONSTRUCTION
CRUSHING FACILITIES INSTALLED
COMMENCEMENT OF MINING
RECOVERY PLANT INSTALLED
INITIAL ORE CRUSHING AND PLACEMENT
COMMERCIAL PRODUCTION

>>>

SCHEDULED
COMPLETED

JDS

ASARCO

Exploration Department
Southwestern United States Division

James D. Sell
Manager

January 31, 1990

Met-Con Research Inc.
1844 West Grant Road
Suite 106
Tucson, AZ 85746

YM- Series
Bottle Roll CN
Yavapai Co., AZ

Dear Sir:

Asarco SWED will soon have prepared twenty-four samples, YM- Series, which we want individual preliminary cyanide bottle roll leach tests for gold recovery.

The samples will be submitted to Skyline for crushing to 10 mesh and they will split out a duplicate split for a head assay with fire assay gold and silver values for each sample.

In speaking with Eugenio Iasillo today, we agreed that Met-Con will conduct a 72-hour test, and that we do not need intermediate gold-silver values, but only after the 72-hour leach.

Met-Con had previously run limited tests on similar material from this deposit under your EI-039-89 report of 24 May 1989. Procedure for the present tests will be the same, except we do not need the 24 hour and 48 hour gold-silver assay values.

A tentative list of sample is attached.

The samples should be submitted to and prepared by Skyline by the week of February 12, 1990. At that time a final list showing the sample designation, footage, and sample weight will be sent to both Skyline and Met-Con.

Please contact Asarco should you have any further questions.

Sincerely,

James D. Sell

James D. Sell

JDS:mek
Att.

ASARCO Incorporated P. O. Box 5747 Tucson, Az 85703-0747
1150 North 7th Avenue (602) 792-3010

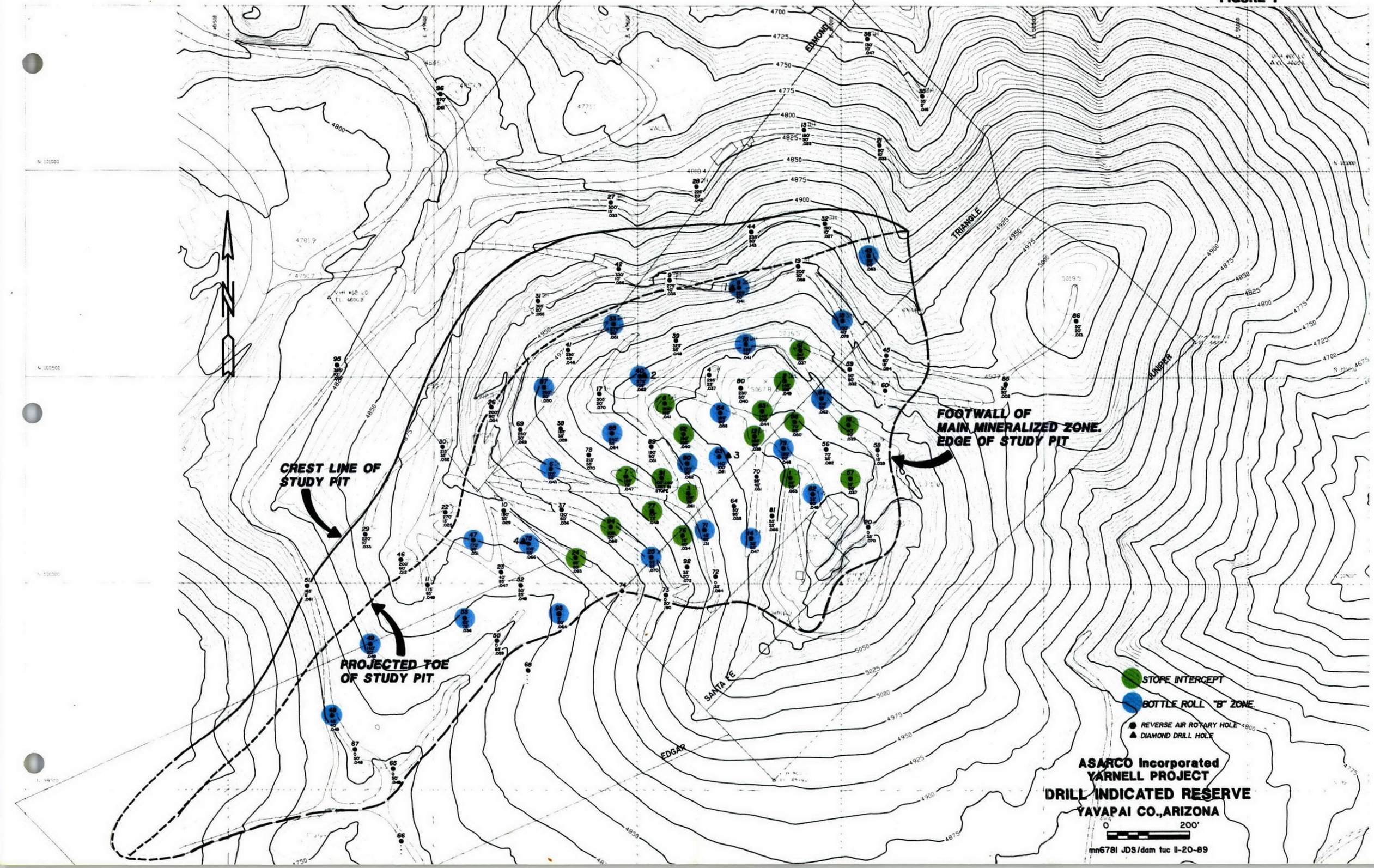
cc: R.L.Brown/F.T.Graybeal
W.L. Kurtz
D.E. Crowell
J.J. Malusa
Skyline Labs

ATTACHMENT A

Bottle Roll Test Samples (Tentative)

Sample No
YM-6
YM-8
YM-14
YM-15
YM-18
YM-25
YM-33
YM-40
YM-43
YM-47
YM-48
YM-49
YM-53
YM-54
YM-63
YM-71
YM-75
YM-79
YM-82
YM-84
YM-87
YM-88
YM-90
YM-93

FIGURE 1


FOOTWALL OF
MAIN MINERALIZED ZONE.
EDGE OF STUDY PIT
CREST LINE OF
STUDY PIT
PROJECTED TOE
OF STUDY PIT
EDMOND
TRIANGLE
JUNIPER
SANTA FE
EDGAR
STOPE INTERCEPT
BOTTLE ROLL "B" ZONE
REVERSE AIR ROTARY HOLE
DIAMOND DRILL HOLE
ASARCO Incorporated
YARNELL PROJECT
DRILL INDICATED RESERVE
YAVAPAI CO.,ARIZONA
0
200'
mn6781 JDS/dam tuc 11-20-89

Met-Con Research Inc
1844 West Grant Road
Suite 100
Tucson, AZ 85745
ph. 602 / 623-1327

Sol
Mano
1-31-90
need map for ASARCO Peoples. Don'n Jenkins
Eugenio Casillo

Preliminary Cyanide Leach Tests, Bottle Roll
~~24 hr. solution~~ 72 hr. straight no need for cessay line CN
Crushed to 10 mesh.
Duplicate head assay.

Shayline

YM-hole, footage.

43

20

90

ASARCO

Southwestern Exploration Division

JDS

February 5, 1990

R.L. Brown/ F.T. Graybeal
W.L. Kurtz
D.E. Crowell

YM- Series
Bottle Roll CN
Yavapai Co., AZ

Please attach this map to my letter to Met-Con Research Inc., dated January 31, 1990, subject above.

James D. Sell

JDS:mek

James D. Sell

9:55 am

Sell

Call Moat Phoenix

840 - 7713

① Wants to know about data package. Now wants it FedEx to Phoenix (Fedex office at Thomas Rd)
3340 E Thomas Rd
Ph. 85088
Tel 254-4662

M.C. Hood at 840-7713

② Taking investor from Reno to property tomorrow. Wants to know

1) anybody up there

2) Is key there so they can get in house

(If we have no one there are there things in house he should not see?)

N/A 1 2 sets Assay sections

✓ 2 Trench plan & assays

✓ 3. Diamond drillhole assays

4. Computer Tin -

✓ 5 Grid maps

On top of mitten box

Steve Keehner

ph. 427/3595

Moat

1. 2 Sets assay section 5'

Done — 2 Trench assay from NE lands.

Done — 3. Ulmaind drill hole assay

Done — 4. Comparitive assay report. (Table)

Done Partially 5. 2 Copies of geol map. asap. black + white.

Federal Express as soon as possible.

ASARCO Southwestern Exploration Division

JDS

January 31, 1990

FILE NOTE

Yarnell Material
To C. Moat (Norgold)

On 1-31-90, the following packet of material requested by C. Moat of Norgold was sent by Federal Express to:

Federal Express Office
3340 E. Thomas Road
Phoenix, AZ 85088

Phone: 602-254-4662

with instructions to call Mr. Moat in Phoenix at 602-840-7713 for pickup by Friday AM.

a) 2 copies of Geologic Map Mn6780 (one colored, other black & white)

b) Report of Jan. 10, 1990, (MAM to JDS) 4 pages - Assay Comparison Diamond Drill (YDDH-1) vs. Rotary Hole (YM-8) with all assays including check samples.

c) Preliminary section from MAM's forth coming report -- Trench Y-117 assays, cross-sections, and map showing location.

d) The request by C. Moat for cross-sections could not be printed in time, and as Norgold has their assay cross-sections, this portion of the request was not filled.

e) Steve Keehner (phone: 602-427-3595) has the key to the house and Mr. Moat was requested to contact Steve for entry.

James D. Sell

JDS:mek

James D. Sell

cc: W.L. Kurtz
M.A. Miller

ASARCO

Southwestern Exploration Division

January 10, 1990

J.D. Sell

Assay Comparison
Diamond Drill vs. Rotary Hole
Yarnell Project
Yavapai County, Arizona

Assay results have been received for YDDH-1 diamond drill hole. This hole was a twin to RC Hole YM-8. Comparisons of the assay intervals are as follows (Comparisons, Assay for Assay, are tabulated and attached).

	YM-8		YDDH-1	
A Zone	30-225'	.022	30-225'	.026
B Zone	225-275'	.041	225-275'	.041

While there are variations within individual assay intervals, the averages of the intervals are nearly identical, suggesting that there is negligible difference in gold recovery in diamond drilling vs. reverse drilling in the Yarnell Deposit. Variations in individual assays (attached) can be explained by lag of sample up the drill pipe or some cross contamination between samples. The High Grade Zone seen in YM-8 and from 34-40' was broken into 1' intervals in YDDH-1. Results are as follows:

YM-8		YDDH-1		
35-40'	.212	35-36'	.012	
40-45'	.015	36-37'	.034	
45-50'	.02	37-38'	.134	.096
		38-39'	.108	
		39-40'	.195	
		40-45'	.108	
		45-50'	.125	

The interval 40-50' in YDDH-1 at .116 opt Au does not agree with 40-50' in YM-8 at .017 opt Au. This may represent a nugget effect within the High Grade Zone or a lag of sample between 40-50' with the reverse circulation.

RC hole YM-8 rejects were used as standard checks on the assays. The results are tabulated (attached) with check vs. original assays.

Overall, there is good correlation with Core vs. Reverse Circulation Drilling results.

Mark A. Miller / mek

Mark A. Miller

MAM:mek
Att.

YARNELL PROJECT

REVERSE CIRCULATION/DIAMOND DRILL COMPARISON

Interval	RC Hole YM-8	Diamond Drill YDDH-1
5-10	.003	.006
10-15	.027	.003
15-20	.002	.008
17-19		
20-25	.008	.001
25-30	.004	.004
30-35	.037	.001
35-36		.012
36-37		.034
37-38		.134
37-39		
38-39		.108
39-40		.195
40-45	.015	.108
45-50	.02	.125
50-55	.044	.015
57-59		
55-60	.01	.003
60-65	.004	.002
65-70	.023	.015
70-75	.01	.01
77-79		
75-80	.037	.019
80-85	.018	.008
85-90	.011	.012
90-95	.012	.013
97-99		
95-100	.015	.002
100-105	.004	.001
105-110	.01	.006
110-115	.001	.001
115-120	.033	.039
117-119		
120-125	.005	.05
125-130	.01	.004
130-135	No Sample	
135-140	.017	.013
137-139		
140-145	.004	.02
145-150	.004	.011
150-155	.02	.01
155-160	.043	.021
157-159		

YM-8 Check Assays		
Interval	Check Assay 1/4/90	Original 4/4/89
15-20	.009	.002
35-40	.075	.212
55-60	.003	.01
75-80	.018	.037
95-100	.006	.015
115-120	.014	.033
135-140	.011	.017
155-160	.033	.043

YARNELL PROJECT

REVERSE CIRCULATION/DIAMOND DRILL

COMPARISON

Interval	RC Hole YM-8	Diamond Drill YDDH-1
160-165	.008	.058
165-170	.047	.016
170-175	.014	.017
177-179		
175-180	.016	.008
180-185	.029	.026
185-190	.004	.019
190-195	.009	.017
197-199		
200-205	.012	.013
205-210	.005	.029
210-215	.019	.061
217-219		
215-220	.01	.02
220-225	.004	.017
225-230	.047	.043
227-229		
230-235	.044	.013
235-240	.029	.003
237-239		
240-245	.018	.016
242-244		
245-250	.013	.009
247-249		
250-255	.048	.065
252-254		
255-260	.087	.079
257-259		
260-265	.063	.153
262-264		
265-270	.023	.012
267-269		
270-275	.037	.019
272-274		

YM-8 Check Assays		
Interval	Check Assay 1/4/90	Original 4/4/89
175-180	.021	.016
195-200	.018	.019
215-220	.017	.01
225-230	.056	.047
235-240	.024	.029
240-245	.017	.018
245-250	.009	.013
250-255	.056	.048
255-260	.111	.087
260-265	.084	.063
265-270	.023	.023
270-275	.028	.037

BULK
ASSAY
REPORT

TRIAD MINERALS CO.
ASSAYING & CONSULTING
P.O. Box 2754 • Mile Post 115, Hwy. 89
Wickenburg, Arizona 85358
602-684-3816

DATE 1-12-90

ASARCO Incorporated

JAN 12 1990

COMPANY ASARCO LAB #010990-1

REFIRE

PAGE 1

SW exploration

Sample Description	Ounces per ton AU (gold)	AG (silver)	Remarks
YDDH-1 40-45	.122		
YDDH-1 45-50	.119		
YDDH-1 130-135	.016		

Certified Assays When Signed And Dated

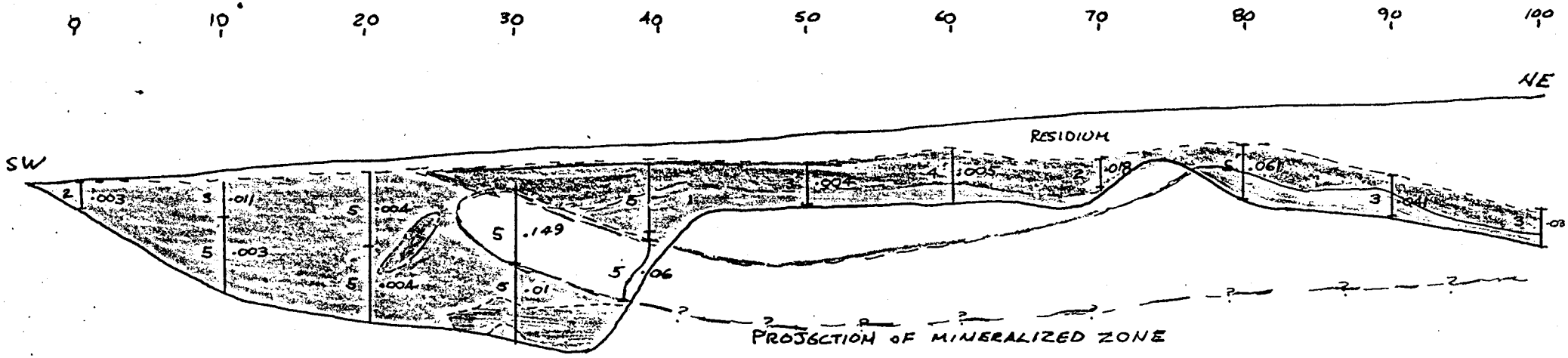
1-12-90 [signature]
DATE SIGNATURE

TRENCH Y-117

Trench Footage		Assay Value (in opt Au)
0	0-2'	.003
10	0-2'	.011
	2-7'	.003
20	0-5'	.009
	5-10'	.004
30	0-5'	.149
	5-10'	.01
40	0-5'	.021
	5-10'	.06
50	0-3'	.004
60	0-3'	.005
70	0-3'	.018
80	0-5'	.061
90	0-3'	.041
100	0-3'	.035

NOTE: "0" starts at top of sampling, not top of trench (see attached section)

TRENCH Y-117 LOOKING NW



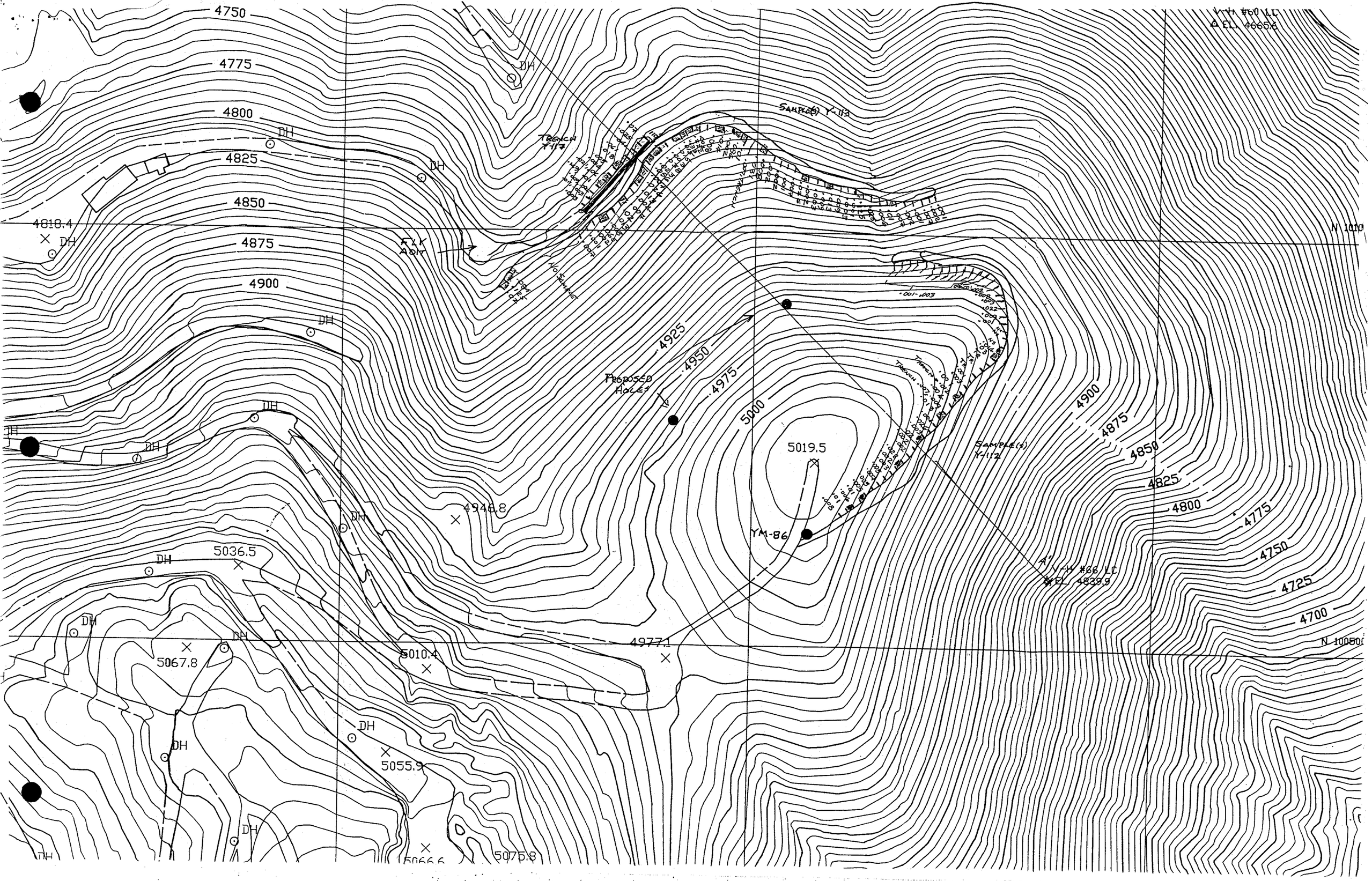
CHLORITIC/PROPYLITIC LOOKS LIKE FOOTHILL TYPE ROCKS. → STRONGLY SILICEOUS → RED HM PATCHES W/IN OUTLINED ZONES > 50% → SPECULARITE VNLTS SERICITIC QZ VNLTS N50°E 85°NW (MAJOR STRUCTURE

STRONGLY SER. POSS. OVERPRINTED POTASSIC ADDITION QZ VNLTS LIM VNLTS.

RED HM PATCHES STRONGLY SILICEOUS + STRONG SERICITIC ALTERATION

PATCHES OF RED HM BOTTOM TRENCH 1' %

1" = 10'


4750
4775
4800
4825
4850
4875
4900
4925
4950
4975
5000
5019.5
4818.4
DH
TRENCH Y-117
SAMPLE(S) Y-113
FLY ASH
NO SAMPLE
PROPOSED HOLES
4946.8
YM-86
5036.5
5067.8
5010.4
4977.1
5055.9
5066.6
5075.8
SAMPLE(S) Y-112
YM-H #66 LC
ELL 4839.9
YM-H #60 LC
ELL 4665.6
N 1010
N 10050

ASARCO

Exploration Department
Western USA

JDS

January 31, 1990

F.T. Graybeal

Heap Leach Capital Costs

Per your instruction I have compiled heap leach capital costs for 24 mines put into production during 1986-1989. The attached table uses data from the Metals Economic Group publication: Planning for North American Gold Acquisitions the 1989 Update.

Though I do not have data on the details of capital costs, most of the smaller operations contract some or all of the mining, crushing and agglomerating.

The smallest deposit included in the table is Standard Hill at 500,000 tons reserve and the largest Mesquite with 56 million tons reserve.

Capital cost divided by tons per day of ore:

High $4,000 Low $980 Arithmetic average $2200

Capital cost divided by Tons of Reserve:

High $5.40 Low $.40 Arithmetic average $1.95

Capital cost divided by contained ounces:

High $122.00 Low $9.95 Arithmetic average $46.28

Current reserves and capital cost estimates place Yarnell on the high side:

2,500,000 tons @ .055 and $14 capital:

$7,000 per daily ton at 2,000 tpd; $3,500 at 4,000 tpd

$5.60 (capital ÷ tons reserve)

$101.82 (capital ÷ contained ounces)

4,100,000 tons @ .051 and 14 million capital:

$7,000 per daily ton at 2,000 tpd; $3,500 at 4,000 tpd

$3.41 (capital ÷ tons reserve)

$66.95 (capital ÷ contained ounces)

If we use a capital cost of $8 million then:

2,500,000 reserve @ 4,000 tpd:	$2,000 per daily ton
	$3.20 (capital ÷ reserve)
	58.18 (capital ÷ contained oz.)
4,100,000 reserve @ 4,000 tpd:	$2,000 per daily ton
	$1.95 (capital ÷ reserve)
	38.26 (capital ÷ contained oz.)

/s/

WLK:mek

W. L. Kurtz

cc: J.D. Sell

HEAP LEACH CAPITAL COSTS

Project Owner	Year Prod.	%Rec.	Tons $X10^6$	Grade	Contained Ounces	TPD	Capital $\$X10^6$	Capital ÷ TPD	Capital ÷ Tons	Capital ÷ Cont.oz.
Standard Hill Billiton	87	72	.5	.041	22,140	2,000	2.7	1350	5.40	122
Toiyabe Inland	87	70	.8	.066	53,684		3.2		4.00	59.60
Green Springs USMX	88	78	.9	.06	51,000	2,000	4.2	2100	4.66	82.35
Illipah Alta	87		1.0	.033	34,980	2,350	2.3	980	2.30	65.75
Aurora Minerex	87	70	1.4	.092	128,800	1,120	3.0	2700	2.14	23.29
White Pine US Gold	88	85	1.5	.041	61,500	1,100	2.0	1800	1.33	32.52
Champagne Bema	89	75	2.4	.029	69,600	1,700?	3.2	1900	1.33	45.98
Tuscarora Chevron	87	70	2.5	.039	97,500	1,750	1.8	1000	.72	18.46
Golden Butte Alta	89	65	2.8	.03	83,130	3,475	8.25	2400	2.94	99.24
Bald Mtn. Placer Dome	86	70	3.2	.053	169,600	2,800?	11.0	3900	3.43	64.86
Richmond Hill Bond	88	78	3.8	.053	205,640	4,000	11.0	2750	2.89	53.49
Goldstrike Tenneco	89	77	4.5	.04	180,000	2,950	7.6	2600	1.69	42.22
Mother Lode GEXA	89	70	4.9	.054	264,600	2,500	4.0	1600	.82	15.17
Brewer Westmont	87	85	5.7	.036	205,200	5,000	12.0	2400	2.10	58.48

W.L.K.
2/1/90

HEAP LEACH CAPITAL COSTS

Project Owner	Year Prod.	%Rec.	Tons $X10^6$	Grade	Contained Ounces	TPD	Capital $\$X10^6$	Capital ÷ TPD	Capital ÷Tons	Capital÷ Cont.oz.
Cactus Coca	86	76	7.3	.037	271,247	4,285	15.6	3600	2.14	57.51
Santa Fe Corona	88	70	7.6	.037	281,156	6,000	10.5	1750	1.38	37.34
Beal Pegasus	89	65	11.1	.046	512,624	6,000	13.2	2200	1.19	25.75
Pauper's Dream Pangea	88	80	13.6	.039	532,685	4,100	5.3	1300	.40	9.94
Wind Mtn. Amax	89	70	15.0	.021	315,000		17.5		1.16	55.55
Carson Hill Grandview	87	70	16.1	.046	740,600	7,500	13.5	1800	.84	18.23
Crowfoot Granges	88	61	21.0	.028	588,000	12,500	29.0	2320	1.38	49.32
Annie/Foley Wharf	86	70	25.0	.037	935,656	7,000	19.4	2800	.78	20.73
Florida Canyon Pegasus	86	70	34.0	.022	748,000	11,275	13.5	1200	.40	18.05
Mesquite Goldfields	86	83	56.0	.041	2,296,000	~~29,000~~ 20,000	80.0	4000	1.43	34.84

W.L.K.
2/1/90

2/5/90

FROM: W. L. KURTZ

TO: FTG Heapleach

Table sent Jan 31, 1990
last item Mesquite
should be 20,000 tpd.

cc JDS

JDS

ASARCO

Southwestern Exploration Division

January 31, 1990

J.D. Sell

Splitting Suggestions
Yarnell Project

As discussed, we will be sawing the remaining core holes for check assay. In order to quantify the high grade "spikes" seen in the A-zone the following splits are suggested together with 5' splits to conform with the twinned R.C. hole assays.

YM-40	Y-DDH-2	75-80'(5' @ .088). Split each foot 75-80' split 310-315' (visible gold in YFZ) in 1' intervals.	split, saw, 265-390
YM-63	Y-DDH-3	10-15'(5' @ .057). Split every foot 10-15'	130-250
YM-75	Y-DDH-4	Split 75-90' in 1' intervals (visible gold).	65-180

The core will be assayed by Triad Minerals. Rejects from the corresponding R.C. hole will be used as check assays as was done in Y-DDH-1.

MAM:mek

Mark A. Miller
Project Geologist

DIAMOND DRILL RECORD

HOLE NO. YDDH-2

Coord. _____ N _____ E Elev. _____ PROPERTY YARNELL

Bearing _____ Inclination _____ Depth _____ LOCATION TWIN TO YM-40

Started _____ Completed _____ Notes by M. MILLER Scale 1" = 10' Sheet 1 of 4

DEPTH	% REC	ROCK TYPE	ALTERATION	MINERALIZATION	CORE ASSAYS
0		0-3' CASING - BIOTITE GRANITE M/CRS GRN'D. 5-8% BIOTITE LOC AS CLOTS TO 2-3mm IN SIZE.	NO RECOVERY. WK → MOD (W DEPTH) GRAGGAISH FELDSPARS - SERICITIC?	ABU OXIDIZED FRACTS + CORE BREAKS - PROB SURFACE OXIDATION. DIPS RANGE FROM 50-70° ON CORE BREAKS.	.007
				20	
				60	.002
10		- BREAKER ZONE. - BROKEN ZONE	INCREASING RED ALT ASS W/ BIOTITE	BROKEN ZONE W/ WK OXIDATION ALONG FRACTS	.003
				THIN 1/16" QZ VEINS → 60 70 30	.002
20				SLT LIMONITIC FRACTURED W 1/4" TK. 46 BROKEN + FRACT. MINOR LIM -	
				TIGHT FRACT W/ MINOR QZ - 40	.01
	40		< 1/2% OVERALL	TIGHT GOUGE ZONE? 60	
				1/16" LIMONITIC MUD ZONE? POSS. FAULT?	.009
30		AS ABOVE BUT INC IN BIOTITE 10% +	INC IN RED ALT - (HEMATITE REPLACEMENT)	FRACTURED - TR LIMONITE 35	30
				TR Py/LIM CLOSED - 60-70°	.003
			KSPAR XLS - SERICITE ON RIMS BEHIND LGRS ALT → INTERIOR.	CORE BREAKS - V. MINOR LIMONITE	.002
40		- BREAKER ZONE.			40
				LIMONITIC FRACTURE 50	.013
				MUD + LIMONITE AS GLAZED ON FRACT	
				Py/LIM CUBES - LITTLE RED HEMAT FRACT.	.002
50		DEC IN BIOTITE < 3% TRANSITION ZONE	INC IN HEM REPLACEMENT @ PROBTOS; INC IN SERICITE		50
			HEM REPLACEMENT ~ 3% SILICA FLOODING POSS. POTASSIC ALT - W/IN SILC ZONE	1" QZ VN - M GY IN CORE 70	.004
				4-5 FRACTS/FT. SLT/MOD LIMONITIC	
		1' GOUGE ZONE PROB FAULT.	POSS MUD SILICA FLOODING	1" QZ VEIN - M. GY 50°	.002
60	50			80	60
				POSS GOUGE ZONE →	.021
		H: BIOTITE ZONE 10% + BIOTITE		70	
				RED HEM SPOTTING ON FRACTURE SURFACES. 1" GY QZ VEIN → 70	.004
			GRADUAL CHANGE FROM BIOTITE → CHLORITE	SPOT HEM BEGINNING TO REP BIOTITE. 1/4" GY QZ VEIN →	
70		MOD BREAKER ZONE		70	70
				6-8 FRACTS/FT - LITTLE LIM. 50°	.003
		MOD/STRONG FRACTURE ZN.		1/2" GY QZ VEIN 70	
		3" GOUGE ZONE		3" GY QZ VEIN 70	.189
				FAULT W/ GY QZ VEIN AS SHOWN + 1/2" QZ VEIN. 70 50	
80		PROBFA ZONE GOUGE + GRANULAR RECOVERY.			80
			POTASSIC RIMS AROUND QZ VEINS	QZ VN PSEUDO STOCKWORK PINK POTASSIC RIMS AROUND QZ VEINS ASS. FRACTS W/ LIMONITE	.005
				60-75°	.003
90					90
					.003
			POTASSIC RIMS AS ABOVE	// + SUB // QZ VEINS (GY IN COLOR) ASS LIM W/ QZ VEINS SOME X-CUTTING. 60°	.002
100					100

DIAMOND DRILL RECORD

HOLE NO. Y-001-2

Coord. _____ N _____ E Elev. _____ PROPERTY _____

Bearing _____ Inclination _____ Depth _____ LOCATION _____

Started _____ Completed _____ Notes by _____ Scale _____ Sheet 2 of 4

DEPTH	% REC	A	ROCK TYPE	ALTERATION	B	C	D	E	MINERALIZATION	Graphic Col.	CORE ASSAYS
100			ALTERED GRANITE WITH BIOTITE PROB ALT → CHLORITE SPEC HM. SAME GRAIN SIZE PERSISTS.	CHLORITE → SPEC HM @ FORMER BIOTITES. SERICITE FELDSPARS. SILICA FLOODING					ABUNDANT FRACTURES W/ MINOR LIM. MUD GOUGE ZONE 1' ZONE 60 60 TN GY QZ VEIN BROKEN ZONE HI % SILICA FRACTS		160
110				TR POTASSIC ALT ASSOC W/ GY QZ VNS/VNLTS.					PARALLEL → SUB // QZ VEIN (GY IN COLOR) SOME OK GY QZ VEINING. W/ DISS PY/LIM < ½ % 50		110
									QZ VEINING AS ABOVE W/ POTASSIC? RIMS 6" QZ VEIN GY IN COLOR → DISS SPEC HM @ FORMER BIOTITES 2% +		
120			SILTING IN BIO/CHL.	PROB QZ (SILICA) FLOODING					40 ¼" QZ VEINING (GY) 40 40 20		120
130									MOSTLY HI % FRACTURES LITTLE OXIDATION ON FRACTURES + LIMONITE.		130
140				SILICA FLOODING.					½" GY QZ VNLT → ¼" GY QZ VEIN 20 60 ½" QZ VNL (GY) 40 ½" GY QZ VN → SPEC HM INCLUDED IN QZ 60 20 50 MORE OXIDIZED ZONE BROWN STAINING.		140
				LOC POTASSIC RIMS AROUND QZ VNS.					KNUTTING QZ VNS/VNLTS. 60 QZ VNS W/ INCLUDED SPECULARITE 70 70		
150			MOD/STRONG BROKEN ZONE						BROKEN ZONE - LITTLE LIM/MALTS — 1" QZ VEIN → M. GY IN COLOR		150
160			BROKEN ZONE	POTASSIC RIMS (SELVAGES) AROUND QZ VNS.					1" QZ VEIN 50 AREA OF HI % GY QZ VEINS → 1" THICK. W/ STOCKWORK? 40 1" WHT QZ VEIN ← MINOR PY/LIM - DIS SPEC HM 2% + 20-50° DIPS SEEN		160
170									2' QZ VEIN SPECULARITE ON FRACTS - TRACE CuOx IN SOME VNS - ALSO TR BY IN QZ BOTH WHT + GY QZ IN VEIN. 50		170
									SCATTERED QZ VEINS — → ½" IN THICKNESS. (GY QZ) SOME LIM FILL W/ DISS PY/LIM << ½ % 60-70°		
180			BROKEN ZONE PROB FA W/ GOUGE	SI FLOODING					½" QZ VEIN GY IN COLOR ½ LIMT PY/LIM 45SW/QZ VEINS. ALSO SPECULARITE VEINS/LETS -		180
190			BROKEN ZONE BROKEN CORE	POTASSIC SELVAGES AROUND QZ VEINS					70 60 QZ VEINS. 9-5/FT COL. 1-2 AVE → ½" TK LIM FILLED ½ MICROFRACTS KNUTTING QZ VNS SUB PARL. OCC PY/LIM CUBES USUAL << ½ %		190
200			BROKEN ZONE - PT. GOUGE - FA??						BROKEN - BUT LIM/SPEC FRACTURES 5-7 MAIN FRACTS/FT -		200

DIAMOND DRILL RECORD

HOLE NO. YDDH-2

Coord. _____ N _____ E Elev. _____ PROPERTY YARNELL

Bearing _____ Inclination _____ Depth _____ LOCATION _____

Started _____ Completed _____ Notes by _____ Scale _____ Sheet 3 of 4

DEPTH	% REC	ROCK TYPE (A)	ALTERATION (B C)	MINERALIZATION (D E)	Graphic Col.	CORE ASSAYS
200		Broken Zone Broken Core	Mod Abu Potassic Alt - Seems to Be More Than Selvegas -	Predom. Faults 70°. Hornfels Abu x-cutting Milky Fracts - Some Milky Qz Vn/lts - 8-10 70° Fracts/Ft - Spec on Fracs. Specularite @ Biotite Sites		200
		Broken Zone	Silica Flooding	Broken Zone - Some Gouge Some Qz Vns (Gy) w/ "Earthy" Brn Lim.		.004
210	70 75 70 60	6-8" Gouge + Fault Zone 1" Gouge Zone w/ Lim Mud in Pt		1" Qz Vn 4 (Gy) Pyr Zone in Qz Vn Pt Sheared 3" Gouge Zone As Shown		.015 .003 210
220		Mod/Strong Brecciated Gouge Zone Lim Fract/Fr		Qz Veining - Poss Stockwork 4/ft Milky Qz Vn lts - Also Abu. Lim Vns/Milky Vn/lts - 8-10/ft Py/Lim Cubes 1/4. Open Fracts w/ Lim Fill Some Lim/Qz Veining on Milky Vn/lts		.003 220
				"Earthy" Brn Limonite on Fracts. Pt Open Qz Vein Limonitic Lim/Mud Filling Fract		.013
	65	6" Gouge Zone 228		Hi % Fracts + Cu-70° Fracts - All Limonitic - Some Lim. Milky - Few Qz Vns 1-2 cm/Lim. Mostly Broken Core on Fracts.		.003
230			Abundant Qz (Silica) Flooding Potassic Selvegas? Also Alt of Discrete Feldspar (Pinkish Selvegas)	Gy Qz Veins/Vn lts - Diss Py/Lim 1/2 % 2" Gy Qz Vein. Diss Py/Lim, Cubes → 1/4" Est 2%		.007 230
240			Silica Flooding Prob Due to Amt + Size of Qz Veining.	Pt Open/Limonitic Qz Vein - Specularite/Qz Vn lt Stockwork? Qz Veining. Prom. Potassic? Rims - 1-1 1/2% Py/Lim Cubes Qz/Limonite Vein. Earthy Lim. w/ Py/Lim		.011 .006 240
				"Bleached" Fragment - Poss Breccia → Specularite Vnlts. X-cutting		.003
250				Hi % + Low % Qz Vn'ng Some X-cutting Qz Vns Mod Lim Ass. w/ Qz Vns.		.003 250
			Silica Flooding Related to Qz Veins - Some Potassic Selvegas.	Qz Veining Stockwork Specularite/Qz Vns -		.009
260			Mod Abu. Silica Flooding	1% Py/Lim. Qz/Lim Veins/Vnlts.		.009 260
		Broken Zone Hi Qz Bits on Core	Potassic Selvegas - Around Qz Vns.	1/4 Py/Lim Cubes - Qz/Lim Vns/Lets. X-cutting Qz Vns.		.003
270	30	1/2" Clay/Gouge Zone	Cacanish Alt. Besides Sericite?	Lot Large → 1/2" Py/Lim Cube in Qz Vn.		.005 270
		Broken Zone Poss Fa Zone		Stockwork Qz Veining Both Wht + Gy Qz Vns Strong Wht Postdates Gy - Possible Lot Spec Here Alt 1% Py/Lim w/ Qz. Broken Bit Qz Vns -	Wht	.023
280			Potassic Rims.	Qz/Lim Vns - Stockwork - Near Vnlt Specularite/Qz Vnlt. 2% + Py/Lim Cubes Lim Lines Fracs Than Qz - Lim Vns - 6" Wht Qz Vn - Gy Qz Terminates Against This: Specularite Vnlts - 2% Py/Lim Cubes 6" Wht Qz Vn Some 1/4" in Size - Usually Gy Qz Vns -	Wht	.018 .012 280
290	50 40	Observed Contact		289-91 - Poss Qz Vn - Inclusions of Wall Rock. 291 - Mostly Wht Qz Vns. Overall 10% Oxidation Cube Co 1/4% Py/Lim Cubes Large Cubes → 1/2" Assn/ 6" Qz Zone → Wht Qz Vns My L/Gouge		.129 .026 290
		Appears To Be Silic My L Zone? Fringe of Qz Vn Was Prob Gyp - Lato Wht Qz Vns X-cut. Clay Zone 295' Fault Gouge Dip Rotation	Strong Silica Flooding Poss Wh Potassic Rims.			300

DIAMOND DRILL RECORD

HOLE NO. YDDH-2

Coord. _____ N _____ E Elev. _____ PROPERTY _____

Bearing _____ Inclination _____ Depth _____ LOCATION _____

Started _____ Completed _____ Notes by _____ Scale _____ Sheet 4 of 4

DEPTH	% REC	ROCK TYPE (A)	ALTERATION	B	C	D	MINERALIZATION (E)	Graphic Col.	CORE ASSAYS
300		Contactation of Silic + Gouge Fault Zone	Silica flooding				Minor Qz Vns - Lim on fract. surfaces - Lim/Py cubes - Gouge/fractured Zone.	300	.041
	30	Major silicification	Strong Sea - Silic -				Wht Qz Vein - 70		
		↓ Y'Arnell Fault Zone Contact.					2-3% Py/Lim cubes -		.027
310	70	Varnell Fa. Zone Strong BSD Hm Zone 2 Brecciated	Silicified Mylonite				Varnell Fault Zone - Visible Au on fractures 100% red hematite in Mylonite	310	.177
		Silicic Bx'd Top Strong Gouge Zone Roughly YFZ	Poss/Prob Argillic Alt. w/in Gouge				Mylonite/Gouge Zone - Mod Red Hm Lim/Py + Lim Fracs + Muds - Qz veining/Valts w/in Silicification	70	.035
		- Strong Myl/Gouge @ Bs	Silicified → Textural Destruction Argillic Alt?				Py/Lim along/Acca/Qz Vns. 1+% Py/Lim → Red Hm Ass. w/ Py/Lim.	320	
320	60	- Gouge Zone	Argillic Alt.				Shattered Wht Qz Vein	60	.013
		- Broken Zone - Brecciated + Shattered Qz Vein 32' in thickness! Many Gouge + Clay Zones.	Mod Silicification				Strong Lim in Gouge → Gouge →		
330		- Broken Zone	Initial Silica Flooding - w/ Strong Argillic Alt.				Py/Lim Cubes Shattered Wht Qz Vns Py/Lim Cubes w/in Argillic Gouge Zone. 2% 10% overall Lim/Oxidation	330	.021
		- Intensely Broken Prob Gouge Zone.	Potassic Alt. Ass. w/ → Qz Vns						.162
		- Gouge Zone	Silica flooding				Shattered Qz Veins Mostly Wht, Abu Fracts w/ Limonite, Diss Py/Lim -	60	
340		6" Gouge Zone							.043
		Gouge/Mud + Clay Zone					Abu Py/Lim Cubes 2% overall. Red Hematite on fracs + as stains -	340	.032
350		320-353 Intensely Broken + Gouge Zones - Prob Fault Zone Contact w/ Bs/Gouge	Continued Argillic Alteration w/ Silic overprint				Brecciated Gouge Zone Silicification Mud Abu Red Hm Stains on Mud/Fracts	350	.108
							Gouge/Fault Zone Minor Lim.		
		Silic Fault Zone Breccia Fragments	Qz Flooding				Strong Qz Veining/Valts. Gouge Mostly Clay Valts -		.081
	70	Red Hematite Fault Zone → Gouge Contact w/ Bs/Gouge					Red Hematite Fault Zone w/ Gouge/Abu Red Hm Mud. Qz Vns Fracs w/in Fault Zone + 3% Diss Py/Lim. Broken Lim Zones		.031
360		← Gouge	Abu Change to Argillic Sericitic → Chloritic? @ Bs -				Wht + Gy Qz Vns - Py/Lim Ass. w/ Qz Vns - 1-2% N. & Lim Fracs Wk Stockwork.	360	.073
		- Broken + Gouge Zones					Shattered + Bx'd Qz Vns involved in Fault		
		- Red Hm Mud Gouge Zone -					N-12/M + Gouge Hi Qz Valts - Abu Py Lim w/Qz Vns - Numerous Gouge Zones - 1-2% X-cutting Lim Faults w/+w/o Qz wk Red Hm on Fracts + Diss -	370	.079
370		Varnell F2 Complex Prob 310-380+ Companion Fault?							.033
							Lim % Qz Fracts - 20-30%		.018
380		Contact & Gouge Porphyritic Rock - Large K-Spars - Gouge Rol Chalt - Rock has a greenish tint - Poss Chlorite?? Broken Zone Porphyritic Granite in F.W. of YFZ?? - Broken Gouge Zone	Poss Chloritic Alt? Poss wk Qz Flooding?				Gouge Zone. Mod Abu. X-cutting wk Lim Fracts - Few Py Cu. 30% Lim	380	.003
							Hi % Limonitic Fracts -		.003
							Few Lim Fracts -	390	.009
		- Broken Gouge Zone -					Broken Gouge Zone - Lim in Pr wk Diss Py		.004
400			TD @ 400'					400	

DIAMOND DRILL RECORD

HOLE NO. Y-DDH-3

Coord. _____ N _____ E Elev. _____ PROPERTY Yarnell

Bearing — Inclination -90 Depth _____ LOCATION Twin to YM-63 25' N65°E

Started _____ Completed _____ Notes by M. Miller Scale 1"=10' Sheet 1 of 4

DEPTH	% REC	A	ROCK TYPE	ALTERATION	B	C	D	E	MINERALIZATION	Graphic Col.	CORE ASSAYS	R.C. YM-63
0			0-6' CASING	NO RECOVERY						0		.002
10			BIOTITE GRANITE, M/CRS GR'D, EQUIGRANULAR. 10-13% BIOTITE; BROKEN DECOMPOSED ZONE	WK/ SERICITIC SHEAR ON FELDSPARS - RED ALT RIMS ARound BIOTITE 1-2% (HM REPLACEMENT?) POSS IOC; MUD SERICITE ON FELDSPARS. MORE COMPETENT CORE POSS V. WK SILICA FLOODING					H.L LIMONITIC FRACTS; 4-5 FRACTS/FT w/ wk Lim; ½" Qz Vn Gy in Core	10		.057
20										20		.003
	50		PROB FAULT/ Qz VEIN ZONE - BIOTITE ARGILLIC Gouge + BROKEN Zone	POSS SILICA FLOODING.					Py/Lim LOCALIZED IN Qz & SOME IN GROUNDMASS.			.004
30			BIOTITE GRANITE AS ABOVE w/ 25-30% BIOTITE W STRONG BIOTITE ROCK IS WEAKLY DECOMPOSED PAST 36' BIOTITE INC → 25-30%	WK SERICITIC ON FELDSPARS -					6" Qz VEIN FROM Py/LIMONITE; WK LIMONITIC FRACTS 3+/FT ~70°	30		.038
40										40		.002
				TR RED ALT w/ BIOTITE LESS BIOTITE AROUND QZ VEINS					THIN MUD FILLED FRACT. LIM MUD??			.005
50	70		AS ABOVE BUT CONTACT PICKED ON INC? IN SILICA (IE MORE COMPETENT CORE) SIGNIFICANT INCLIN Qz VNS - ½" FAULT. (DESCRIPTION INDICATES WK ALTERATION TYPE OF TRANSITION ZONE)	RE ADDEARANCE OF RED ALT PROD. w/ BIOTITE INC IN AMT OF SERICITE IN FELDSPARS BECOMING MORE PROMINENT. LIKEWISE BIOTITE, PROB BECOMING CHLORITIC 15-20% BIOTITE?/CHLORITE TRANSITION ZONE POSS SILICA FLOODING MODERATE					½" Qz Vn; ½" FAULT w/ Gouge SULFIDES.	50		.004
									FAMILY OF M/Gy Qz VNS - LOW WKLY LIMONITIC - 3-4 VNS/FT. Qz VN w/ SPEC HM			.005
60			XENOLITH	SEP INC					TR SPEC HM w/ Qz; 1" Qz VN WHT VN	60		.015
70			BROKEN, MUDDY ZONE; BROKEN ZONE						ZONE OF HI % FRACTURES MOSTLY MUD FILLED HOWEVER SOME LIM. FILL. 4-6 FRACT/FT 20-30°			.042
80			BROKEN ZONE; MOD-HIGH FRACT ZONE w/ INTERNAL AREAS OF CRUMBLED "CORE" MANY HI % FRACTURES w/ MUD + LIM MUD FILL.						TR Qz VN; TR JAROSITE? ON LIM FRACT.	80		.005
90	75		BROKEN OX ZONE POSS FAULT	SLT INC IN BIOTITE RED ALT ASS w/ BIOTITE					BROKEN 1" Qz VNS - M Gy IN OX ZONE / COLOR SOME BIO VNS	90		.016
									AS ABOVE - WK SPEC HM			.004
100			LARGE → 1" Qz PHENOCRYSTS						½" Qz VN - M Gy	100		.005
												.003

DIAMOND DRILL RECORD

HOLE NO. YDDH-3

Coord. _____ N _____ E Elev. _____ PROPERTY YARNELL

Bearing _____ Inclination _____ Depth _____ LOCATION TWIN TO YM-C3

Started _____ Completed _____ Notes by M. MILLER Scale 1" = 10' Sheet 2 of 4

DEPTH	% REC	A	ROCK TYPE	ALTERATION	B	C	D	E	MINERALIZATION	Graphic Col.	CORE ASSAYS
100			ABU. QZ VNS IN ALT CHLORITIC GRANITIC	6-8% CHLOR/BIO? (REG) STRONG SGR w/ FELDSPAR					Qz LIM. FRACTS →		100
				INC SGR, INC CHL/BIO CHL REPL. BIOTITE GOT 8-10% CHL					2 QUARTZ VEINING - POSS STOCKWORK IN GRY IN COLOR SOME LIM FILL		.01
110				INCREASINGLY STRONGER CHLORITIC ALT.					Qz VEINING w/ LIM + SPEC HM - 1/4-1/2" QZ VNS 2/FT		110
									OX LIM FRACT TR SPEC HM		.007
									SPEC HM INC w/in FRAMES BIOTITE/CHL SITES 1-2% 2" QZ VN w/ LIM FRACTS + SPEC HM		
120			- OCCASIONALLY 1% FRACT - PARTIALLY BROKEN	POSS INC IN SILICA AS SHOWN		X			HI % FRACTS w/ LIMONITE + SPEC HM		120
			- BROKEN/GOUGY ZONE POSS FAULT??						BROKEN LIM ZONE		.009
			INC IN QZ VEINING BROKEN ZONE.	POSS POTASSIC ALT? RUNNING QZ VNS PINKISH K-SPAR					1/4" QZ VEIN. POSS K-ALT		.015
130				STRONG AN GRP SERICITE IN FELDSPARS					DISS PY/LIM 1/2-3/4" QZ SPEC LIM THROUGH 1% ZONE 1-100 ABU SPEC HM ALONG FRACTS + W/C DISS. 1-2% IN BIOTITES. 8-10 FRACTS/FT 6" QZ VN -		130
				RESTRICTED TO SELVEGES AROUND QZ VNS.					1" QZ VN		.019
									LARGE PIECE OF BX'D QZ VEIN 6-8" IN SIZE TERMINATES AGAINST 70° QZ VN ABU SPEC HM. LIM/PY CUBES		.011
140									POTASSIC V-LT w/ QZ -		140
									DISS SPEC HM + 2-3% DISS LIM/PY CUBES - 2%		.073
									6-8 QZ VNS/FT -		.016
									STOCKWORK QZ VEINING SOME VNS → 6" TR.		
150				POTASSIC ALT INC w/in GRANODIORITE + STRONG SILICA FLOODING PROB DUE TO INTENSITY OF QZ VEINING AS IS K-ALT					PY/LIM DISS THRU STOCKWORK LIM + SPEC HM ON FRACTS		150
											.118
											.042
160											160
											.024
											.033
170			NO CORE RECOVERY 162-209. OPEN STOPES -								170
			NC CASING SET 184-187'								.049
			VOIDS 162-184								.018
180			184-209								180
			217-221								.137
			CUVG BETWEEN 209-221. SUSPECT, POSS BOULDER AND/OR MUCK.!								.100
190											190
											.203
200											200

DIAMOND DRILL RECORD

HOLE NO. Y-DDH-3

Coord. _____ N _____ E Elev. _____ PROPERTY _____

Bearing _____ Inclination _____ Depth _____ LOCATION _____

Started _____ Completed _____ Notes by _____ Scale 1" = 10' Sheet 3 of 4

DEPTH	% REC	ROCK TYPE (A)	ALTERATION	B	C	D	E	MINERALIZATION	Graphic Col.	CORE ASSAYS
200										200
210										210
220		Bs of OPEN STORES -								220
230		GREENISH Gy. ALTERED + SHR GRANITE SOME TEXTURAL DESTRUCTION	STILL POTASSIC ALT? ASSOC VEINING STRONG SERICITIC FELDSPARS.					ABUNDANT HI & H.L LIMONITE FRACTURES - ALMOST STOCKWORK TYPE		230
								Diss Py/Lim Clusts Est 2 1/2 overall - / Diss along Qz Veins	50	
								Lim/Spec Hem/Qz Vnlt	30	
240		LT Gy - STRONGLY ALT'D - PROBABLY LARGE K-SPAR PHENOS - SOC? ALT.	SILICA FLOODING. REM SERICITE & - ALT? SEEMS PERVASIVE					Diss Py/Lim 2%	50	240
									60	
								Diss Py (FRESH) + Vnlts of Py. 2% Py - Limonitic	40	
		BS of OXIDATION. SULFIDES							60	
250	50	UNALTERED GRANITE? GREENISH Gy - F/M GRAIN - NO BIOTITE - WEAK FELDSPARS - POSS DIFF ROCK TYPE?? BS SULFIDES -	POTASSIC FLOODING → / POTASSIC FLOODING AROUND Qz VEIN. PROG CHLORITIC?						70	250
								Diss Py + Spec HEMATITE Est 1% Py 3% Spec Hm.	65	
		OXIDIZED EQUIVALENT OF ABOVE						Oxid But Tr. Fresh Py		
		OXIDATION INCREASES + BECOMES PERVASIVE LOW CORE SHOWS WEAKLY CORRODED ZONES.	POSS MOD SILICA FLOODING					Tr Quartz Vein →	80	
260								Ox/Lim Qz Vein	40	260
			POSS WK SERICITE					SCATTERED WEAKLY LIMONITIC FRACTS - w/in PERVASIVE OXIDATION → ≥ 10% OXIDIZED 3% + DISS SPEC HM		
270		1.5' STRONG OXID ZN						FRESH Py @ 269.1 OXIDIZED ZONE w/ Py CUBES 1" @ 5% Py/Lim		270
280		AS ABOVE BUT TEXTURAL DESTRUCTION MORE CORRODED.	STRONG SILICA FLOODING.					HI & LIM FRACS		280
								5-6% Diss Py/Lim - PATCHES of FRESH Py AS @ 281.5 6" RED/YELLOW HEM ZONE. 2-3% SPEC HM w/in CORRODED ZONE		
		SLT DK BRN LIMONITE	STRONGLY CORRODED. + LEACHED.							
		LAMINATED TUFF BEDS - POSS VOLCANIC BED?								
290		AS ABOVE	POSS WK SER/ON CHL? BUT NOT AS SEEN IN CORE CONTD GRANITE					TIN QZ VNLT LIMONITE VNLTS -	60	290
								DISS SPEC HM. w/ LT BRN "FLUFFY" LIMONITE OVERALL 2-3%	60 60 60	
								VERTICAL BREAKS THRU CORE - SLT LIMONITIC		
	70	SOMEWHAT TEXTURAL DESTRUCTION, STRONG PERVASIVE OXIDATION	SILICA FLOODING Gap 297-299					JAROSITIC STAIN ON FRACS		
								DISS Py/Lim EST 2-3% TOTAL SPEC HM		
300										300

DIAMOND DRILL RECORD

HOLE NO. 4-DDH-3

Coord. _____ N _____ E Elev. _____ PROPERTY _____

Bearing _____ Inclination _____ Depth _____ LOCATION _____

Started _____ Completed _____ Notes by M. MILLER Scale 1" = 10' Sheet 4 of 4

DEPTH	% REC	ROCK TYPE (A)	ALTERATION	B	C	D	E	MINERALIZATION	Graphic Col.	CORE ASSAYS
300		Sericitic Alt- Pervasive Oxidation Both on Fracts + Interstitial						Family of 40° Lim/Spec Hm Fractures - + Diss Spec Hm.		300
310		Greenish Gray - Poss Diff Rock Type From Granite @ Top of Hole - Chloritic?	Chloritic ! Pervasive					Diss Spec Hm Thick f 1-2% Moderate Limonitic Fractures Some X-cutting - Pseudo Stockwork! 6-8/ft		310
320										320
		TD @ 325'								

DIAMOND DRILL RECORD

HOLE NO 1 DUH-4

Coord. _____ N _____ E Elev. _____ PROPERTY YARNELL

Bearing _____ Inclination _____ Depth 220' LOCATION TWIN TO YM-75

Started _____ Completed _____ Notes by M. MILLER Scale 1" = 10' Sheet 1 of 3

DEPTH	% REC	A	ROCK TYPE	ALTERATION	B	C	D	E	MINERALIZATION	Graphic Col.	CORE ASSAYS
0			PROB DIORITE SILL? ABU MAFICS BUT STRONGLY WX'D INTENSELY LEACHED/ WEATHERED- ROCK IS VERY SOFT - ABU PLAGIOCLASE SPARS	NONE SEEN - STRONG WEATHERING CARBONATE MATRIX 38' PROB DUE TO WEATHERING/ LEACHING OF FELDSPARS? ABU BIOTITE - SOME SHOWING RED ALT - & PROB HM RIMS BUT RELATED TO WEATHERING					0-6' CASING: NO RECOVERY		0
10									CALCITE VEINING → SCATTERED FRACTS - MOSTLY ON CORE BREAKS - BUT NO SIGNIFICANT MINERALIZATION OR QZ VEINING BREAKER ZONE -		10
20			1. BROKEN MUDDY ZONE								20
30									"CASH" VEIN W/ CALCITE 30 10-20"		30
			- BROKEN ZONE - BREACIT DISAGG. ZONE						STRONG LIM ZONE 36-37' 50%		
40			ALTERED CHLORITE TYPICAL OF MUD ALT ZONE - NO BIOTITE MUD + GOUGE ZONE	SERICITIC FELDSPARS -					STAINED LIM OXIDIZED/LIM FRACT'S MUD + GOUGE ZONE - PT LIMONITIC		40
50			MUDDY/GOUGY - SHEAR ZONE - POSS FAULT?						GOUGY / FAULT ZONE? FEW FRACT BAND QZ VNS W/IN - ORGANIC WEAKLY LIMONITIC.		50
				POSS SEC BIOTITE V.F.G. DISSEMINATED →					DISS PY/LIM CUBES - L/H 80 USU. ASS. W/ QZ VEIN WHT QZ VN - CUTS LIM QZ FRACT/VNS - 40%		
				MAS SILICA FLOODING ↓ INC IN SILICA FLOODING INC IN SERICITE W/K PUTASSIC ALT PRIMARY W/ QZ VEINLETS.					WHT QZ VEIN CUT BY SILICA - STOPPING MICRO FRACTS 25 QZ/LIM VNLTS - 3-4/FT; W/K LIM/PY CUBES 60%/- LC & PR FEW LIMONITIC FRACTURES + LIM ON CORE BREAKS		
60			1" GOUGE ZONE						DISS PY/LIM CUBES - 1-2% + OVERALL V. ABU. MICRO VNLTS OF LIMONITE 10-12/H		60
70			6" GOUGE ZONE	POTASSIC ALT. ASS W/ QZ VEINS - INDIV INTERVENE OUT SIDE QZ VEIN.					PY/LIM CUBES 60 40-50		70
									1" QZ VEIN (WHT) 50 6" WHT/GY QZ VN 70 H.L FAULT, VERT VISIBLE AU ASS W/ QZ/SPEC VNLT - → LATER LIM VNLT CUTS FAULT 20-30 DISS PY/LIM CUBES - 1-2% 1" QZ VEIN 70 X-CUTTING QZ VNS → 1/2" TIC STOCKWORK? 40 60		
80									STOCKWORK QZ VNS - W/ ASS. SPEC HM. PY/LIM CUBES → W/ 1% 60 VISIBLE AU ASS W/ 1" WHT/GY → QZ VEIN - SPECTIC BEGINS TO OCCUR @ TIC "ROOF" OF THE VEIN EARTHY LIMONITE		80
90			BROKEN ZONE LT THIN - ARGILLIC ZONE	POTASSIC ALTERATION ASS W/ QZ VEINING AS PINKISH R-SPAR SOME DISS ARGILLIC ZONE 84-88 STRONG QZ FLOODING PROBABLY W/ STOCKWORK VEINING NOTICEABLY INC IN						1" BRECCIATED QZ VEINS → VTN "MYLONITIC FISSURES (GY QZ) QZ/SPECULARITE VNS W/ SPEC ON ROOF OF FRACTURES. 3" WHT QZ VEIN → MORE STOCKWORK PY/LIM CUBES DISS THROUGH 2%+/- DISS SPEC HM. 1-2% 60		90
100											100

DIAMOND DRILL RECORD

HOLE NO. YDDH-4

Coord. _____ N _____ E Elev. _____ PROPERTY YARNELL PROJECT

Bearing _____ Inclination _____ Depth _____ LOCATION _____

Started _____ Completed _____ Notes by M. MILLER Scale 1" = 10' Sheet 2 of 3

DEPTH	% REC	ROCK TYPE (A)	ALTERATION	MINERALIZATION (B C D E)	Graphic Col.	CORE ASSAYS	YM-75
100			CONTINUED SERICITIC ALT " SILICA FLOODING " POTASSIC ALT BUNN/in DESCRETE FELDSPARS.	Py/Lim CUBES - DISS THROUT MOD ABUNDS VEINS / Lim + Lim VEINS - DISS SPECULARITE/Lim w/ Spec in 2/4 CENTER. 2-3% Py/Lim @ 102-103 CUBES @ 1/2" WHT/Gy 1/2" Qz VN → 50 FRR BOUNDARIES	100		.0137
		H. & BROKEN ZONE		STOCKWORK Gy Qz VEINING 2% Py Lim Ass w/ Qz Ves DISS SPECULARITE (BLACK MINERAL) X-CUTTY LIMONITE VN Lts - 60		MNOX MODTY	.062
110			DISCRETE K-SPAR AS FELDSPAR x/s 1/4" Pink Rims AROUND Qz Vnlts -	DISS Py/Lim CUBES - Hi & FRACTS - LIMONITIC Qz FRACS w/in Hi & Limonitic Zone	110		.064
			Qz VEINING DEL BUT SILICA FLOODING SUME	FRACTS AS SHOWN - LIMONITIC ALSO DESS. Py/Lim - AMT of DISCRETE Qz VEINING DECREASES.			.026
120		- SLIGHTLY LOST ALT? Qz VEINING - MGY in COMM. TH GOUGE ZONE M/Brn 50 60	SILICA FLOODING	DISS Py/Lim AGAIN 50-60° 20 ALONG Qz VEINS - LIMONITIC VNLTS? FRACTURES 40 1" Gy VUGGY Qz VEIN →	120	MNOX MX.	.047
				Lim Vnlt - 50 FEW Py/Lim LOOKS LIKE BX 1" Hi & Qz VEIN ZONE - VN BX? GY Qz VEIN 20			.067
130				LIMONITE / +/- Qz LT BROWN LIM.	130		
40		- BROKEN GOUGY ZONE PROB FAULT	SILICA FLOODING	BROKEN - MOD/LIMONITIC FRACT'S 40			.088
		LOOKED LIKE A SILIC. BX. SILIFICATION SEEMS TO HAVE TIED ALL FRAGMENTS TOGETHER. BRECCIATION IS STRETCHED - GOUGE ZONE 140-140.5' LIMONITIC GOUGE	POTASSIC ALTERATION AROUND Qz VNS/Vnlts. + POSS REL? TO Qz FLOODING SERICITIC ALT PERSIST.	SPOTTY - SPEC HM - L/+. Py/Lim DIN FRACTURE CUBES - 1/+	MNOX		.005
140				BRECCIA CONSISTS of Qz VEINS WHICH HAVE BEEN BROKEN + FRACTURED MOD LT BRN LIMONITIC LATER LIMONITIC VNLTS THAT CUT BRECCIA. PERVASIVE THROUT. BRECCIA ZONE IS CUT BY LATER FAULTS SHOWN AS GOUGE ZONES.	140		.043
49-70		CONTACT OBSCURED					.138
150		YARNELL FAULT ZONE STRONG LT YELLOW GOUGE CLAY ZONE TOP 2.0' 1" STRONG RED HM - w/ 2" "SILICA (Qz) CAP" HM AS MUD/CLAY 65	OVERALL 20-30% Chy	40-50° Lim / Red Hm MUD. / Clay Zone AS DESCRIBED.	150		
		CONTAMINATION of BX BUT MORE INTENSLY ALT.	WELL ALT - PROB ARGILLIC	Qz VN / LT FRACS - w/in BX SHATTERED Qz VN			.113
50		GOOD SUR/FA CONTACT 154	STRONG ARGILLIC ALT	- BOTTOM IT OBVIOUS Lim/Py CUBES			
160		STRONGLY ALTERED TEXTURAL DESTRUCTION VERY GUIDOUT 30 60 POSS BRECCIATION - TEXTURAL DESTRUCTION	↓ TEXTURAL DESTRUCTION	BRECCIA CONTINUES? MOD → STRONG LIMONITIC FRACTURING / VEINING + VNLTS - 12-15/ft MOSTLY AS LONG FRACTURES / VNLTS FeOx SEEMS TO "TRAVEL" AWAY FROM FRACTURES - CREATING A SELVAGE AROUND FRACTURE.	160		.110
		- BROKEN, CLAY / GOUGY ZONE		- TR MN DENDRITES ON FRACTURE SURFACE.			.051
170		- STRONG GOUGE CLAY ZONE - PROB FAULT.		STRONG GOUGE ZONE w/ ABU. CLAY / MUD GOUGE BROKEN FRAG - POSS BX?	170		.045
30		- 174	POTASSIC RIM? SEEMINGLY AROUND Qz VNLTS & LIM VNLTS	BROKEN / GOUGY ZONE - MOD LIMONITIC ALONG FRACTS -			.04
		- 174.5 SILICA POSS ALTERED CONTACT OBSCURED.		ABU H.L LIM VNLTS w/+ Qz FEW V. SMALL Py/Lim CUBES LL L %; SPECULARITE VN - POS w/ MNOX AS DENDRITES -			.01
180		CHANGE IN ROCK OR ALT -	POSS. PROPYLITIC ALT -	H.L. CALCITE VNLT → Qz/Spec VN → 50	180		.027
		PINKISH FELDSPARS - ROCK MORE PORPHYRITIC 10-12% Pink K-Spars	GREENISH TINT - CHLORITIC? LOOKED LIKE BLEACHING IN [illegible]	POSS SPECULARITE IN GREENISH ZONES MNOX - ON FRACTS -			.018
				ABU. GOOD VEINS MOSTLY WELL HEALED VNS 3-6/ft OF CALCITE			
190				VERY AS SPECULARITE AS DISS + ASSOC/ VNLTS - 5-6% TOTAL 25 2% Py.	190		.012
			CHLORITIC ZONES AROUND VNLTS -	1-3% Py AS RIMS + DISS. 30 40 10%/ft SPECULARITE AS MICROVNLTS THROUT 70 CALCITE VNLTS →			
200			CARBONATE MTX - GOOD FIZZ	Py x/s in 1" Brn 10% Qz 1.0.: SPECULARITE / Hm →	200		

DIAMOND DRILL RECORD

HOLE NO. YDDH-A

Coord. _____ N _____ E Elev. _____ PROPERTY YARNELL PROJECT

Bearing _____ Inclination _____ Depth 220' LOCATION _____

Started _____ Completed _____ Notes by M. MILLER Scale 1" = 10' Sheet 3 of 3

DEPTH	% REC	ROCK TYPE (A)	ALTERATION	B	C	D	E	MINERALIZATION	Graphic Col.	CORE ASSAYS
200		Definite Fabric is Evident By Lineation of Feldspars +/- 80° Dips, Sch	- Bleached Zone w/ Lim/ Spk Hm.					Calcite Veins Gash Veins 1/4" Wht Qz Vein	200	
								Lim/ Spk Hm. X-cutting Fract's	45	
								Silk Zone 6" Tk.		
210	90%	Fabric	Calcite/ Carbonate Gash Veining					1/8" Lim. Vein @ 15° →	30	210
	40%							Vn - w/ Lim	35	
									20	
								Lim/ Calcite Vnlt		
220									20	220

TD @ 220'

Fractures seem to steepen below YFZ.
From 50-70° → 30-40°+/-