CONTACT INFORMATION
Mining Records Curator
Arizona Geological Survey
416 W. Congress St., Suite 100
Tucson, Arizona 85701
520-770-3500
http://www.azgs.az.gov
inquiries@azgs.az.gov

The following file is part of the

James Doyle Sell Mining Collection

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FROM: W. L. KURTZ

TO: JDSell

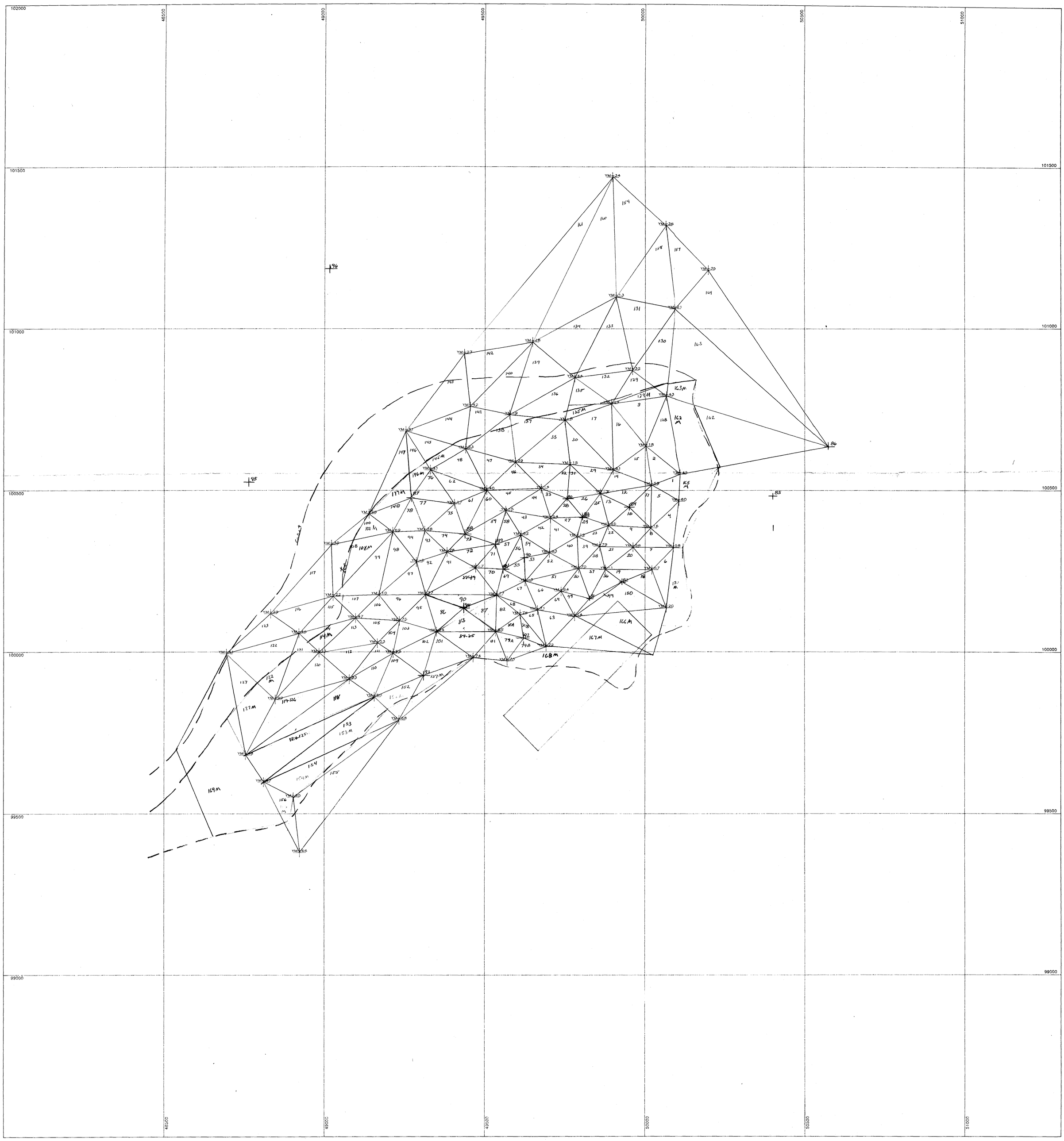
Yarnell
9/26

Letter to Hargadd that AR make 150,000 due WBM on 1 Jan 90.

Do you have approval to send ltr, If so send If not get approval and send.

yes, SEA for $150,000

request OCB 6 checkout.



Master

Triangle Numbers – Study Pit

ASARCO Engineering and Computer Services

YARNELL PROJECT
DRILL LOCATION MAP

SCALE	CHECKED BY	PLOT DATE	FILE
1"=100'		26-SEP-89	YAR-COLL-100

ASARCO

Exploration Department
Western USA

September 26, 1989

D.E. Crowell
Tucson Office

Heap Leach Test Report
Black Pine, Idaho

For your information enclosed is a report by Kappes, Cassiday & Associates done for Noranda.

WLK

W. L. Kurtz

WLK:mek
enc.

cc: R.L. Brown (w/o report)
J.D. Sell (w/o report)
S.L. Lakosky (w/o report)

- ale same trace

ASARCO

Exploration Department
Southwestern United States Division

September 27, 1989

Mr. Allen O. Krause
Longyear Company
7773 W. Seldon Lane
Peoria, AZ 85345

Drilling Proposal
Yarnell Project

Dear Allen:

Thank you for your bid on the Yarnell Project. We have awarded the contract to another company. However, if any other work comes up in the future we will certainly give you an opportunity to submit a bid.

Respectfully,

Mark A. Miller/mek

Mark A. Miller
Project Geologist

MAM:mek

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

September 27, 1989

Mr. Nino Trujillo
CBC Drilling
Drilling Division
750 E. Evans Blvd.
Tucson, AZ 85713

Drilling Proposal
Yarnell Project

Dear Nino:

Thank you for your bid on the Yarnell Project. We have awarded the contract to another company. However, if any other work comes up in the future we will certainly give you an opportunity to submit a bid.

Respectfully,

Mark A. Miller/mek

Mark A. Miller
Project Geologist

MAM:mek

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

Southwestern Exploration Division

JDS

September 27, 1989

FILE NOTE

Diamond Drilling
Yarnell Project
Yavapai County, AZ

The Boyles Brothers core rig was started on a two-shift drilling schedule.

However, after the first night of drilling a formal complaint from Yarnell was made and the sheriff requested no night drilling.

Thus the core hole, at 161 feet as of 8 AM 9/27/89, will be run only on day shift, as reported by M.A. Miller.

James D. Sell

J. D. Sell

JDS:mek

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

~~48,840.99~~
~~1122.71~~
~~47,818.28~~

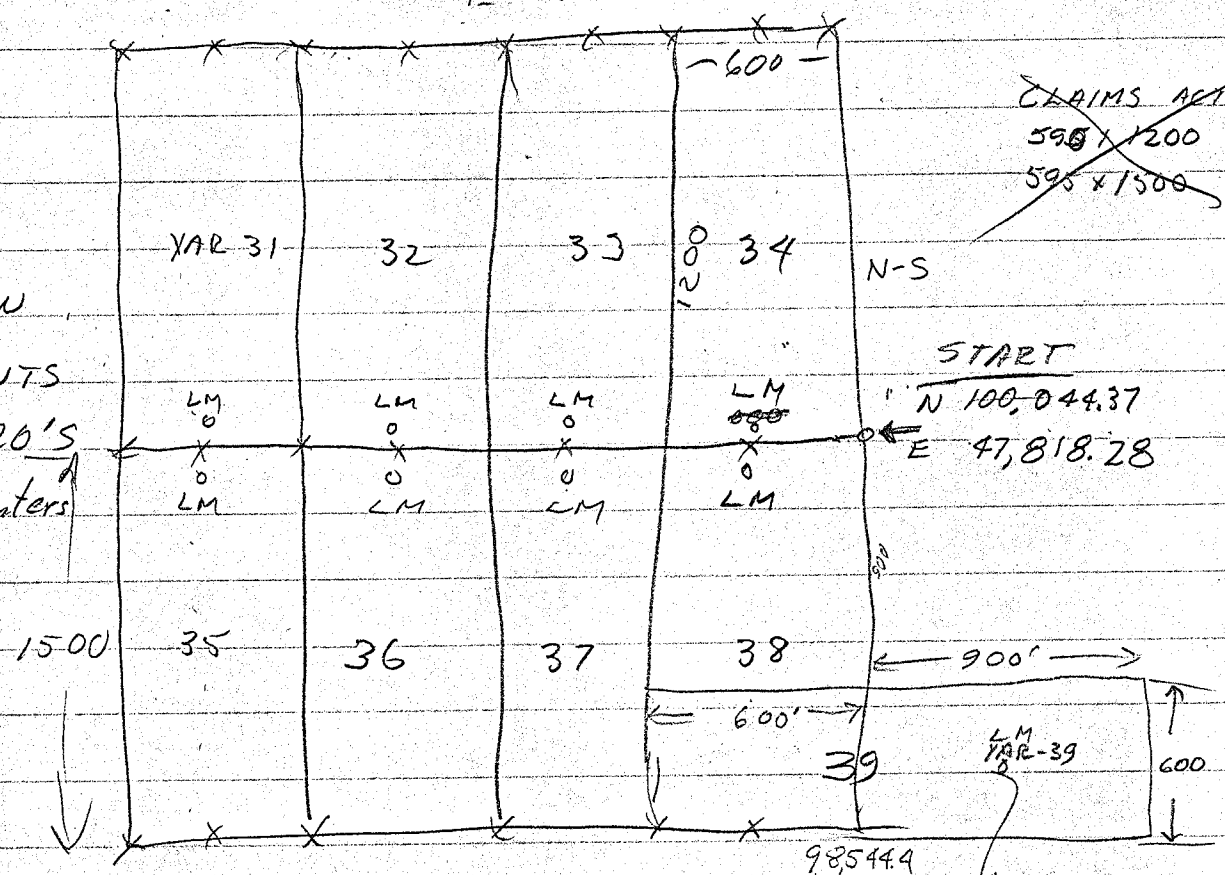
~~818.28~~
~~47,765.47~~
~~152.81~~

WEC YAR C

~~818.28~~
~~768.71~~
~~49.57~~

YAR 31 – 39

E – W



~~CLAIMS ACTUALLY~~
~~595 x 1200~~
~~595 x 1500~~

START
N 100,044.37
E 47,818.28

LOCATION MONUMENTS 20' N or 20'S OF End Centers

N 98,843.6
E 48,413.4

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

September 28, 1989

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

ASARCO Incorporated
SEP 29 1989

Re: Yarnell Project

Dear Mr. Sell:

Mark Miller requested that I provide this letter to you to explain the property situation on a tract of land in Section 15, Township 10 North, Range 5 West, on which a Gene Albright is expected to conduct diamond core drilling. Mr. Albright has interests in a 13.4 acre irregular tract of land in the NESE of Section 15. That land was originally patented as a stockraising homestead with a reservation of minerals to the United States. ASARCO recently located mining claims on that land. However, Mr. Albright acquired the mineral interest on September 20, 1984 by a mineral interest patent to the surface owner as authorized by FLPMA. Therefore, ASARCO's claims on that tract of land are invalid.

Further, you and Mr. Miller advised me that ASARCO has located claims over all of the southeast quarter of Section 15. We mentioned on page 12 of our June 20, 1989 title opinion that a conveyance of mineral interest application is pending on Lots 1 and 3 (approximately the S/2SE) of Section 15. That application was identified in the title opinion because the unpatented Pennsylvania No. 1 claim extended into Lots 1 and 3. In addition to the mineral interest application applying to Lots 1 and 3, it also applies to the remainder of Section 15 except the northeast quarter. This application was filed by Senator John Hays on September 13, 1985. Because the application was filed prior to a change in the

regulations in 1986 which automatically segregates lands to which applications have been made, those lands in Section 15 are not presently segregated but they may be at any time in the future by publication of a segregation order in the Federal Register. Therefore, any ASARCO claims on those lands would not be protected unless there is a marketability at a profit type of mineral discovery made on each claim prior to the segregation.

In view of this occurrence, we recommend that you review again the Exhibit A (copy enclosed) to our title opinion identifying the mining claims which were the subject of that opinion. It was only the lands covered by those mining claims with which the opinion dealt. You should be aware that none of the other lands on which ASARCO may have located or acquired other mining claims were treated in this opinion.

Sincerely,

Jerry L. Haggard

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

JLH/jb
Enclosure

Exhibit "A"

The following patented and unpatented lode mining claims situate in Sections 14, 15, 22 and 23, Township 10 North, Range 5 West, G&SRB&M, Weaver Mining District, Yavapai County, Arizona:

I. Patented Claims

1. The Juniper lode mining claim, mineral survey no. 1112, patent whereof is recorded in Book 36 of Deeds, pages 229 through 232.

Except for that portion of said Juniper claim conveyed to the California, Arizona and Santa Fe Railway Company by Warranty Deed recorded in Book 235, page 8 and described as follows:

> Commencing at corner No. 1 of said Juniper claim, thence North 44° 30′ West along the 1-5 line of said claim 237.56 feet to the Point of Beginning for the description of the herein described tract; thence continuing along said 1-5 line 150.0 feet; thence North 44° 30′ East parallel with the 5-4 line of said claim 500 feet; thence South 44° 30′ East parallel with said 1-5 line 150 feet; thence South 44° 30′ West parallel with said 5-4 line 500 feet to the Point of Beginning.

And Except for that portion of Juniper claim conveyed to Maricopa County by Warranty Deeds recorded in Book 1265, page 694 and page 697 and described as follows:

> Commencing at the Northeasterly end of the Northwesterly side line of the parcel of land conveyed in Book 235, page 8; thence North 44° 30′ East 75 feet along the Northeasterly prolongation of the Northwesterly side line of said parcel conveyed in Book 235, page 8; thence South 44° 30′ East 70 feet along a line parallel with the Northeasterly end line of said parcel conveyed in Book 235, page 8; thence in a Southwesterly direction to a point on said Northeasterly end line that is South 44° 30′ East 75 feet from the Point of Beginning for the herein described parcel of land; thence North 44° 30′ West 75 feet along the Northeasterly end line of said parcel conveyed in Book 235, page 8 to the Point of Beginning. EXCEPT for all coal, oil, gas and other mineral deposits in said land as reserved unto the Grantor.

2. The Edmond lode mining claim, mineral survey No. 1114, patent whereof is recorded in Book 36 of Deeds, pages 236 through 240.

3. The Edgar lode mining claim, mineral survey No. 1113, patent whereof is recorded in Book 36 of Deeds, pages 240 and 241.

4. The Triangle lode mining claim, mineral survey No. 1115, patent whereof is recorded in Book 36 of Deeds, pages 233 through 236.

5. The Mother lode mining claim, mineral survey No. 1201, patent whereof is recorded in Book 43 of Deeds, pages 296 through 300.

Together with an easement for ingress and egress over an existing roadway located near Corner No. 4 of the Edmond claim, mineral survey No. 1114 and over the Edgar claim, mineral survey No. 1113, as reserved in deed recorded in Book 1207, page 425.

II. Unpatented Claims

Claim Name	Date Located or Amended	Recorded Book	Recorded Page	Recorded Date	BLM Serial No.	Locator
Victoria #1	8/5/1974	924	198	8/5/74	AMC 78219	David L. Beasley, Bud Rains, Buddie Rains, Frank Yellowhorse (aka Frank W. Beasley)
Amended	3/2/1980	1287	763	3/25/80	AMC 78219	Bud Rains (3/4) David L. Beasley (1/4)
Victoria #2	3/2/1980	1287	765	3/25/80	AMC 98902	Bud Rains (1/4) Frank Yellowhorse (1/4) D.C. Layton (1/2)
Victoria #3	3/2/1980	1287	767	3/25/80	AMC 98903	Bud Rains (1/4) Frank Yellowhorse (1/4) D.C. Layton (1/2)
Victoria #4	3/2/1980	1287	769	3/25/80	AMC 98904	Bud Rains (1/4) Frank Yellowhorse (1/4) D.C. Layton (1/2)
Victoria #5	8/20/1985	1751	484	9/4/85	AMC 244644	D. C. Layton Priscilla A. Layton
Kathryn A	11/21/1975	991	419	11/21/75	AMC 33459	Alvin J. Roman Kathryn A. Gooding
Amended	11/21/1975	996	263	1/2/76	AMC 33459	Alvin J. Roman Kathryn A. Gooding
Kathryn B	11/21/1975	991	421	11/21/75	AMC 33460	Alvin J. Roman Kathryn A. Gooding
Amended	11/21/1975	996	265	1/2/76	AMC 33460	Alvin J. Roman Kathryn A. Gooding
Alvin J.	11/21/1975	991	423	11/21/75	AMC 33458	Alvin J. Roman Kathryn A. Gooding

Claim Name	Date Located or Amended	Recorded Book	Recorded Page	Recorded Date	BLM Serial No.	Locator
Amended	11/21/1975	996	261	1/2/76	AMC 33458	Alvin J. Roman Kathryn A. Gooding
Pennsylvania No. 1	6/26/1981	1392	661	6/30/81	AMC 134462	Alvin J. Roman
Sun #1	9/9/1988	2079	476	9/13/88	AMC 288941	Norgold Resources, Inc. by Don L. Jenkins, agent for Norgold
Sun #2	9/9/1988	2079	478	9/13/88	AMC 288942	Norgold Resources, Inc. by Don L. Jenkins, agent for Norgold
Sun #3	9/9/1988	2079	480	9/13/88	AMC 288943	Norgold Resources, Inc. by Don L. Jenkins, agent for Norgold
Sun-3B (amendment)	10/25/1988	2091	499	10/26/88	AMC 288943	Norgold Resources, Inc. by Don L. Jenkins, agent for Norgold
Sun #6	9/9/1988	2079	486	9/13/88	AMC 288946	Norgold Resources, Inc. by Don L. Jenkins, agent for Norgold
Sun-6B (amendment)	10/25/1988	2091	501	10/26/88	AMC 288946	Norgold Resources, Inc. by Don L. Jenkins, agent for Norgold
Sun #7	9/9/1988	2079	488	9/13/88	AMC 288947	Norgold Resources, Inc. by Don L. Jenkins, agent for Norgold
Sun-7B (amendment)	10/25/1988	2091	503	10/26/88	AMC 288947	Norgold Resources, Inc. by Don L. Jenkins, agent for Norgold
Sun #8	9/9/1988	2079	490	9/13/88	AMC 288948	Norgold Resources, Inc. by Don L. Jenkins, agent for Norgold

Claim Name	Date Located or Amended	Recorded Book	Recorded Page	Recorded Date	BLM Serial No.	Locator
Sun-8B (amendment)	10/25/1988	2091	505	10/26/88	AMC 288948	Norgold Resources, Inc. by Don L. Jenkins, agent for Norgold
Sun #9	9/9/1988	2079	492	9/13/88	AMC 288949	Norgold Resources, Inc. by Don L. Jenkins, agent for Norgold
Sun #10	9/9/1988	2079	494	9/13/88	AMC 288950	Norgold Resources, Inc. by Don L. Jenkins, agent for Norgold
Sun #11	9/9/1988	2079	496	9/13/88	AMC 288951	Norgold Resources, Inc. by Don L. Jenkins, agent for Norgold
Sun #12	9/9/1988	2079	498	9/13/88	AMC 288952	Norgold Resources, Inc. by Don L. Jenkins, agent for Norgold
Sun #13	9/9/1988	2079	500	9/13/88	AMC 288953	Norgold Resources, Inc. by Don L. Jenkins, agent for Norgold
Sun #14	9/9/1988	2079	502	9/13/88	AMC 288954	Norgold Resources, Inc. by Don L. Jenkins, agent for Norgold
Sun #15	9/9/1988	2079	504	9/13/88	AMC 288955	Norgold Resources, Inc. by Don L. Jenkins, agent for Norgold

NE 1/4 SE 1/4 Sec 15 9/28 to MAY

Drill ~~VAR~~ 4 claim
Drill VAR 3 claim
~~Drill VAR 4 claim~~
Sample fault, another on S side of Hwy
for VAR 39 - 38(?) - 37 claims.
Put note in file on each sample
? 14 acres ~ other
May highest outcrop Now

~~48,940.99~~
~~1,122.71~~
~~47,818.28~~

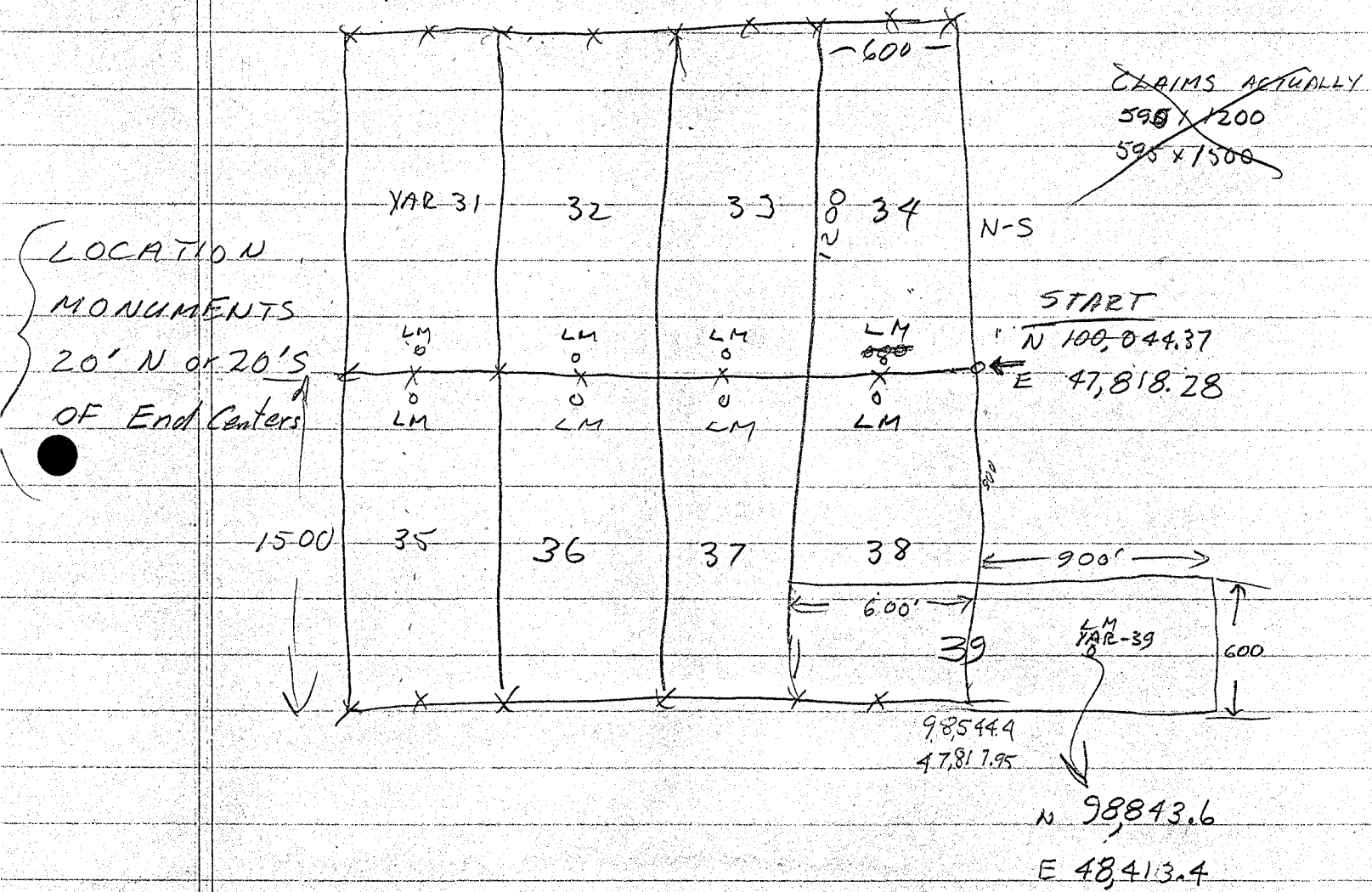
~~47,765.47~~ 818.28
~~152.81~~

WEC YAR-C

818.28
768.71
49.57

YAR 31 – 39

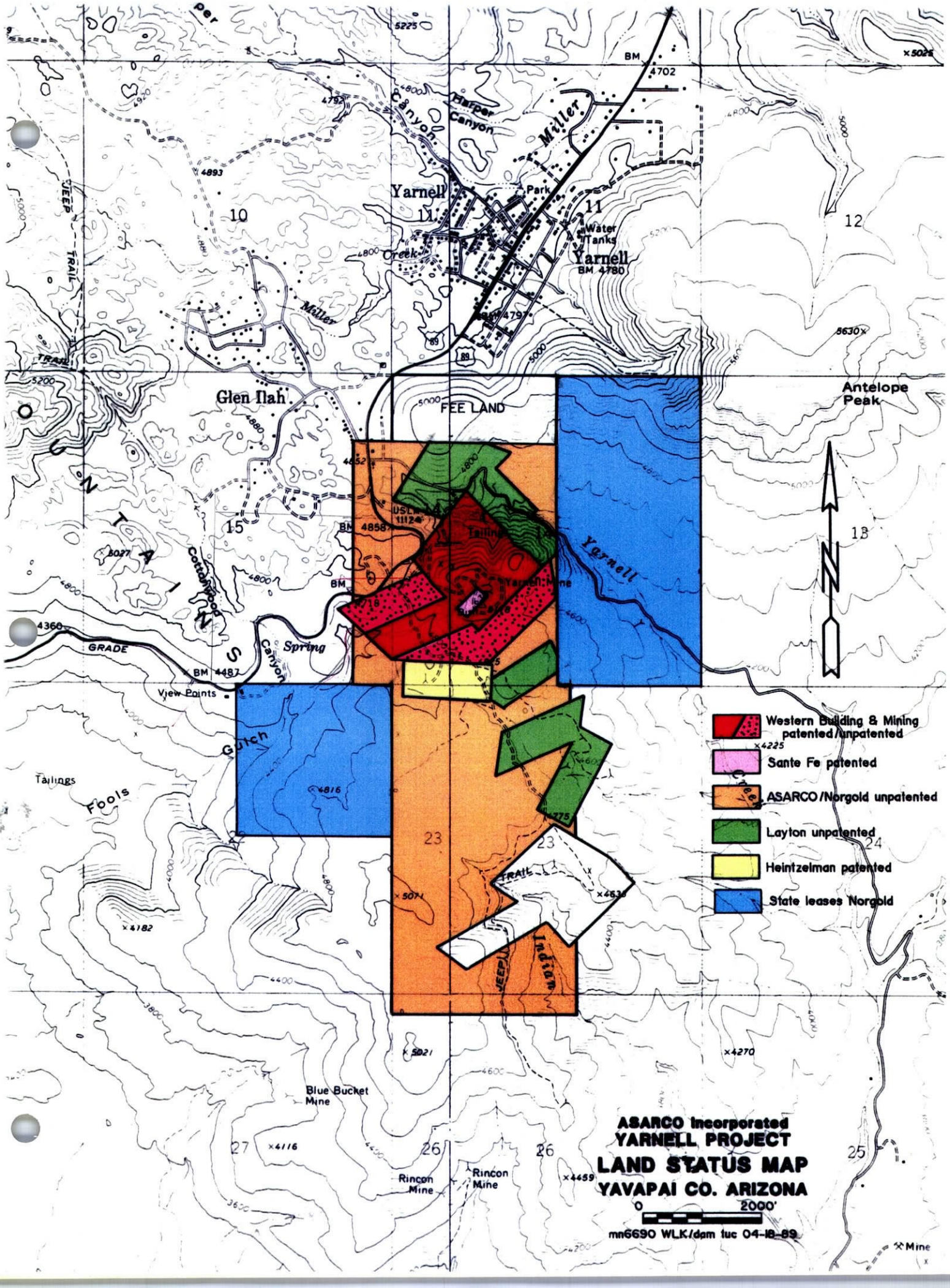
E-W



~~CLAIMS ACTUALLY~~
~~590 x 1200~~
~~595 x 1500~~

START
N 100,044.37
E 47,818.28

LOCATION MONUMENTS 20' N or 20'S OF End Centers


Western Building & Mining patented/unpatented
Sante Fe patented
ASARCO/Norgold unpatented
Layton unpatented
Heintzelman patented
State leases Norgold
FEE LAND
Yarnell
Glen Ilah
Antelope Peak
Yarnell Mine
Tailings
Miller Canyon
Harper Canyon
Cottonwood Canyon
Spring Canyon
Fools Gulch
Indian Creek
Blue Bucket Mine
Rincon Mine
View Points
Water Tanks
Park
JEEP TRAIL
GRADE
ASARCO Incorporated
YARNELL PROJECT
LAND STATUS MAP
YAVAPAI CO. ARIZONA
0 2000'
mn6690 WLK/dam fuc 04-18-89

JDS

WESTERN AIR MAPS, INC.

P.O. BOX 14988 • LENEXA, KANSAS 66215 • (913) 888-5266

TELECOPIER TRANSMISSION (FAX) (913) 888-5361

To: Mark Miller Date: 9/29/89 Time: 1:30 PM

ASARCO Job No. 6627

Telecopier Number: 602 792 3934

Number of Pages (including this page): 3

From: Eric Cendrich

ASARCO Incorporated

SEP 29 1989

SW Exploration

If any problems occur while receiving this transmission, please notify _____ at (913) 888-5266.

Comments: To follow is our proposal for Section 23 mapping. I will send the original and accompanying documents in the mail today

Copies to: _____

Signed: [signature]

cc: J D. Sell

WESTERN AIR MAPS, INC.

P.O. BOX 14988 • LENEXA, KANSAS 66215 • (913) 888-5266

FAX # (913) 888-5361

September 29, 1989

ASARCO Incorporated

SEP 29 1989

SW Exploration

ASARCO, Inc.
1150 North 7th Avenue
Tucson, Arizona 85703

Attn: Mark Miller

Gentlemen:

Per your request for same, Western Air Maps is pleased to present the following proposal for topographic mapping and digital data on Section 23 and an additional 800 feet along the west side of Section 23 near Yarnell, Arizona.

You, as our potential customer, have indicated the following use for Western Air Maps' services: Planning and Studies

Our proposal includes the enclosed general terms and conditions which form an integral part of this offer.

Western Air Maps, Inc. shall furnish all labor and materials necessary to provide the following services:

I. AERIAL PHOTOGRAPHY

Western Air Maps shall use existing photography of the site taken in July, 1989.

II. SURVEY SERVICES

ASARCO Inc. shall be responsible for furnishing horizontal and vertical ground control on the two southerly corners of Section 23.

III. PHOTOGRAMMETRIC SERVICES

A. Topographic Data Collection

Western Air Maps shall collect topographic digital data to be plotted at a scale of 1"=200' showing a five foot contour interval of the entire Section 23 and 800 feet to the west. A 1"=100' scale map of the NW 1/4 of Section 23 will also be plotted showing a five foot contour interval.

B. Format and Media

The digital data will meet the previous specifications required by ASARCO, Inc. for the mapping on Section 14. The data will be furnished on media and in a format compatible to ASARCO, Inc.

COMPLETE PHOTOGRAMMETRY FOR BETTER ENGINEERING

IV. SHEET LAYOUT

The 1"=100' and 1"=200' scale maps shall be furnished on one sheet for each.

V. ITEMS TO BE DELIVERED

One 1"=100' scale map of the NW 1/4 of Section 23.

One 1"=200' scale map of Section 23.

Tape or floppies containing XYZ digital contour data in ASCII format of Section 23.

VI. DELIVERY SCHEDULE

All items shall be delivered by October 19, 1989.

VII. EXCEPTIONS TO NATIONAL MAP ACCURACY STANDARDS

The 1"=100' scale plot of the Northwest 1/4 of Section 23 will have the inherent accuracy of a 1"=200' scale map.

The above services shall be performed in accordance with the enclosed specifications which shall be considered an integral part of this offer.

Our fee for the proposed services shall be as follows:

Lump Sum Fee for Topographic Mapping and XYZ Files	$ 4,290.00

Western Air Maps appreciates the opportunity of submitting this proposal. If it is acceptable to you, please sign, date and return this original to Western Air Maps and keep a copy for your records.

Sincerely,

WESTERN AIR MAPS, INC.

By: _____

Eric Cenovich, R.L.S., C.P.
Vice President, Operations

EC:pl

ACCEPTED AND APPROVED

Name _____

Title _____

Date _____

WESTERN AIR MAPS, INC.

P.O. BOX 14988 • LENEXA, KANSAS 66215 • (913) 888-5266

FAX # (913) 888-5361

September 29, 1989

ASARCO, Inc.
1150 North 7th Avenue
Tucson, Arizona 85703

Attn: Mark Miller

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

COMPLETE PHOTOGRAMMETRY FOR BETTER ENGINEERING

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Sincerely,

WESTERN AIR MAPS, INC.

By: Eric Cenovich

Eric Cenovich, R.L.S., C.P.
Vice President, Operations

EC:pl

ACCEPTED AND APPROVED

Name Mark Miller

Title Project Geologist

Date 10-3-89

SPECIFICATIONS

TOPOGRAPHIC MAP MANUSCRIPTS

Western Air Maps will prepare topographic map manuscripts in accordance with these specifications.

A) Topographic Map Manuscripts

1) Map Compilation

All topographic map compilation shall be accomplished utilizing three dimensional stereo plotters capable of producing the required map accuracies. All planimetric features shall be symbolized on the manuscripts by conventional map symbols and shall be freehand drafted.

2) Scale

Map manuscripts will be prepared of designated areas to a scale as designated in the proposal.

3) Planimetric Features To Be Shown

The planimetric features to be shown on the map shall be the features normally shown for the indicated map scale, and only the features that are visible and discernible from the aerial photography shall be plotted.

4) Contours

Contours shall be shown at intervals designated in the proposal. Every fifth contour shall be accentuated by a heavy line and labeled.

In areas where the ground is partially obscured due to foliage conditions, etc., contours shall be shown by dashed lines and may not meet accuracy requirements.

5) Spot Elevations

Spot elevations shall be shown where contours do not sufficiently delineate the terrain.

6) Material

All topographic manuscripts shall be prepared on reproducible stable base polyester material.

7) Map Accuracy

The horizontal accuracy of the mapping shall be such that 90% of all definable planimetric features shall be plotted to within 1/40 of an inch of their true coordinate position when measured on the map and none of the features shall be misplaced by more than 1/20 of an inch. The vertical accuracy of the mapping shall be such that 90% of the contours shall be within one half contour interval and the remaining 10% shall be within one contour interval. The accuracy tolerance for spot elevations shall be one half that allowed for contours.

NOTE: If the final map sheets are to be in the form of orthophoto sheets, the manuscripts shall contain only that planimetric detail necessary to enable proper orientation of the contours to the orthophoto base.

GENERAL TERMS AND CONDITIONS

Our proposal includes the following terms and conditions which form an integral part of our offer:

1. LOCAL TAXES AND FEES: This proposal is made without consideration to liability for local taxes or fees. In the event any such taxes or fees become due and owing to any state, county or municipality on account of the work performed hereunder, the obligation for payment of same shall rest with customer, and not Western Air Maps, Inc., and the customer agrees to indemnify and hold harmless Western Air Maps, Inc. therefore.

2. PARTIAL PAYMENTS: As Western Air Maps renders partial services toward completion of the entire job, customer shall pay at such time for such partial services in accordance with the following schedule:

> On or about the first day of each month, Western Air Maps shall submit an invoice representing partial services rendered during the previous month, said invoice shall be due and payable within 15 days of invoice date. Upon completion of all services, Western Air Maps shall submit an invoice representing the remaining monies due, said invoice shall be due and payable within 15 days of invoice date.
>
> Customer's failure to pay Western Air Maps in a timely manner in accordance with this schedule shall, at Western Air Maps' sole discretion, operate to relieve Western Air Maps from any subsequent obligation to perform hereunder.

3. CUSTOMER'S INTENDED USE OF SERVICES: Customer's intended use of Western Air Maps' services and the product of such services is as stated in the proposal. Western Air Maps shall not be liable to the customer or to any third parties for any claims arising out of any use made by the customer or any such third parties other than the intended use as stated in this proposal.

4. JOINT SERVICES: In the event customer shall provide manpower to assist in or supplement the services to be performed by Western Air Maps, and if such personnel supplied by customer shall make mistakes or errors requiring corrective work by Western Air Maps, then the customer shall pay Western Air Maps, in addition to the prices quoted in this proposal, the cost to Western Air Maps of correcting any errors or mistakes committed by the personnel so supplied or caused to be supplied by customer. Additional fees shall be based on Western Air Maps current fee schedule at the time additional services are performed. Western Air Maps shall be relieved from any liability in its final product on account of any uncorrected error or mistake committed by customer, or those under customer's control and direction.

5. STANDARD FOR PERFORMANCE AND LIABLILITY: Subject to the exceptions contained in this proposal; if any, all services performed by Western

Air Maps shall conform to the generally accepted principles and standards set forth in "United States National Map Accuracy Standards". Unless field checking is specifically included in the proposed services, the maps and/or data will not be field checked as field checking will be the responsibility of the client. Maps and/or data should be field checked prior to the use of the information or data for studies, design or planning. Western Air Maps liability to customer is limited to correcting any errors in its work product caused by employees of Western Air Maps and in no event shall Western Air Maps liability to customer exceed the cost of services and work quoted in this proposal. Western Air Maps makes no other express or implied guaranty or warranty to customer and specifically disclaims any express or implied warranties other than as set forth herein.

6. OWNERSHIP OF DOCUMENTS: Western Air Maps and customer agree that until all services hereunder are fully paid for by customer as herein provided, that ownership of the materials and work product under this contract shall remain the property of Western Air Maps.

7. COMPLETION TIME FOR SERVICES: The customer understands and agrees that, due to the nature of services to be provided by Western Air Maps, the projected time for completing any phase of the foregoing work may be delayed due to failure of customer to supply or provide data or services in a timely manner, unusual weather conditions which delay ground surveys or aerial photography, acts of God, strikes, lock-outs, or other labor relation problems, national emergencies, wars, or national shortages, including petroleum shortages. Western Air Maps shall not be liable to customers for untimely performance caused by any such delays, or any other delays not the fault of Western Air Maps.

8. SOLE AGREEMENT, MODIFICATIONS AND AMENDMENTS: This agreement contains all pertinent negotiations between the parties and there are no oral or other written agreements between the parties with respect to the specific job quoted herein. Except as provided in paragraph 4 herein on Joint Services, this contract shall be modified or amended only by an instrument in writing signed by both Western Air Maps, and customer.

9. INTERPRETATION: Western Air Maps and customer agree that this contract shall be deemed to be formed in and shall be construed in accordance with the laws of the State of Kansas.

ASARCO

Exploration Department
Western USA

W. L. Kurtz
Manager

VIA FAX 604-685-8045

September 29, 1989

Mr. Christopher Moat, President
NORGOLD RESOURCES (US) INC.
Vancouver, B.C.

Yarnell Project
Weekly Information

Dear Mr. Moat:

We are FAXing you assay results on Holes YM-86, 87, 88, 89, 90, 91, and 92, along with a map showing their location, and a list of coordinates for drill holes YM-1 thru YM-93.

Sincerely,

W. L. Kurtz /mek

W. L. Kurtz

WLK:mek

cc: J.D. Sell

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

JDS

ASARCO

Southwestern Exploration Division

September 29, 1989

J.D. Sell

Drilling Complaint
Yarnell Project
Yavapai County, AZ

On September 27, 1989 we received a complaint from David Greenlee, a resident of Yarnell, that the noise from the drill was keeping him awake. That night the Sheriff came out to the drill and ordered a shutdown at 10:00 PM; 4 hours before the end of the shift. To satisfy Mr. Greenlee's complaint we will drill two 8 hour shifts from 6:00 AM to 10:00 PM.

Mark A. Miller/mek

MAM:mek

Mark A. Miller

JDS

ASARCO

Exploration Department
Southwestern United States Division

James D. Sell
Manager

September 29, 1989

Mr. Christopher Moat, President
NORGOLD RESOURCES (US) INC.
2380 Harbour Centre
P.O. Box 12122
555 West Hastings Street
Vancouver, B.C. V6B 4N6
Canada

Notice of Payment
to Western Building
Yarnell Project
Yavapai County, AZ

Dear Mr. Moat:

As per Mr. W.L. Kurtz's Letter of Agreement dated January 25, 1989, Asarco confirms that they will send the payment of $100,000 due Western Building on January 1, 1990.

This payment assumed by Asarco is also noted in the draft copy of the Exploration and Option Agreement, Article 4.2.

Sincerely,

James D. Sell

James D. Sell

JDS:mek

cc: Brian D. Edgar
R.L. Brown
W.L. Kurtz
W.D. Gay
S.L. Lakosky

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

10/2/89
YARNELL

FROM: W. L. KURTZ

TO: SD Fell
Sylakosky

Most of Morgadel and a few of his buddies will be here Thursday a.m. (they will be driving down from Phoenix) October 5.

Apparently mainly a social visit to meet "the new man in charge of mining" over hopefully his boss.

13-2
from Don Crowell

TABLE .- BULK DENSITY MEASUREMENTS - VOLUME DISPLACEMENT METHOD, YARNELL ~~CORE~~ rock SAMPLES

SAMPLE	SPECIFIC GRAVITY	BULK DENSITY lb/ft³	BULK VOLUME ft³/ton
YSG-1	3.60	224.7	8.90
-2	2.92	182.3	10.97
-3	3.15	196.6	10.17
-4	2.94	183.5	10.90
-5	3.29	205.4	9.74
-6	3.02	188.5	10.61
-7	2.83	176.6	11.32
-8	3.15	196.6	10.17
-9	3.17	197.9	10.11
-10	3.17	197.9	10.11
-11	2.96	184.8	10.83
-12	3.99	249.0	8.03
AVG	3.18	198.65	10.155

10-3.
Mark will bring down core & have it run in Tucson.
DEC checking on who best to do it.

ASARCO

Southwestern Exploration Division

JDS

October 2, 1989

R.L. Brown
New York Office

M.A. Miller's Map
Santa Fe Portion
Yarnell Project
Yavapai County, AZ

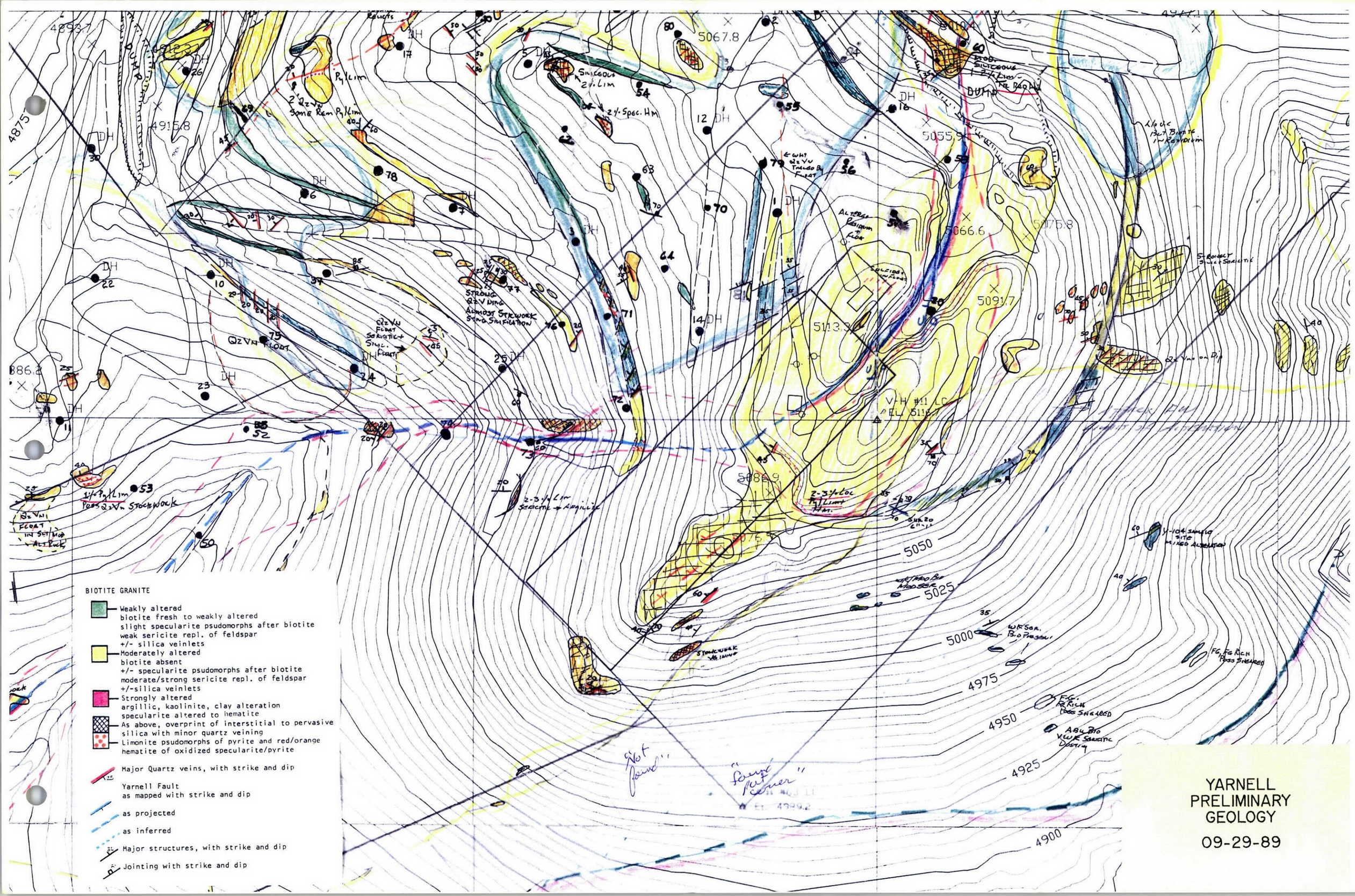
Attached is a portion of Mr. Miller's map (before drafting for final copy) showing the alteration and trend of the Yarnell fault-mineral zone. Also shown is the outline of the Santa Fe-Maricopa holdings and the adjacent claim corners of the patented claims under option by Asarco.

James D. Sell

James D. Sell

JDS:mek
Att. (5 copies)

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


BIOTITE GRANITE
Weakly altered
biotite fresh to weakly altered
slight specularite psudomorphs after biotite
weak sericite repl. of feldspar
+/- silica veinlets
Moderately altered
biotite absent
+/- specularite psudomorphs after biotite
moderate/strong sericite repl. of feldspar
+/-silica veinlets
Strongly altered
argillic, kaolinite, clay alteration
specularite altered to hematite
As above, overprint of interstitial to pervasive
silica with minor quartz veining
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
as projected
as inferred
Major structures, with strike and dip
Jointing with strike and dip
DUMP
5050
5025
5000
4975
4950
4925
4900
"Not found"
"Found flat corner"
YARNELL
PRELIMINARY
GEOLOGY
09-29-89

RLB 10-3

Find out what AZ tax on Ore Reserves.

Yarnell

Property tax as mining operation
Assign value to ore bodies
one of three
- Cost of operation
- Income proceeds
- Benefit to State. (negotiable)

Severance tax, after significant production

Wrote note to WLK that George would be glad to chat w/ him/her about such

ASARCO

Southwestern Exploration Division

JDS

October 3, 1989

M.A. Miller

Clean-up of Yarnell Geology
Yarnell Project
Yavapai County, Arizona

Mr. R.L. Brown desires a cleaned up map.

1. Label all the claim corners as "surveyed," and place a △ at corner, such as now at the SW corner of Juniper. Do this for all claim corners including Santa Fe and Maricopa plots. Put in legend.

2. Label the non-surveyed corners as "NS" and put in legend.

3. The Biotite Granite legend did not get the "Fresh" description and needs to be put in legend.

4. Revamp the mineral top-bottom in better control by your last sampling and relook at section projections.

5. Write report and publish as soon as possible.

6. Et cetra.

James D. Sell

JDS:mek

James D. Sell

cc: D.A. Melhado
W.L. Kurtz

ASARCO

Southwestern Exploration Division

JDS

October 3, 1989

R.L. Brown
New York Office

M.A. Miller's Map
Santa Fe Portion
with Entire Juniper Claim
Yarnell Project
Yavapai County, AZ

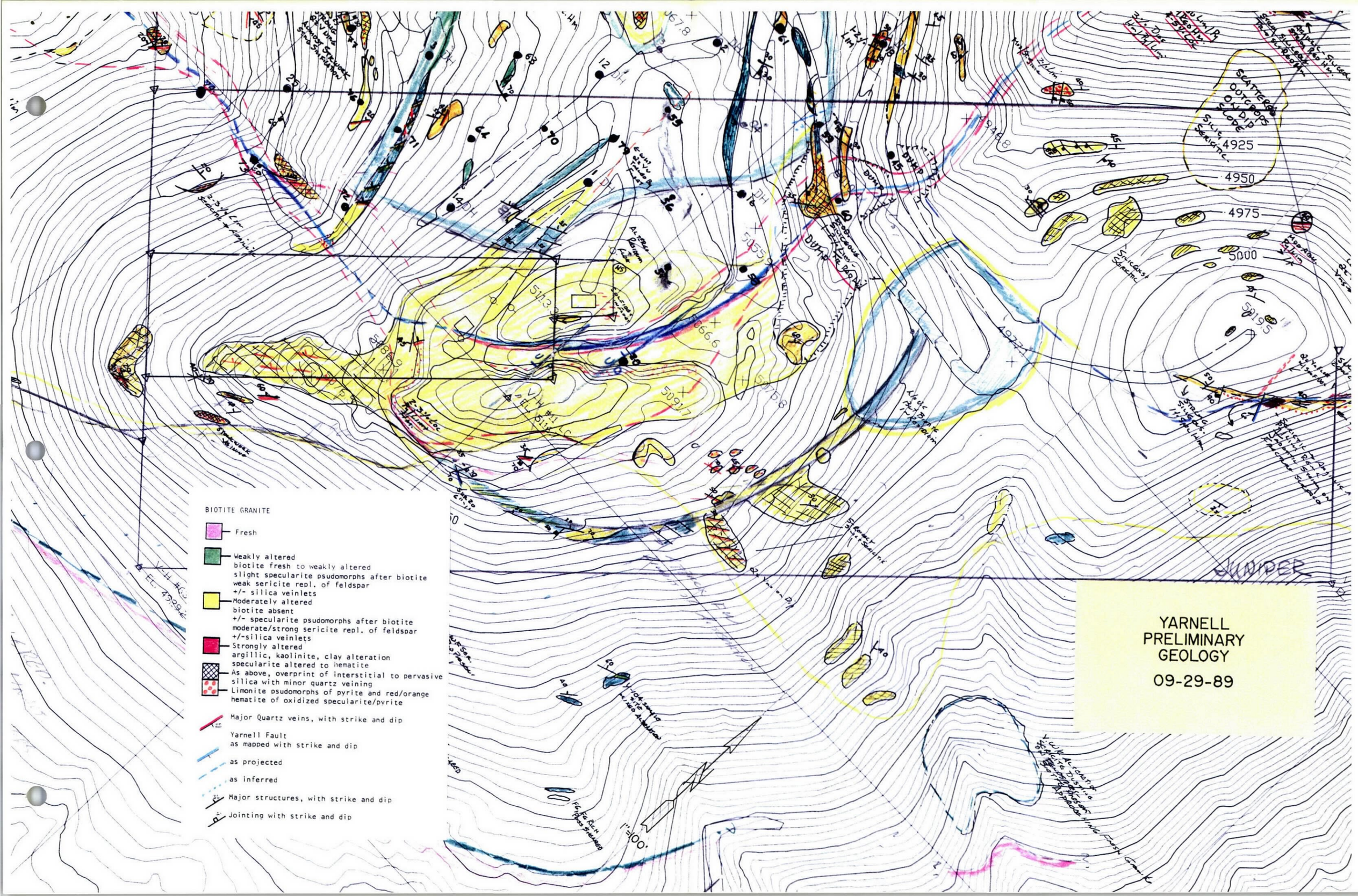
As you have requested, I now submit a copy of Mr. Miller's map showing the entire Juniper claim from which was carved out the Santa Fe block which also secured the mineral rights. The smaller Maricopa block has surface use only rights.

James D. Sell

James D. Sell

JDS:mek
Att. (5 copies)

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


YARNELL
PRELIMINARY
GEOLOGY
09-29-89
BIOTITE GRANITE
Fresh
Weakly altered
biotite fresh to weakly altered
slight specularite psudomorphs after biotite
weak sericite repl. of feldspar
+/- silica veinlets
Moderately altered
biotite absent
+/- specularite psudomorphs after biotite
moderate/strong sericite repl. of feldspar
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Strongly altered
argillic, kaolinite, clay alteration
specularite altered to hematite
As above, overprint of interstitial to pervasive
silica with minor quartz veining
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
as projected
as inferred
Major structures, with strike and dip
Jointing with strike and dip
1"=100'
4925
4950
4975
5000
JUNIPER

JDS

10/3

FROM: W. L. KURTZ

TO: JD Sell

1. Do you have Montg. Rpt? better read it; show me — given to me 10/3 I gave it to Walt 10/3

2. Agree property map Lonty over due

3. Agree you / Gary determine title defects mentioned by Haggard + determine IF they need to be remedied.

Q What about sec. 13, 14 T 10N R 5W OR Peeples Valley?

ASARCO

Southwestern Mining Department

October 3, 1989

MEMORANDUM

TO: J. D. Sell

FROM: S. L. Lakosky

RE: Property Maps for the Yarnell Project

On September 28, 1989, a preliminary meeting to discuss the permitting procedure for the Yarnell Project was held in Phoenix, at the office of Apker, Apker, Haggard & Kurtz, P. C. In attendance were: Burton Apker and Jerry Haggard of Apker, Apker, Haggard & Kurtz, P. C.; Douglas McAllister of Fennemore Craig, P. C.; and Tom Scartaccini, Pat Maley and Sy Lakosky of ASARCO Incorporated.

During the course of the meeting, Jerry Haggard suggested that Asarco, as soon as possible, produce a detailed property map of the Yarnell Project area and surrounding areas. Also needed in a less timely manner, is a property map of the area surrounding Errol L. Montgomery & Associates, Inc.'s proposed locations for three (3) exploratory water supply wells on or near Sections 4 and 5 of T. 9 N., R. 5 W. and Sections 32 and 33 of T. 10 N., R. 5 W. Potential routing of a water supply pipeline from the proposed drilling area to the Yarnell Project area would likely traverse Sections 21, 22, and 28 of T. 10 N., R. 5 W.; therefore, those sections should also be included on the second property map. Attached for your reference is a review draft of Errol L. Montgomery & Associates, Inc.'s preliminary hydrogeologic reconnaissance report.

In closing, Jerry Haggard reminded us that several title defects noted in the Title Opinion still require action by the Exploration Department.

S. L. Lakosky
S. L. Lakosky
Yarnell Project Manager

SLL/kh
cc: TEScartaccini
WLKurtz
WDGay

JDS — WDG

ASARCO

Southwestern Mining Department

October 3, 1989

MEMORANDUM

TO: J. D. Sell

FROM: S. L. Lakosky

RE: Property Maps for the Yarnell Project

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oh, my yes!

Guess Gay can do this but make it correct this time!

In closing, Jerry Haggard reminded us that several title defects noted in the Title Opinion still require action by the Exploration Department.

JDS WDG take care of those needed

S. L. Lakosky
S. L. Lakosky
Yarnell Project Manager

SLL/kh
cc: TEScartaccini
WLKurtz
WDGay

JDS.

ASARCO

Southwestern Mining Department

October 3, 1989

MEMORANDUM

TO: J. D. Sell

FROM: S. L. Lakosky

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S. L. Lakosky
S. L. Lakosky
Yarnell Project Manager

SLL/kh
cc: TEScartaccini
WLKurtz
WDGay

ASARCO

Exploration Department
Southwestern United States Division

October 3, 1989

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

Dear Jerry:

Enclosed are copies of the recorded documents from the conveyance of property to Eugene A. Albright and a map showing his property along with the U.S. 89 right-of-way.

The only question on the documents was the last sentence Book 1871, page 943, but during our telephone conversation 9/29/89 you indicated it was probably invalid.

The other item as shown on the map is that I think the patented Edmond Claim was never made whole by reversion after the new road was built. Beyond getting the old right-of-way abandoned on the Edmond could the entire old right-of-way be reasonably moved and aligned with the new road as shown on the map?

Sincerely,

William D. Gay

William D. Gay
Land Engineer, SWED

WDG:mek
Encs.

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

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

Form 1860-9
(March 1953)
(formerly 4-1043)

A-19150

PATENT

The United States of America

To all to whom these presents shall come, Greeting:

WHEREAS,

Robert H. Combs and
Bernice M. Combs

$5 | 1 ✓ | 5 | Rec | St

are entitled to a patent pursuant to Section 209 of the Act of October 21, 1976, 90 Stat. 2757; 43 U.S.C. 1719 (1976), conveying the mineral interests, except the oil and gas resources, underlying the following described lands:

Gila and Salt River Meridian, Arizona

T. 10 N., R. 5 W.,
Sec. 15, E½NE¼SE¼ except that portion which lies Northeasterly of a line 100.00 feet Southwesterly of, parallel and concentric with the following described line;

INSTRUMENT # 8641729
OFFICIAL RECORDS OF
YAVAPAI COUNTY
PATSY C. JENNEY
REQUEST OF:
TRANSAMERICA TITLE INS CO
DATE: 10/31/86 TIME: 15:50
FEE: 5.00
BOOK 1871 PAGE 939 PAGES: 002

COMMENCING at a point on the East line of said Section 15, which point bears South 0°01'11" East 768.64 feet from the East quarter corner thereof; thence North 20°48'11" East 48.04 feet; thence along a spiral curve to the left having an "a" = 10, a distance of 200 feet; thence from a local tangent bearing of North 20°48'11" East along the arc of a curve to the left having a radius of 286.48 feet, a distance of 288.96 feet to the POINT OF BEGINNING; thence from a local tangent bearing of North 35°59'22" West along a spiral curve to the left having an "a" = 10, a distance of 200.00 feet; thence North 56°59'22" West 6.31 feet; thence along a spiral curve to the right having an "a" = 5, a distance of 200.00 feet; thence from a local tangent bearing of North 46°59'22" West along the arc of a curve to the right having a radius of 572.96 feet, a distance of 300.00 feet to the POINT OF ENDING.

COURTESY RECORDING
NO LIABILITY

containing 13 acres, more or less;

NOW KNOW YE, That there is, therefore, granted by the UNITED STATES unto the above-named claimants the mineral interests, except the oil and gas resources, in the lands above described;

TO HAVE AND TO HOLD the said mineral interests, with all the rights, privileges, immunities, and appurtenances of whatsoever nature thereunto belonging, unto the said claimants, their successors and assigns forever;

BOOK 1871 PAGE 939

Patent Number

Form 1820-10
(July 1979)
A-19160

EXCEPTING AND RESERVING TO THE UNITED STATES:

1. Rights-of-way for ditches and canals constructed by the authority of the United States. Act of August 30, 1890, 26 Stat. 391; 43 U.S.C. 945.

2. All the oil and gas in the area of mineral interests so patented, and to it or persons authorized by it, the right to prospect for, mine, and remove the same, subject to such conditions as are or may hereafter be provided by such laws reserving such deposits. Act of February 25, 1920, 41 Stat. 450; 30 U.S.C. 182.

SUBJECT TO:

Oil and Gas Lease A-18162 and any extensions thereof.

BOOK 1871 PAGE 940

SEAL

[SEAL]

IN TESTIMONY WHEREOF, the undersigned authorized officer of the Bureau of Land Management, in accordance with the provisions of the Act of June 17, 1948 (62 Stat. 476), has, in the name of the United States, caused these letters to be made Patent, and the Seal of the Bureau to be hereunto affixed.

GIVEN under my hand, in PHOENIX, ARIZONA the TWENTIETH day of SEPTEMBER in the year of our Lord one thousand nine hundred and EIGHTY FOUR and of the Independence of the United States the two hundred and NINTH.

By Mario L. Lopez
Mario L. Lopez
Acting Deputy State Director for Operations

Patent Number 02-84-0072

☆ U.S. GOVERNMENT PRINTING OFFICE 1983 — 776-842

STATE OF ARIZONA, County of _____; ss.
I do hereby certify that the within instrument was filed and recorded at request of _____
_____ on _____ at _____ m., Docket _____
Page _____, Records of _____ County, Arizona.
WITNESS my hand and official seal the day and year first above written.

Whom recorded, mail to:
Continental Service Corp.
P.O. Box 500
Phoenix, AZ 85001

_____, County Recorder
By _____ Deputy

$7 1✓ 4✓
Rec Fee P Co

33035180-1

Escrow No. _____

AGREEMENT

THIS AGREEMENT is entered into in triplicate this 28th day of October, 19 86, between
ROBERT H. COMBS AND BERNICE M. COMBS, husband and wife
as Vendor, and
EUGENE A. ALBRICHT, a single man
, as Vendee.

☐ Vendee is taking title as JOINT TENANTS WITH RIGHT OF SURVIVORSHIP, not as Tenants in Common and not as Community Property.

WITNESSETH:
That Vendor, in consideration of the following covenants and agreements, agrees to sell and convey to Vendee, and Vendee agrees to buy, all that certain real property, together with the rights and appurtenances thereto, located in the County of Yavapai, State of Arizona, described as follows:

SEE DESCRIPTION ATTACHED HERETO AND MADE A PART HEREOF

the title to which is understood and agreed to be subject to all taxes and other assessments, reservations in patents and all easements, rights-of-way, encumbrances, liens, covenants, restrictions, obligations and liabilities as may appear of record, for the sum of * * *ONE HUNDRED FIFTY THOUSAND AND NO/100* * * * * * * * * * * * * * * * Dollars, ($ 150,000.00), lawful money of the United States of America, and Vendee agrees in consideration of the premises to pay said sum in the following manner: $50,000.00 Upon the signing and sealing of these presents, receipt of which is hereby acknowledged; and $100,000.00 to wit: In monthly installments of $965.03 or more on or before the 1st day of every month, beginning December 1, 1986, with interest on all unpaid principal at the rate of 10% per annum from October 31, 1986 payable monthly, the interest to be first deducted from the regular monthly installments and the balance to be applied upon the principal.

PROVIDED HOWEVER, if not sooner paid the entire unpaid balance of principal and interest shall be paid in full on or before December 1, 1996.

INSTRUMENT # 0641730
OFFICIAL RECORDS OF
YAVAPAI COUNTY
PATSY C. JENNEY
REQUEST OF:
TRANSAMERICA TITLE INS CO
DATE: 10/31/86 TIME: 15:00
FEE: 7.00
BOOK 1871 PAGE 941 PAGES 001

BOOK 1871 PAGE 941

In consideration of the premises, the parties agree that all payments of the deferred installment obligation shall be remitted to CONTINENTAL SERVICE CORPORATION as SERVICING AGENT

Form No. A-34 Revised 7-16-81

Vendee shall pay, before they become delinquent, all installments of principal and interest of any improvement liens against said property not delinquent at the date hereof; and all taxes and assessments on said property levied subsequent to the recordation of this Agreement together with all other assessments and charges for or on account of irrigation water or power used for furnishing irrigation water after the date hereof. Vendee shall keep the buildings erected, or to be erected, upon said property insured against fire in the amount of the reasonable insurable value thereof, in an insurance company to be approved by Vendor, for the mutual benefit and protection of the parties hereto.

If Vendee fails to pay any such taxes, charges, assessments or premiums for fire insurance, or fails to pay any amount due upon or fails to perform any condition or covenant of any Agreement, Mortgage or Deed of Trust required of Vendee, before the same shall have become delinquent, Vendor shall have the right to pay or procure the same after delinquency, and the amount so advanced and such repayment thereof shall be secured hereby and shall be repaid to Vendor by Vendee on demand, together with interest thereon at the maximum legal rate per annum from date advanced by Vendor until repaid, and any payment so made by Vendor shall be prima facie evidence of the necessity therefor. If Servicing Agent is notified in writing by Vendor of any such advances, it shall not deliver the release document(s) to Vendee until repayment thereof with interest shall have been made, together with Servicing Agent's fees.

If Vendor institutes suit against Vendee to enforce Vendor's rights under this Agreement and obtains a valid judgment against Vendee, Vendee agrees to pay all costs, expenses and attorney's fees of Vendor.

The release document(s), subject to all taxes and other assessments, reservations in patents and all easements, rights-of-way, encumbrances, liens, covenants, restrictions, obligations, liabilities and exceptions affecting the title to said property as may appear of record, has been delivered to Servicing Agent and shall be delivered to Vendee upon fulfillment of the Vendee's obligations under the terms of this Agreement.

Vendee may enter into possession of said property and continue in such possession for and during the life of this Agreement. Vendee agrees to maintain said premises and all improvements thereon in good repair; to permit no waste thereof; and to take the same care thereof that a prudent owner would take.

No transfer or assignment of any rights hereunder made by anyone having an interest herein shall be recognized by Servicing Agent unless made in such manner and accompanied by such deeds and other instruments as shall be required to be deposited with Servicing Agent, nor until its regular fees and other costs shall have been fully paid.

Vendor and Vendee, and each of them, promise to pay promptly and to indemnify and hold harmless Servicing Agent and Transamerica Title Insurance Company as Escrow Agent against all costs, damages, attorneys' fees, expenses and liabilities which, in good faith and without fault on their part, they may incur or sustain in connection with this Agreement and in connection with any court action arising out of this Agreement.

Should Vendee default in making any payment when due or in fulfilling any obligation hereunder, Vendor may either elect to bring an action against Vendee for specific performance of this Agreement, foreclose this Agreement as a mortgage, if applicable, or enforce a forfeiture of all rights, title and interest of the Vendee in any lawful manner, including, but not limited to, FORFEITURE BY NOTICE as provided for in Sections 33-741 through 33-749, Arizona Revised Statutes. Neither the provisions of this paragraph nor any provisions of the escrow shall affect any lawful right or remedy which the Vendor may have against the Vendee.

By executing this Agreement, Vendee accepts and approves the vesting shown. All parties represent that they are of legal age.

Time is of the essence of this Agreement.

This Agreement shall be binding upon the heirs, personal representatives, successors and assigns of the respective parties hereto.

IN WITNESS WHEREOF, Vendor and Vendee sign below on the date shown above.

Robert H. Combs
ROBERT H. (Vendor) COMBS

Bernice M. Combs
BERNICE M. COMBS (Vendor)

Eugene A. Albright
EUGENE A. (Vendee) ALBRIGHT

SEAL

(Vendee)

STATE OF ARIZONA
County of YAVAPAI } ss.

This instrument was acknowledged before me this 2 day of Oct, 1986
by Eugene A. Albright

Notary Public

My commission expires: My Commission Expires Apr. 20 1990

STATE OF ARIZONA
County of YAVAPAI } ss.

This instrument was acknowledged before me this 30th day of October, 1986
by Robert H. Combs and Bernice M. Combs

SEAL

Notary Public

My commission expires: My Commission Expires April 14, 1988

NOTARY PLEASE NOTE: FILL IN THE NAME OF THE PARTIES WHOSE SIGNATURE YOU ARE ACKNOWLEDGING ON THE LINES IMMEDIATELY FOLLOWING THE WORD "BY".

Transamerica Title Insurance Company

33035180

DESCRIPTION

That portion of the East Half of the Northeast Quarter of the Southeast Quarter of Section 15, Township 10 North, Range 5 West, of the Gila and Salt River Base and Meridian, Yavapai County, Arizona, lying North and West of the State Highway as such Highway existed March 29, 1943.

EXCEPTING THEREFROM the following described tract:

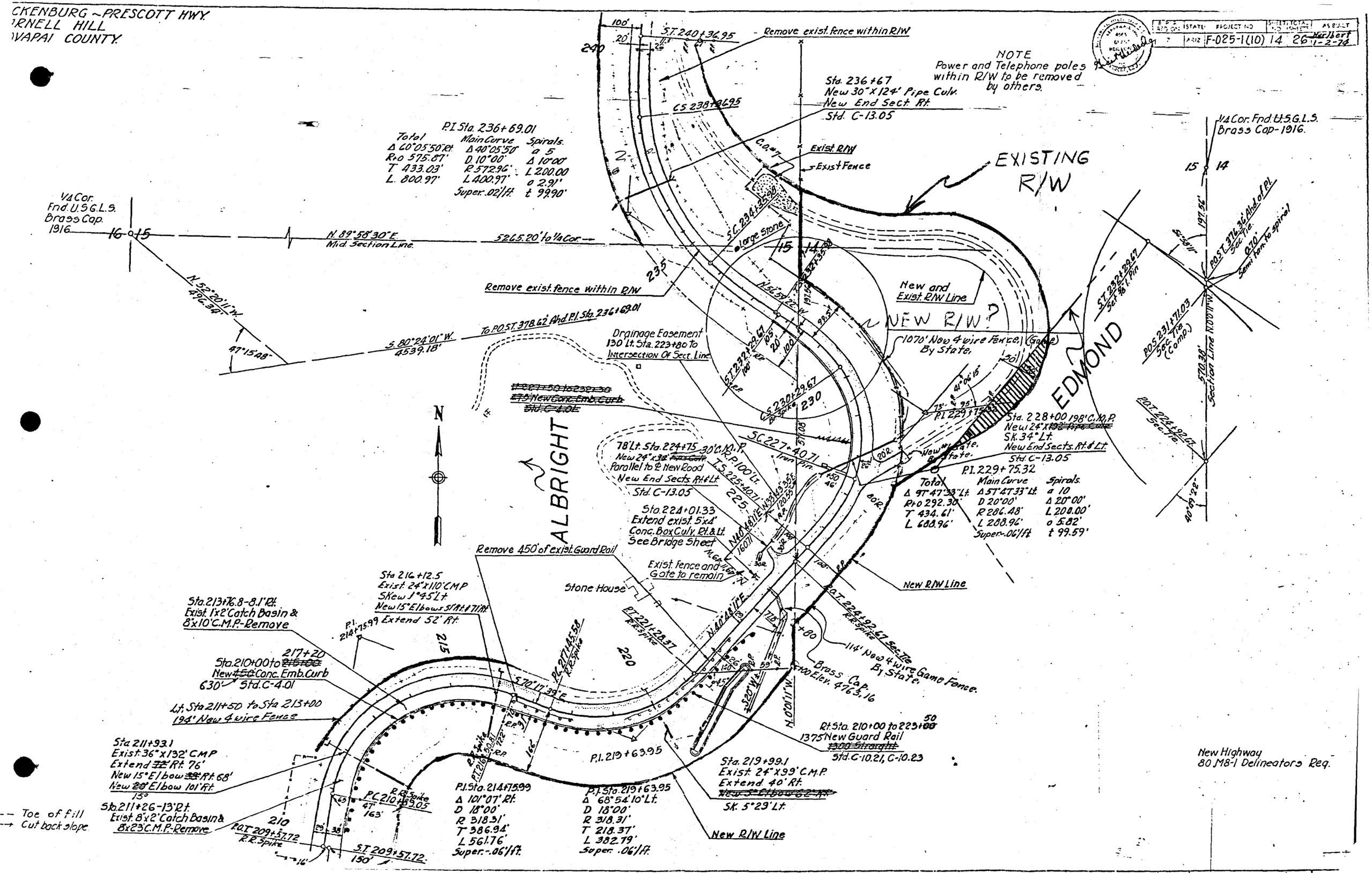
That portion of the East Half of the Northeast Quarter of the Southeast Quarter of Section 15, Township 10 North, Range 5 West, of the Gila and Salt River Base and Meridian, Yavapai County, Arizona, which lies Northeasterly of a line 100.00 feet Southwesterly of, parallel and concentric with the following described line:

COMMENCING at a point on the East line of said Section 15, which point bears South 0°01'11" East, 768.64 feet from the East Quarter corner thereof;
Thence North 40°48'11" East, 48.04 feet;
Thence along a spiral curve to the left having as "a" = 10, a distance of 200 feet;
Thence from a local tangent bearing of North 20°48'11" East, along the arc of a curve to the left having a radius of 286.48 feet, a distance of 288.96 feet to the POINT OF BEGINNING;
Thence from a local tangent bearing of North 36°59'22" West, along a spiral curve to the left having an "a" = 10, a distance of 200.00 feet;
Thence North 56°59'22" West, 6.31 feet;
Thence along a spiral curve to the right having as "a" = 5, a distance of 200.00 feet;
Thence from a local tangent bearing of North 46°59'22" West, along the arc of a curve to the right having a radius of 572.96 feet, a distance of 300.00 feet to the POINT OF ENDING.

EXCEPT all minerals as reserved by the United States of America disclosed in Patent from State of Arizona, recorded in Book 168 of Deeds, page 437. U.S. reserved minerals [illegible]

CKENBURG ~ PRESCOTT HWY.
RNELL HILL
VAPAI COUNTY.

STATE	PROJECT NO	SHEET NO.	TOTAL SHEETS	AS BUILT
ARIZ	F-025-1(10)	14	26	Herbert 1-2-74



JDS

ASARCO

Southwestern Exploration Division

October 3, 1989

J.D. Sell

Additional Drill Hole
Yarnell Project
Yavapai County, AZ

The attached drill holes were scheduled to be completed during Phase 3, but due to no more budget money we will not be able to drill unless an additional appropriation is made. Additional drilling is ±1200'.

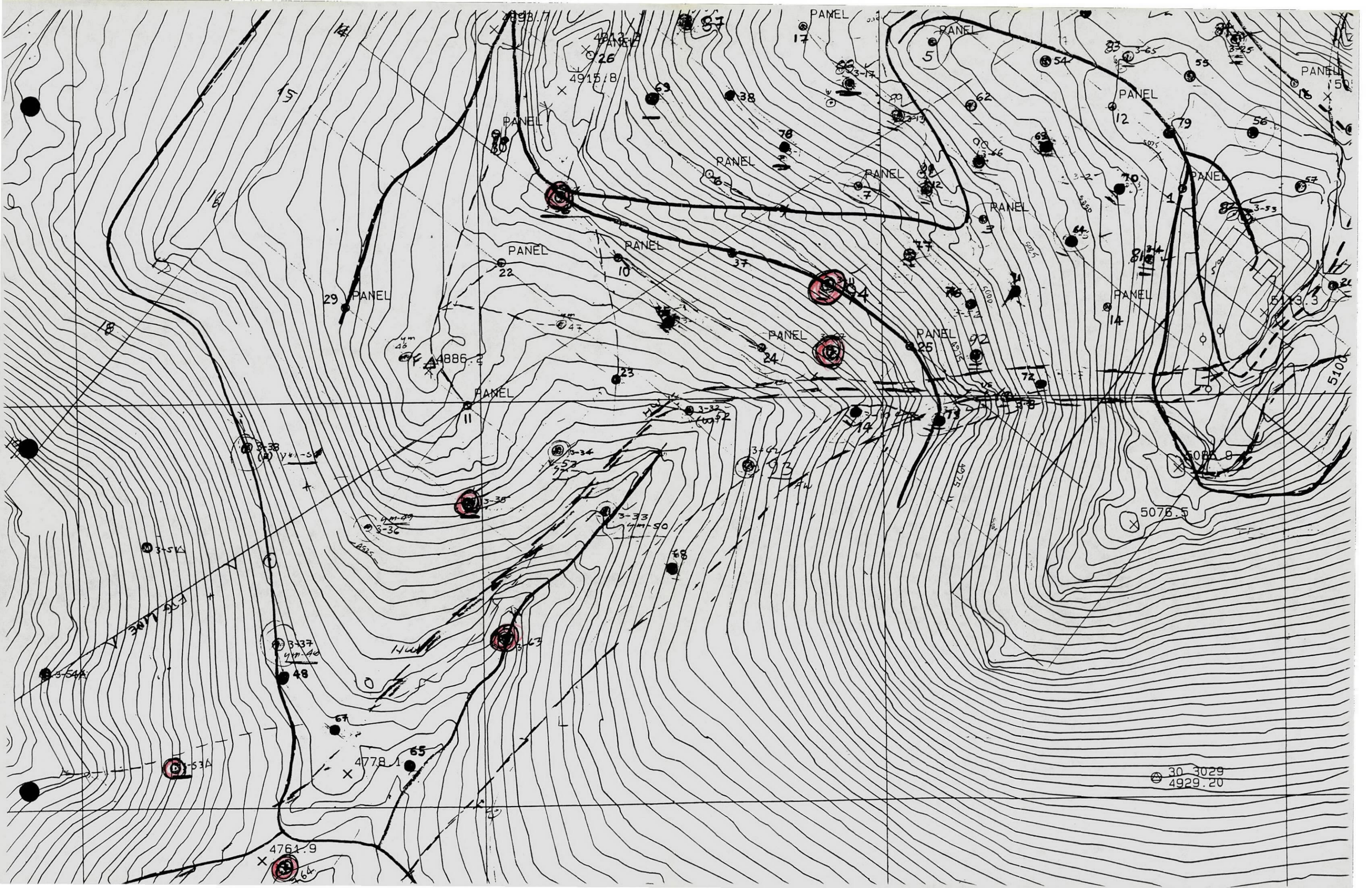
Drilling	$10,000
Assay	3,600
Living, Misc., Salaries	4,000

Estimated additional expenditures will be approximately $20,000 to complete the rest of the holes.

MAM:mek

Mark A. Miller

cc: W.L. Kurtz


PANEL
4915.8
4886.2
4778.1
4761.9
5076.5
5088.9
5143.3
4929.20
30 3029

ASARCO

~~JDS MAM~~ JDS

Mineral Beneficiation Department

ASARCO Incorporated

OCT 3 1989

SW Exploration

October 3, 1989

Mr. S. L. Lakosky
Mine Superintendent
MISSION UNIT

Yarnell Metallurgical Test Status

Attached are column leach data sheets for the three columns under leach at McClelland Laboratories. Comments regarding these tests are as follows.

It must be kept in mind that the indicated recovery figure is valid only if the ore in the column actually assays the average head value of 0.063 opt. We will not know the true recovery until the columns are taken down and we have multiple assays of the tailing which, together with the total soluble gold values, will give us an accurate figure for the gold content of the ore in the column.

6-inch Feed Size Column

This column has run 40 days with an indicated recovery to date of only 27.8%. Although leaching continues, it is doubtful if the leaching rate and/or ultimate gold recovery will be feasible at this size.

2-inch Feed Size Column

This column has been leaching for 30 days with an indicated recovery to date of 40.2%. Leaching continues at a reasonable rate with pregnant solution assaying 0.36 ppm Au. This column will be allowed to continue leaching.

3/8-inch Feed Size Column

This column has leached for 30 days with an indicated recovery to date of 58.1%. Leaching continues but pregnant solution values have dropped to ±0.2 ppm which may be close to the economic limit. We will probably leach for one more week, then drain and rest for two weeks before continuing to leach.

D. E. Crowell

DEC:brw
Attachments
cc: T. E. Scartaccini w/att.
J. D. Sell/M. A. Miller "
W. L. Kurtz "
RL Brown/FT Graybeal

1378-B1

								oz/ton Au	oz/ton Ag
POUNDS	4800								
ASSAY TONS	74648.	NaCN added	2960 g	LIME	10 lb/t		Tail	0.000	0.000
TONS	2.4	NaCN Con.	0.37 lbs/t	BASE	0 lb/t		head assay	0.063	0.000
							head screen		

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	0.0	0.0001	0.0	109.58	109.58	5.346	5.346
6	76.64	1.6	11.7	1.44	0.08	0.00	0.00	0.0029	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	0.0012	0.0	9.99	1307.5	0.148	91.948

1378-P3

								oz/ton Au	oz/ton Ag
POUNDS	2093.1								
ASSAY TONS	32551.	NaCN added	924 g	LIME	10 lb/t		tail	0.000	0.000
TONS	1.047	NaCN Con.	0.35 lbm/t	BASE	0 lb/t		head assay	0.060	—
							head screen		

DAILY COLUMN LEACH DATA: HIGH GRADE/LOW GRADE COMP.
2" 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 kg	Au cum. kg	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	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	0.0007	0.0	14.285	773.37	1.19	23.144
27	30.80	1.9	11.9	0.46	0.04	0.00	0.00	0.0242	0.0	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	0.0	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	0.0	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	0.0	0.0008	0.0	11.311	822.46	-0.112	25.632

1376-P2

								oz/ton Au	oz/ton Ag
POUNDS	966.67								
ASSAY TONS	15033.	NaCN added	588 g	LIME	0 lb/t		Tail	0.000	0.000
TONS	0.483	NaCN Con.	0.42 lbm/t	CEMENT	10 lb/t		head assay	0.063	—
							head screen		

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
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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	0.0021	0.0	4.032	549.85	0	31.75

JDS

ASARCO

Southwestern Exploration Division

October 3, 1989

F.T. Graybeal
New York Office

September 1989
Yarnell Progress Report
Yarnell Project
Yavapai County, Arizona

Attached are copies of the Yarnell Project EA-0444 Activity Sheet.

As noted, the geologic mapping is nearly complete and the sampling for claim discovery has started.

The rotary drilling may terminate upon completion of the two holes in progress. The diamond drilling has completed one hole YDDH-1 which is a twin of YM-8 rotary hole, and the second hole started.

The underground has been surveyed.

The metallurgical tests are still in progress and suggest that the 6" feed does not return favorable results. The other two size ranges are approaching favorable rates.

The mineral inventory - reserve estimate is in progress by both the Exploration and Computer Services groups.

Mr. S.L. Lakosky is well along on digesting the available information.

James D. Sell

JDS:mek

James D. Sell

cc: W.L. Kurtz
W.D. Gay
S.L. Lakosky
M.A. Miller

YARNELL PROJECT EA-0444

Yavapai County, Arizona

AREA OF ACTIVITY	PERSONNEL	1989 JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	1990 JAN.
Geol. Mapping/Alteration Studies - Claim Area	MAM	X							
Sampling for discovery - Claim Area	MAM	XXX	X						
Permits, Drilling, as needed	MAM								
Rotary Drilling, sites, logging	JJM-MAM					XX			
Drill Hole Location Survey	WDG					XX			
Claim Survey, Clean-up	WDG		X						
Re-Tuned ROI, Preliminary	SWMD	XXXX							
Base-Line Water Survey	WDG-MAM	XXXX	XXXX	XXXXX	XXXX	XXXX	XXXXX	XXXX	
Open-cut Sampling, Metallurgical	JJM-MAM								
Aerial Survey Control Points	WDG				X				
Permits - Establish Guidelines/Time Table	SWMD	X	X						
Mapping/Sampling - Outside Claims	MAM		XXXX						
Claim Staking Anomalous Areas	MAM-WDG	X	XXXX						
Local Demography (Yarnell/Glen Ilah)	JDS-Consultant	XX					XX		
Core Drilling, 4 holes, sites, logging, Metallurgy	JJM-MAM		XXX						
Photography, Aerial	WDG-Contractor								
Blasting & Removal of Open-cut Metallurgical Sample	SWMD-Contractor								
Topography Map, Mine Area/Photography Total Area	WDG-Contractor					X			
Underground Surveying	WDG-Contractor			X					
Underground Sampling	WDG-JJM		X	X					
Final Drilling/Geology/Ore Reserve Est. Report	MAM-JDS			XX					
Permits for Mining/Metallurgical Operations	SWMD			XXXXX	XXXX	XXXX	XXXXX	XXXX	XXXXX
Column Leach Tests	MBD-McC			XXX	XXXX				
Ore Reserve	SWMD-SWED			XX					
Water Supply Evaluation/Recommendations	MAM-WDG-SWMD				XXX				
Development/Condemnation Drilling	MAM-SWMD					XXXX	XXXXX	XXXX	XXXXX
Metallurgical Reports/Recommendations	MBD-McC					XXXX			
Feasibility Report	SWMD					XXXX			
Removal of Microwave Towers	WDG-Contractor					XXXX			
Mine/Metallurgical Plant Planning/Development	SWMD-MBD					XXXX	XXXXX	XXXX	XXXXX

PERSONNEL:

JDS, James D. Sell
JJM, John J. Malusa, geologist, temporary
MAM, Mark A. Miller, project supervisor, geolgoist
MBD, Mineral Beneficiation Dept.
McC, McClelland Laboratories, Inc.

SWED, Southwestern Exploration Division
SWMD, Southwestern Mining Department
WDG, William D. Gay, land engineer

J.D. Sell
10/3/89

ASARCO

Southwestern Exploration Division

JDS

October 3, 1989

J.D. Sell

Additional Drill Hole
Yarnell Project
Yavapai County, AZ

The attached drill holes were scheduled to be completed during Phase 3, but due to no more budget money we will not be able to drill unless an additional appropriation is made. Additional drilling is ±1200'.

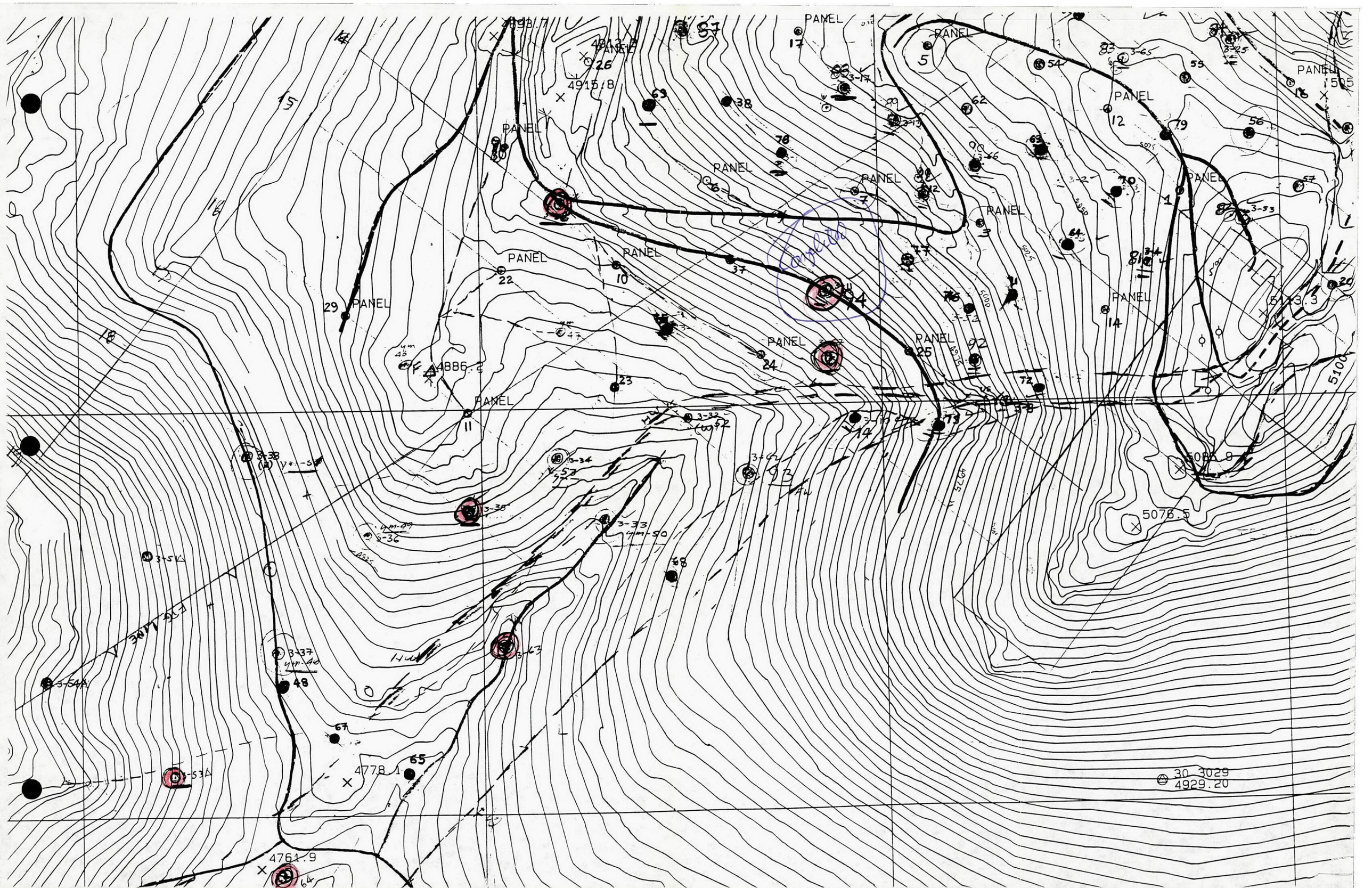
Drilling	$10,000
Assay	3,600
Living, Misc., Salaries	4,000

Estimated additional expenditures will be approximately $20,000 to complete the rest of the holes.

Mark A. Miller

MAM:mek

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


PANEL
4915.8
4886.2
4778.1
4761.9
5076.5
5100
5143.3
30 3029
4929.20

ASARCO

Southwestern Exploration Division

JDS

October 3, 1989

R.L. Brown
New York Office

See reply of 11-7-FAX Nov 27, 1989

Yarnell Project
Yavapai County, AZ

I submit an application for Supplemental Exploration Appropriation, Form 302-MB, of funds for payment of the end-of-the year payment to the underlying patented claim owner, Western Building, as triggered by Asarco's acceptance of Article 4.2 of the Exploration and Option Agreement.

The additional expenditure request will be applied for the final drilling - rotary and core drilling - and clean-up of the Exploration Department activities at the Yarnell Project.

Figure 1 is the Drilling Progress Map with the location, elevations, and values of 93 of the 96 holes collared to date. Final drilling of holes 94 and 96 will be completed by October 15.

Core holes are in progress to twin rotary holes YM-8, 40, 63, and 75, with YDDH-1 (YM-8) now complete.

I look forward to the acceptance of this SEA.

James D. Sell

James D. Sell

JDS:mek
Att.

cc: W.L. Kurtz
M.A. Miller
S.L. Lakosky
C.L. Snow (Form 302-MB only)

FORM 302-MB (9/79)

New York No. .....

APPLICATION FOR SUPPLEMENTAL EXPLORATION APPROPRIATION

October 3, 1989. Originating Office Tucson

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

No. EA-0444-03, Yarnell Project, Yavapai County, Arizona

Present total Estimated Cost (Form 302-MA attached)	$720,000
Amount previously authorized (date thru 8/7/89)	$570,000
Balance for which Authorization is now requested	$150,000

ADDITIONAL WORK CONTEMPLATED:

Payment of $100,000 due Western Building on 1/1/90.
Completion of exploration drilling, logging, assaying and reports.

EXPLANATION OF INCREASED COST:

Acceptance of payment due as per Article 4.2 of the Exploration and Option Agreement, based on the results of a 96-hole drill program.

Reviewed by C. L. Snow
ACC'T. MGR. OR CHIEF ACCN'T.

Recommended by James D. Sell
SUPERVISOR
James D. Sell

Approved by .....
CONTROLLER

Account Chargeable to .....
TO BE FILLED IN BY CONTROLLER

Approved by .....
VICE PRESIDENT

Approved by Advisory Committee

..... 19.....

Approved by Board of Directors

..... 19.....

.....
SECRETARY

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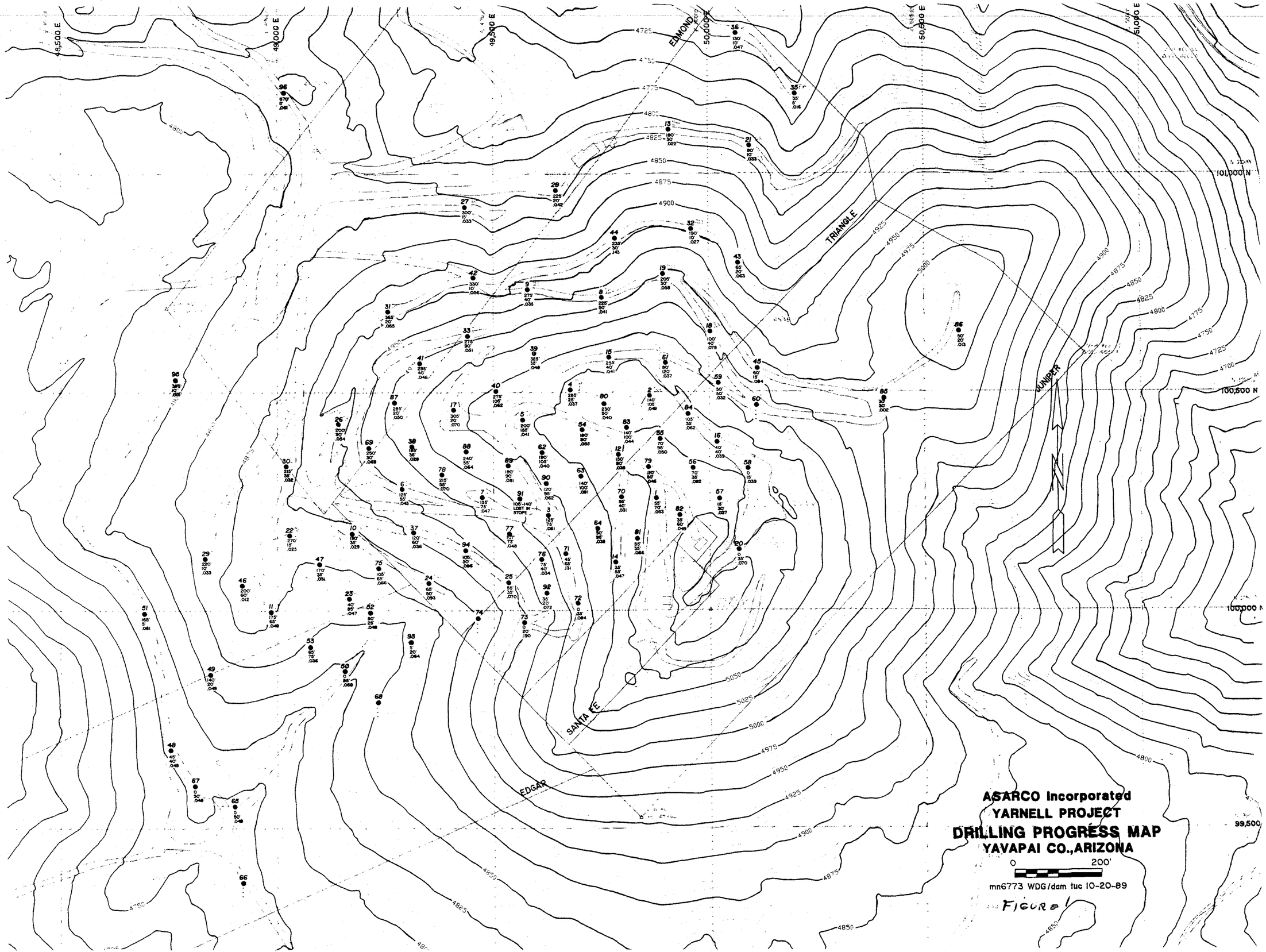
ASARCO Incorporated
YARNELL PROJECT
DRILLING PROGRESS MAP
YAVAPAI CO.,ARIZONA
0 200'
mn6773 WDG/dam tuc 10-20-89
FIGURE 1
EDMOND
TRIANGLE
JUNIPER
SANTA FE
EDGAR
48,500 E
49,000 E
49,500 E
50,000 E
50,500 E
51,000 E
101,000 N
100,500 N
100,000 N
99,500

JDS

ASARCO

Southwestern Exploration Division

October 4, 1989 (date typed)

J.D. Sell

Gene Albright Property
SE 1/4, Sec. 15, T10N, R5W
Yarnell Project
Yavapai County, Arizona

Gene Albright owns in fee (surface and minerals) 13.4 acres in the NE 1/4, SE 1/4, Section 15, across the road from the Yarnell deposit. Albright has constructed two drill pads and will commence diamond drilling with a Longyear rig on Monday, October 2, 1989. Anticipated depth to intersect the Yarnell Fault structure if it occurs is +1000'. Mr. Albright will not have extralateral rights on any mineralization he may find on his property as it is not a mining claim.

We have completed one hole on YAR 4 and are in the mineralized zone on YAR 3 at 550'. This will prove discovery on these claims which adjoin the Albright property.

We are also in the process of proving discovery on Asarco's unpatented claims YAR 31 thru 38 which are located in the SE 1/4 of Section 15. John Hayes, a Congressman from that area, owns 350 acres upon which we have staked and has applied for the mineral title to come back to him. Jerry Haggard will be sending you a letter explaining the legal situation of the above.

Mark A. Miller
Project Geologist

MAM:mek

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

JDS

ASARCO

Southwestern Exploration Division

October 4, 1989

R.L. Brown
New York Office

M.A. Miller
Monthly Report
September 1989
Yarnell Project
Yavapai County, AZ

DRILLING

Phase 3 drilling began at hole 68 and ended at hole 96. This phase continues to provide infill drill data within the main area of the deposit and test extensions both SW and NE. By the end of the next drilling shift (10 days) we will have completed all of our drill hole proposals and can release the rotary drill.*

Diamond drilling began on September 25, 1989. Boyles Brothers was selected as the drill contractor. The first hole Y-DDH-1 which is a twin to RC hole YM-8 was completed on September 28, 1989. A down-hole survey was done and showed no deviation. Very preliminary assessment of the hole suggests a considerable amount of quartz and quartz veins (more then has been seen in the R.C. holes), many at a low angle to the drill core (i.e., mimicing the Yarnell structure). Core recovery appears very near 100%. The second hole Y-DDH-2 was collared on September 29, 1989 and at month's end was at 122'. This hole is a twin of RC hole YM-40 and is targeted for 400'.

SURVEYING

All drill holes to YM-96 including Y-DDH-1 have been surveyed for location and elevation by W.D. Gay. In addition, minor clean-up of claim surveying continues. A preliminary map showing the surveyed claim locations has been published. All available and accessible underground workings were surveyed with Transit or Brunton tape. A map showing the current workings has been published by W.D. Gay.

GEOLOGIC MAPPING

Geologic mapping at a 1"=100' scale has been completed and after a field review and some additions was given to J.D. Sell on September 28, 1989. The mapping appears to indicate two distinct mineralized zones, designated upper altered zone and main altered zone. The upper zone appears to be controlled by a quartz vein →3' thick, possibly related to the Yarnell Fault at depth. The main altered zone is controlled by the Y.F.Z. and was the main area of production for the early miners and the bulk of our current reserve.

10/5/89 * (Drill will be released once YM-94 and 96 are completed. Additional proposals will not be drilled at this time.)

MISCELLANEOUS

A small two hole test was done on the cyclone stack dust to determine whether we were losing gold at the cyclone top (very, very fine dust). The results of the testing show a good correlation with the assay interval from the bottom of the cyclone, suggesting that although there is gold in the dust, it is proportional to the sample for assay (from the bottom of the cyclone).

TOPOGRAPHIC MAPPING

Western Air Maps has received additional control for the topographic mapping of Section 23 as requested by the Mineral Beneficiation Dept. This is the area that we will use for our leach pads. Expected delivery for the topographic mapping is October 15, 1989.

DISCOVERY ON UNPATENTED CLAIMS

Discovery has been made on YAR 26, 28, 29, 30. Probable discoveries have been made on YAR 36 and 38 in the SW extension of the Yarnell Fault Zone.

FORECAST

Finish drilling with RC drill. Continue diamond drilling and begin to log drill core. Continue to look for discovery mineralization on unpatented claims.

M. A. Miller

MAM:mek

cc: W.L. Kurtz
J.D. Sell

ASARCO

Exploration Department
Southwestern United States Division

CERTIFIED MAIL
RETURN RECEIPT

October 4, 1989

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

Notice of Location
Lode Claim YAR-43
Yarnell Project
Weaver Mining District
Yavapai County, AZ

Gentlemen:

Enclosed is Asarco's check of $9.00 as the filing fee for attached Notice of Location of lode mining claim YAR-43 located in Weaver Mining District, Yavapai County, Arizona.

Please return in the enclosed stamped envelope.

Very truly yours,

William D. Gay

William D. Gay
Land Engineer

WDG:mek

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

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

October 4, 1989

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

Affidavit of Labor
Yavapai Mining District
Yavapai County, AZ

Gentlemen:

Enclosed is Asarco's check of $14.00 as the recording fee for the Affidavit of Labor for the Alvin J., Kathryn A, Kathryn B, and Pennsylvania No. 1 unpatented lode claims.

Also enclosed is a return, stamped envelope.

Very truly yours,

William D. Gay

William D. Gay
Land Engineer, SWED

WDG:mek
enc.

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 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:

	Recording Data		
Name of claim	Book	Page	Serial No.
Alvin J.	991	223	AMC 33458
Amended	996	261	
Kathryn A	991	419	AMC 33459
Amended	996	263	
Kathryn B	991	421	AMC 33460
Pennsylvania No.1	1392	661	AMC 134462

Located in Sections 14 and 15, T10N, R5W.

That all of said mining claims are owned by Alvin Roman, Kathryn Gooding 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 $400.00 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 Chruch 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 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 2d 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.

Kathleen Harnegen
Notary Public

My Commission Expires:
My Commission Expires July 6, 1992

ASARCO

Southwestern Exploration Division

JDS

October 4, 1989

FILE NOTE

Mineral Discovery
YAR 28
Section 23, T10N, R5W
Yavapai County, Arizona

Mineralization was located on YAR 28, Asarco unpatented claim. The structure is a quartz vein approx. 1' thick with pyrite pseudomorphs and limonite in fractures. Attitude of the structure is N78°E, 23°NW. The discovery is located 375' S60°E from west end center of YAR 28. .123 opt Au.

MAM:mek

Mark A. Miller
Project Geologist

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

ASARCO

Southwestern Exploration Division

JDS

October 4, 1989

J.D. Sell

Mineral Discovery
YAR 29
Yavapai County, AZ

A mineralized area has been located on YAR 29, an Asarco unpatented claim. The zone consists of a mineralized joint set N70°E 30°NW with quartz traces of red hematite and limonite pyrite pseudomorphs are also locally present. The discovery is located 600' N65°E from west end center of YAR 29. .002 opt Au.

MAM:mek

Mark A. Miller
Project Geologist

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

1710–609 GRANVILLE ST.
P.O. BOX 10363 STOCK EXCHANGE TOWER
VANCOUVER, B.C.
V7Y 1G5
(604) 683-7265
FAX (604) 683-5306

NO.192(1989)
OCTOBER 5, 1989

RECEIVED
OCT 10 1989
EXPLORATION DEPARTMENT

WXK - SDS
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George Cross News Letter

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NO.192(1989)
OCTOBER 5, 1989

ASARCO

Southwestern Exploration Division

JDS

October 5, 1989

FILE MEMO

Mineral Discovery
YAR-30
Sec. 23, T10N, R5W

A mineralized structure was found on YAR-30, an Asarco unpatented claim. Three samples were taken on the structure.

30A - Altered granite between two small faults - sericite, spec hematite, Mn, limonite and quartz.
.007 opt Au.

30B - Fault Gouge - mainly clays.
.005 opt Au.

30C - Quartz vein with limonite and pyrite.
.014 opt Au.

The occurrence of this mineralization was located by John Malusa and Steve Keehner on the date shown in the photograph. The discovery is located S8°W 135' from survey point 209 on Asarco claim survey map.

MAM:mek

Mark A. Miller
Project Geologist

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

JDS

ASARCO

Southwestern Exploration Division

October 5, 1989

FILE MEMO

Mineral Discovery
YAR-36
Sec. 15, T10N, R5W
Yavapai County, AZ

The extension of the YFZ (Yarnell Fault Zone) was prospected and sampled where it crossed Asarco patented claim YAR-36. Three rock chip samples were taken as described below. The occurrence of the fault structure and associated alteration/mineralization strongly suggest that this is a continuation of the Yarnell Mineralized System.

Y-106 - YFZ - 3' Rock chip argillic alteration and gouge hematitic - partly silicified. .023

Y-107 - F.W. sample of YFZ 0-10' strong silification grading into less altered more biotitic rock. Also sericitic alteration. .002

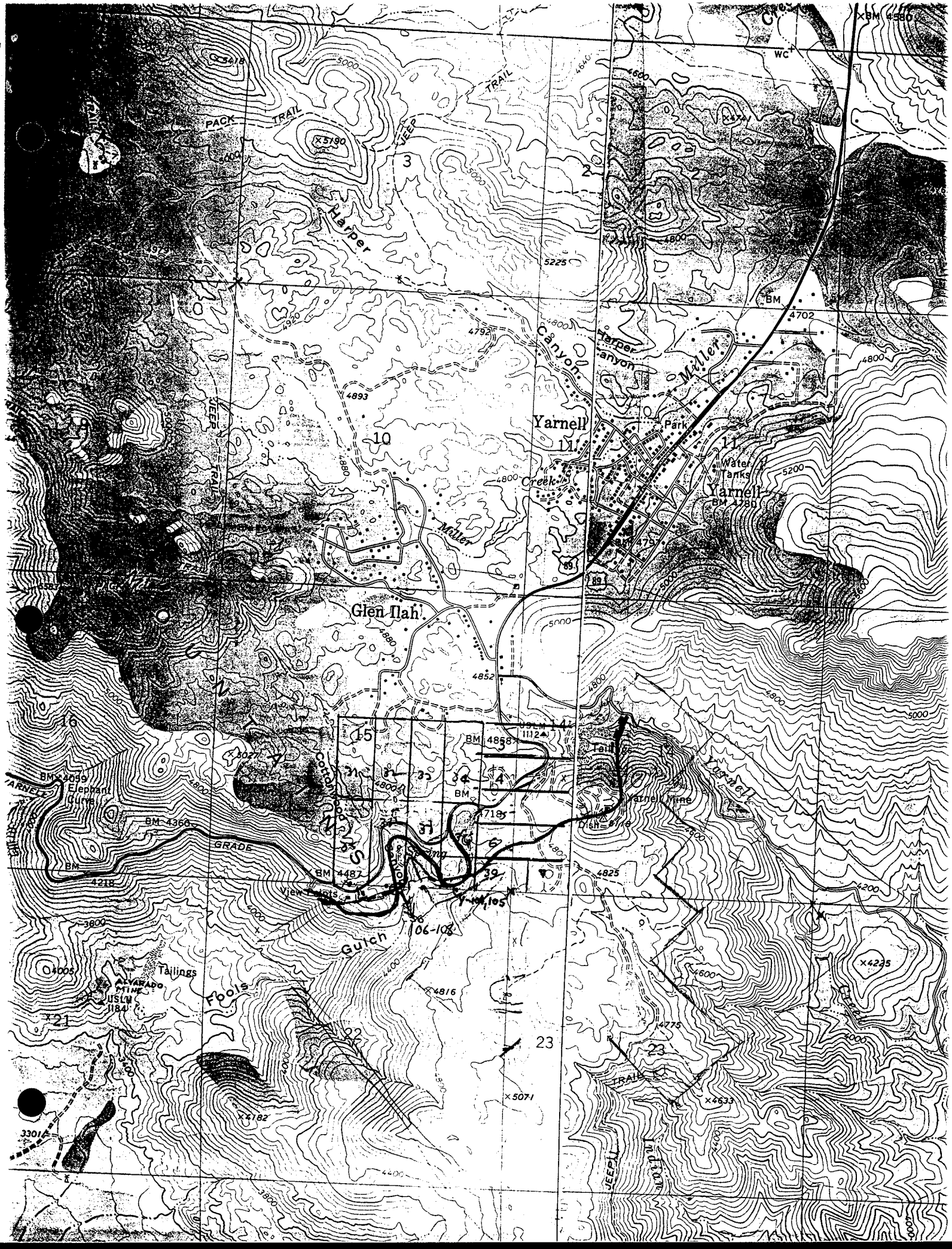
Y-108 - H.W. sample 0-5' hematitic streaks - no biotite, mod. silification, pyrite pseudomorphs in quartz. .006

The attached map shows the location of the samples related to the claim YAR-36.

MAM:mek

Mark A. Miller

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


PACK TRAIL
JEEP TRAIL
Harper Canyon
Harper Canyon
Miller Creek
Yarnell
Yarnell
Park
Water Tanks
Glen Ilah
Tailings
Yarnell Mine
Elephant Curve
GRADE
View Points
Fools Gulch
Tailings
ALVARADO MINE
USLM 1184
JEEP TRAIL
TRAIL
Miller
Yarnell
Creek
5190
5225
4792
4893
4852
4858
4718
4487
4218
4360
4099
4816
4775
4633
4235
5071
4182
3301
BM 4702
BM 4780
BM 4479
BM 4858
BM 4487
BM 4218
BM 4360
BM 4099
BM 4580
WC
106-108
105

BULK ASSAY REPORT

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

DATE 10-4-89

ASARCO Incorporated
OCT 5 1989
SW Exploration

COMPANY ASARCO LAB #100389-3

ROCK CHIP

PAGE 1

Sample Description	Ounces per ton AU (gold)	AG (silver)	Remarks
YM - A	.146		
" - B	.073		
" - C	.003		
" - D	.011		
" - E	.016		
" - F	.039		
" - G	.021		
" - H	.006		
YM - 100	.003		
" - 101	.005		
" - 102	.012		
" - 103	.008		
" - 104	.011		
" - 105	.066		
" - 106	.023		
" - 107	.002		
" - 108	.006		
" - 170	.061		

Certified Assays When Signed And Dated
10-4-89 B. Erdman
DATE SIGNATURE

JDS

ASARCO

Southwestern Exploration Division

October 5, 1989

FILE MEMO

Mineral Discovery
YAR-38
Sec. 15, T10N, R5W
Yavapai County, AZ

The extension of the YFZ (Yarnell Fault Zone) was prospected and sampled on YAR-38, an Asarco unpatented lode claim. Mineralization consists of red hematite and pyrite pseudomorphs in very strongly altered granite. The maximum thickness of the YFZ as seen in the road cut is +10'.

Y-104 - Hanging wall of strongly altered/sericitic - no biotite, abundant quartz veins parallel to dip 0-10' rock chip. .011 opt Au.

Y-105 - Yarnell Fault Zone 0-10' rock chip abundant argillic alteration, gouge, hematitic staining, pyrite pseudomorphs. .066 opt Au.

Mark A. Miller
Project Geologist

MAM:mek
Att.

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

BULK ASSAY REPORT

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

DATE 10-4-89

ASARCO Incorporated
OCT 5 1989
SW Exploration

COMPANY ASARCO LAB #100389-3

ROCK CHIP

PAGE 1

Sample Description	Ounces per ton AU (gold)	Ounces per ton AG (silver)	Remarks
YM - A	.146		
" - B	.073		
" - C	.003		
" - D	.011		
" - E	.016		
" - F	.039		
" - G	.021		
" - H	.006		
YM - 100	.003		
" - 101	.005		
" - 102	.012		
" - 103	.008		
" - 104	.011		
" - 105	.066		
" - 106	.023		
" - 107	.002		
" - 108	.006		
" - 170	.061		

Certified Assays When Signed And Dated
10-4-89 B. Eddins
DATE SIGNATURE

JDS

ASARCO

Southwestern Exploration Division

October 5, 1989

FILE MEMO

Mineral Discovery
YAR-26
Sec. 23, T10N, R5W
Yavapai County, AZ

A mineralized, altered area has been located on YAR-26, an ASARCO unpatented claim. Mineralization consists of limonite, quartz, sericite within a strongly jointed zone approx. 3' thick sample N85°W 52°SE. This discovery is located 340' 550E from west end center YAR-25. .003 opt Au.

MAM:mek

Mark A. Miller
Project Geologist

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

ASARCO

Southwestern Exploration Division

October 5, 1989

FILE NOTE

Apex of YFZ Mineralization
Open Cut Area
Yarnell Project
Yavapai County, Arizona

The Apex of mineralization was sampled in the area of "DISH" survey marker (100,000N, 50,000E). The rock is a very strongly silificied granite with abundant quartz veins and limonite fractures mostly parallel to the structure direction. Four separate rock chips were taken in this area.

100 - .003
101 - .005
102 - .012
103 - .008

MAM:mek
Att.

Mark A. Miller
Project Geologist

cc: J.D. Sell
W.L. Kurtz
S.L. Lakosky
R.L. Brown/F.T. Graybeal

BULK ASSAY REPORT

TRIAD MINERALS CO.

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

DATE 10-4-89

ASARCO Incorporated
OCT 5 1989
SW Exploration

COMPANY ASARCO LAB #100389-3

ROCK CHIP

PAGE 1

Sample Description	Ounces per ton AU (gold)	Ounces per ton AG (silver)	Remarks
YM - A	.146		
" - B	.073		
" - C	.003		
" - D	.011		
" - E	.016		
" - F	.039		
" - G	.021		
" - H	.006		
YM - 100	.003		
" - 101	.005		
" - 102	.012		
" - 103	.008		
" - 104	.011		
" - 105	.066		
" - 106	.023		
" - 107	.002		
108		.006	
" - 170	.061		

Certified Assays When Signed And Dated
10-4-89 B. Eddy
DATE SIGNATURE

PANEL
5036.5
5067
5010.4
4977.1
5055.8
5066.6
5075.8
5091.7
5113.3
5086.9
5078.5
4945.8
4925.31
4950
4975.41
5000
5025
5050
5075
5100
4900
4875
4925
4950
4975
5000
5025

JDS

ASARCO

Southwestern Exploration Division

October 6, 1989

J.D. Sell

Y-DDH-1 Core Samples
For Specific Gravity Testing
Yarnell Project
Yavapai County, AZ

Three core samples approximately 6-8" long have been selected and sent to K-D Engineering in Tucson. These will be used to determine specific gravity measurements. Intervals selected are:

	Y-DDH-1 (Diamond Drill Hole)	YM-8 (Rotary Hole)
A - Zone low grade	114.3 - 115	110 - 115 - .011 opt Au
B - Ore Zone	257 - 257.5	255 - 260 - .087 opt Au
F.W. of B Zone	301 - 301.5	300 - 305 - .004 opt Au

MAM:mek

Mark A. Miller
Project Geologist

cc: R.L. Brown
F.T. Graybeal
W.L. Kurtz
D.E. Crowell
S.L. Lakosky

KD Engineering Co.
~~West Chester, Pa 19380~~
1844 W. Grant Road
ph. 573-0063

No larger than one foot for SG determination

The Atchison, Topeka and Santa Fe Railway Company

5770 South Eastern Avenue
Los Angeles, California 90040

October 6, 1989

File: 11014405 - 3

RECEIVED
OCT 10 1989
EXPLORATION DEPARTMENT

Mr. Christopher Moatt, President
Norgold Resources, Inc.
2380 Harbour Centre
P. O. Box 12122
555 West Hastings Street
Vancouver, B.C. V6B-4N6

Via Faxcom: (604) 687-8789

Dear Mr. Moatt:

Reference my letter file 11014405-3 of September 18 regarding our microwave tower at Yarnell, Arizona.

We have considered your proposal further and have concluded:

1. A three year term instead of five.

2. A one year lead time would be necessary for our Communications Department to make the move.

3. A $300,000 minimum cost for Santa Fe to make the move and we would also apply the CPI factor each year to the $300,000 to offset any inflation.

4. Would retain our mineral interest in the present 1.7 acre micro-tower site and lease them to Norgold at a negotiated royalty interest.

5. Would require Norgold to pay Santa Fe the entire $300,000 plus the CPI factor, if the CPI factor is applicable, at the time you exercise the option agreement.

If these terms are acceptable, we will prepare the necessary agreement.

Sincerely,

Q. W. Torpin

Q. W. Torpin
Assistant Vice President-General Manager

cc: Messrs. T. J. Nelson - Topeka (Attn: Austin Beavin) (f)
G. Wagner - Albuquerque (f)

5596a

CC: S. Lakosky
J.D. Sell
File

ASARCO

Southwestern Exploration Division

JDS

October 6, 1989

J.D. Sell

Sen. John Hays, et al
Mineral Application
SE¼, Sec. 15, T10N, R5E
Case File No. AZA 21222

On October 3, 1989 I contacted the BLM regarding the status of the Mineral application Sen. John Hays had filed some time in 1985.

October 5, 1989, Mr. Bob Fisk, geologist, BLM returned my call and outlined the following:

1. Application was about ready to be sent to the state.

2. After reading the Mineral report that was done with the original Application he, Bob Fisk, and his boss (unknown) were not satisfied with the report. They wanted to review what went into the report because it indicated non-mineral and recent activity in the area may show mineral.

Mr. Kurtz was informed of the conversation and outlined how the problem would be handled.

This includes obtaining a copy of the Application, a meeting with Mr. Hays and meeting with BLM geologists.

W. D. Gay

WDG:mek

W. D. Gay

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

Hays Application for Conveyance of Mineral Interest.

Yarnell Area

10/6/89

To: W.L. Kurtz
J.D. Sell
W.D. Gay
S.L. Lakosky

From: Mark A. Miller

RECEIVED
OCT 6 1989
EXPLORATION DEPARTMENT

BILL,

NOTE PAGE 5-

AMENDMENT
TO INCLUDE
SEC 15 -
BACK INTO
APPLICATION FOR
MINERAL CONVEYANCE

SEE PP 10 - DENIAL
DOCUMENT
JUNE 20, 1986

FAVOUR & ASSOCIATES, LTD

Mark S. Favour, President ● 114 N. Montezuma - Prescott, Arizona 86301 ● (602) 778-3900

December 29, 1987

HAND DELIVERED

United States Department
of the Interior
Bureau of Land Management
2015 West Deer Valley Road
Phoenix, Arizona 85027

Attention: Ms. Mary Hyde

Re: Conveyance of Mineral Interest Application
Serial No. A-21222
Applicants: John Upton Hays,
Margaret Hays Rigden and
Elladean Hays Bittner

Dear Ms. Hyde:

Attached to this letter you will please find a Statement of Citizenship form executed by each of the referenced Applicants, stating that they are native-born citizens of the United States. These forms are being filed pursuant to your agency's requirements.

Thanking you, we remain,

Sincerely yours,

FAVOUR & ASSOCIATES, LTD.

By _____
Mark S. Favour, President

MSF:mm
Enclosures

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DEVELOPMENT ● CONSULTING ● APPRAISALS

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STATEMENT OF CITIZENSHIP

I, John Upton Hays, am a native born citizen of the United States; born in the County of Yavapai, State of Arizona.

John Upton Hays

Applicant's Signature

November 16, 1987

Date

I, _____, am a native born citizen of the United States; born in the County of _____, State of _____.

Applicant's Signature

Date

For naturalized citizen, please give:

Date of Certificate: _____

Court: _____

Number of Certificate: _____

NO NOTARIZATION OR CERTIFICATION IS REQUIRED

STATEMENT OF CITIZENSHIP

I, Elladèan Hays Bittner, am a native born citizen of the United States; born in the County of Maricopa, State of Arizona.

x Elladean Hays Bittner
Applicant's Signature

November 16, 1987
Date

I, _____, am a native born citizen of the United States; born in the County of _____, State of _____.

_____
Applicant's Signature

_____
Date

For naturalized citizen, please give:

Date of Certificate: _____

Court: _____

Number of Certificate: _____

NO NOTARIZATION OR CERTIFICATION IS REQUIRED

STATEMENT OF CITIZENSHIP

I, Margaret Hays Rigden, am a native born citizen of the United States; born in the County of Yavapai, State of Arizona.

X Margaret Hays Rigden
Applicant's Signature

November 16, 1987
Date

I, _____, am a native born citizen of the United States; born in the County of _____, State of _____.

_____
Applicant's Signature

_____
Date

For naturalized citizen, please give:

Date of Certificate: _____

Court: _____

Number of Certificate: _____

NO NOTARIZATION OR CERTIFICATION IS REQUIRED

District Manager
Bureau of Land Management
2015 West Deer Valley Road
Phoenix, Arizona 85027

Dear Sir:

Lands included in Conveyance of Mineral Interest Application A-21222 were deleted because of mining claims. Legal description of the deleted land is:

T. 10 N., R. 5 W., GSR Mer., Arizona
Sec. 15.

Please amend my application to include these lands as the mining claims have been closed.

Sincerely,

DEC 2

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
Phoenix District Office
2015 West Deer Valley Road
Phoenix, Arizona 85027

2720(020)
A-21222

Memorandum

Date: December 1, 1987

To: File A-21222

From: Assistant District Manager, Division of Mineral Resources

Subject: Mineral Report Amendment A-21222

The subject lands were classified as prospectively valuable for oil and gas based on geologic criteria for the extension of the Overthrust Belt through Arizona. Exploration has not been able to define overthrusting in the Basin and Range structure of Arizona. A prospectively valuable oil and gas classification for the subject land can no longer be justified. Disregard the classification proposals of previous reports related to this application.

All oil and gas leases covering the lands have expired.

There is no objection to the conveyance of the federal oil and gas interests.

Alan Rabenoff

6

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
Phoenix District Office
2015 West Deer Valley Road
Phoenix, Arizona 85027

2720(020)
A-21222

Memorandum

Date: December 1, 1987

To: File A-21222

From: Assistant District Manager, Division of Mineral Resources

Subject: Mineral Report Amendment A-21222

The subject lands were classified as prospectively valuable for oil and gas based on geologic criteria for the extension of the Overthrust Belt through Arizona. Exploration has not been able to define overthrusting in the Basin and Range structure of Arizona. A prospectively valuable oil and gas classification for the subject land can no longer be justified. Disregard the classification proposals of previous reports related to this application.

All oil and gas leases covering the lands have expired.

There is no objection to the conveyance of the federal oil and gas interests.

/s/ Alan S. Robinoff

DBauer:bh:12-1-87
16001

7

FAVOUR & ASSOCIATES, LTD

Mark S. Favour, President ● 114 N. Montezuma - Prescott, Arizona 86301 ● (602) 778-3900

BLM PHOENIX DISTRICT

JUL 1 '86

DM
ADM
PA
ADMIN
OPS
MINS
RES
P&EA
PRA
LGRA
KRA
CF
Action By
Due Date

June 27, 1986

United States Department
of the Interior
Bureau of Land Management
2015 West Deer Valley Road
Phoenix, Arizona 85027

Attention: Ms. Mary Hyde

Re: Conveyance of Mineral Interest Applications
Serial No. A-21219 - John U. and Mary Sharp Hays
Serial No. A-21222 - John Upton Hays
Margaret Hays Rigden, and
Elladean Hays Bittner

Dear Ms. Hyde:

This letter is to confirm our telephone conversation with you yesterday afternoon concerning the referenced applications.

At this time we ask that you please temporarily refrain from proceeding with these applications. As we stated, the purpose for this request is that we are currently trying to obtain quit-claim deeds to various unpatented mining claims affecting the surface lands owned by the referenced applicants. Once we have made a determination as to our attempts in this matter, we will correspond with you.

In a related matter, when we acquire copies of the various deeds you requested on the Hays property and the Ramsey property (Serial No. A-21207), we will forward them to you.

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9

United States Department
of the Interior
June 27, 1986
Page Two

Thanking you for your continued interest in this matter, we remain,

Sincerely yours,

FAVOUR & ASSOCIATES, LTD.

By _____
Mark S. Favour, President

MSF:mm

cc: Mr. and Mrs. John U. Hays
Mrs. Margaret Hays Rigden
Mrs. Elladean Hays Bittner

IN REPLY REFER TO:

United States Department of the Interior

BUREAU OF LAND MANAGEMENT

A-21222

Phoenix District Office
2015 West Deer Valley Road
Phoenix, Arizona 85027

JUN 20 1986

Memorandum

To: Mineral Conveyance Casefile A-21222

From: Geologist, Lower Gila Resource Area

Subject: Denial of Conveyance of Requested Lands

The following lands asked to be conveyed have mining claims on them and were not conveyed. These lands have been deleted from this case. The applicant has been informed of this situation.

T-9N, R-6W, Sections 12,13,14,24
Claimant: Magnet Mining, P.O. Box 946, Kansas City, MO 64141

T-10N, R-5W, Section 15, Lots 1 and 3
Claimant: Charles Butler, P.O. Box 435, Durango, CO 81301

T-11N, R-5W, Section 27 N½ NE¼ NW¼
Claimants: Clyde North, 19 Dipper Way, Yarnell, AZ 85362
Bill Wasson, 167½ Shrine Rd., Yarnell, AZ 85362

Richard R Park.

10

Form 3060-1
(June 1984)
(formerly 3980-1)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Serial Number
A-21222

MINERAL REPORT

BITTNER-HAYS MINERAL CONVEYANCE

(Title)

LANDS INVOLVED

Township 10 North, Range 5 West,
Section 3, S½N½, S½, Lots 1, 2, 3, 4;
Section 9, N½,
Section 15, NW¼, N½SW¼, SW¼SW¼, Lot 2.

Township 11 North, Range 5 West,
Section 23, SW½SW¼, W½SE¼SW¼;
Section 26, W½W½, Section 33 N½, S½SE¼;
Section 34, N½, S½SE¼, Section 35, NW¼NW¼, N½SW¼;
Section 27, S½, NE¼.
Gila and Salt River Meridian

Prepared By:

Richard R Park
(Signature)

Geologist
(Title)

June 10, 1986
(Date)

Technical Approval:

Clyde L. Murray
(Signature)

Geologist
(Title)

6-10-86
(Date)

Management Acknowledgement:

William T. Phillips
(Signature)

Area Manager, LBRA
(Title)

June 16, 1986
(Date)

A-21222 (027)
W: 08291

MINERAL REPORT

1. Introduction

The owners of the surface estate have requested the conveyance of the mineral estate on the following lands.

In Township 10 North, Range 5 West,
Section 3 S½N½, S½, lots 1, 2, 3, 4;
Section 9 N½, Section 15 NW¼,N½SW¼, SW¼SW¼, Lot 2.

In Township 11 North, Range 5 West,
Section 23, SW¼SW¼, W½SE¼SW¼;
Section 26 W½W½;
Section 27, S½, NE¼;
Section 33 N½, S½SE¼;
Section 34 N½, S½SE¼;
Section 35 NW¼ NW¼, N½SW¼.

2. Location and Accessibility

Section 3 of Township 10 N., Range 5 West lies one and a quarter miles northwest of the town of Yarnell. Access is from State Highway 89, through Yarnell to an improved county road that becomes a jeep trail leading into the section. Section 9 lies west of the town of Yarnell. Access is from State Highway 89 through Glen Ilah southwest of Yarnell to a jeep trail that goes through Section 9. The section is 2 miles west of Yarnell. Section 15 is southwest of Yarnell. State Highway 89 runs through the south part of this section. The only access is through Glen Ilah to a jeep trail that penetrates a short distance into the west part of the section.

The sections in Township 11 North, Range 5 West are located west of the settlement called Peeples Valley on State Highway 89. A county road off the State Highway becomes an unmaintained jeep trail that affords access to the subject sections in this township.

3. Topography and Vegetation

All of the subject lands lie within the Weaver Mountains. The elevation ranges from 5900 feet to 4,520 feet in the drainages. The topography is mostly steep mountainous terrain cut by drainages with some relatively flat surfaces in the drainage areas. The vegetation is chaparral and upper Sonoran.

4. Mining History

All of the claims on the subject lands have been dropped by the claimants because of a lack of mineralization. There is no record of any mineral production from the subject lands. The one area of drainage has a very low potential for mineral materials. The fine silty material is not suitable for use as a mineral material. There are oil and gas leases covering some of the subject lands; No other leasable minerals are known in this area.

5. Geology

The Weaver Mountains consist mainly of a batholitic crystalline structure. This granitoid structure has been dated at 1.2 to 1.4 billion years. The area was covered by dike flow basalt that has been mostly eroded away. A deeply steeping basalt trachyte dike feeder has been identified northwest of the area. A low grade of copper mineralization was associated with this intrusive. There was no evidence of mineralization on the subject lands. No paleozoic or menozoic structures have been located here. The basalt is dated as late tertiary to early quaternary in age.

6. Claims

There are no claims current on the subject lands.

7. Field Examination

On January 27 and 28, 1986 a field examination of the subject lands was conducted. Eroding granitic boulders predominate the surface. The drainages showed the erosional remnants of basalt flows. Most of the basalt has been completely eroded away. No evidence of mineralization could be found. The granite is in the form of granodiorite and monzonite. The basalt grades to trachyte.

8. Conclusion

The subject lands are non-mineral in character. The conveyance of the mineral estate to the surface owners will allow a more effective management and allow proper operation of the ranch. The on-going vandalism and illegal killing of domestic livestock and wildlife may better be controlled by restricting access to the ranch. Monetary losses by vandalism will be reduced by the conveyance of the mineral estate and the subsequent control of trespass that now is not preventable. The conclusion is that the highest and best use of this non-mineral character land is ranching. It is recommended that the oil and gas rights be reserved by the government. The area has been identified as being in an overthrust belt area and, therefore, potentially valuable for oil and gas.

FAVOUR & ASSOCIATES, LTD

Mark S. Favour, President ● 114 N. Montezuma - Prescott, Arizona 86301 ● (602) 778-3900

RECEIVED
BLM, PHOENIX DIST. OFF.
PHOENIX, ARIZONA
APR 15 1986
AM PM
7 8 9 10 11 12 1 2 3 4 5 6

April 14, 1986

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. William T. Childress
Area Manager
Lower Gila Resource Area
United States Department of the Interior
Bureau of Land Management
2015 West Deer Valley Road
Phoenix, Arizona 85027

Re: Conveyance of Mineral Interest Application
Serial No. A-21222
Applicant: John Upton Hays,
Margaret Hays Rigden, and
Elladean Hays Bittner

Dear Mr. Childress:

This letter is in keeping with your undated letter, received by us on February 12, concerning the referenced matter.

Please be advised that the referenced applicant has decided to proceed with the referenced mineral application. With this in mind and in accordance with the instructions contained in your letter, you will please find attached a cashier's check in the amount of $1,250.00 drawn on First Interstate Bank of Arizona.

We respectfully ask that you please keep us advised on a regular basis on the status of this application. Above all, we ask that you advise us in advance of any unforeseen administrative costs which you anticipate incurring.

Mr. William T. Childress
April 14, 1986
Page Two

If you have any further questions or requirements, please advise.

Thanking you for your patience and cooperation in this matter, we remain,

Sincerely yours,

FAVOUR & ASSOCIATES, LTD.

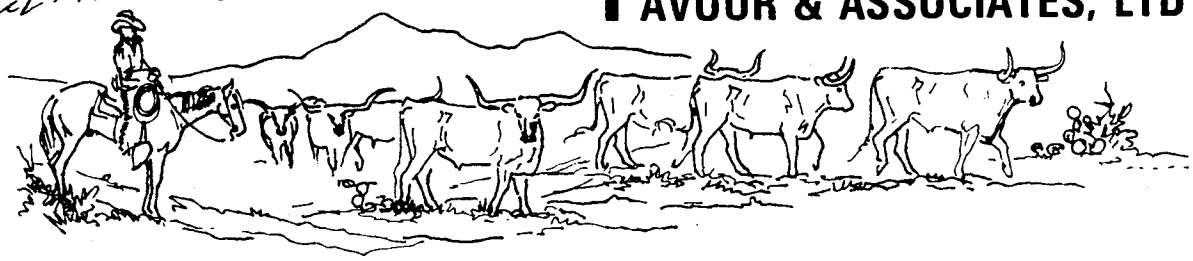
By _____
Mark S. Favour, President

MSF:mm
Attachment
cc: The Hon. John U. Hays
Mrs. Margaret Hays Rigden
Mrs. Elladean Hays Bittner

Phoned 2/20/86 10:05 Left message Re: Refund admin costs.

Called 2/20/86 1125A Explained admin costs.

FAVOUR & ASSOCIATES, LTD



Mark S. Favour, President ● 114 N. Montezuma - Prescott, Arizona 86301 ● (602) 778-3900

February 14, 1986

RECEIVED
BLM, PHOENIX DIST. OFF.
PHOENIX, ARIZONA
FEB 13 1986
AM 7,8,9,10,11,12,1,2,3,4,5,6 PM

Mr. William T. Childress
Area Manager
Lower Gila Resource Area
United States Department of the Interior
Bureau of Land Management
2015 West Deer Valley Road
Phoenix, Arizona 85027

Re: Conveyance of Mineral Interest Applications
Serial Nos. A-21707
A-21219
A-21222

Dear Mr. Childress:

This letter is to acknowledge receipt of and thank you for your undated letters, received by us on February 12, concerning the referenced cases.

We anticipate meeting with our clients concerning this matter in the very near future, However, before doing so, we would like to clarify a matter which is somewhat confusing to us concerning the additional cost you have estimated.

We have read Part 2720 of the Code of Federal Regulations used in this matter; however, we would like to know if the $1,250.00 deposit you have estimated in each of these applications is refundable in whole or in part if the applicants choose not to proceed in the acquisition process if one or both of the following happen:

1. A BLM authorized officer recommends that an exploratory program be conducted; and

2. If the subsurface lands are determined to have mineral value and it is the opinion of

the applicant that the market value set by the BLM on the mineral estate is too high.

Also, you stated in your letter that the applicants would be responsible for any additional unforeseen administrative costs in processing the application. Could you please give us an example of what these costs would be if they were to arise.

We look forward to hearing from you in this matter.

Thanking you for your attention and courtesy, we remain

Sincerely yours,

FAVOUR & ASSOCIATES, LTD.

By: _____
Mark S. Favour, President

MSF:mm

A-21222
(027) MH

(602) 863-4464

CERTIFIED MAIL-RETURN RECEIPT REQUESTED

Favour & Associates, Ltd.
114 N. Montezuma
Prescott, AZ 86301

Conveyance of Mineral
Interest Application
Serial No.: A-21222
Filed: September 13, 1985
John Upton Hayes, Margaret Hayes
Rigden, Elladean Hayes Bittner -
Applicants

Dear Sir:

The subject application was filed under Section 209 of the Act of October 21, 1976, 90 Stat. 2757, to acquire mineral interests underlying patented lands.

Costs to process the application have been estimated, and must be deposited before further action can be taken on the application.

Processing application, including notation of records and preparation of conveyance document.....	$ 250.00
Preparing mineral reports.....	$ 1,000.00
TOTAL AMOUNT DUE.....	$ 1,250.00

The applicants will also be responsible for:

1. Bearing the cost of conducting an exploratory program, if one is recommended by the BLM authorized officer;

2. Submitting the market value of the mineral estate if the lands are determined to have mineral value.

3. Submitting any other additional unforeseen administrative costs if incurred in the process of your application.

A period of 60 days from receipt of this letter is allowed within which to submit the total amount due as indicated above. Please make the check payable to the DOI (Department of the Interior), Bureau of Land Management, and identify the check by the serial number. If payment of the required funds is not made within the time allowed, the application will be held for rejection. An extension of time within which to file the required funds may be granted if circumstances warrant. Any request for an extension of time must be filed in this office within the 60-day period.

Sincerely

Frank E. Dennis

William J. Childress
Area Manager
Lower Gila Resource Area

MHyde/slf
W:0646, pg. 2

FAVOUR & ASSOCIATES, LTD.

Mark S. Favour, President ● 114 N. Montezuma - Prescott, Arizona 86301 ● (602) 778-3908

BLM PHOENIX DISTRICT

JAN 1986

DM
ADM
PA
ADMIN
OPS
MINS
RES
P&EA
PRA
LGRA
KRA
CF
Action By
Due Date

RECEIVED
BLM, PHOENIX DIST. OFF.
PHOENIX, ARIZONA
JAN 15 1986
AM PM
7 8 9 10 11 12 1 2 3 4 5 6

January 13, 1986

Mr. Marlyn Jones
Phoenix District Manager
Bureau of Land Management
2015 West Deer Valley Road
Phoenix, Arizona 85027

Re: Serial No. A-21222
(Applicants: John Upton Hays, Margaret Hays Rigden, and Elladean Hays Bittner)

Dear Mr. Jones:

On September 12, 1985, we submitted on behalf of the referenced applicants a written application to acquire all ownership interest of the United States of America in the mineral estate lying beneath surface lands described in the application.

To date, neither the applicants nor our office have received any correspondence from you or your department concerning this matter. We respectfully ask that you please advise our office of the current status of this application and the approximate date we might expect some formal disposition in this matter.

Thanking you for your courtesy and attention in this matter, we remain,

Sincerely yours,

FAVOUR & ASSOCIATES, LTD.

By: _____
Mark S. Favour, President

MSF:mm
cc: The Hon. John U. Hays
Mrs. Margaret Hays Rigden
Mrs. Elladean Hays Bittner

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A 21222

In accordance with the filing procedures set forth, we furnish you with the following information:

1. The applicants herein are represented by:

Mark S. Favour, President
Favour & Associates, Ltd.
114 North Montezuma
Prescott, Arizona 86301
Telephone: (602) 778-3900

RECEIVED
PHOENIX DISTRICT OFFICE
BLM

SEP 13 1985

PHOENIX, ARIZONA

2. The applicants are:

John Upton Hays
Margaret Hays Rigden
Elladean Hays Bittner
c/o John Upton Hays
P. O. Box 395
Yarnell, Arizona 85362
Telephone: (602) 427-3271

3. The legal description of the surface lands lying over the federal mineral estate is described on Exhibits "A" and "B" attached hereto and made a part hereof.

4. The applicants herein certify that they are the sole owners of the surface lands described on Exhibit "A". The ownership interests are as follows:

John Upton Hays, husband of Mary Sharp Hays, dealing with his sole and seperate property, owner of an undivided 1/3 interest;

Margaret Hays Rigden, wife of John T. Rigden, dealing with her sole and seperate property, owner of an undivided 1/3 interest; and

Elladean Hays Bittner, wife of William E. Bittner, dealing with her sole and seperate property, owner of an undivided 1/3 interest.

A 21222

E X H I B I T "A"

The ownership interests of the surface lands described below are as follows:

John Upton Hays, husband of Mary Sharp Hays, dealing with his sole and seperate property, owner of an undivided 1/3 interest;

Margaret Hays Rigden, wife of John T. Rigden, dealing with her sole and seperate property, owner of an undivided 1/3 interest; and

Elladean Hays Bittner, wife of William E. Bittner, dealing with her sole and seperate property, owner of an undivided 1/3 interest.

The following is a legal description of surface lands lying over mineral estate owned by the United States of America:

THE FOLLOWING LANDS IN TOWNSHIP 10 NORTH, RANGE 5 WEST OF THE GILA AND SALT RIVER BASE AND MERIDIAN, COUNTY OF YAVAPAI, STATE OF ARIZONA:

All of Section 3;

The North Half of Section 9; and

All that portion of Lots 1, 2, 3; and the Southwest Quarter of the Southwest Quarter; and the North Half of the South Half; and the Northwest Quarter of Section 15, lying North and West of the center line of U. S. Highway 89, as said center line is shown on that certain map of record in Book 4 of Maps, page 99, in the office of the County Recorder of Yavapai County, Arizona.

EXCEPTING THE FOLLOWING DESCRIBED TRACTS:

(A) That portion of the East Half of the Northeast Quarter of the Southeast Quarter of said Section 15, lying North and West of the State Highway as such existed March 29, 1943.

(B) BEGINNING at the point on the North line of the Northwest Quarter of said Section, distant West (bearing assumed) 417 feet from the Northeast corner of said Northwest Quarter; thence South 417 feet; thence South 45° West, 442.30 feet; thence West 351.20 feet; thence North 729.75 feet to intersection with the

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SEP 13 1985

PHOENIX, ARIZONA

A 21222

North line of said Northwest Quarter of said Section; thence East along said North line of said Northwest Quarter of said Section, 663.95 feet to the POINT OF BEGINNING.

THE FOLLOWING LANDS IN TOWNSHIP 11 NORTH, RANGE 5 WEST OF THE GILA AND SALT RIVER BASE AND MERIDIAN, COUNTY OF YAVAPAI, STATE OF ARIZONA:

The Southwest Quarter of the Southwest Quarter; and the West Half of the Southeast Quarter of the Southwest Quarter of Section 23;

The West Half of the West Half of Section 26;

The South Half; and the East Half of the Northewest Quarter; and the Northeast Quarter of Section 27;

All of Section 33;

The North Half; and the South Half of the Southeast Quarter of Section 34; and

The Northwest Quarter of the Northwest Quarter; and the North Half of the Southwest Quarter of Section 35.

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A 21222

E X H I B I T "B"

The ownership interests of the surface lands described below are as follows:

John Upton Hays, husband of Mary Sharp Hays, dealing with his sole and seperate property, owner of an undivided 1/2 interest;

Margaret Hays Rigden, wife of John T. Rigden, dealing with her sole and seperate property, owner of an undivided 1/4 interest; and

Elladean Hays Bittner, wife of William E. Bittner, dealing with her sole and seperate property, owner of an undivided 1/4 interest.

The following is a legal description of surface lands lying over mineral estate owned by the United States of America:

All that portion of Sections 12 and 24; and the Northwest Quarter of Section 13 lying West of the center line of U. S. Highway 89, as said center line is shown on maps recorded in Book 4 of Maps, pages 96-97, in the office of the County Recorder of Yavapai County, State of Arizona.

The Northeast Quarter of Section 14.

All of the above described lands located in Township 9, North, Range 6 West of the Gila and Salt River Base and Meridian, County of Yavapai, State of Arizona.

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PHOENIX, ARIZONA

A 21222

FAVOUR & ASSOCIATES, LTD

Mark S. Favour, President ● 114 N. Montezuma - Prescott, Arizona 86301 ● (602) 778-3900

September 12, 1985

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BLM, PHOENIX DISTRICT
PHOENIX, ARIZONA
SEP 13 1985
AM PM
7 8 9 10 11 12 1 2 3 4 5 6

Mr. Marlyn Jones
Phoenix, District Manager
Bureau of Land Management
2015 West Deer Valley Road
Phoenix, Arizona 85027

Re: Federal Land Policy and Management Act of October 21, 1976

Dear Mr. Jones:

We inadvertently forgot to enclose the cashier's check with the application dated September 12, 1985, which we filed on behalf of John Upton Hays, Margaret Hays Rigden and Elladean Hays Bittner under the referenced Act.

With this in mind, you will please find a cashier's check in the amount of $50.00 enclosed with this letter.

Thanking you, we remain

Sincerely yours,

FAVOUR & ASSOCIATES, LTD.

By: _____
Mark S. Favour, President

Enclosure

"Dedicated to Old Fashioned Service"

REALTOR®

RANCHES ● ACREAGE ● COMMERCIAL
DEVELOPMENT ● CONSULTING ● APPRAISALS

MULTIPLE LISTING SERVICE MLS

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FAVOUR & ASSOCIATES, LTD

Mark S. Favour, President ● 114 N. Montezuma - Prescott, Arizona 86301 ● (602) 778-3900

September 12, 1985

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SEP 13 1985

PHOENIX, ARIZONA

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. Marlyn Jones
Phoenix District Manager
Bureau of Land Management
2015 West Deer Valley Road
Phoenix, Arizona 85027

Re: Federal Land Policy and Management Act of October 21, 1976

Dear Mr. Jones:

In accordance with the regulations and procedures, which are used to implement Section 209 (b) of the referenced Act, we ask that you please accept this letter as a written application on behalf of John Upton Hays, Margaret Hays Rigden and Elladean Hays Bittner to acquire all the ownership interest of the United States of America in the mineral estate lying beneath the surface lands described later in this application. The ownership interests of the aforementioned individuals are stated later in this application.

At the outset, you will please find enclosed a cashier's check in the amount of $50.00 representing the non-refundable filing fee charged in this matter.

A 21222

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SEP 13 1985

PHOENIX, ARIZONA

The applicants certify that they are also the sole owners of the surface lands described on Exhibit "B". The ownership interests of the lands described on Exhibit "B" are as follows:

John Upton Hays, husband of Mary Sharp Hays, dealing with his sole and seperate property, owner of an undivided 1/2 interest;

Margaret Hays Rigden, wife of John T. Rigden, dealing with her sole and seperate property, owner of an undivided 1/4 interest; and

Elladean Hays Bittner, wife of William E. Bittner, dealing with her sole and seperate property, owner of an undivided 1/4 interest.

The applicants further certify:

A. To the best of applicants' knowledge and belief the monetary value of the federally-owned mineral estate is of minimal or no value. While it is the belief some unpatented mining claims might presently encumber the lands described on Exhibits "A" and "B", there is no evidence of any active and/or profitable mining operations currently being conducted on the affected lands.

B. Applicants currently utilize the surface lands embraced by this application as range lands in their operation of a cow-calf ranching outfit.

C. Applicants believe the reservation of the mineral interest in the United States is interferring with the effective management and proper operation of the surface lands as a ranching operation. Applicants experience constant conflicts and problems associated with "weekend" miners and

A 21222

squatters entering and crossing the surface lands for the purpose of "mining" the federally-owned mineral estate. Unfortunately, these problems have resulted in monetary losses to the surface owners in the past, as a result of vandalism to range improvements, damage from vehicles crossing over range grass lands and the illegal killing of livestock and wildlife. Furthermore, the applicants believe with the mineral estate federally-owned, it leaves the private lands open to mining claim location and possible severe damage to resource values.

D. With the mineral resources having little or no value, the applicants feel that by acquiring the mineral estate it would enable the owners to gain better control of the lands, thus providing for a more effective livestock unit management. With the ability to better control third party entry onto the range lands, the owners will be able and willing to develop additional livestock waters, feeders, corrals, etc., without a higher risk of destruction by vandals. The end result will be higher utilization and better production of the lands, than is currently the case, thus substantially increasing the resource value of the lands.

E. The surface lands owned by the applicants are currently zoned RCU-2A by the Yavapai County Planning and Zoning Department. This zoning classification is commonly placed on rural lands in Yavapai County and allows for agricultural uses.

We believe this application complies with the regulations and procedures, which the Department of Interior and BLM have written to implement the Act, however, if additional information is needed or requirements made, please contact us.

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PHOENIX, ARIZONA

A 21222

Thanking you and with assurances of continuing interest and cooperation by this office and the applicants, we remain

Sincerely yours,

FAVOUR & ASSOCIATES, LTD.

By: _____
Mark S. Favour, President

Enclosures
cc: The Honorable John U. Hays
Mrs. Margaret Hays Rigden
Mrs. Elladean Hays Bittner

P. S. Certification of ownership under item 4 above is evidenced by various deeds conveying title to the applicants, all of which are of record in the office of the County Recorder of Yavapai County, State of Arizona. Photocopies of these deeds or recording data will be furnished to you, should you request this information.

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SEP 13 1985

PHOENIX, ARIZONA

REPORT DATE:12/02/87 PCN:LT993

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
LIST OF MINING CLAIMS BY SECTION

MERIDIAN = 14 TOWNSHIP = 010ON RANGE = 005OW SECTION = 015

QUADRANT NE	QUADRANT NW	QUADRANT SW	QUADRANT SE	SERIAL NUMBER	CLAIM NAME	CASE TYPE	STATUS	LOC DATE	LAST ASMT
	X			AMC102154	NORTH STAR #1 ONE	384101	CLOSED	01/22/1980	1981
	X	X		AMC102155	NORTH STAR #2 TWO	384101	CLOSED	01/22/1980	0000
	X			AMC160226	NORTH STAR #1	384101	CLOSED	02/12/1982	0000
X				AMC186111	BIG JOHN	384201	CLOSED	09/02/1982	1983
		X		AMC190528	BUTLER #1	384101	CLOSED	12/11/1982	1985
		X		AMC190529	BUTLER #2	384101	CLOSED	12/11/1982	1985
X				AMC216540	GOLDEN STAR #1	384101	CLOSED	02/20/1984	0000
X	X			AMC216541	GOLDEN STAR #2	384101	CLOSED	02/20/1984	0000

MERIDIAN = 14 TOWNSHIP = 011ON RANGE = 005OW SECTION = 027

QUADRANT NE	QUADRANT NW	QUADRANT SW	QUADRANT SE	SERIAL NUMBER	CLAIM NAME	CASE TYPE	STATUS	LOC DATE	LAST ASMT
	X			AMC256105	MODEL PLACER #1	384201	ACTIVE	06/12/1986	0000
		X		AMC256106	MODEL PLACER #2	384201	ACTIVE	06/12/1986	0000
X				AMC256107	MODEL PLACER #3	384201	ACTIVE	06/12/1986	0000
			X	AMC256108	MODEL PLACER #4	384201	ACTIVE	06/12/1986	0000
X				AMC50742	SWEED #1	384201	CLOSED	07/30/1979	1982
			X	AMC50743	SWEED #2	384201	CLOSED	07/30/1979	1982
		X		AMC50744	SWEED #3	384201	CLOSED	07/30/1979	1982
	X			AMC81210	BREN BETT NO 1	384201	ACTIVE	09/06/1975	1986
	X			AMC97926	NUGGET #1	384201	CLOSED	03/03/1980	1982
	X			AMC97927	NUGGET #2	384201	CLOSED	03/03/1980	1982

328 T

SNUMB = 328T, ACTIVITY # = 1, REPORT CODE = 00, RECORD COUNT = 19

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              ****INPUT PARAMETER/ERROR REPORT***
INPUT----MERIDIAN=14 TWNSHP=010ON RANGE=005OW SECTION=003 QUAD=
NO SECTION FOUND FOR INPUT PARAMETER
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NO SECTION FOUND FOR INPUT PARAMETER
INPUT----MERIDIAN=14 TWNSHP=010ON RANGE=005OW SECTION=015 QUAD=
INPUT----MERIDIAN=14 TWNSHP=011ON RANGE=005OW SECTION=023 QUAD=
NO SECTION FOUND FOR INPUT PARAMETER
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NO SECTION FOUND FOR INPUT PARAMETER
INPUT----MERIDIAN=14 TWNSHP=011ON RANGE=005OW SECTION=027 QUAD=
INPUT----MERIDIAN=14 TWNSHP=011ON RANGE=005OW SECTION=033 QUAD=
NO SECTION FOUND FOR INPUT PARAMETER

INPUT----MERIDIAN=14 TWNSHP=011ON RANGE=005OW SECTION=034 QUAD=
NO CLAIM FOUND FOR PARAMETER MERIDIAN = 14 TOWNSHIP = 011ON RANGE = 005OW SECTION = 034 QUAD =  X
INPUT----MERIDIAN=14 TWNSHP=011ON RANGE=005OW SECTION=035 QUAD=
NO SECTION FOUND FOR INPUT PARAMETER
```

FILE Yarnell AL BRIGHT Mineral Conveyance

~~NADP~~ ~~JDG~~ JDS

Form 1860-9
(March 1965)
(formerly 4-1043)

A-19150

The United States of America

To all to whom these presents shall come, Greeting:

WHEREAS,

Robert H. Combs and
Bernice M. Combs

are entitled to a patent pursuant to Section 209 of the Act of October 21, 1976, 90 Stat. 2757; 43 U.S.C. 1719 (1976), conveying the mineral interests, except the oil and gas resources, underlying the following described lands:

Gila and Salt River Meridian, Arizona

T. 10 N., R. 5 W.,
Sec. 15, E½NE¼SE¼ except that portion which lies Northeasterly of a line 100.00 feet Southwesterly of, parallel and concentric with the following described line;

COMMENCING at a point on the East line of said Section 15, which point bears South 0°01'11" East 768.64 feet from the East quarter corner thereof; thence North 40°48'11" East 48.04 feet; thence along a spiral curve to the left having an "a" = 10, a distance of 200 feet; thence from a local tangent bearing of North 20°48'11" East along the arc of a curve to the left having a radius of 286.48 feet, a distance of 288.96 feet to the POINT OF BEGINNING; thence from a local tangent bearing of North 36°59'22" West along a spiral curve to the left having an "a" = 10, a distance of 200.00 feet; thence North 56°59'22" West 6.31 feet; thence along a spiral curve to the right having an "a" = 5, a distance of 200.00 feet; thence from a local tangent bearing of North 46°59'22" West along the arc of a curve to the right having a radius of 572.96 feet, a distance of 300.00 feet to the POINT OF ENDING.

containing 13 acres, more or less;

NOW KNOW YE, That there is, therefore, granted by the UNITED STATES unto the above-named claimants the mineral interests, except the oil and gas resources, in the lands above described;

TO HAVE AND TO HOLD the said mineral interests, with all the rights, privileges, immunities, and appurtenances of whatsoever nature thereunto belonging, unto the said claimants, their successors and assigns forever;

Patent Number 02-84-0072

Form 1860-10
(July 1975)
A-19150

EXCEPTING AND RESERVING TO THE UNITED STATES:

1. Rights-of-way for ditches and canals constructed by the authority of the United States. Act of August 30, 1890, 26 Stat. 391; 43 U.S.C. 945.

2. All the oil and gas in the area of mineral interests so patented, and to it or persons authorized by it, the right to prospect for, mine, and remove the same, subject to such conditions as are or may hereafter be provided by such laws reserving such deposits. Act of February 25, 1920, 41 Stat. 450; 30 U.S.C. 182.

SUBJECT TO:

Oil and Gas Lease A-18162 and any extensions thereof.

IN TESTIMONY WHEREOF, the undersigned authorized officer of the Bureau of Land Management, in accordance with the provisions of the Act of June 17, 1948 (62 Stat. 476), has, in the name of the United States, caused these letters to be made Patent, and the Seal of the Bureau to be hereunto affixed.

[SEAL]

GIVEN under my hand, in PHOENIX, ARIZONA the TWENTIETH day of SEPTEMBER in the year of our Lord one thousand nine hundred and EIGHTY-FOUR and of the Independence of the United States the two hundred and NINTH.

By Mario L. Lopez
Mario L. Lopez
Acting Deputy State Director for Operations

Patent Number 02-84-0072

☆ U.S. GOVERNMENT PRINTING OFFICE: 1983 — 776-642

Form 3980-1
(September 1970)
(formerly 3820-1)

Serial Number
A-19150

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

State Arizona

MINERAL REPORT

Mineral Conveyance to

Robert H. and Bernice M. Combs

(Title)

LANDS INVOLVED

Township 10 North, Range 5 West,
Section 15, E½NE¼SE¼

5-2-84
(Date)

By

Richard R Park

Technical Review

Management Review

E D Higgins

GPO 850-410

1. Reason For Action

An application for conveyance of mineral rights has been received from the surface owner. This action requires a mineral examination.

2. Lands Involved

The subject lands are described as follows:

Gila and Salt River Meridian, Arizona
Township 10 North, Range 5 West, Section 15, E½NE¼SE¼

Three quarters of Section 15 consisting of 476.06 acres was conveyed to private interest under the Stockraising Homestead Entry Act on May 4, 1936. The Deed of Conveyance is numbered 1082-889.

3. Location and Accessibility

The lands are adjacent to State Highway 89, approximately one mile south of the Town of Yarnell. The lands are at the top of the Yarnell grade of the Weaver Mountains at an elevation of 4800 feet. A private diveway runs from the highway to the garage and house.

4. Topography and Vegetation

The lands lie atop the Yarnell grade of the Weaver Mountains at an elevation of 4800 feet. This section of the Weaver Mountains is granitic of pre-Cambrian age, approximately 1.4 billion years. The vegetation is described as Arizona interior chaparral.

5. Mining History

There is no history of mining on the plot of land under consideration.

6. Geology

The geology of the area is described as being a batholithic intrusion. The granitic body is batholithic in nature that has intruded the Country rock of the Yavapai Series. The age of the batholith is 1.3 billion years while the Yavapai Series is dated at 1.7 billion years. This accreted allochthon was formed in the southern hemisphere in a shallow tropical sea. The granite is mostly weathered and in the process of exfolliating. Many areas of this granite body have been intruded, altered and mineralized. Regionally this area is the beginning of a transition stage between the tensional Basin and Range province and the Colorado Plateau province and exhibiting characteristics of both. Volcanism in the general area ranges from rhyolitic to basaltic and from Mesozoic to recent in age.

7. Field Examination

A geological examination was conducted by the area geologist on the fourth of April 1984. There was no evidence of any mining or exploration on the lands of consideration. The granitic outcrops covered all of the land. No intrusives were found and only granite in various stages of weathering were seen. The granite is massive and decomposing. Literature search did not reveal any historic interest in mining. There are claims and mining nearby but the terrain is quite different in those areas. On the land in question, there were no areas deemed mineralized or of sufficient interest to sample. One well in the general area went through granite only for 300 feet.

8. Conclusions

Based on literature search, personal communication and field examination, the area for conveyance is non-mineral in character and hence not economically viable for mining. The oil and gas rights should be held by the government. The highest and best use is residential and should be conveyed to the surface owner.

Richard R Park

Instrument # 27
Recorded Official Records
of Yavapai County, Arizona.
JAN 3 '83-9 50 AM
at the request of Charles R Butler
PATSY C. JENNEY, County Recorder
Deputy Patsy Jenney
INDEXED

A MC 1905 mail to: Charles R. Butler
Box 435
Durango CO 81301

NOTICE OF MINING LOCATION

LODE CLAIM

MICROFILMED

NOTICE IS HEREBY GIVEN that Charles R. Butler, a citizen of the United States, hereby claims the land hereunder described as a Lode Mining Claim, under and pursuant to the laws of the United States of America and the State of Arizona, and, in making such claim and for the purpose of establishing his right thereto, hereby certifies that the following data is true and factual.

1. The name of this claim is Butler No 1.

2. The name of the locator is CHARLES R. BUTLER

   The address of the locator is P.O. Box 435, Durango, Colorado 81301

3. The date of location is December 11, 1982.

4. The claim is 1500 feet long and 600 feet wide. The location monument is 1500 feet from the SW end of the claim and 0 feet from the NE end.

5. The general course of the claim is Southwesterly.

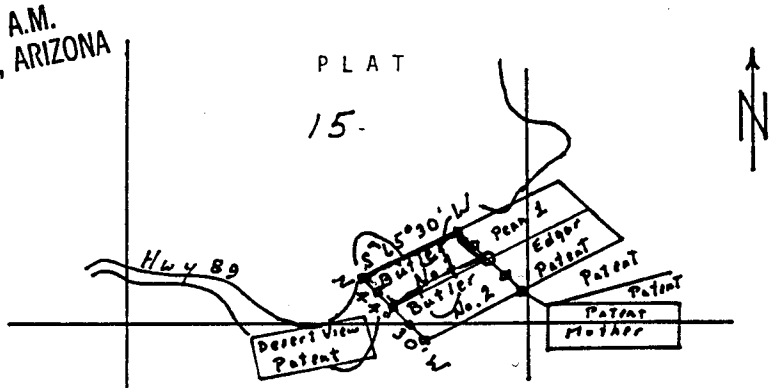
6. Locality - The claim is about one mile southerly from YARNELL in the SE 1/4 of Section 15, Township 10 North, Range 5 West, G and SR meridian, Yavapai County, Arizona.

LOCATOR

Charles R Butler
Charles R. Butler

RECEIVED
B.L.M. AZ STATE OFFICE
JAN 27 1983
07.45 A.M.
PHOENIX, ARIZONA

PLAT



1" = 2000'

o Location Post

▫ Post

Base from ~~Yarnell~~ Congress 7 1/2 ' Quad

BOOK 1507 PAGE 586

C-13

REPORT DATE: JUL 10, 1984 — UNITED STATES DEPARTMENT OF THE INTERIOR — PAGE NO: 2612

STATE: ARIZONA — PCN: LT892PP1 — BUREAU OF LAND MANAGEMENT

MERIDIAN: GILA-SALT R. — GEOGRAPHIC INDEX

-LEGAL DESCRIPTION- 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
10 N	5 W	19	SE	25	2	74729	LD	BLACK DIKE NO 4	METZLER HARYLYNN	74727	153;394	1/25/1946	1983	
			W2			78219	LD	VICTORIA #1	BAR BM LIVESTOCK WEST BEROY LAYTON D C LAYTON PRISCILLA	78211	924;918	8/05/1974	1983	
			SW			82449	PL	RIM ROCK NO 1	BAR BM LIVESTOCK WEST BEROY LAYTON PRISCILLA LAYTON D C		154;550	7/07/1946	1983	
			NW			98902	LD	VICTORIA #2	BAR BM LIVESTOCK WEST BEROY LAYTON PRISCILLA LAYTON D C		1287;765	3/02/1980	1983	
			W2			98903	LD	VICTORIA #3	BAR BM LIVESTOCK WEST BEROY LAYTON PRISCILLA LAYTON D C	98902	1287;767	3/02/1980	1983	
			W2,SE			98904	LD	VICTORIA #4	BAR BM LIVESTOCK WEST BEROY LAYTON PRISCILLA LAYTON D C	98902	1287;769	3/02/1980	1983	
			SW			134010	LD	RIM ROCK #1	GOLD DEPOSITORY	133239		4/12/1981	0000	
			SW			134011	LD	RIM ROCK #2		133239		4/12/1981	1982	
			SW			134462	LD	PENNSYLVANIA NO 1	ROMAN ALVIN		1392;661	6/26/1981	1983	
			SW			137270	LD	RIM ROCK #1	GOLD DEPOSITORY	137185		5/20/1981	0000	
			SW			137271	LD	RIM ROCK #2		137185		5/20/1981	0000	
			NW			216540	LD	GOLDEN STAR #1	PAULIC LOUIS PAULIC RITA LAMPE FRANK		; 00	2/20/1984	0000	
	15		SW			160226	LD	NORTH STAR #1	SCARTH ROBERT	160225	1442;983	2/12/1982	0000	
			NE			186111	PL	BIG JOHN	MCGREGOR JOHN MCGREGOR KATY		1485;962	9/02/1982	1983	
			SE			190528	LD	BUTLER #1	BUTLER CHARLES		1507;586	12/11/1982	1983	
			SE			190529	LD	BUTLER #2		190528	1507;587	12/11/1982	~~1985~~	
			NE			216540	LD	GOLDEN STAR #1	PAULIC LOUIS PAULIC RITA LAMPE FRANK		; 00	2/20/1984	0000	
			N2			216541	LD	GOLDEN STAR #2	PAULIC LOUIS PAULIC RITA LAMPE FRANK	216540	; \\	2/20/1984	0000	
	16		S2			80985	PL	ANNA-MARIE	GAVA-CANO MINING CO		1238;85	8/04/1979	1981	
	17		E2			140468	LD	CROWN PRINCE #1	WESTBROOK BOBBY		1408;955	9/02/1981	1983	
			E2			140469	LD	CROWN PRINCE #2		140468	1408;957	9/02/1981	1983	
			NE			213529	LD	CROWN PRINCE #3	MCKENNA MICHAEL			1/02/1984	0000	
	18		NE			130680	PL	SOURDOUGH #5	GLASSCOCK GLASSCOCK PATRICIA DUKES TERRY DUKES ROBERT	130668	1380;268	4/02/1981	0000	

going by field report — no mining in area

** DISCLOSURE ** ALL INFORMATION RECEIVED IN THIS OFFICE MAY NOT BE DISCLOSED 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.

AMERICAN MICRO OFFICE

BLM PHOENIX DISTRICT

APR 5 '84

4/4/84
Date

Serial # 19150
Proj #

DM
ADM
PA
ADMIN
OPS
MINS
RES
P&EA
PRA
LGRA
KRA
CF
Action By
Due Date

Bureau of Land Management
Phoenix District Office
2015 W. Deer Valley Drive
Phoenix, Arizona 85027

Dear Sir:

Please accept this letter as my application to purchase the United States owned mineral estate beneath my land.

My property is described as follows (township, range, section, legal subdivision or lotting of section, or as subdivided and shown on the county tax rolls):

enclosed slip

I have enclosed a $50.00 non-refundable filing fee and the supporting material required by the regulations in 43 CFR 2720.1-2.

ROBERT COMBS
Name

P.O. BOX 945
Mailing Address

YARNELL AZ 85362
City State Zip Code

Bus - 427-3161 (684-2151) 9:am
Telephone Number

Robert Combs
Signature

Our land is the X on reverse side. a MS. PAT STELAS CALLED ME - SHE SAID SHE COULD NOT PLOT ETC.

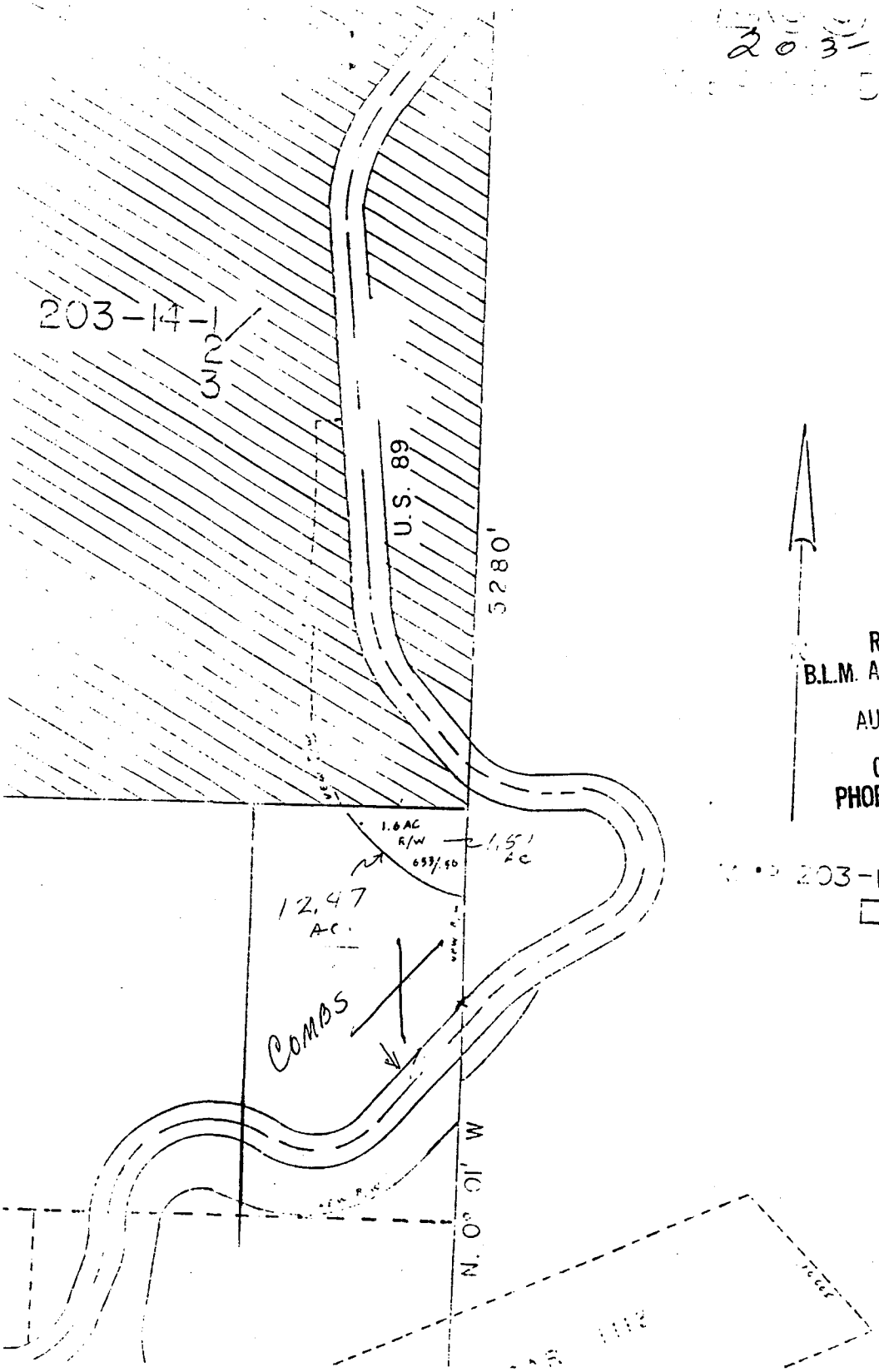
I WENT TO YAVAPAI RECORDER WHO STATED IT IS A SPIRAL CURVE WITH MOVING RADIUS POINTS & THE DESCRIPTION I SENT YOU IS CORRECT & THEY COULD TELL ME NOTHING MORE. HOPE THIS IS WHAT YOU NEED

MRS. ROBERT COMBS
P.O. BOX 945
YARNELL, AZ,
85362

RECEIVED
B.L.M. AZ STATE OFFICE
AUG 15 1984
07.45 A.M.
PHOENIX, ARIZONA

R. Comfa
P.O. Box 945
Yarnell, Az. 85362

203-15



RECEIVED
B.L.M. AZ STATE OFFICE
AUG 1 5 1984
07.45 A.M.
PHOENIX, ARIZONA

IN REPLY REFER TO
A-19150
2740 (027)

United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Phoenix District Office
2015 West Deer Valley Road
Phoenix, Arizona 85027

Serial #A-19150
Proj #10-14

May 15, 1984

BERNICE COMBS
~~Burniee~~ and Robert ~~Coombs~~
P. O. Box 945
Yarnell, AZ 85362

Dear Mr. and Mrs. ~~Coombs~~ COMBS:

We have received your $50.00 filing fee and application for mineral conveyance. Your application appears to be in order, except for a copy of your county tax valuation notice. Please send in the copy plus our estimated processing costs of $250.00. This is only an estimate in order to proceed. Actual cost may be less or more, and you will be refunded or billed accordingly.

Thank you.

Sincerely,

O. L. Higgins

O. L. Higgins
Acting Area Manager
Lower Gila Resource Area

BLM PHOENIX DISTRICT

MAY 24 '84

DM
ADM
PA
ADMIN
OPS
MINS
RES
P&EA
PRA
LGRA
KRA
CF
Action By
Due Date

E X H I B I T "A"

E2 NE SE

That portion of the East half of the Northeast quarter of the Southeast quarter of Section 15, Township 10 North, Range 5 West of the Gila and Salt River Base and Meridian, Yavapai County, Arizona, lying North and West of the State Highway as such Highway existed March 29, 1943.

EXCEPTING therefrom the following described tract:

That portion of the East half of Northeast ~~Northwest~~ quarter of the Southeast quarter of Section 15, Township 10 North, Range 5 West of the Gila and Salt River Base and Meridian, Yavapai County, Arizona, which lies Northeasterly of a line 100.00 feet Southwesterly of, parallel and concentric with the following described line;

COMMENCING at a point on the East line of said Section 15, which point bears South 0°01'11" East 768.64 feet from the East quarter corner thereof; thence North 40°48'11" East 48.04 feet; thence along a spiral curve to the left having an "a" = 10, a distance of 200 feet; thence from a local tangent bearing of North 20°48'11" East along the arc of a curve to the left having a radius of 286.48 feet, a distance of 288.96 feet to the POINT OF BEGINNING; thence from a local tangent bearing of North 36°59'22" West along a spiral curve to the left having an "a" = 10, a distance of 200.00 feet; thence North 56°59'22: West 6.31 feet; thence along a sprial curve to the right having an "a" = 5, a distance of 200.00 feet; thence from a local tangent bearing of North 46°59'22" West along the arc of a curve to the right having a radius of 572.96 feet, a distance of 300.00 feet to the POINT OF ENDING.

JDS

10/14/89

FROM: W. L. KURTZ

TO: JD Sell
WLG
Sy Lakosky

Jenkins
Yarnell

Please remember that we must reply to Jenkins Re: YX-1; YX-2 lode claims.

We need to review situation with RLB

call Jenkins esq, where are these & ask him to show the corners. RHB 10-11

Sent 4-3
April 11 from Jenkins
April 14 Jenkins from WLK agreement
Oct 5 from Jenkins YX-1 & 2

09/11/09

FROM: W. L. KURTZ

TO: JD Sell
WDG
Sylakosky

Jenkins
Yarnell

Please remember that we must reply to Jenkins Re: YX-1; YX-2 lode claims.

We need to review situation with RLB

10/10/89

FROM: W. L. KURTZ

To: Mary two copies 1) to Lekosky 1) to Gary

ORATION CO.

October 5, 1989

Bill Gay — any comment? Was this in the Jenkins claims to Norgold; if not why we overstate; let me know perhaps it can be included with the shares Norgold is already giving Jenkins

Mr. W.
Manage:
ASARCO
P.O. B
Tucson,

AS Incorporated

OCT 10 1989

SW Exploration

Dear M:

I .m conflict at the Yar-
nell m:) that one of the claims
previo ıd held by myself and a
Mr. Ch: RCO's YAR claim block.
In as ı I, ASARCO's joint venture
partne: ı Chris and I feel
that AS :his claim or void those
YAR cl .m covers a short but
import ı may eventually be of
strate ıy relationship with the
Norgol :he highest regard for
Mark M: .d hope that this un-
fortun and will be rectified
in a m :tention given this matter
will be greatly appreciated. For reference I have enclosed documentation that will show you clearly the problem.

cc. Orig to Bill with note

Sincerely,

Don L. Jenkins

Don L. Jenkins

cc: Chris Marker
Norgold Resources Inc.

enclosures

PS: we also have the YX-2 claim as well

1385 Iron Springs Road • Suite 234 • Prescott • Arizona • 86301

phone: 772-0056

GOLD RIVER EXPLORATION CO.

October 5, 1989

Mr. W.L. Kurtz
Manager, Western USA
ASARCO Inc.
P.O. Box 5747
Tucson, AZ 85703

RECEIVED
OCT 10 1989
EXPLORATION DEPARTMENT

AS ... incorporated
OCT 10 1989
SW Exploration

Dear Mr. Kurtz:

I wanted to bring to your attention a claim conflict at the Yarnell mining property. I noticed a few days ago that one of the claims previously offered to Norgold Resources Inc. and held by myself and a Mr. Chris Marker was overlapped totally by ASARCO's YAR claim block. In as much as this cliam was offered to Norgold, ASARCO's joint venture partner, and later overstaked by ASARCO, both Chris and I feel that ASARCO should tender an offer to acquire this claim or void those YAR claims that are in conflict. Our YX-1 claim covers a short but important segment of the Yarnell fault zone and may eventually be of strategic importance to the project. I value my relationship with the Norgold people and certainly have nothing but the highest regard for Mark Miller and ASARCO Inc. in general and would hope that this unfortunate circumstance is of importance to you and will be rectified in a manner beneficial to all parties. Your attention given this matter will be greatly appreciated. For reference I have enclosed documentation that will show you clearly the problem.

Sincerely,

Don L. Jenkins

Don L. Jenkins

cc: Chris Marker
Norgold Resources Inc.

enclosures

PS: we also have the YX-2 claim as well

1385 Iron Springs Road • Suite 234 • Prescott • Arizona • 86301

phone: 772-0056

AMERICAN MICRO-DATA

PAGE NO: 4536
PCN: LT892PP1

MERIDIAN: GILA-SALT R.

...CATION DATE	LATEST ASSMT-YR	CASE CLOSED
9/01/1988	0000	
9/01/1988	0000	
9/01/1988	0000	
9/01/1988	0000	
9/01/1988	0000	
...8;495 7/10/1959	1988	
...8;496 7/08/1959	1988	
...2;727 4/15/1981	1987	
...2;729 4/15/1981	1987	
...2;731 4/15/1981	1987	
...2;733 4/15/1981	1987	
...2;735 4/15/1981	1987	
...2;737 4/15/1981	1987	
...2;739 4/15/1981	1987	
...2;741 4/15/1981	1987	
...98;749 1/09/1984	1986	5/13/1988
...98;751 1/09/1984	1986	5/13/1988
...98;753 1/09/1984	1986	5/13/1988
...98;755 1/09/1984	1986	5/13/1988
...98;757 1/09/1984	1986	5/13/1988
...598;759 1/09/1984	1986	5/13/1988
...598;761 1/09/1984	1986	5/13/1988
...598;763 1/09/1984	1986	5/13/1988

...T NAMES AND ADDRESSES ARE ENTERED AS ...NOT APPEAR IN THE EXPECTED SEQUENCE. ...S/N INDICATES LAND STATUS CHECKED.

AMERICAN MICRO-DATA

10 N 5 W 14 SW — I-18

REPORT DATE: JUL 11, 1989
ADMINISTRATIVE STATE: ARIZONA

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

PAGE NO: 4551
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
10 N	5 W	14	SW	25	2	134462*	LD	PENNSYLVANIA NO 1	ROMAN ALVIN		1392;661	6/26/1981	1988	
			SW	25		137270	LD	RIM ROCK #1	GOLD DEPOSITORY	137165		5/20/1981	0000	8/16/1985
			SW	25		137271	LD	RIM ROCK #2		137165		5/20/1981	0000	8/16/1985
			NW	25		216540*	LD	GOLDEN STAR #1	PAULIC LOUIS PAULIC RITA LAMPE FRANK		; \\	2/20/1984	0000	12/13/1985
			NW	25		244694*	LD	VICTORIA #5	LAYTON D C LAYTON PRISCILLA	244694	1751;489	8/20/1985	1988	
			NW	25		288934*	LD	Y 1B	JENKINS DON	288934	2078;0422	8/06/1988	0000	
			N2,SW	25		288935*	LD	Y 2B		288934	2078;0424	8/06/1988	0000	
			ALL	25		288936*	LD	Y 3B		288934	2078;0426	8/06/1988	0000	
			S2	25		288937*	LD	Y 4B		288934	2078;0428	8/03/1988	0000	
			SW	25		288938*	LD	Y 5B		288934	2078;0430	8/06/1988	0000	
			SW	25		288941*	LD	SUN #1	NORGOLD RESOURCES	288934	2079;0476	8/09/1988	0000	
			S2	25		288942*	LD	SUN #2		288934	2079;0478	9/09/1988	0000	
			S2	25		288943*	LD	SUN 3B		288934	2079;0480	9/09/1988	0000	
			SW	25		288944*	LD	SUN #4		288934	2079;0482	9/09/1988	0000	11/01/1988
			SW	25		288945*	LD	SUN #5		288934	2079;0484	9/09/1988	0000	11/01/1988
			SW	25		288946*	LD	SUN 6B		288934	2079;0486	9/09/1988	0000	
			NW	25		294316*	LD	YAR #1	ASARCO	294316	2131;0587	3/15/1989	0000	
			NW	25		294317*	LD	YAR #2		294316	2131;0589	3/15/1989	0000	
			N2	25		294318*	LD	YAR #3		294316	2131;0591	3/15/1989	0000	
			SW	25		294319*	LD	YAR #4		294316	2131;0593	3/15/1989	0000	
			SW	25		294320*	LD	YAR #5		294316	2131;0595	3/15/1989	0000	
			SW	25		294321*	LD	YAR #6		294316	2131;0597	3/15/1989	0000	
			SW	25		294322*	LD	YAR #7		294316	2131;0599	3/15/1989	0000	
			S2	25		294323*	LD	YAR #8		294316	2131;0601	3/14/1989	0000	
			NW	25		294324*	LD	YAR #9		294316	2131;0603	3/16/1989	0000	
			NW	25		294325*	LD	YAR #10		294316	2131;0605	3/16/1989	0000	
			ALL	25		294326*	LD	YAR #11		294316	2131;0607	3/15/1989	0000	
			S2	25		294327*	LD	YAR #12		294316	2131;0609	3/15/1989	0000	
			SW	25		296365*	LD	YAR 39		296357	2155;0264	6/06/1989	0000	
		15	SW	25		102154	LD	NORTH STAR #1 ONE	SCARTH ROBERT W		1274;106	1/22/1980	1981	6/11/1982
			S2	25		102155	LD	NORTH STAR #2 TWO		102154	1274;108	1/22/1980	0000	11/17/1981
			SW	25		160226	LD	NORTH STAR #1	SCARTH ROBERT	160225	1342;983	2/12/1982	0000	11/15/1985
			NE	25		186111	PL	BIG JOHN	MCGREGOR JOHN MCGREGOR KATY		1485;962	9/02/1982	1983	4/18/1986
			SE	25		190528	LD	BUTLER #1	BUTLER CHARLES		1507;586	12/11/1982	1985	3/09/1987
			SE	25		190529	LD	BUTLER #2		190528	1507;587	12/11/1982	1985	3/09/1987
			NE	25		216540*	LD	GOLDEN STAR #1	PAULIC LOUIS PAULIC RITA LAMPE FRANK		; \\	2/20/1984	0000	12/13/1985
			N2	25		216541*	LD	GOLDEN STAR #2	PAULIC LOUIS PAULIC RITA LAMPE FRANK	216540	; 00	2/20/1984	0000	12/13/1985

* * 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

AMERICAN MICRO-DATA

PAGE NO: 4537
PCN: LT892PP1

MERIDIAN: GILA-SALT R.

COUNTY BOOK;PAGE	LOCATION DATE	LATEST ASSMT-YR	CASE CLOSED
...1935;531	2/25/1987	1988	
...2 1935;559	2/25/1987	1988	
...5 1073;9	5/07/1977	0000	7/25/1980
...5 1073;10	5/07/1977	0000	7/25/1980
...5 1073;45	5/07/1977	0000	7/25/1980
...5 1073;01	5/07/1977	0000	7/25/1980
...6 1073;02	5/07/1977	0000	7/25/1980
...6 1073;3	5/07/1977	0000	7/25/1980
...6 1073;4	5/07/1977	0000	7/25/1980
...6 1073;5	5/07/1977	0000	7/25/1980
...6 1073;6	5/07/1977	0000	7/25/1980
...05 1073;7	5/07/1977	0000	7/25/1980
...05 1073;8	5/07/1977	0000	7/25/1980
...05 1073;9	5/07/1977	0000	7/25/1980
...05 1073;10	5/07/1977	0000	7/25/1980
...05 1073;11	5/07/1977	0000	7/25/1980
...05 1073;12	5/07/1977	0000	7/25/1980
...05 1073;13	5/07/1977	0000	7/25/1980
...05 1073;14	5/07/1977	0000	7/25/1980
...05 1073;15	5/07/1977	0000	7/25/1980
...05 1073;16	5/07/1977	0000	7/25/1980
...05 1073;17	5/07/1977	0000	7/25/1980
...05 1073;18	5/07/1977	0000	7/25/1980
...05 1073;37	5/07/1977	0000	7/25/1980
...05 1073;38	5/07/1977	0000	7/25/1980
...05 1073;39	5/07/1977	0000	7/25/1980
...05 1073;40	5/07/1977	0000	7/25/1980
...05 1073;41	5/07/1977	0000	7/25/1980
...05 1073;42	5/07/1977	0000	7/25/1980
...05 1073;43	5/07/1977	0000	7/25/1980

...EPORT. NAMES AND ADDRESSES ARE ENTERED AS ...MAY NOT APPEAR IN THE EXPECTED SEQUENCE. ...TER S/N INDICATES LAND STATUS CHECKED.

AMERICAN MICRO-DATA

10 N 5 W 15 SE — J-18

REPORT DATE: JUL 11, 1989
ADMINISTRATIVE STATE: ARIZONA

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

PAGE NO: 4552
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
10 N	5 W	15	SE	25	2	288939*	LD	Y-6	JENKINS DON	288934	2078;0432	8/08/1988	0000	
			SE	25		288940*	LD	Y-7		288934	2078;0434	8/08/1988	0000	
			SE	25		288946*	LD	SUN 6B	NORGOLD RESOURCES	288934	2079;0486	9/09/1988	0000	
			SE	25		292089*	LD	YX 1	C E MARKER JENKINS DON	292089	2114;0238	1/15/1989	0000	
			SE	25		292973*	LD	YX 2	MARKER C E JENKINS DON	292973		2/01/1989	0000	
			NE	25		294316*	LD	YAR #1	ASARCO	294316	2131;0587	3/15/1989	0000	
			NE	25		294317*	LD	YAR #2		294316	2131;0589	3/15/1989	0000	
			E2	25		294318*	LD	YAR #3		294316	2131;0591	3/15/1989	0000	
			SE	25		294319*	LD	YAR #4		294316	2131;0593	3/15/1989	0000	
			SE	25		294320*	LD	YAR #5		294316	2131;0595	3/15/1989	0000	
			SE	25		294321*	LD	YAR #6		294316	2131;0597	3/15/1989	0000	
			SE	25		294322*	LD	YAR #7		294316	2131;0599	3/15/1989	0000	
			SE	25		296357*	LD	YAR 31		296357	2155;0256	6/06/1989	0000	
			S2	25		296358*	LD	YAR 32		296357	2155;0257	6/06/1989	0000	
			SE	25		296359*	LD	YAR 33		296357	2155;0258	6/06/1989	0000	
			SE	25		296360*	LD	YAR 34		296357	2155;0259	6/06/1989	0000	
			SE	25		296361*	LD	YAR 35		296357	2155;0260	6/06/1989	0000	
			S2	25		296362*	LD	YAR 36		296357	2155;0261	6/06/1989	0000	
			SE	25		296363*	LD	YAR 37		296357	2155;0262	6/06/1989	0000	
			SE	25		296364*	LD	YAR 38		296357	2155;0263	6/06/1989	0000	
			SE	25		296365*	LD	YAR 39		296357	2155;0264	6/06/1989	0000	
		16	S2	25		60985	PL	ANNA-MARIE	GAVA-CANO MINING CO		1238;85	8/04/1979	1981	9/16/1985
		17	E2	25		140468*	LD	CROWN PRINCE #1	WESTBROOK BOBBY		1408;955	9/02/1981	1987	10/12/1988
			E2	25		140469*	LD	CROWN PRINCE #2		140468	1408;957	9/02/1981	1988	
			NE	25		213524*	LD	CROWN PRINCE #3	MCKENNA MICHAEL			1/02/1984	1988	
			SW	25		271379*	LD	SILGO #15	JACOBS DAN	271345	1951;0231	4/26/1987	1988	
			NW	25		291757*	LD	HR #41	HUTCHISON JAMES RUBASH GROVER	291740		12/27/1988	0000	
			NW	25		291758*	LD	HR #42	HUTCHISON JAMES RUBASH GROVER	291740		12/27/1988	0000	
			NE	25		291759*	LD	HR #43	HUTCHISON JAMES RUBASH GROVER	291740		12/21/1988	0000	
			NW	25		291761*	LD	HR #45	HUTCHISON JAMES RUBASH GROVER	291740		12/27/1988	0000	
			NW	25		291762*	LD	HR #46	HUTCHISON JAMES RUBASH GROVER	291740		12/27/1988	0000	
			NE	25		291763*	LD	HR #47	HUTCHISON JAMES RUBASH GROVER	291740		12/27/1988	0000	
			NW	25		291765*	LD	HR #49	HUTCHISON JAMES RUBASH GROVER	291740		12/27/1988	0000	
			NE	25		291766*	LD	HR #50	HUTCHISON JAMES RUBASH GROVER	291740		12/27/1988	0000	

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AMERICAN MICRO-DATA

PAGE NO: 4538
PCN: LT892PP1

MERIDIAN: GILA-SALT R.

10 N 5 W 17 NW — K-18

REPORT DATE: JUL 11, 1989
ADMINISTRATIVE STATE: ARIZONA

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

PAGE NO: 4553
PCN: LT892PP1

MERIDIAN: GILA-SALT R.

GEOGRAPHIC INDEX
ALL CLAIMS

- -LEGAL DESCRIPTION- - GEO BLM SERIAL CASE NO. TYPE CLAIM NAME/NUMBER CLAIMANT(S) LEAD FILE COUNTY BOOK;PAGE LOCATION DATE LATEST ASSMT-YR CASE CLOSED

STATE OF ARIZONA, ss.
County of _____
Docket No. _____, Page _____

I hereby certify that the within instrument was filed and recorded _____, 19___, at ___ M.

Fee No.:

RUSH

When recorded mail to:

Witness my hand a

By _____

RECORDER YAVAPAI COUNTY ARIZONA

INSTRUMENT # 8901761
OFFICIAL RECORDS OF
YAVAPAI COUNTY
PATSY C. JENNEY
REQUEST OF:
C.E. MARKER
DATE: 01/16/89 TIME: 12:30
FEE: 5.00
BOOK 2114 PAGE 238 PAGES: 002

NOTICE OF MINING CLAIM LOCATION

$ 5	1	P	4	Co	5	St
Bk		Map			Pcl	

RECEIVED
B.L.H. AZ STATE OFFICE
1989 JAN 17 PM 1:
PHOENIX, ARIZONA

A MC 292089

1. ☒ Location ☐ Amendment *Check one only*
2. ☐ Placer ☒ Lode ☐ Millsite ☐ Tunnelsite *Check one only*
3. The name and address of the Locator is CE MARKER & DON JENKINS (Name)
1226 LINDA VISTA (Address) PRESCOTT (City) AZ (State) 86301 (Zip)
4. The name of the claim is YX-1
5. The date of the location is JAN. 15, 1989
6. The type of location monument is WHITE PVC Pipe
7. The type of corner and end monument is " " "
8. The claim is ~1000 feet long and ~600 feet wide. The Distance from the location monument to each end of the claim is ~100 feet in a NE direction and ~900 feet in a SW direction.
9. The general course is from the NE to the SW.
10. The location of the claim occupies all or part of the following quarter sections:

Quarter Section(s)	Section(s)	Township(s)	Range(s)
SE	15	10 N	5 W

11. The locality of this claim with reference to some natural object or permanent monument and additional information (if any) concerning its locality are as follows:
THE EAST END OF YX-1 ADJOINS Y-6 & Y-7 SOUTH END. YX-1 CONTAINS ~13 ACRES LESS OVERLAP OF STATE LANDS AND HIWAY RIGHT OF WAY
12. If amending, the previous claim name was _____ recorded in Docket _____, Book _____, Mining District, _____ County, Arizona.

Date 1-15-89 BOOK 2114 PAGE 238 CEMarker Don L. Jenkins
Signature

MAP OF MINING CLAIM LOCATION

1. The name of the claim is YX-1

2. Type of claim is ☐ Placer ☒ Lode ☐ Millsite ☐ Tunnelsite *Check one only*

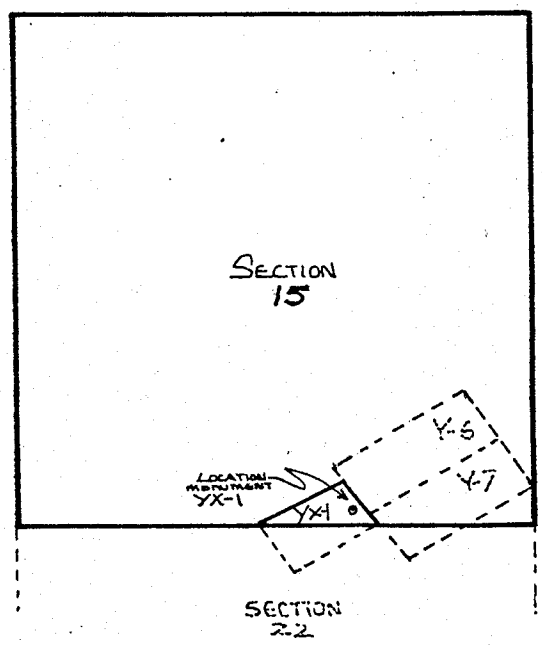
3. The NE corner of the claim is ~ 1600 feet in an EASTERLY direction to a survey monument or permanent natural object described as THE SE CORNER OF SECTION 15 - T10N-R5W

4. The bearing and distance between the corners of the claim are beginning at the NE corner of the claim, ~ 600 feet in a NW direction to the NW corner, then ~ 1000 feet in a SW direction to the SW corner, then ~ 600 feet in SE direction to the SE corner, then ~ 1000 feet in a NE to the point of beginning.

MAP

One inch = Two thousand feet

North arrow



Section 15 Township 10N Range 5W G & SRB & M

Date 1-15-89 BOOK 2114 PAGE 239 C E Marker Signature

A MC 292089

RUSH

INSTRUMENT # 8920867
OFFICIAL RECORDS OF
YAVAPAI COUNTY
PATSY C. JENNEY
REQUEST OF:
WILLIAM D. GAY
DATE: 06/08/89 TIME: 10:00
FEE: 5.00
BOOK 2155 PAGE 262 PAGES: 001

5 - 1

NOTICE OF LOCATION
(Lode Claim)

Notice is hereby given that ASARCO Incorporated, whose mailing address is P. O. Box 5747, Tucson, Arizona 85703, by its undersigned agent, makes this location of the YAR-37 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 North to South.

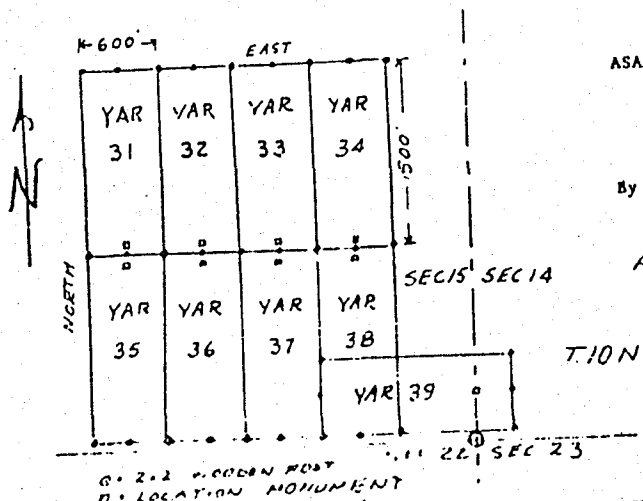
This Notice is posted on the centerline of the claim which location monument is in Section 15, Township 10N, Range 5W, GSRB&M.

The location monument of said claim is located approximately North 1390 feet, thence West 1500 feet from the SE corner of Section 15, Township 10N, Range 5W, GSRB&M, Arizona and said claim lies within the SE¼, Sec 15 & NE¼, Sec 22 GSRB&M.

The surface boundaries of the claim are described as follows: Beginning at the location monument and running thence North 20 ft. to the center of the end line and the true point of beginning thence (clockwise) E 300 ft. to corner 1, thence S 1500 ft. to corner 2, thence W 300 ft. to center end line, thence W 300 ft. to corner 3, thence N 1500 ft. to corner 4, thence E 300 ft. 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 6 day of June, 1989.



ASARCO Incorporated

By W. D. Gay
Agent

ALL CLAIMS 600'x1500'

2155 262

RUSH

INSTRUMENT # 8920869
OFFICIAL RECORDS OF
YAVAPAI COUNTY
PATSY C. JENNEY
REQUEST OF:
WILLIAM D. GAY
DATE: 06/08/89 TIME: 10:00
FEE: 5.00
BOOK 2155 PAGE 264 PAGES: 001

S 1/2

NOTICE OF LOCATION
(Lode Claim)

Notice is hereby given that ASARCO Incorporated, whose mailing address is P. O. Box 5747, Tucson, Arizona 85703, by its undersigned agent, makes this location of the YAR-39 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 East to West.

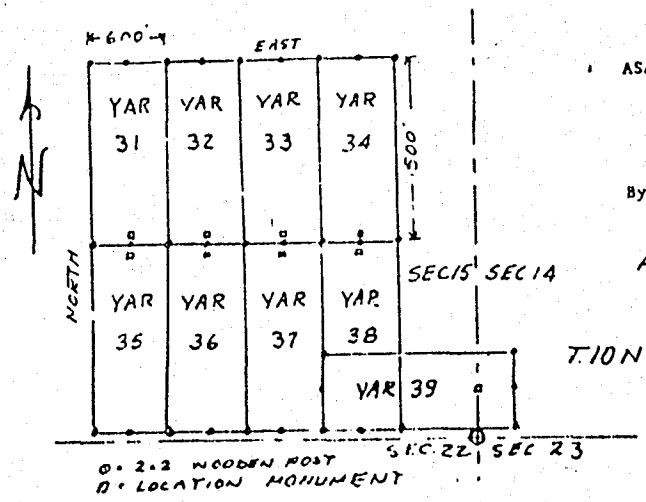
This Notice is posted on the centerline of the claim which location monument is in Section 15, Township 10N, Range 5W, GSRB&M.

The location monument of said claim is located approximately North 210 feet, thence West 5 feet from the SE corner of Section 15, Township 10N, Range 5W, GSRB&M, Arizona and said claim lies within the SE¼ Sec 15, NE¼, Sec 22, NW¼, Sec 23 & SW¼, Sec 14 GSRB&M.

The surface boundaries of the claim are described as follows: Beginning at the location monument and running thence E 305 ft to the center of the end line and the true point of beginning thence (clockwise) S 300 ft to corner 1, thence W1500 ft to corner 2, thence N 300 ft to center end line, thence N 300 ft to corner 3, thence E1500 ft to corner 4, thence S 300 ft 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 6 day of June, 1989.



ASARCO Incorporated

By W. D. Gay
Agent

ALL CLAIMS 600'x1500'

STATE OF ARIZONA)
COUNTY OF YAVAPAI) ss:

This instrument was acknowledged before me, Kathron M. Gonzales, this 20th day of September, 1989 by C.E. Marker

In witness whereof I have hereunto set my hand and official seal.

OFFICIAL SEAL
KATHRON M. GONZALES
NOTARY PUBLIC STATE OF ARIZONA
YAVAPAI COUNTY
My Comm Expires March 5 1990

Kathron M. Gonzales
Notary Public

BOOK 2184 PAGE 437

RUSH

AFFIDAVIT OF PERFORMANCE OF ANNUAL WORK

$5	1	P	4	Cc	5	St
Bk		Map			Pcl	

State of Arizona
Yavapai County

1. The undersigned being duly sworn according to law deposes and says that he is a citizen of the United States of America. more than eighteen years of age and that all of the facts set forth in this affidavit are true and correct according to the best of his knowledge, information and belief.

2. That he is personally acquainted with the following mining claim:

Name	Book;Page	BLM AMC #
YX-1	2114;238-239	292089

Located in SW 1/4, Sec.15, T.10 N. R 5 W, Yavapai Co., AZ.

3. That between the first day of October, 1988 and the first day of September, 1989 at least $200.00 worth of work and improvements were done and performed upon the above listed claims, not including location work.

4. The work and improvements were made by and at the expense of:

Don L. Jenkins
P.O. Box 4106
Prescott, Az 86302,

and

C.E. Marker
1226 Linda Vista
Prescott, AZ 86301

owners of said mining claims for the purpose of complying with the laws of the United States and of Arizona pertaining to annual assessment work as required.

5. The work was done by the following and at the request of owner:

Gold river exploration Co., Don Jenkins and C.E. Marker.

6. The work and improvements done consisted of the following:

INDEXED & MICROFILMED

INSTRUMENT # 8934902
OFFICIAL RECORDS OF
YAVAPAI COUNTY
PATSY C. JENNEY
REQUEST OF:
C E MARKER
DATE: 09/20/89 TIME: 08:30
FEE: 5.00
BOOK 2184 PAGE 436 PAGES: 002

C.E. Marker
Golden

RUSH

AFFIDAVIT OF PERFORMANCE OF ANNUAL WORK

$ 5	1	P	4	Co	5	St
Bk		Map			Pcl	

State of Arizona
Yavapai County

1. The undersigned being duly sworn according to law deposes and says that he is a citizen of the United States of America. more than eighteen years of age and that all of the facts set forth in this affidavit are true and correct according to the best of his knowledge, information and belief.

2. That he is personally acquainted with the following mining claim:

Name	Book;Page	BLM AMC #
YX-1	2114;238-239	292089

Located in SW 1/4, Sec.15, T.10 N. R 5 W, Yavapai Co., AZ.

3. That between the first day of October, 1988 and the first day of September, 1989 at least $200.00 worth of work and improvements were done and performed upon the above listed

JDS

FACSIMILE TRANSMISSION

DATE: Oct. 10/89

TO: Asarco Incorporated

ATTENTION: Mr Jim Sell

TOTAL NUMBER OF PAGES: 14 (including this page)

FROM: BRIAN D. EDGAR
RAND EDGAR & SEDUN
Suite 2200 - 885 W. Georgia St.
Vancouver, B.C.
V6C 3E8

Telephone: (604) 687-9931
Telecopier: (604) 681-7116

RECEIVED
OCT 10 1989
EXPLORATION DEPARTMENT

COMMENTS: Copy of agreement between Norgold Resources (US) Inc. and Mr Forrest B. Heintzelman.

IF THIS TRANSMISSION IS NOT FULLY OR LEGIBLY RECEIVED,

PLEASE TELEPHONE (604) 687-9931 OPERATOR: Verona

****

CLIENT: Norgold

RE:

FILE NO: 2003

TRANSMISSION TO:

TELECOPIER: (602) 624-3369

TIME OF TRANSMITTAL: _____ a.m. / p.m.

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

(1016A)

RECEIVED
OCT 10 1989
EXPLORATION DEPARTMENT

AGREEMENT AND OPTION TO PURCHASE

THIS AGREEMENT, made this 30 day of June, 1989, by and between FORREST B. HEINTZELMAN, a single man (herein "Heintzelman"), and NORGOLD RESOURCES (US) INC., a Delaware corporation (herein "Norgold");

W I T N E S S E T H :

RECITALS:

Heintzelman is the owner of the following described real property (herein the "Property"), situated in Yavapai County, Arizona, to-wit:

> MOTHER LODE MINING CLAIM, designated by the Surveyor General as Lot No. 1201, located in the Weaver Mining District, United States Patent whereof is recorded in the office of the County Recorder of Yavapai County, Arizona, in Book 43 of Deeds, pages 296-300.

Norgold wishes to purchase and Heintzelman wishes to sell the Property on the terms contained herein.

AGREEMENT:

NOW, THEREFORE, in consideration of the mutual covenants contained herein, the parties hereto agree as follows:

1. Option to Purchase. Heintzelman hereby grants to Norgold the exclusive right and option to purchase the Property (the "Option"), upon the terms and conditions contained herein.

2. Obligatory Payments. As consideration for the granting of the Option, Norgold shall pay to Heintzelman the total sum of $15,000.00, payable as follows:

(a) The sum of $5,000.00 upon the execution of this Agreement; and

(b) The sum of $5,000.00 on or before the date which is six months after the date of this Agreement; and

(c) The sum of $5,000.00 on or before the date which is twelve months after the date of this Agreement.

The obligatory payments set forth in this Paragraph 2 shall be paid by Norgold to Heintzelman whether or not the Option is exercised.

3. Additional Payments. In order to maintain the Option in effect, Norgold shall make the following payments to Heintzelman:

(a) The sum of $12,500.00 on or before the date which is eighteen months after the date of this Agreement; and

(b) The sum of $12,500.00 on or before the date which is twenty-four months after the date of this Agreement; and

(c) The sum of $10,000.00 on or before the date which is thirty-six months after the date of this Agreement.

The additional payments set forth in this Paragraph 3 shall not be obligatory, but the failure to make such additional payments shall result in the termination of the Option.

4. Method of Payment. All dollar amounts set out in this Agreement are United States dollars. Payments made by Norgold to Heintzelman pursuant to this Agreement shall be made by certified or cashier's check in United States dollars, delivered to Heintzelman's address as set forth in Paragraph 15.

5. Term of Option. The Option shall commence immediately upon the execution of this Agreement. The primary term of the Option shall terminate on the date which is twelve months after the date of this Agreement. Each payment made pursuant to Paragraph 3 shall extend the term of the Option until the due date of the next succeeding payment under Paragraph 3. Upon the failure of Norgold to pay any of the additional payments set forth in Paragraph 3, the same shall be considered a breach of a condition of this Agreement and Heintzelman shall be entitled to send termination notice in accordance with Paragraph 11.

6. Exercise of Option. Upon the receipt by Heintzelman of the total sum of $50,000.00 pursuant to Paragraphs 2 and 3, the Option shall for all purposes be deemed to have been exercised, and Norgold shall be the beneficial owner of the Property and shall be entitled to become the legal owner of the Property.

7. Delivery of Deed; Escrow. Forthwith upon the execution of this Agreement, Heintzelman shall execute a quit-claim deed (herein the "Deed"), in the form as evidenced by Exhibit "A" attached hereto, and made a part hereof by reference. Heintzelman shall deposit the Deed with First American Title Insurance Company of Yavapai, Inc. (the "Escrow Holder"), 600 West Gurley Street, Post Office Box 228, Prescott, Arizona 86302. Upon payment of the total sum of $50,000.00 pursuant to Paragraphs 2 and 3, the Escrow Holder shall deliver the Deed to Norgold, and Norgold shall be entitled to record the Deed in the office of the County Recorder of Yavapai County, Arizona. If the Option is terminated prior to its exercise, the Escrow Holder shall deliver the Deed to Heintzelman, and Norgold shall have no further interest in the Property. The Escrow Holder shall be entitled to rely upon the affidavit of Heintzelman or Norgold to the effect that the Option has been exercised or the Option has terminated, as the case may be, in delivering the Deed; provided that upon receiving the request from a party to receive the Deed, accompanied by an affidavit, the Escrow Holder shall send a copy of the affidavit to the other party together with a notice in writing advising the other party that the Escrow Holder intends to deliver the Deed thirty days after the date of such notice. At the end of such thirty-day period, the Escrow Holder shall be entitled to deliver the Deed as set out in its notice. The cost of engaging the

Escrow Holder shall be paid by Norgold. Norgold shall be entitled forthwith to record an executed counterpart of this Agreement in the office of the County Recorder of Yavapai County, Arizona, in order to give public notice of the existence of the Option. In the event Norgold does not exercise the Option, and the Option terminates, Norgold shall execute and deliver to Heintzelman a quit-claim deed embracing the Property, which Heintzelman shall be entitled to record in the office of the County Recorder of Yavapai County, Arizona, together with an affidavit of the Escrow Holder verifying that the Option terminated without exercise.

8. Mining Activities. Prior to the exercise of the Option, Norgold shall have the exclusive right to enter upon and occupy the Property and to conduct mineral exploration, development and mining activities thereon. Heintzelman shall not interfere with such activities in any way. In all events, the relationship of the parties is that of seller and buyer only, it being expressly understood that no agency of any kind has been created.

9. Representations by Heintzelman. Heintzelman represents that:

(a) He is the legal and beneficial owner of the Property, free and clear of all liens, charges or encumbrances, except as set forth on Exhibit "B" attached hereto, and made a part hereof by reference.

(b) He has the full right, title, power, capacity and authority to enter into this Agreement.

(c) No other firm, person or corporation has any interest in the Property that would conflict with the terms of this Agreement.

(d) He has received no notice of and has no knowledge of any violation of federal, state or local law relating to the Property.

Heintzelman makes no representations as to the condition of the Property and the same is being purchased in an "as is" condition by Norgold, and it shall be Norgold's duty and obligation during the Option period to determine the suitability of the Property and whether there is any outstanding environmental or other problems that may presently exist on or with relation to the Property.

10. Indemnification; Insurance. Norgold hereby agrees to indemnify, protect, defend and hold harmless Heintzelman from any claim, demand, suit, action, administrative determination or other proceeding whatsoever by any person arising or purportedly arising from or as a result of the mining operations, occupation, use or possession of the Property, including any injury or damage to any person or property by or from any act or event which occurs in, about or upon the Property during the term of the Option. During the term of the Option, Norgold agrees to insure the Property and all operations conducted thereon against such risks as Norgold shall determine (including public liability) in an amount not less than $1 million per occurrence. Such insurance shall be procured from substantial and responsible insurance companies

doing business in the State of Arizona. The policy of insurance shall name Heintzelman as an additional insured thereunder. Evidence of such insurance and the payment of premiums thereon shall be provided to Heintzelman within thirty days after the execution of this Agreement, and from time to time thereafter, upon request.

11. Termination. This Agreement may be terminated as follows:

> (a) By Heintzelman in the event of a breach of a term or condition of this Agreement by Norgold, provided that Heintzelman shall give notice in writing to Norgold setting out the details of the breach and allowing Norgold thirty days after delivery of the notice to remedy the breach, or, if the breach is of a kind that cannot be remedied within a thirty-day period, allowing Norgold a reasonable time to diligently and in good faith take all reasonable steps to remedy the breach. In the event that the breach is not remedied within the time allowed, this Agreement shall terminate and be null and void. Provided, however, that any such termination shall not relieve Norgold of the obligation to pay the obligatory payments required by Paragraph 2, which obligatory payments shall remain due and payable notwithstanding any such termination.
>
> (b) By Norgold, upon thirty days notice in writing to Heintzelman. In the event of the termination of this Agreement prior to the exercise of the Option, Norgold shall have a period of six months to remove from the Property anything brought to the Property by Norgold.

12. Compliance with Authorities. Any licenses or permits or permissions required for the mining of the Property

shall be obtained by Norgold at its sole expense. At Norgold's request, Heintzelman shall reasonably cooperate with Norgold in its efforts to obtain such necessary licenses, permits or permissions. In the event the Option terminates without being exercised, Norgold shall comply with all environmental and safety laws and regulations applicable to the Property in order that possession of the Property may be returned to Heintzelman in the condition as it existed as of the date of this Agreement with respect to environmental and safety matters. Heintzelman's satisfaction with the condition of the Property shall be confirmed for all purposes unless Heintzelman otherwise notifies Norgold in writing within sixty calendar days of the date of delivery of Norgold's termination notice described in Paragraph 11(b).

13. Real Property Taxes. Norgold shall pay all real property taxes, assessments and charges of any kind which become payable with respect to the Property during the term of the Option.

14. Governing Authority. This Agreement shall be interpreted in accordance with the laws of the State of Arizona and the parties agree to submit to the jurisdiction of the Arizona courts with respect to any action or suit arising under this Agreement or with respect hereto.

15. Notice. Wherever in this Agreement it shall be required or permitted that notice be given or served by either party to or on the other, such notice shall be given or served

and shall not be deemed to have been duly given or served unless in writing, and delivered by courier service, telefax or other similar means of recorded communication, addressed as follows:

(a) If to Norgold:

Norgold Resources (US) Inc.
2380 Harbour Centre
Post Office Box 12122
555 West Hastings Street
Vancouver, British Columbia
V6B 4N6

Telefax Number:

with copy to
Rand Edgar & Sedun
Barristers & Solicitors
2200-885 West Georgia Street
Vancouver, British Columbia
V6C 3E8

Telefax Number: (604) 681-7116

(b) If to Heintzelman:

Mr. Forrest B. Heintzelman
1315 Cedar Crest Boulevard
Allentown, Pennsylvania
18104

Copy to:

Edmund G. Hauff, Esquire
640 Hamilton Mall
Allentown, Pennsylvania
18101

Telefax Number: (215) 820-5214

or at such other address as may have been designated by one party in a notice served upon the other. Delivery shall be considered to have been made (a) on the date of delivery, if served by courier service, or (b) twenty-four hours after

transmission, if served by telefax or other similar means of recorded communication.

16. Assignment. Heintzelman may assign his interest in this Agreement. Norgold may assign its interest in this Agreement only with the prior written consent of Heintzelman, which consent shall not be unreasonably withheld. Notice of any such assignment shall be promptly given to the other party.

17. Suit. In any action or suit which may be brought by either party to enforce this Agreement, or to recover damages for the breach hereof, the court, sitting without a jury, shall award a reasonable amount as and for attorney's fees to the prevailing party.

18. Titles. The titles which are used following the number of each paragraph shall be used solely for convenience of reference and shall not affect the meaning, construction or effect of the provisions hereof.

19. Waiver. The waiver by either party of any breach of any term, covenant or condition herein contained shall not be deemed to be a waiver of such term, covenant or condition or any subsequent breach of the same or any other term, covenant or condition herein contained.

20. Number; Gender. The singular form of any word used herein shall include the plural, and vice versa. The use herein of a word of any gender shall include correlative words of all genders.

21. Amendments. This Agreement may be effectively amended, changed, modified or altered only by written instrument executed by the parties hereto.

22. Time of Essence. Time is of the essence of this Agreement.

23. Covenants Binding on Successors. The terms, covenants and conditions herein contained shall inure to the benefit of and shall be binding upon the parties hereto, their heirs, personal representatives, successors and permitted assigns.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement as of the day and year first above written.

FORREST B. HEINTZELMAN

NORGOLD RESOURCES (US) INC.

By _____
Its President

STATE OF PENNSYLVANIA)
) ss:
County of Lehigh)

The foregoing instrument was acknowledged before me this 30th day of June, 1989, by FORREST B. HEINTZELMAN, a single man.

Donna B. Waldt
Notary Public

My Commission Expires:
June 14, 1990

Notarial Seal
Donna B. Waldt, Notary Public
Allentown, Lehigh County
My Commission Expires June 14, 1990

COMMONWEALTH OF CANADA)
)
Province of British Columbia)

The foregoing instrument was acknowledged before me this 16 day of June, 1989, by C. MUIR, the President of NORGOLD RESOURCES (US) INC., a Delaware corporation, on behalf of the corporation.

Notary Public

My Commission Expires:

DOES NOT EXPIRE

QUIT-CLAIM DEED

For the consideration of TEN DOLLARS ($10.00), and other valuable considerations, FORREST B. HEINTZELMAN, a single man, as "Grantor", does hereby quit-claim to NORGOLD RESOURCES (US) INC., a Delaware corporation, as "Grantee", all right, title and interest in and to the following described real property situated in Yavapai County, Arizona, to-wit:

MOTHER LODE MINING CLAIM, designated by the Surveyor General as Lot No. 1201, located in the Weaver Mining District, United States Patent whereof is recorded in the office of the County Recorder of Yavapai County, Arizona, in Book 43 of Deeds, pages 296-300.

DATED this _____ day of _____, 1989.

EXHIBIT
Not To Be Signed

_____
FORREST B. HEINTZELMAN

STATE OF PENNSYLVANIA)
) ss:
County of Lehigh)

The foregoing instrument was acknowledged before me this _____ day of _____, 1989, by FORREST B. HEINTZELMAN, a single man.

_____
Notary Public

My Commission Expires:

_____

EXHIBIT "A"

JDS

ASARCO

Southwestern Exploration Division

October 10, 1989

Mark A. Miller

Core Marking Suggestions

Attached is the reference I mentioned that may be of use to you in handling and marking the core from Yarnell. The marking is usually done by the drill crew when the core is removed from the core barrel. A rag to dry the core is a "must" if the markings are to stay on the core. The article was written as you can tell for the oil industry, but is equally useful in mineral exploration.

Other comments:

1. The center line can be left off the core.
2. The vertical lines are easily drawn by taping the pens together and marking the three (or two) lines at the same time.
3. Any break in the core made by the drill crew (to fit core in the core box or during removal from core barrel) should be marked with an X similar to the chevrons discussed in the article.

Good luck.

Jim

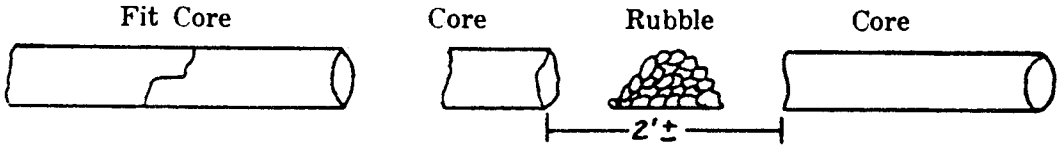
Jim Rasmussen

JDR:mek
att.

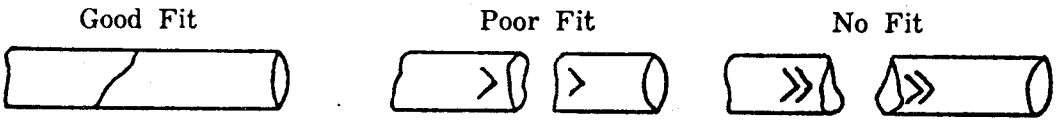
cc: J.D. Sell (w/att.)

CORE MARKING PROCEDURE

1. Set up joints of drill pipe, etc., as required to lay out core.
2. Wipe core clean with clean dry rags or paper towels.
3. Fit core. Space rubble between ends of core.

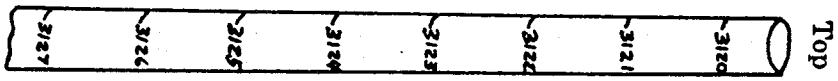


4. Mark core fit if other than "good".



No marks necessary — One chevron — Two chevrons

5. Mark core with depths using ink pen.



6. Reference and orientation lines are added.
   (Red on left, green on right with top up—freehand).
7. Describe oil shows and core.
8. Box core.

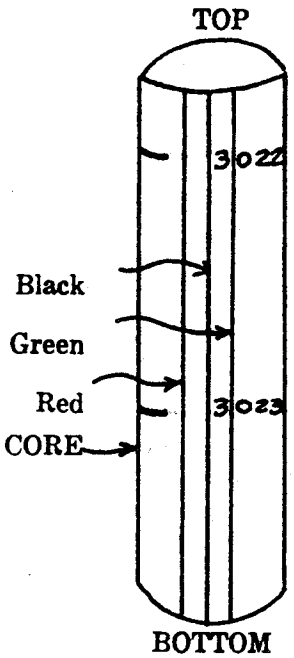


Figure 1.

WLK → FILE

ASARCO

Southwestern Exploration Division

October 10, 1989

JD Sell — our concern is cutting in half for representative assay the other suggestions are fine but not critical to my mind.

Mark A. Miller

Core Marking Suggestions

Attached is the reference I mentioned that may be of use to you in handling and marking the core from Yarnell. The marking is usually done by the drill crew when the core is removed from the core barrel. A rag to dry the core is a "must" if the markings are to stay on the core. The article was written as you can tell for the oil industry, but is equally useful in mineral exploration.

Other comments:

1. The center line can be left off the core.
2. The vertical lines are easily drawn by taping the pens together and marking the three (or two) lines at the same time.
3. Any break in the core made by the drill crew (to fit core in the core box or during removal from core barrel) should be marked with an X similar to the chevrons discussed in the article.

Good luck.

If you don't put line down length on core where to saw than "the marker man" must break core at "saw required" intervals so that the "saw man" Jim will know where to saw.

Jim Rasmussen

JDR:mek
att.

True, place center line, saw mark, to be in the position necessary for the proper cut.

cc: J.D. Sell (w/att.)

Yarnell 10-11-89

1. Where are we at?
2. Where are we going?

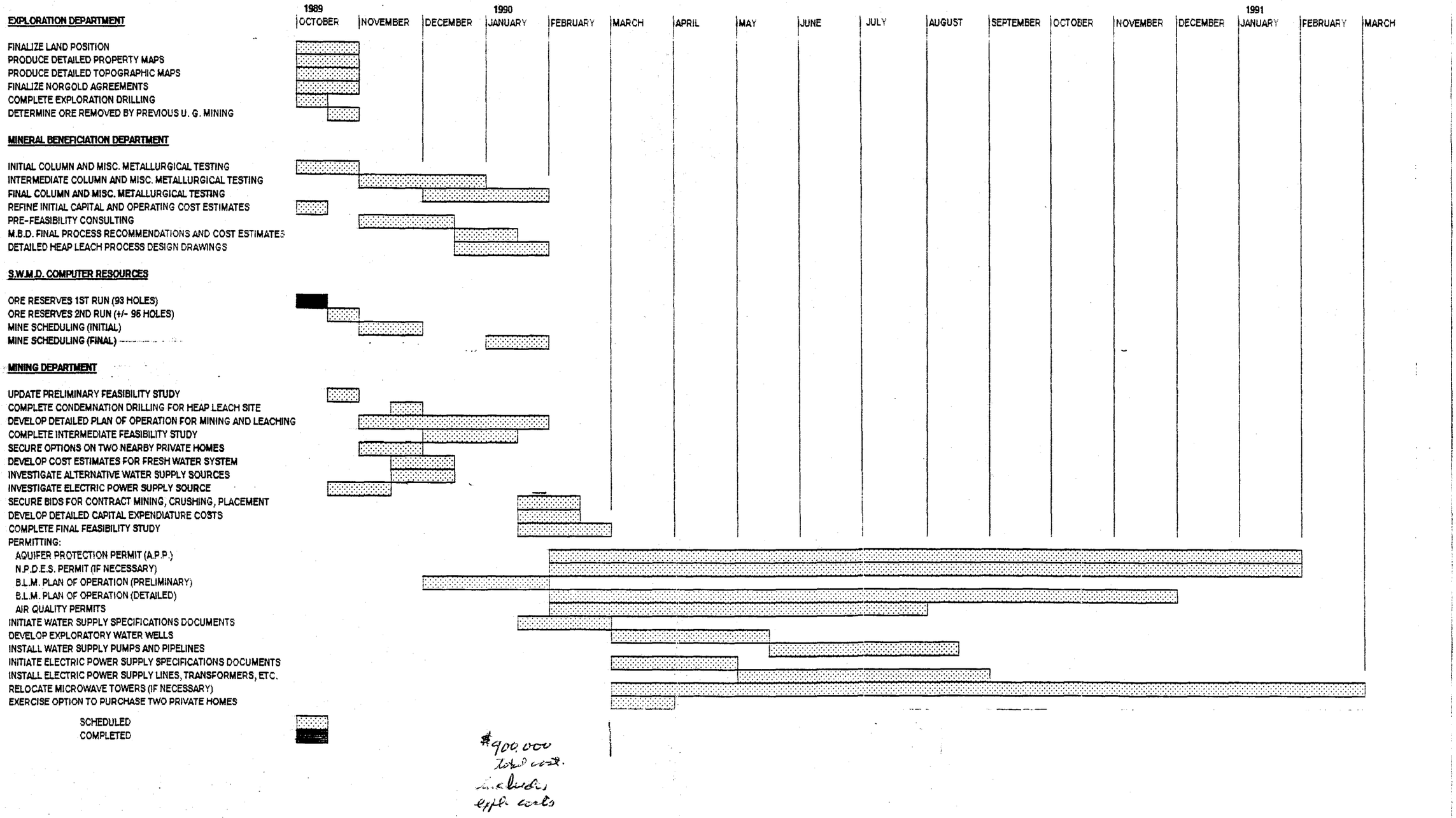
Moat now CEO
Philpot now President) Norgold

No further info to Norgold until agreements signed! (RLB)
10 days for signing of agreement (RLB-work)
ASARCO to take over negotiation of Santa Fe-Marcopper.

6"	53 days	34%	
2"	43 days	45%	
3/8"	43 days	42%	agglomerated

10-11-89

YARNELL PROJECT ACTIVITY CHART (PRELIMINARY)



$900,000
Total cost.
Including
expl. costs

10-11-89

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 .021 cutoff

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 .015 cutoff

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 .027 cutoff

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.

10-11-89

YARNELL DATA (PRELIMINARY)

		(−) 10% reduction in operating costs CASE I	BASE CASE	(+) 20% increase in operating costs. 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

Costs:

Santa Fe 300,000
Mancos 152,000
Mech. Rec. Plant 500,000
lower generation 60,000

backup power
Sat Prog
2 hour
monitor Hilds.
Water Supply 400,000
Administration etc 250,000

ASARCO - Density Determination

10-10-89

Sample	Method	Density Range (g/cm³)	Avg.	Std. Dev.
YDDH-1				
114.3-115	Torbal Balance	2.64-2.70	2.67	0.0250
	Graduated Cylinder	2.54-2.71	2.64	0.0709
257-257.5	Torbal Balance	2.58-2.62	2.60	0.0191
	Graduated Cylinder	2.36-2.65	2.50	0.167
301-301.65	Torbal Balance	2.68-2.75	2.70	0.0311
	Graduated Cylinder	2.49-2.67	2.58	0.104

T-10-89 TUE 10:30 AM ENGINEERING P.01

22-141 50 SHEETS
22-142 100 SHEETS
22-144 200 SHEETS

ASARCO - Density Determination 10-10-89

K ≡ ρ_{wax} (g/ml) = 0.885
W ≡ init. wt. (g)
P ≡ wax coated wt (g)
S ≡ suspended wt (g)
V ≡ vol. (ml) = $V_1 - V_2$
V_1 ≡ vol. including wax (ml) = P − S
V_2 ≡ vol. wax = (P − W)/K
B ≡ bulk density = W/V

Notes:
1. All A Samples were done by the graduated cylinder method. B samples were done by the balance method.
2. Trials 1 & 2 were conducted on 10-9-89. Trials 3 & 4 were conducted on 10-10-89.
3. Samples 1, 2, and 3 correspond to 100, 200 and 300 interval samples respectively.

Trial	Specimen	W(g)	P (g)	S(g) vol. dis	V_1(ml)	V_2(ml)	V (ml)	B (g/ml)	DAY
1	1A	122.17					45	2.71	
	1wax	66.43	68.13		27	1.92	25.08	2.65	
	2A	132.65					50	2.65	CYLINDER-1
	2wax	62.21	63.64		28	1.62	26.38	2.36	
	3A	146.69					55	2.67	
	3wax	71.04	72.33		30	1.46	28.54	2.49	
2	1B	94.24		59.40			34.84	2.70	
	1wax	66.43	68.13	41.25	26.88	1.92	24.96	2.66	
	2B	97.22		60.05			37.17	2.62	TORBAL -1
	2wax	62.21	63.64	38.10	25.54	1.62	23.92	2.60	BALANCE
	3B	115.05		72.50			42.55	2.70	
	3wax	71.04	72.33	44.55	27.78	1.46	26.32	2.75	
3	1A	122.17					48	2.54	
	1wax	66.43	68.13		27	1.92	25.08	2.65*	
	2A	132.65					50	2.65	CYLINDER-2
	2wax	62.21	63.64		28	1.62	26.38	2.36	
	3A	146.69					55	2.67	
	3wax	71.04	72.33		30	1.46	28.54	2.49	
4	1B	94.24		59.01			35.23	2.67	
	1wax	66.43	68.13	41.10	27.03	1.92	25.11	2.64	
	2B	97.22		60.12			37.1	2.62	TORBAL -2
	2wax	62.21	63.64	37.94	25.70	1.62	24.08	2.58	BALANCE
	3B	115.05		72.31			42.74	2.69	
	3wax	71.04	72.33	44.41	27.92	1.46	26.46	2.68	

DIAMOND DRILL RECORD

HOLE NO. [illegible]

Coord _____ N _____ E Elev. _____ PROPERTY YARNELL PROJECT

Bearing – Inclination VERTICAL Depth 350' LOCATION YM-8 REVERSE CIRCULATION LOCATION

Started _____ Completed _____ Notes by M. MILLER Scale 1" = 10' Sheet 1 of 4

DEPTH	% REC	ROCK TYPE	ALTERATION	Biotite	Sericite	Silica	MINERALIZATION	Graphic Col.	CORE ASSAYS
0		CASING -	NO RECOVERY						
		GRANITE - M/CRS GRND MODERATE GRANULAR TYPICAL ASSEMBLAGE Qz, FPAR, BIOTITE LT PALE BLUE Qz "EYES" SLT OPALESCENT	CORE V. FRIABLE DUE TO WEATHERING. BIOTITE + SERICITE FPARS				LOW % FRACTS TO CORE (75°) w/ MINOR LIM/OXIDATION. (MOSTLY AS MUD) AND ALONG CORE BREAKS		
10			AS ABOVE BUT MORE COMPETENT CORE "CREAM COLORED" ALT PROBLY <1% USU ASS w/ BIO. ALSO PINKISH RED ALT PROD. ASS w/ BIOTITE						
		BROKEN ZONE					BROKEN ZONE w/ LIM FRACTS - (WK) + OXIDATION (WK)		
20		BROKEN ZONE					H.L WK OXIDIZED FRACTS.		
							OXIDATION + WK LIM ON FRACTS		
							Qz VEINING w/ SILICIFICATION SELVEGE		
30		SLT BLEACHED? BIOT. GRANITE WEAKER BIOT THAN ABOVE					HIGH % WK OXIDIZED FRACTS 20° ∠ TO CORE		
			LT GREEN CLAY MIN ON FRACTS - WEAK IN APP 2-3% ALONG FRACTS -		DEC BIOTITE		WKLY OXIDIZED BUT SILIC FRACTURES. SOME LIMONITE IN FRACT FILLINGS. POSS WK STOCKWORK FRACTS -		
		- POSS FAULT ZONE w/ Qz VEINING + GOUGE?							
40		SAME AS ABOVE BUT MUCH MORE ALTERED. STILL LT PALE BLUE Qz INCLUSIONS BUT ALT HAS DESTROYED TEXTURE	STRONG SERICITE + SILIC ALT - V. WK BIO - POSS SEC??				Py RGMS (Lim/Py) w/in SILICIFIED ZONE 1-2% SOME OFFSETTING FRACTS WK MN STAINING ON FRACTS QUARTZ VNS (WHT) W/IN VNS ¼" IN THICKNESS.		
			RED ALT AM w/ BIOTITE V. V. WK BIOTITE				X-CUTTING LIMONITE FRACTS + DISS LIM/Py 1-2% FROM 60-70°		
		- BROKEN / GOUGY ZONE POSS FA? POSS SILIC GOUGE?	BEST STRONG ALT ZONE				MN FRACTURING ¼-½" REDHM w/ Py/Lim STRONGLY BROKEN ZONE 2" SILIC - Py/Lim RGMS -		
50		CRS GRN'D GRANITE WITH ALT - BIOTITE PRES - 6-8%	MOD SERICITIC K-FPARS - SLT PINK PLAG w/ MOD SILIC				MOST LOW % FRACTS w/ MINOR LIM/OXIDATION. 6" ZONE w/ NEARLY FLAT Qz VNS - 1-2" IN TRACE SPEC HM ON BUTTON LIMONITIC Qz VN ¼-½ % Py/LIM "GOUGE" IN CORE ¼" Qz VN BREAKS		
			DEC SILICA!						
60		- BROKEN - POSS FA. CEMENTED? GOUGE?	WK/MOD SERICITIC FPARS				LIMONITIC FRACTS ESPCLY CORE BREAKS. "CRUST" FLUFFY BROWN SPEC HM - Lim. LIMONITIC FAULT ¼" TIC.		
							HIGH LIM FRACT ¼" Qz VNS →		
		- BROKEN ZONE	BIOTITE BECOMING MORE ALT - POSS CHLORITIC?				BROKEN ZONE - LIMONITIC FRACTS - MOSTLY HIGH LIM "PAINT" ½" Qz VN - w/ LESS II HL VNLTS.		
70		AS ABOVE BUT LESS BIOTITE - STILL PINK PLAG SPARS -							
		CRS GRN'D GRANITE >10% BIOTITE - MOD/SEV SER. FPARS -	ABU BIOTITE - AB SERICITE FELDSPARS				1" REDHM Py/Lim + SILIC ZONE PROB A VEIN T. Qz VNS w/in:		
							FAMILY OF 50-60° HL FRACTS - WKLY LIMONITIC.		
80		AS ABOVE BUT MORE ALT - LESS BIOTITE BASE	DEC BIOTITE BECOMING MORE ALT?				LIMONITIC FRACTS - RARE "GREASY" GRN CLAY ON FRACT SURFACES		
							SPEC HM/LIM FRACTS - ASS. Qz VNS -		
		- BROKEN ZONE					BROKEN ZONE Qz VNS w/in		
90			APPEARS TO BE SILICA FLOODING →				V. HIGH % Qz VN ASSOC Py/Lim CUBES DISS 1-2% MINOR OR/YELL LIM "PAINT"		
		INC IN BIOTITE CHANGE SEEMS @ Qz VEIN. 6-8%	THIN SILIC SELVEGE SOME Qz VNS -				Qz VEINS - LIMONITIC -		
100			MORE ALT AROUND Qz VNS -				DISS Py/Lim CUBES - 1% X-CUT LIM FRACT		

DIAMOND DRILL RECORD

HOLE NO. [illegible]

Coord _____ N _____ E Elev. _____ PROPERTY _____

Bearing _____ Inclination _____ Depth _____ LOCATION _____

Started _____ Completed _____ Notes by _____ Scale _____ Sheet 2 of 4

DEPTH	% REC	ROCK TYPE (A)	ALTERATION	B	C	D	E	MINERALIZATION	Graphic Col.	CORE ASSAYS
00	60	← Contact on Qz Vn 8-10% Biotite	Biotite Still Present - Feldspars Sericite Soft & Silty; Silica Flooding →					H.C. Qz Vnlts Ass w/ Limonite as fill.	100	
10	50	Less Biotite - More Chloritic/Alt 3% - Xenolith @ 109'	Silica Flooding Grp Around Qz Vn. Selvedge. Silica Flooding Around Qz Vn.					Py/Lim Ass w/ Sili Zone + Qz Veining - Sulfides Mainly Restricted to Qz Vns - Tr 1/8" Qz Vns →	110	
20		More Biotite Thin Pow Interval 4-5%	Mod/Strong Sericite on Feldspars. Poss Qz Flooding But Wk					Earthy Yellow/Brn Limon Frac. w/ Spec Hm - Increasing Spec Hm Ass w/ Earth Yell Brn Brn Lim. X-cutting 35-70° Fracs w/ Minor Lim Locally Spec Hm. 2" Lim Filled Fracture Spec Hm Veins w/in. Qz Vns → 1/8" Tr. Lim + Py Veins Ass w/ Qz Vns - Some Minor X-cutting Vns. 3/Ft - X-cutting Spec Hm Veins. Open Lim Fract. Low Qz Vns Cutting Limonite Fracts (Open) + Offsetting Limonite Fracts. 1/4" Open Limonitic Fract →	120	
30	60	As Above - Weaker Biotite 2% Biotite More Chloritic - 6" Gouge Zone Fault?	Strong Silica Flooding - Ass w/ Qz Vns. Biotite → Partially To Chlorite					Py/Lim at contact → Abu Qz Veining + Silification → Poss 2' Qz Vn - Py/Lim 2-3% Diss w/in. Some X-cutting Qz Veining. Qz Vns 8/Ft → w/k Limonitic Stockwork. Fault Zone 6" Gouge →	130	
40		- Broken Zone - Prob Mylonitic Fault.						Limonitic Fracts/Thrust w/k Limonitic Stockwork. Principal Dips 5-70°. Brecciated Qz Vn.	140	
	60	1" Mylonite Zone	V.V.F.G. Biotite →					Limonitic Fracts - X-cutting. 2-4 Qz Vns/Ft.		
		1" Xenolith - V.F.G. Schist??	Silica Flooding. Patchy Biotite Enrichment.							
50		Contact on Qz Vein. Abund. Biotite Contact on Tn Qz Vn.	Remnant of Sil. Alt Biotite Greek - Sor Fpor.					Qz Vns w/ Py/Lim Rims 1% Sulfides. X-cutting Fract's.	150	
60		Mod/Strong Alt - Texture is Mostly Destroyed. Few Remnants of Unalt Rock w/ Biotite Included w/in.	Pinkish Alt Ass w/ Biotite; Biotite Patch; Silica Flooding - Wk Biotite w/in Interval. Biotite ↓ Chloritic Flow Patches of Rem Fresh Biotite. Pro → Chlorite. Tn Rem V.F.G. Biotite ↓					6" Qz Vn w/ Sulfides (Oxid) 2-3% Py/Lim Cubes. Diss Sulfides. Ass w/ Qz Vns. 2-3 Qz Vns/Ft. Diss Ox Sulfides 1-2%. Spec Hm Fract. Limonitic + Qz Vns + Fracts. 1" Gouge Zone. Qz Veining w/ Sulfides Ass. w/ Qz Veining →	160	
70		- Gouge Zone 6.8"						Earthy Brown Limonite → Specular Hematite on Fracts. Lim. Faults → X-cutting + Cut off Qz Vns - Poss 2 Stages of Vn! Offsetting Movements on Faults But + On Qz Vns + Lim. Faults.	170	
80								Limonitic Qz Vns - + Lim in Fracts. V. Minor Ox Sulfides along Qz Vns. 2" Qz Vn. V.V. Fine Diss Ox Sulfides - Est 1% Ox Sulfides & Py (Asts). Limonitic Vnlts -	180	
90		- Brecciated Gouge Zone Silicified w/in Zone						Fault Breccia? Gouge Minor Spec Hm Vnlts w/k/Mod Limonitic - Qz Vn Fracs w/ Diss Sulf (Ox). Spec Hm Diss along Fracs/Some w/ Qz. Fresh Py Diss. On Fracture. Red Hematite Staining.	190	
00			Wk Biotite Patch Not Chloritic.					Primary Py (Fresh) ass w/ Qz Vns. Tr Tetrahedrite w/ Qz Vns. 7/8 Vns/Ft. Py w/ Qz Vns.	200	

DIAMOND DRILL RECORD

Coord _____ N _____ E Elev. _____ PROPERTY _____

Bearing _____ Inclination _____ Depth _____ LOCATION _____

Started _____ Completed _____ Notes by M. Milligan Scale 1" = 40' Sheet 3 of 4

DEPTH	% REC	ROCK TYPE	ALTERATION	MINERALIZATION	Graphic Col.	CORE ASSAYS YM-8 RC Au
0		- Broken Zone - wk Gouge Granite m/ Crs Grain - Strongly Alt - Sericitic w/ Fpars	Little Rem Biotite Rest Alt → Chlorite? Feldspars Strongly Sericitic. Silica Flooding. Some Textural Destruction	Probable Fault Zone Gouge. Spec Hm on Lim Fault ox Sul Alt w Qz Var 2-3 Qz Var/Ft. Abu. Hi-g Lim. V-lts		200
10		Broken, Gouge Zone		Diss Ox Sulfides in Silica Zone. Hi-g Limonitic Fracts	Silica Zone	210
20		- Broken Chip Type Fracturing. - 1" Gouge Zone. Broken Thru ~228' Poss Fault! - 1/4-1/2" Gouge Zone.	Strong Silica Flooding	Qz Veining w/ Slickensides on Fractures. Broken Zone Prob Fault Slt/Mod Gouge. F.G. Hi-g Sulfides? w/ ox Py Casts Gst 1% Py. Gouge Zone on Top. Lim Fracts/ Qz @ Bg. Abu. Lim Filled Fracts w/ Minor Spec Hm - wk Diss Py (Ox) Cubes 1/8-1/4. Prob Fa Zone Broken. 10 Qz Var/Ft 1/16" Py Voids. Diss Ox Py Cubes 3% ↓ "Gouge @ 228.5"		220
30			Strong Silica Flooding Bleached Prom K-spars - wkt. Granite Texture Still Present But Var. Flooded.	Limonite - +/- Qz on Hi-g Fracts w/ Minor Spec Hm. Diss Ox Sulfides 1%. 5-7 Qz Var/Ft		230
40		- U.S. Core Loss - Grind. - Var Broken - Gouge - Abu Fracts. Gouge Mod Zone		Broken + Fractured Limonitic "Paint" on Fractures Also Limonitic Muds. wk Ox Sulfides ~1%		240
50		1" Gouge Zone		Limonitic Fractures. wk Diss Ox Sulfides		250
60		Textural Destruction due to More Intense Silic + Sericitic Alt.	Abu Silica Flooding Prominent Feldspars (wht) Bleached out By Si Flooding. wk Chloritic Rem →	Mod Abu Gy - Ire Silica Flooded Fault. Diss Ox Sulfides (Py) Cubes. 2-3% Sulfides. Sli Rock Im Staining Either Mod Gy Qz Vn or Total Silica Flooded Zone. Diss Py (Ox) 2% Avg. Limonitic Fracts Throughout. wk Limonitic Paint on Fractures. Lim Zone Top 1" of Fault		260
		Bottom 3' Not As Silic But Still Some Textural Dest. Contact @ Fault	Prob Yarnell Fault Top.			
70		- Gouge Zone @ Top Yarnell Fault Zone - Gouge @ Top, Argillic Alt, Gouge @ Bg.	Argillic Alt → Red Hematite As Shown.	Red Hematite + Oxidized Zone. w/ Abu Clay / Gouge. Strongly Lim. Muds? → Abu Lim Fracts All in Structural Direction. "Wht Qz Vn.		270
		Sericitic - Still Clay Gouge Zone.	Argillic Alt Textural Destruction			
80		- Poss Alt - Bleach Dike - Broken Zone - Broken Zone - Gouge - 2" Gouge Zone	Sericitic. Becoming Less Intense. Biotite Alt (Red) Reduces Poor V. wk Biotite Alt.	Broken Zone But wk Limonitic Coating + Fract Fill. Few Limonitic Fracts.		280
90		Becoming Weakly Alt But No Biotite		Principal Is 76° wk Limonitic "Paint". Minor Healed Fractures - Some Weakly Limonitic		290
300						300

DIAMOND DRILL RECORD

HOLE NO. [illegible]

Coord _____ N _____ E Elev. _____ PROPERTY YARNELL

Bearing – Inclination VERT Depth 350' LOCATION YM-8 R.C LOCATION

Started _____ Completed _____ Notes by M. MILLER Scale 1" = 100' Sheet 4 of 4

DEPTH	% REC	A ROCK TYPE	ALTERATION	B	C	D	E	MINERALIZATION	Graphic Col.	CORE ASSAYS
300		Granitic Looking But Poss More Chemical	W/Mod Ser. To Biotite					Oxidation Occurs Only Along Fracture Walls. Fresh Py on Fracts – 60° Dip / Prom. Direction		300
		APPROX 135 OXIDIZED ZONE								
310		Poss Diff Rock Type More Felsitic Less Overall Silica But Still Highly Altered. Greenish Tint to Rock.	Little Silica Flooding. Dol Alt.					1/16" Qz Vein Rare Ox Py. w/in Ox Zone at Fault		310
		Chloritic Greenish Tint.						W/ Diss Py (Fresh) Fow Oxid Fault.		
320		± To Opalescent Qz.	4 – 6% Biotite							320
		Biotite Reappears.						Healed Clean/Widely Oxidized Facts.		
330								Tr Diss Py. V.V. Fine Cubes usually Assoc w/ Biotite Sites To T/D	70	330
								Tr Limonite Fract	70	
340								Oxidized Facts – No Limonite		340
			Lamco To Red Mason Biotite Alt Product Poss Edge of Lower Alt. Zone To T/D					Overall Inc in Oxidation + Fracturing. Noticeable Inc. Spec Hem Fract → Tr Diss Spec Hem		
350										350

TD @ 350'

LAW OFFICES OF
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PHOENIX, ARIZONA 85064-0280

TELECOPIER
(602) 956-3457

October 12, 1989

Mr. William D. Gay
Land Engineer
ASARCO Incorporated
Southwestern Exploration Department
P.O. Box 5747
Tucson, Arizona 85703

ASARCO Inc.
OCT 13 1989
SW Exploration

Re: Yarnell Project

Dear Mr. Gay:

This responds to your letter dated October 3, 1989 regarding the status of the mineral estate in a parcel of land described by metes and bounds in the E1/2NESE of Section 15, Township 10 North, Range 5 West. The question arises from the following exception stated in that Agreement dated October 28, 1986 by which Mr. and Mrs. Robert Combs agreed to sell that tract to Eugene E. Albright:

> "EXCEPT all minerals as reserved by the United States of America disclosed in Patent from State of Arizona, recorded in Book 168 of Deeds, Page 487."

Although we do not have the original patent to this land, this language suggests that the minerals were reserved in the original patent from the United States. This is borne out by Patent Number 02-84-0072 dated September 20, 1984, granting the mineral estate, except oil and gas, to the surface owners, Mr. and Mrs. Robert H. Combs.

The Purchase Agreement "excepts" the mineral estate from the Agreement. Under their strict meaning in conveyances, an exception in a deed or purchase agreement is a recognition of an interest carved out of the property and held by a third party who is not a part of the transaction, while a reservation is an interest in the property which the grantor is reserving to himself. However, the terms are frequently used interchangeably and the courts will sometimes construe a termed exception as a reservation.

cc: WLK
JDS
SLL

A plausible explanation for this exception appearing in this Purchase Agreement is that the drafter of the Agreement was looking at prior deeds or title reports to the property which excepted the mineral interest (because it was then held by the United States) and continued to use this exception without being aware that the United States had conveyed the mineral interest to the surface owner two years before. The parties may not actually have intended for the grantors to reserve the mineral interest to themselves. This postulate is supported by the exception referring to the minerals being reserved by the United States.

In some cases, the courts have considered extrinsic evidence (apart from the conveyance document or contract) to determine whether the parties intended for the mineral estate to be conveyed despite there being an exception of the minerals in the conveyance documents. See 23 Am. Jur. 2d Deeds § 327. On the other hand, there is authority holding that an exception is effective to exclude an interest from a conveyance even if the circumstances thought to require the exception are false. It has been held that an exception of minerals based upon a prior conveyance is effective to prevent the transfer of the mineral estate to the grantee even though the prior conveyance was invalid. See Id. § 75; 54 Am. Jur. 2d Mines and Minerals, § 111. There is no Arizona case authority suggesting which line of authorities the Arizona courts would adopt. Therefore, if it appears that the mineralization within this tract of land has value and should be acquired, it would be prudent to ensure that ASARCO acquires the mineral interest and resolve the question by coming to terms with both Mr. and Mrs. Combs and Mr. Albright.

I understand that you would prefer to defer the second question in your October 3 letter until you obtain the document granting the road easement in a fraction of the Edmond claim.

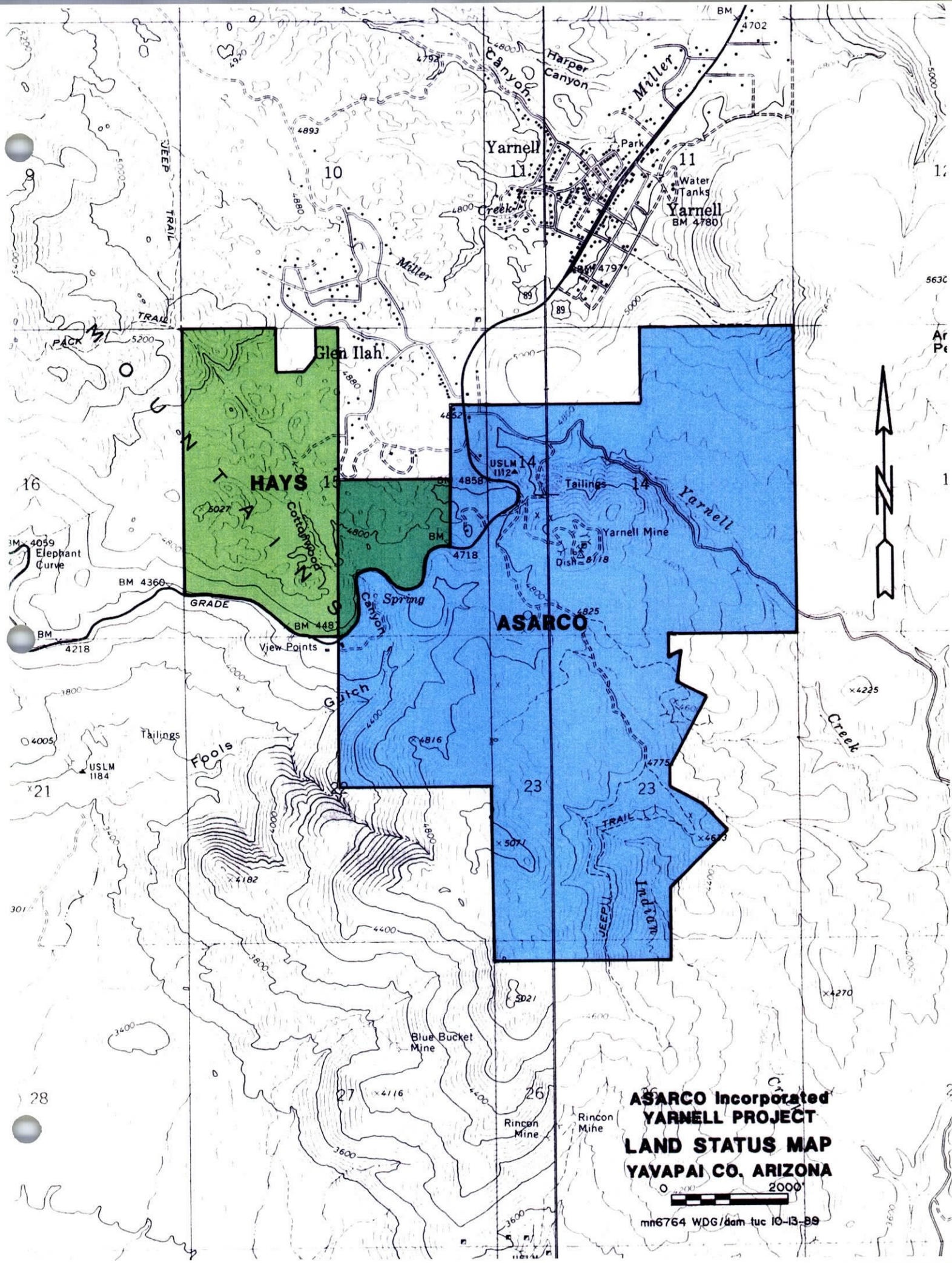
Sincerely,

Jerry L. Haggard

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

JLH/jb

cc: James L. Woods, Esq.


ASARCO Incorporated
YARNELL PROJECT
LAND STATUS MAP
YAVAPAI CO. ARIZONA
0 2000'
mn6764 WDG/dam tuc 10-13-89
HAYS
ASARCO
Yarnell
Glen Ilah
Harper Canyon
Miller
Yarnell Mine
Tailings
Cottonwood Canyon
Spring Canyon
Fools Gulch
Indian Creek
Blue Bucket Mine
Rincon Mine
Elephant Curve
View Points
Water Tanks
Park
JEEP TRAIL
PACK TRAIL
GRADE
MOUNTAINS

FILE
JDS

ASARCO

Exploration Department
R. L. Brown
Vice President

New York, October 12, 1990

James Sell, Manager
Tucson Office

Yarnell Mapping

Dear Mr. Sell:

This will acknowledge receipt here of the recently completed mapping at Yarnell, and in the reconnaissance areas around Yarnell. My quick review of this work tells me that it is certainly a step in the right direction, and is probably the best mapping received here in this office in a year or so. It was certainly done, or almost done, in the way I like to see mapping done.

My nit-pick is that I like to see rock types indicated by symbols, perhaps in the case of granite by a pattern of small crosses, and dikes by a pattern of hachures, and so on. Alteration types can then be exclusively identified by color, and of course a description of the alteration type can be made in the legend.

However, don't let these comments discourage you. Good mapping comes my way so rarely I am happy to take it when ever I can get it even though some improvements in style could have been made.

Yours very truly,

R. L. Brown

R.L. Brown

RLB:lj

Copy MA Miller
JD Rasmussen

ASARCO Incorporated
OCT 22 1990
SW Exploration

ASARCO Incorporated 180 Maiden Lane New York, N.Y. 10038 (212) 510-2000
Telex:RCA 232378 Cable: MINEDEPART Fax: (212) 510-1978

ASARCO Southwestern Exploration Division

JDS

October 5, 1990

W.L. Kurtz

Geologic Mapping
Sec. 14, 23, T10N, R5W
Yarnell Project
Yavapai County, Arizona

The mapping of two square miles of Yarnell property geology at a scale of 1 inch equals 200 feet has been completed.

No insights to further mineralization were noted other than small, relatively thin quartz-alteration selvages along dikes.

Several items are puzzling:

1. Why no dikes in the hanging wall plate, other than the one northwesterly-trending diorite dike (the longest and largest one mapped).

2. The interrelationship of the various movements along the Yarnell fault and the stages of quartz veining, quartz flooding, alteration, and mineralization events.

James D. Sell

JDS:mek
Att.

cc: R.L. Brown
M.A. Miller
J.D. Rasmussen

JDS

ASARCO

Exploration Department
Southwestern United States Division

James D. Sell
Manager

October 5, 1990

Mr. Steven C. Potter, President
NORGOLD RESOURCES INC.
210-475 Howe Street
Vancouver, B.C. V6C-2B3
Canada

Geologic Mapping w/Samples
Sec. 14, 23, T10N, R5W
Yarnell Project
Yavapai County, Arizona

Dear Mr. Potter:

I submit a copy of the 1" = 200' reconnaissance geology mapping at the Yarnell Project area.

The northern map (YR900717) covers the deposit zone, the southern map (YR900718) covers the remainder of the unpatented claims.

As noted, no major zones of alteration mineralization were found during the mapping and sampling.

Sincerely yours,

James D. Sell

JDS:mek
Att.

cc: R.L. Brown/F.T. Graybeal (no maps)
W.L. Kurtz (no maps)
M.A. Miller (no maps)
J.D. Rasmussen (no maps)

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

JDS

ASARCO

Southwestern Exploration Division

July 23, 1990

J.D. Sell

Geologic Mapping
Sec. 14, 23, T10N, R5W
Yarnell Project
Yavapai County, Arizona

Mapping has been completed on Sections 14 and 23 at 1" = 200' scale. Although several areas of weak to moderate alteration were located within the mapped area, no significant alteration/mineralization was found to indicate the occurrence of another Yarnell type deposit within the mapped area. Several types of dikes occur within the mapped area that may be related to the mineralizing event; or to the structural environment of the Yarnell Deposit.

Geology

The geology within the mapped area contains similar lithologies and alteration similar to those seen within the main Yarnell deposit.

The predominant rock type is a granite/quartz monzonite (identification based upon thin section work by Russ Honea). The granite (shown as pink on map) is composed of 15-18% quartz, 40-50% K-feldspar (microcline) and 25-30% plagioclase feldspars. Outcrop patterns are typical of an unaltered granite terrain and occur as "elephant rocks" showing a preferred NW orientation on the jointing. There is also a weak suggestion of a northeast foliation to the intrusive. The granite has been dated between 1000-1400 myo by K-Ar (Reynolds, 1985).

The contact between the intrusive complex (granite) and the metasedimentary Yavapai series rocks has been identified and mapped in the east and southeast portion of the mapped area. The Yavapai series (shown as grey on map) is composed of metasedimentary phyllites and schists, with quartzites at the contact and interlayered with metavolcanics; usually basalt. These rocks are Precambrian in age and have been dated regionally by K-Ar at ±1170 my (Reynolds, 1985).

We have mapped a thick series of young volcanic flows overlying the host granite and Yavapai Series rock on Antelope Peak in the northern part of Section 14. Whole rock analysis study (J.J. Malusa - 3/19/90) indicates that these volcanics are andesitic in composition. No alteration has been seen associated with these flows.

Within the intrusive complex we have identified and mapped four types of dikes and/or sills. These are described below.

Felsic dikes - (shown as purple on map) These are found as both dikes and/or sills. They are dominantly quartz and potassic feldspars with a strongly sheared appearance. The quartz also appears to be stretched and boudined. The ground mass of this rock is crystalline in nature. The rock is light tan/brown color in outcrop. Rare pyrite, now limonite crystals, have been seen. The dikes do not appear to show any alteration of the feldspar; but they do appear to be silicified. Most of these dikes strike subparallel to the Yarnell structure, but are steeper in dip (60° to vertical).

Andesitic Dikes & Sills - (shown as light brown on map) The andesite unit has only been recognized and mapped in Section 23. These dikes/sills are aphanitic in texture with occasional biotite phenocrysts (2-4mm). The dikes generally trend N70°E and dip 20-40°NW. They are commonly associated with quartz lenses or vein(s) which occur either above or below the andesite. Observed thicknesses of the andesites dikes/sills is 2-14 feet thick. There is usually moderate alteration associated with these dikes/sills, but it is restricted to narrow (1/2' - 4') selvages. The dikes weather to a greenish brown soil and are often mappable from the soil colors.

Diorite Dikes - (shown as brown on map) The diorite dikes have been recognized and mapped in the north half of Section 23 and in Section 14. There also appears to be a spatial relationship between diorite dikes/sills and other gold deposits in the district. Diorite has been documented occurring in the footwall of the Alvarado Vein Structure. Diorite sills have been mapped at the Leviathan Mine. Diorite dikes have been mapped at the Octave Mine cutting the mineralized quartz vein.

Composition of the diorite dikes according to interpretation of the whole rock analysis (J.J. Malusa's 3/19/90) shows predominantly minor plagioclase, and mafic minerals; possibly hornblende. The diorite also is occasionally weakly magnetic. Grains are fine/medium and crystalline.

Fresh exposures of the dikes are difficult to find as they are subject to strong weathering. The dikes weather in similar fashion to the andesites creating greenish brown soil. However, it is possible to see the texture of the original diorite. In some instances the diorites have been altered, and this has hastened the weathering process.

The diorite dikes have a northwest and east-west trend with the most conspicuous dike trending N10°W dipping 70-80°SW. This dike is located in the SW 1/4 of Section 14, is up to 12 feet thick on the surface and where intersected in reverse circulation holes. It has been traced along its strike length by surface and drill hole intercepts for 2700'.

This dike cuts the Yarnell Fault but is not offset by it, indicating that the dikes were emplaced after the last movement on the Yarnell Fault.

Aplite Dikes - (not shown on map) These dikes are very minor in occurrence and are found in the unaltered granite (and presumably in the altered granite, although the alteration probably masks them). They do not appear to have any relationship to the alteration /mineralization. Aplites are probably a late feature of granite crystallization. The dikes appear to have the same mineral composition as the intrusive; only finer grained. Thicknesses vary from hairline to six inches.

Relationship of the Dikes/Sills to Gold Mineralization

The relationship between the different types of dikes and gold mineralization is unclear, but there appears to be a spatial relationship with the dikes, quartz veins and proximity to the Yarnell Deposit. A possible explanation for the gold bearing quartz veins associated with the dikes may be localized ground preparation. If we assume that the last movement on the Yarnell structure and diking occurred prior to alteration/mineralization, then the auriferous quartz veins and alteration associated with these dikes may be peripheral to the locus of mineralization (the Yarnell Deposit). The significance of this observation is that the sporadic mineralization mapped within the "sea" of unaltered granite is peripheral to Yarnell mineralization and is probably not indicative of undiscovered buried mineralization. Excluding the Yarnell fault structure and its extensions, we have not seen large areas of alteration that might be indicative of additional mineralization on the property.

Mark A. Miller

James D. Rasmussen

MAM:JDR:mek
Att.

cc: W.L. Kurtz

Geologic Mapping
Yarnell Project

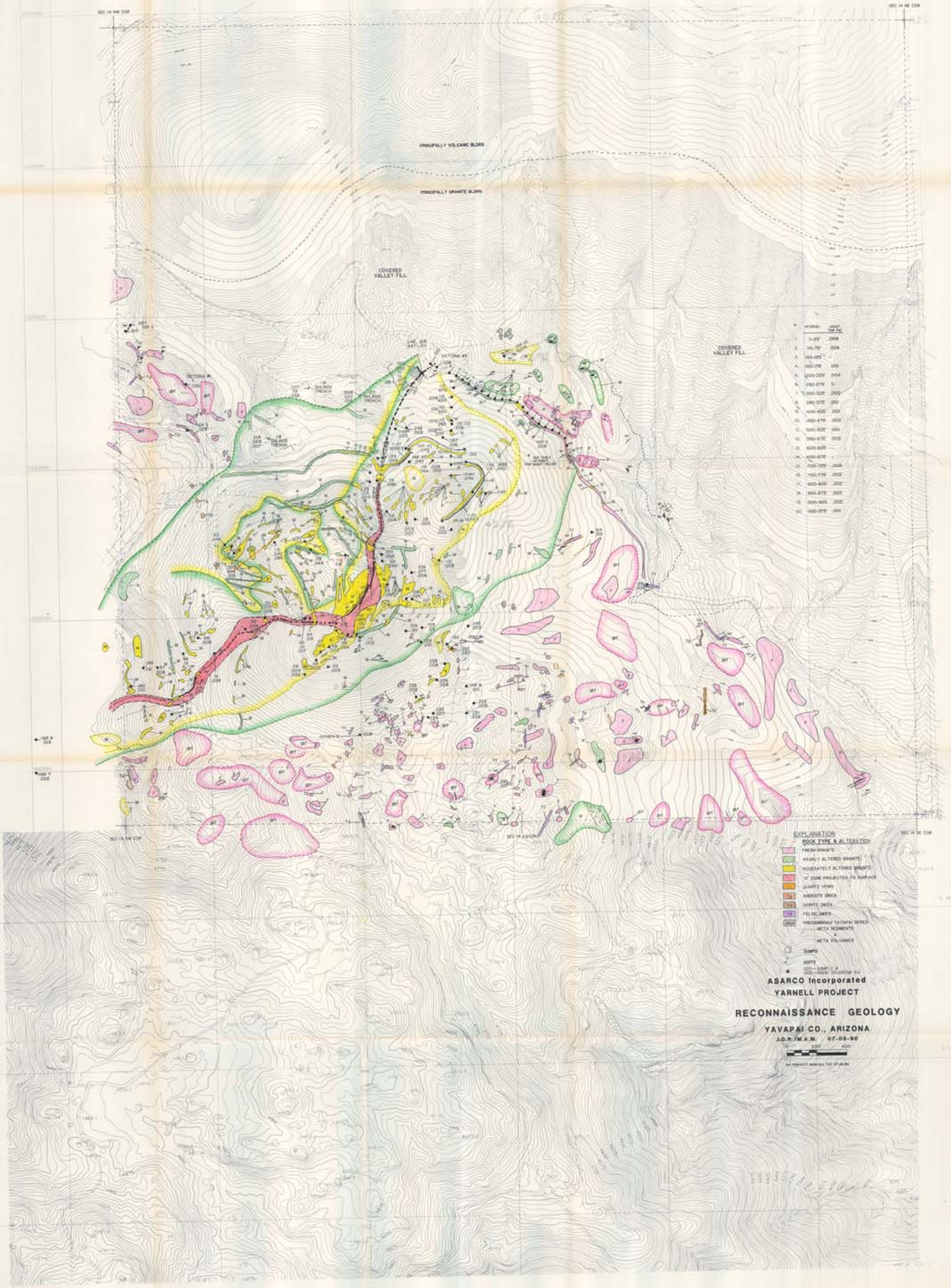
July 23, 1990

Reference list

1) Miller, M.A. "Geologic Map, Yarnell Project, Yavapai Co., AZ" Internal company report 1/3/90

2) Malusa, J.J. "Whole Rock Anaysis, Yarnell Project, Yavapai Co., AZ" Internal company report 3/19/90

3) Reynolds, S.J. et al Compilation of K-Ar Age Determinations in Arizona, Arizona Bureau of Geology OFR 85-8, 8/20/85


SEC 14 NW COR
SEC 14 NE COR
PRINCIPALLY VOLCANIC BLDRS
PRINCIPALLY GRANITE BLDRS
COVERED VALLEY FILL
COVERED VALLEY FILL
VICTORIA #5
RAILROAD TRENCH
SEC 14 SW COR
SEC 14 SE COR
EXPLANATION
ROCK TYPE & ALTERATION
FRESH GRANITE
NEARLY ALTERED GRANITE
MODERATELY ALTERED GRANITE
"Z" ZONE PROJECTED TO SURFACE
QUARTZ VEINS
ANDESITE DIKES
DIORITE DIKES
FELSIC DIKES
PRECAMBRIAN YAVAPAI SERIES
META SEDIMENTS
&
META VOLCANICS
DUMPS
ADITS
ASARCO Incorporated
YARNELL PROJECT
RECONNAISSANCE GEOLOGY
YAVAPAI CO., ARIZONA
J.D.R./M.A.M. 07-05-90

14
23
EXPLANATION
ROCK TYPE & ALTERATION
FRESH GRANITE
WEAKLY ALTERED GRANITE
MODERATELY ALTERED GRANITE
QUARTZ VEINS
ANDESITE DIKES
DACITE DIKES
FELSIC DIKES
PRECAMBRIAN YAVAPAI SERIES
META SEDIMENTS
META VOLCANICS
DUMPS
ADITS
ASARCO Incorporated
YARNELL PROJECT
RECONNAISSANCE GEOLOGY
YAVAPAI CO., ARIZONA
J.D.R./M.A.M. 07-05-90

ASARCO

Southwestern Exploration Division

October 13, 1989

Mark A. Miller

Follow-up
Core Marking Suggestions

My memo on this subject, dated October 10, 1989, was intended to be helpful in general core orientation and handling. Application of this type of marking is intended to provide reference marks to be used in core logging and reorientation should a box be dropped or a piece of core reversed.

A question arose concerning the use of the vertical lines as saw marks for cutting the core. Although this is not the original intent of the lines, they can be used for this purpose if:

1. The ore located 90° from the principal fracture set in an interval that will fit in the saw being used. This insures a representative assay will result.

2. The center line should be marked on the core and used as the "saw mark."

3. The goelogist or technician should mark the core instead of a drill helper.

Hope this clears any confusion that may have arisen.

Jim

JDR:mek

James D. Rasmussen

cc: J.D. Sell

ASARCO

Southwestern Exploration Division

October 13, 1989

FILE MEMO

Hays, et al
Mineral Conveyance

On October 13, 1989 I called the BLM to clarify what lands Hays had requested in his mineral conveyance.

In talking with Clyde Murray, Geologist, he said that Hays had asked for mineral conveyance under all of his fee land in Section 15, T10N, R5W, but when Asarco staked claims in the SE ¼ the land was automatically exempt from mineral conveyance.

William D. Gay

WDG:mek

William D. Gay

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

ASARCO

Map attached
Layton Claims

Exploration Department
Southwestern United States Division

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

October 13, 1989

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

Affidavit of Labor
Yavapai Mining District
Yavapai County, AZ

Gentlemen:

Enclosed is Asarco's check of $14.00 as the recording fee for the Affidavit of Labor for the Green Rock, Black Rock, etc. unpatented lode claims located in Yavapai 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 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	

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

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.

Mildred C. Koeppen
Notary Public

My Commission Expires:

My Commission Expires Nov. 28, 1991

ASARCO

Exploration Department
Southwestern United States Division

October 13, 1989

Mr. Michael Rice, Geologist
Arizona State Land Department
1616 West Adams
Phoenix, AZ 85007

Yarnell Project
Yavapai Co., AZ

Dear Mr. Rice:

Enclosed is an Affidavit of Performance of Annual Assessment Work and Mining Activity for assessment year 1989 of the Kachina Doll Arizona State Lease No. 11-31009.

Thank you for your assistance in this matter.

Very truly yours,

William D. Gay

William D. Gay
Land Engineer, SWED

WDG:mek
enc.

cc: J.D. Sell
M.A. Miller

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

AFFIDAVIT OF PERFORMANCE OF ANNUAL ASSESSMENT WORK
AND MINING ACTIVITY

STATE OF ARIZONA)
County of Yavapai) ss

Arizona State Lease No. 11-31009

Mark A. Miller, Agent for ASARCO Inc., being first duly sworn, deposes and says:
Name of Lessee or Agent

That he is a citizen of the United States and more than twenty-one years of age, resides at 2851 N. Cloverland Ave., Tucson, Pima County, Arizona, and is lessee of, or lessee's authorized agent of record for State Mineral Lease No. 11-31009, and is personally acquainted with the 1 (number) mining claim(s) held under said lease.

ASSESSMENT WORK

That between the 22 day of June, A.D. 1989, and the 23 day of July, A.D. 1989, at least $100.00 worth of work and improvements were done and performed upon said lease area, not including the original location work of said claim(s). Such work and improvements were made by, or at the expense of the owners of said lease, for the purpose of complying with the laws of the State of Arizona, pertaining to assessment or annual work, (at least One Hundred Dollars worth of work for each claim) and; (Give names and addresses of miners or other workman or firm who worked the claims).

Tench Page, Mark Miller, ASARCO Incorporated, P.O. Box 5747,
Tucson, AZ 85703

were the men or firm employed by said owner and labored upon said claims, did said work and improvements, the same being as follows, to-wit:
(Describe work done)

Geological Reconnaissance and Rock Sampling.

MINING ACTIVITY

That records of all mineral, rock or earth material removed from said lease area during the last lease year have been filed with the Arizona State Land Department and proper royalty credited or paid thereon, or does hereby certify under the penalty of perjury, that no mineral, rock or earth material has been removed from said lease area during the lease year.

I certify that the foregoing is a true and correct statement of the work performed, of improvements made, and of mining activity, of my knowledge.

Signature

STATE OF ARIZONA)
County of Pima) ss

Subscribed and sworn to before me this 7th day of September, 1989.

My Commission Expires: My Commission Expires July 6, 1992

Kathleen Shrenger
Notary Public

70-73

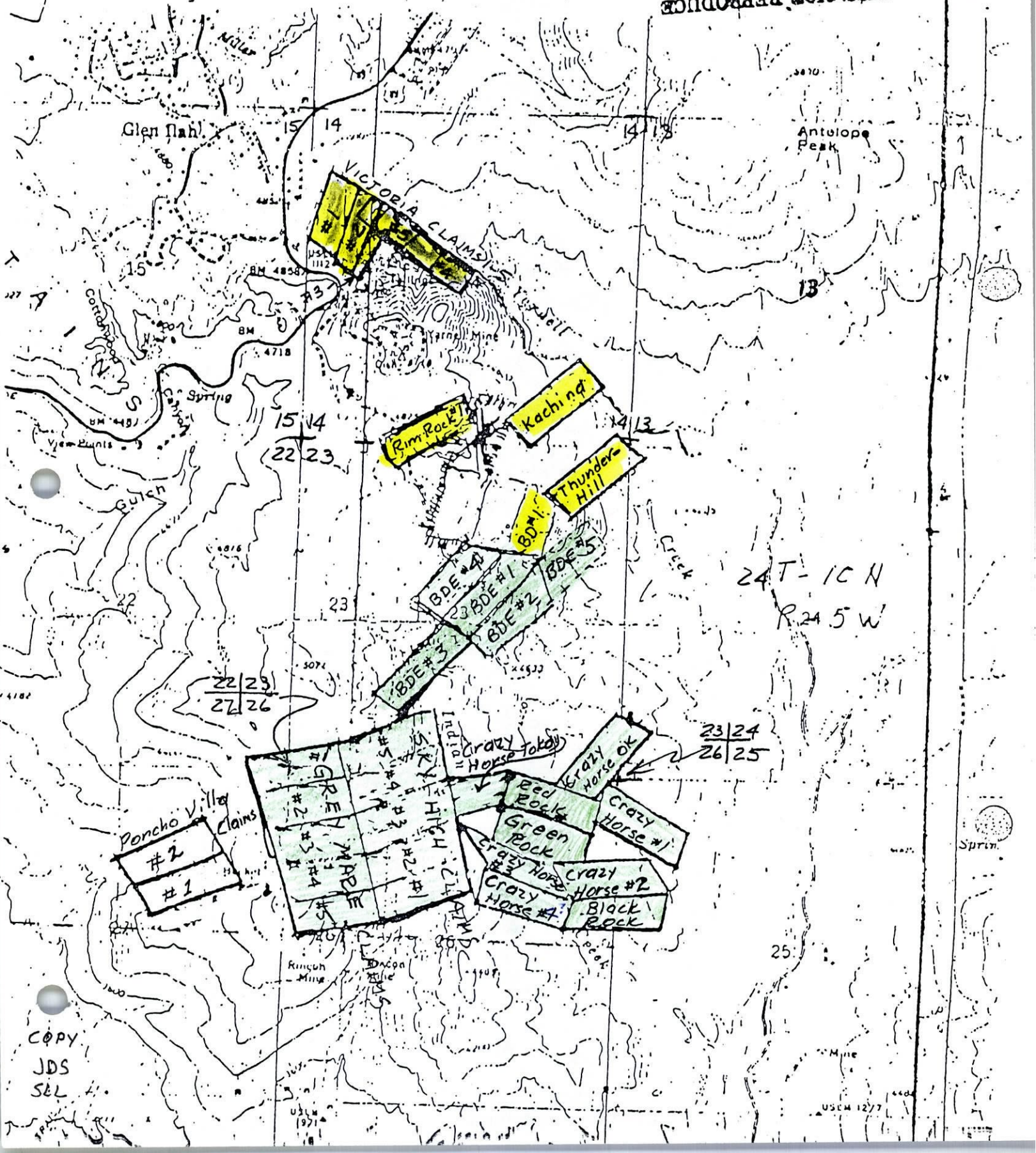
LAYTON CLAIMS

10-13-89

Claims as per agreement pg. 5 of 6
All others 30 day right of refusal

BD = BLACK DIKE
BDE = BLACK DIKE EXTENSION

BOOK 2085 PAGE 121
THIS PAGE WILL NOT REPRODUCE



METCON Research Inc.

1844 W. Grant Road, Suite 106
Tucson, Arizona 85745

Tel: (602) 623-1327
Telex 284623 KDE UR

16 October 1989
EI-071-89

MINERAL

1989

BENEFICIATION DEPT.

ASARCO
1150 N. 7th Ave.
Tucson, AZ 85703

Attention: Mr. Don Crowell

Subject: Density Determination on Drill Core Samples

Dear Don:

On 9 October, 1989 a suite of 3 drill core samples labeled with the prefix YDDH-1 were delivered to Metcon Research Inc. by ASARCO representatives. Apparent density determinations were conducted on prepared specimens by two different methods. The results obtained and the procedures employed are outlined in this letter report.

The results obtained from this study are tabulated below. The method employed, the density range and statistics are given for each sample tested.

TABLE 1 ORE DENSITY

Interval Sample Description	Method	Density Range (gram/cm^3)	Avg.	Std. Dev.
YDDH-1				
114.3 - 115	Torbal balance	2.64 - 2.70	2.67	0.0250
	Graduated cylinder	2.54 - 2.71	2.64	0.0709
YDDH-1				
257 - 257.5	Torbal balance	2.58 - 2.62	2.60	0.0191
	Graduated cylinder	2.36 - 2.65	2.50	0.167
YDDH-1				
301 - 301.65	Torbal balance	2.68 - 2.75	2.70	0.0311
	Graduated cylinder	2.49 - 2.67	2.58	0.104

The results obtained indicate that the samples tested showed densities ranging from 2.5 to 2.7 grams/cm^3. The standard deviation indicates that the torbal balance method provided more accurate and consistent results.

The tabulated data includes determinations conducted in duplicate on wax coated and uncoated specimens. All the density determinations were done by volume displacement using two different methods. The experimental data is attached hereto as Table 2.

We await your comments on this report and should you have any questions regarding the information contained herein, please do not hesitate to contact us.

Very truly yours,

Eugenio Iasillo

Eugenio Iasillo
Process Engineer

EI:rs

TABLE 2 ORE DENSITY DETERMINATIONS

Trial	Sample Description	W (gram)	P (gram)	S (gram)	V_1(ml)	V_2(ml)	V(ml)	B(g/ml)
1	1A	122.17					45.00	2.71
	1Wax	66.43	68.13		27.00	1.92	25.08	2.65
	2A	132.65					50.00	2.65
	2Wax	62.21	63.64		28.00	1.62	26.38	2.36
	3A	146.69					55.00	2.67
	3Wax	71.04	72.33		30.00	1.46	28.54	2.49
2	1B	94.24		59.40			34.84	2.70
	1Wax	66.43	68.13	41.25	26.88	1.92	24.96	2.66
	2B	97.22		60.05			37.17	2.62
	2Wax	62.21	63.64	38.10	25.54	1.62	23.92	2.60
	3B	115.05		72.50			42.55	2.70
	3Wax	71.04	72.33	44.55	27.78	1.46	26.32	2.75
3	1A	122.17					48.00	2.54
	1Wax	66.43	68.13		27.00	1.92	25.08	2.65
	2A	132.65					50.00	2.65
	2Wax	62.21	63.64		28.00	1.62	26.38	2.36
	3A	146.69					55.00	2.67
	3Wax	71.04	72.33		30.00	1.46	28.54	2.49
4	1B	94.24		59.01			35.23	2.67
	1Wax	66.43	68.13	41.10	27.03	1.92	25.11	2.64
	2B	97.22		60.12			37.10	2.62
	2Wax	62.21	63.64	37.94	25.70	1.62	24.08	2.58
	3B	115.05		72.31			42.74	2.69
	3Wax	71.04	72.33	44.41	27.92	1.46	26.46	2.68

K = density of wax (g/ml) = 0.885
W = Initial wt. (g)
P = Wax coated wt. (g)
S = Suspended wt. (g)
V = Vol. (ml) = $V_1 - V_2$
V_1 = Vol. including wax (ml) = P-S
V_2 = Vol. wax = (P-W)/K
B = Bulk density = W/V

Notes:
1. All A samples were conducted by the graduated cylinder method. B samples were done by the balance method.
2. Trials 1 and 2 were conducted on 10-9-89. Trials 3 and 4 were conducted on 10-10-89.
3. Samples 1, 2 and 3 correspond to 100, 200, 300 interval samples respectively.

ASARCO

Southwestern Exploration Division

JDS

October 16, 1989

J.D. Sell

YDDH-3 Diamond Drill Hole
Yarnell Project
Yavapai County, Arizona

YDDH-3, a twin to YM-63 RC hole has encountered a stope, or stopes, of rather large vertical dimensions. The hole was offset 25' N65°E from the original RC hole to attempt to place the drill hole within the stope wall (according to our survey of the workings).

Chronology of the hole is as follows:

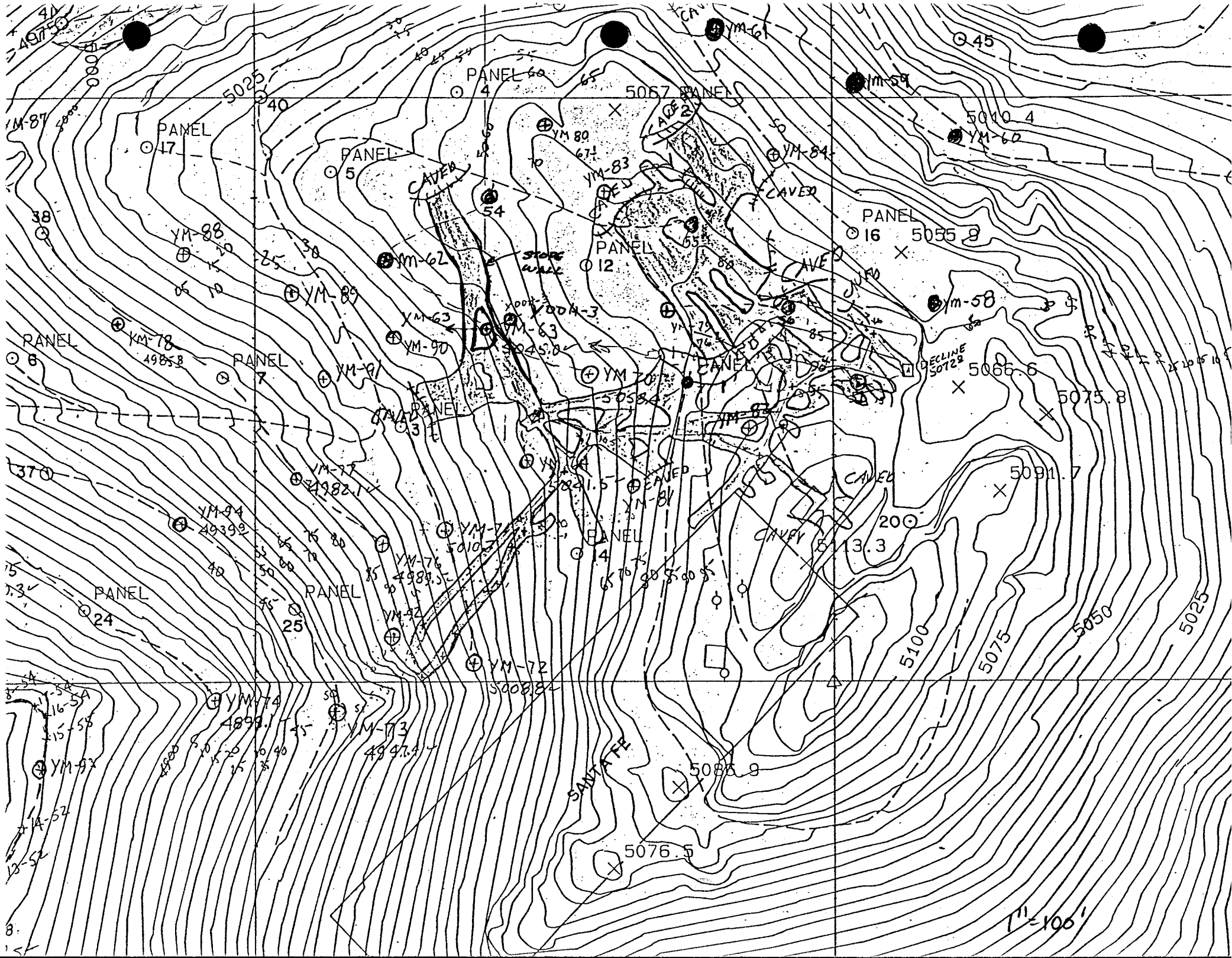
0 - 166	Core
166 - 184	Stope - Nor Core 18'
184 - 187	Set casing - no core recovery
187 - 209	No Core 22'
209 - 217	Possible Core
217 - 221	No Core 4'
221 - 224	1' of recovery
224 - 325 (TD)	100% Core recovery.

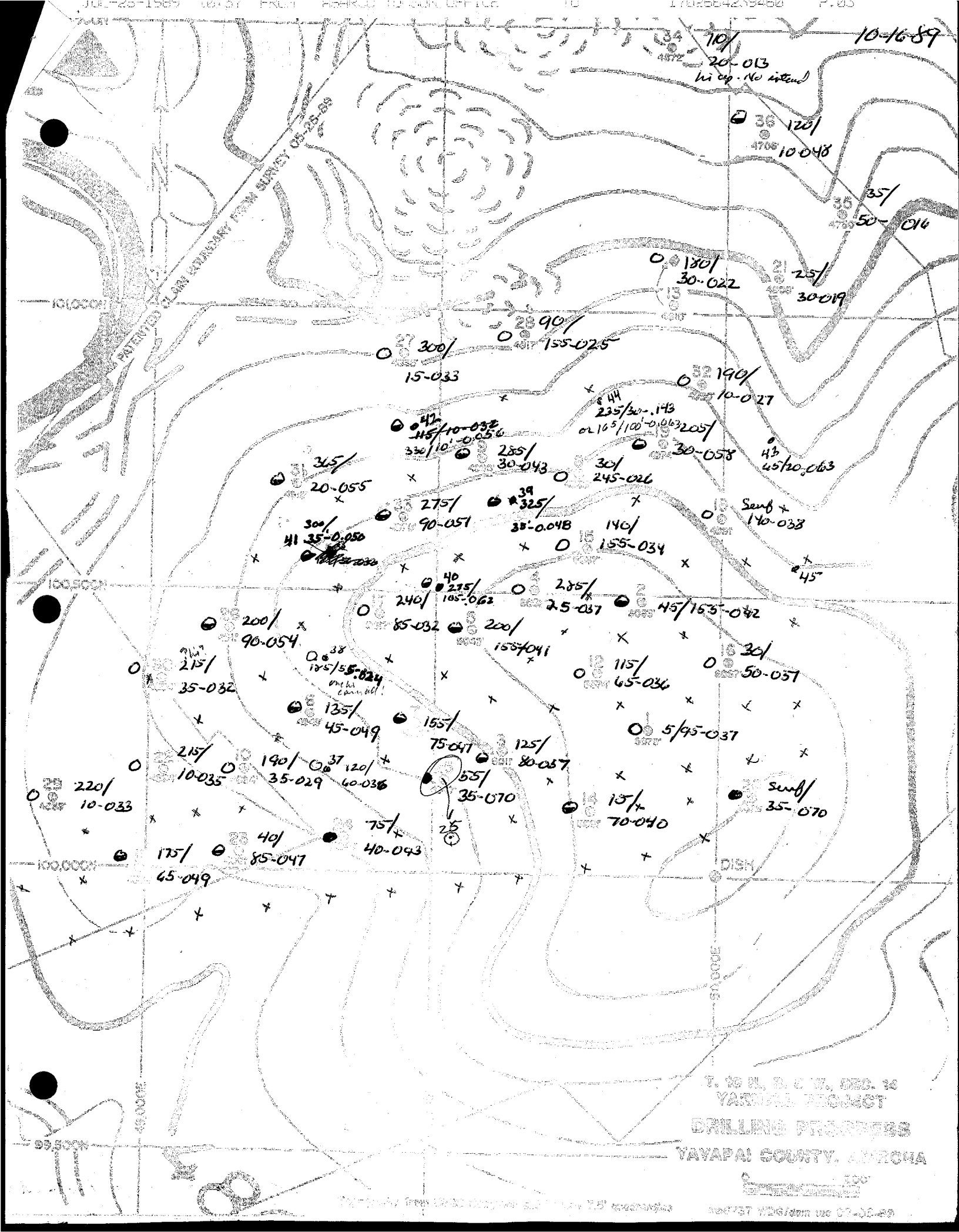
We have lost most of the ore zone in this hole due to the stope.

MAM:mek

Mark A. Miller

cc: W.L. Kurtz
S.L. Lakosky
R.L. Brown
F.T. Graybeal


PANEL 60
PANEL 17
PANEL 5
PANEL 6
PANEL 7
PANEL 3
PANEL 12
PANEL 16
PANEL 14
PANEL 24
PANEL 25
CAVED
STOPE WALL
DECLINE
SANTA FE
YM-61
YM-59
YM-60
YM-84
YM-83
YM-88
YM-62
YM-89
YM-63
YM-90
YM-91
YM-78
YM-58
YM-94
YM-76
YM-92
YM-72
YM-73
YM-93
5025
5067
5010.4
5055.9
5066.6
5075.8
5091.7
5113.3
5086.9
5076.5
5100
5075
5050
5025
1" = 100'


10-16-89
PATENTED OLD ORDNANCE FROM SURVEY 05-25-89
T. 20 N., R. 1 W., GRS. 14
YARNELL PROJECT
DRILLING PROGRESS
YAVAPAI COUNTY, ARIZONA
100,000N
99,500N
DISH

Population holes 1-9	alcholes
0.02 - 0.039	0.01 - 0.039
0.04 - 0.069	0.04 - 0.069
0.07 - 0.105	0.07 - ~~0.0105~~ 0.129

what if: $\frac{6''\text{ hosed}}{4\frac{1}{2}'\text{ other}} = 0.2$ if $\frac{1}{2}'$ @ 1 oz & other $4\frac{1}{2}'$ at 0.10 oz are 0.20 oz.

$$\frac{0.5' \times 1\text{ oz}}{4.5' x} = 0.2$$

$$0.9x = 0.5$$

$$x = 0.56$$

$0.5 \times 1 = 0.50$

$4.5 \times 0.10 = \cancel{2.52}\ \cancel{1.26}\ 0.45$

5.0 @ ~~0.10~~ $\cancel{3.02}\ \cancel{1.76}\ 0.95$

~~0.352~~

0.19

5.0 @ 0.625

what if 2' is hosed 1.49 oz

& 3' is 0.08

$(2x) + 3 \cdot 0.08 = 5 \times .625$

$+0.24 = 3.125$

-0.24

$2.875 / 2 = 1.49$

$(2)(1.50) + 3x = (5)(0.625)$

1μ ~~.6~~ .4 $+ 4x = (5)0.093)$

0.016

0.465

-0.4

$= 0.05$

3.14

-3.00

$.14/3 = 0.05$

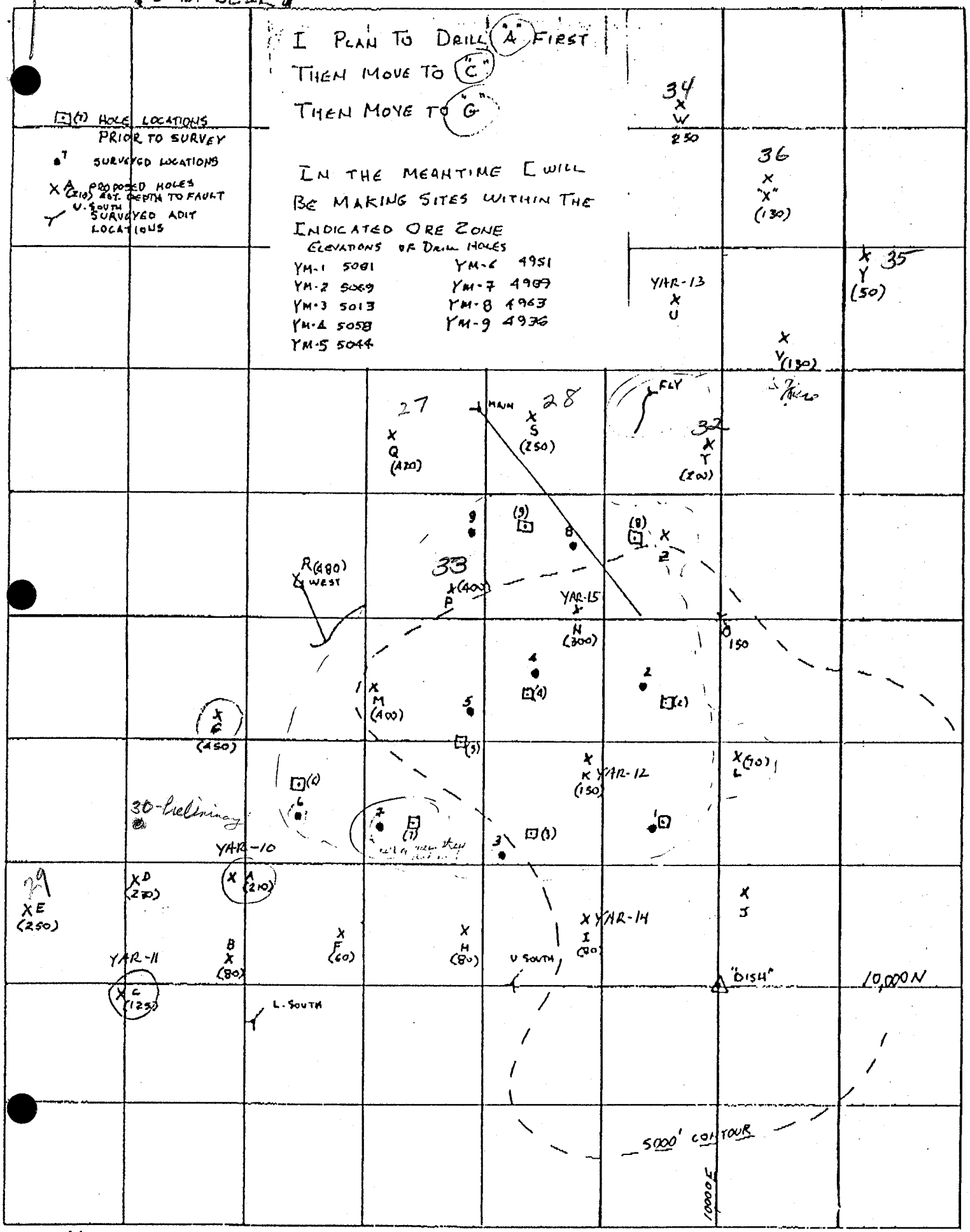
J. D. SELL

I PLAN TO DRILL "A" FIRST
THEN MOVE TO "C"
THEN MOVE TO "G"

IN THE MEANTIME I WILL BE MAKING SITES WITHIN THE INDICATED ORE ZONE

ELEVATIONS OF DRILL HOLES

YM-1	5081	YM-6	4951
YM-2	5069	YM-7	4989
YM-3	5013	YM-8	4963
YM-4	5058	YM-9	4936
YM-5	5044		



MINE YARNELL LOCATION DRILL HOLE LOCATIONS + PROPOSED HOR. LEVEL

YARNELL DRILL HOLE
SURVEY DATA

DRILL HOLE NUMBER	COORDINATES NORTH	COORDINATES EAST	ELEVATION
YM-1	100,255.5	49,875.4	5,078.5
YM-2	100,490.7	49,860.6	5,063.0
YM-3	100,218.5	49,625.8	5,010.7
YM-4	100,505.3	49,675.8	5,052.3
YM-5	100,437.1	49,565.2	5,041.8
YM-6	100,278.7	49,286.7	4,949.0
YM-7	100,260.5	49,471.6	4,986.9
YM-8	100,717.9	49,749.2	4,957.9
YM-9	100,734.8	49,577.2	4,930.2
YM-10	100,177.0	49,171.1	4,893.9
YM-11	99,998.0	48,983.2	4,874.0
YM-12	100,356.5	49,788.4	5,073.6
YM-13	101,099.2	49,909.0	4,810.1
YM-14	100,110.1	49,780.1	5,051.6
YM-15	100,581.8	49,765.5	5,036.8
YM-16	100,383.9	50,017.0	5,057.1
YM-17	100,458.2	49,405.8	5,017.2
YM-18	100,637.8	50,002.4	4,990.8
YM-19	100,769.4	49,894.2	4,973.5
YM-20	100,136.5	50,065.9	5,074.7
YM-21	101,062.1	50,094.4	4,806.2
YM-22	100,172.6	49,027.2	4,884.0
YM-23	100,027.2	49,165.2	4,860.9
YM-24	100,062.9	49,349.4	4,893.5
YM-25	100,164.1	49,521.7	4,947.3
YM-26	100,427.5	49,139.4	4,911.0
YM-27	100,923.0	49,436.3	4,835.4

NOTE: YM-1 through YM-27 have been checked and elevations have been adjusted to reflect a more accurate starting base elevation.

△ DISH 10,000 N 5000 E.

1:36 Walter & Robert Wallman arrived.

June 14 1984

p. 1
YM-10 105 - 115 0.003 chm nm need to know if this is a two foot sample or why.

p. 4
YM-12 180 - 185 — should not this be 183 ?
if so then is next list really 183 - 190
initial 185 - 190

p. 5
YM-13 135-140 chm nm RF? has it been refire — why not?

p. 9 YM-17 30-35 No sample but ..... where is it?

shell co 70-75
75-80 sgoc.

p. 12 YM-19 stopped 140 - 145 - missing in No sample

6/27 from Quartz Mtn So 664-150-2907
801/268-2533, no. 270
to 402/792/3010

FTG wants:

Study mods on ore continuity at Grenell!

etc

? Isopoc Thickness

Contour - isopachs main hgts seed flt assoc zone.

intrusive surface open cut variations

coordinates
dish

RLB
Agreement.
Leo has not sent it out.

24 45-75 Slope
75-115 = 40' @ 0.092 (Dray 0.093

25 55-90 = 35' @ 0.070

0.029
0.027
0.111
0.078
0.141
0.028
0.058
.492 / 7 = 0.070

G 26 200-240
90' @ 0.054

27 "Q" MAM 60-75 = 15' @ 0.027
235-265 = 30' @ 0.019
300-315 or 15' @ 0.033

28 "S" 90-210 or 120' @ 0.025
210-230 = 20' @ 2 Lilch
235-245 or 20' @ 0.042 flt
) or 90-245 = 155' @ 0.025
+ Same as Main cobt

29 "E" 220-230' = 10' @ 0.033

34 - W

30 new sets 215-250 = 35' @ 0.032
OR 230-250 = 20' @ 0.043

35 - Y

31 R 345-385 =
20' @ 0.055

36 - X

32 T 120-200
80 - 0.014

33 P 275-305
90 - 0.051

YM-10	0.	5.	.004
YM-10	5.	10.	.002
YM-10	10.	15.	.002
YM-10	15.	20.	.004
YM-10	20.	25.	.tr
YM-10	25.	30.	.003
YM-10	30.	35.	.tr
YM-10	35.	40.	.001
YM-10	40.	45.	.003
YM-10	45.	50.	.028
YM-10	50.	55.	.001
YM-10	55.	60.	.002
YM-10	60.	65.	.007
YM-10	65.	70.	.002
YM-10	70.	75.	.008
YM-10	75.	80.	.005
YM-10	80.	85.	.004
YM-10	85.	90.	.006
YM-10	90.	95.	.007
YM-10	95.	100.	.003
YM-10	100.	105.	.022
YM-10	105.	115. — uses 10' average	.003
YM-10	115.	120.	.004
YM-10	120.	125.	.002
YM-10	125.	130.	.003
YM-10	130.	135.	.013
YM-10	135.	140.	.056
YM-10	140.	145.	.005
YM-10	145.	150.	.093
YM-10	150.	155.	.004
YM-10	155.	160.	.007
YM-10	160.	165.	.005
YM-10	165.	170.	.036
YM-10	170.	175.	.013
YM-10	175.	180.	.012
YM-10	180.	185.	.008
YM-10	185.	190.	.005
YM-10	190.	195.	.017
YM-10	195.	200.	.015
YM-10	200.	205.	.058
YM-10	205.	210.	.017
YM-10	210.	215.	.034 25' - 0.034
YM-10	215.	220.	.020
YM-10	220.	225.	.041
YM-10	225.	230.	.005
YM-10	230.	235.	.010
YM-10	235.	240.	.012
YM-10	240.	245.	.003
YM-10	245.	250.	.004
YM-10	250.	255.	.019
YM-10	255.	260.	.004
YM-10	260.	265.	.005

YM-10	265.	270.	.004
YM-10	270.	275.	.005
YM-10	275.	280.	.003
YM-10	280.	285.	.028
YM-10	285.	290.	.003
YM-10	290.	295.	.003
YM-10	295.	300.	.003
Fletcher Standard			
YM-10	37.	39.	.017
YM-10	98.	99.	.007
YM-10	196.	197.	.007
YM-10	237.	239.	.007
Refires			
YM-10	135.	140.	.043
YM-10	145.	150.	.074
YM-10	200.	205.	.066
YM-11	0.	5.	.002
YM-11	5.	10.	.001
YM-11	10.	15.	.002
YM-11	15.	20.	.003
YM-11	20.	25.	.003
YM-11	25.	30.	.001
YM-11	30.	35.	.004
YM-11	35.	40.	.006
YM-11	40.	45.	.001
YM-11	45.	50.	.003
YM-11	50.	55.	.003
YM-11	55.	60.	.002
YM-11	60.	65.	.003
YM-11	65.	70.	.tr
YM-11	70.	75.	.001
YM-11	75.	80.	.005
YM-11	80.	85.	.002
YM-11	85.	90.	.003
YM-11	90.	95.	.017
YM-11	95.	100.	.001
YM-11	100.	105.	.001
YM-11	105.	110.	.002
YM-11	110.	115.	.002
YM-11	115.	120.	.002
YM-11	120.	125.	.tr
YM-11	125.	130.	.001
YM-11	130.	135.	.001
YM-11	135.	140.	.001
YM-11	140.	145.	.001
YM-11	145.	150.	.004
YM-11	150.	155.	.001
YM-11	155.	160.	.002
YM-11	160.	165.	.004

YM-11	165.	170.	.004	
YM-11	170.	175.	.009	
YM-11	175.	180.	.016	
YM-11	180.	185.	.019	
YM-11	185.	190.	.015	
YM-11	190.	195.	.045	
YM-11	195.	200.	.036	
YM-11	200.	205.	.018	30'-0.029 25'-0.030
YM-11	205.	210.	.017	
YM-11	210.	215.	.034	
YM-11	215.	220.	.083	
YM-11	220.	225.	.063	30'-0.078 25'-0.086
YM-11	225.	230.	.061	
YM-11	230.	235.	.121	
YM-11	235.	240.	.103	
YM-11	240.	245.	.009	
YM-11	245.	250.	.005	
YM-11	250.	255.	.tr	
YM-11	255.	260.	.001	

Fletcher Standard

YM-11	22.	24.	.004
YM-11	101.	103.	.004
YM-11	176.	179.	nil
YM-11	241.	244.	.004

Refires

YM-11	215.	220.	.085
YM-11	220.	225.	.078
YM-11	225.	230.	.088
YM-11	230.	235.	.147
YM-11	240.	245.	.139
YM-11	245.	250.	.010
YM-11	250.	255.	.009

YM-12	0.	5.	.008
YM-12	5.	10.	.003
YM-12	10.	15.	.006
YM-12	15.	20.	.004
YM-12	20.	25.	.003
YM-12	25.	30.	.004
YM-12	30.	35.	.003
YM-12	35.	40.	.002
YM-12	40.	45.	.021
YM-12	45.	50.	.018
YM-12	50.	55.	.001
YM-12	55.	60.	.016
YM-12	60.	65.	.006
YM-12	65.	70.	.003
YM-12	70.	75.	.004
YM-12	75.	80.	.016
YM-12	80.	85.	.011

YM-12	85.	90.		.003
YM-12	90.	95.		.007
YM-12	95.	100.		.004
YM-12	100.	105.		.004
YM-12	105.	110.		.003
YM-12	110.	115.		.004
YM-12	115.	120.		.016
YM-12	120.	125.		.022
YM-12	125.	130.		.094
YM-12	130.	135.		.013
YM-12	135.	140.		.004
YM-12	140.	145.		.007
YM-12	145.	150.		.005
YM-12	150.	155.		.013
YM-12	155.	160.		.068
YM-12	160.	165.		.021
YM-12	165.	170.		.096 25'-0.058
YM-12	170.	175.		.031
YM-12	175.	180.		.074
YM-12	180.	185.	183?	.008 some slip?
YM-12	185.	190.		No Return
YM-12	190.	195.		No Return Stoppmude?
YM-12	195.	200.		.018
YM-12	200.	205.		.049
YM-12	205.	210.		.025
YM-12	210.	215.		.045
YM-12	215.	220.		.040 40'-0.033
YM-12	220.	225.		.024
YM-12	225.	230.		.015
YM-12	230.	235.		.034
YM-12	235.	240.		.030

Fletcher Standard

YM-12	6.	9.		Lost Bead Refiring
YM-12	76.	79.		.008
YM-12	151.	154.		.tr
YM-12	201.	204.		.007

Refires

YM-12	125.	130.		.135
YM-12	165.	170.		.056
YM-12	180.	185.		.006
YM-12	195.	200.		.018

YM-13	0.	5.		.005
YM-13	5.	10.		.003
YM-13	10.	15.		.007
YM-13	15.	20.		.004
YM-13	20.	25.		.002
YM-13	25.	30.		.004
YM-13	30.	35.		.003
YM-13	35.	40.		.001

YM-13	40.	45.	.003	
YM-13	45.	50.	.002	
YM-13	50.	55.	.003	
YM-13	55.	60.	.003	
YM-13	60.	65.	.005	
YM-13	65.	70.	.021	
YM-13	70.	75.	.006	
YM-13	75.	80.	.003	
YM-13	80.	85.	.003	
YM-13	85.	90.	.004	
YM-13	90.	95.	.009	
YM-13	95.	100.	.007	
YM-13	100.	105.	.004	
YM-13	105.	110.	.003	
YM-13	110.	115.	.003	
YM-13	115.	120.	.004	
YM-13	120.	125.	.006	
YM-13	125.	130.	.005	
YM-13	130.	135.	.007	
YM-13	135.	140.	.067	will be refired
YM-13	140.	145.	.008	
YM-13	145.	150.	.004	
YM-13	150.	155.	.005	
YM-13	155.	160.	.003	
YM-13	160.	165.	.005	
YM-13	165.	170.	.003	
YM-13	170.	175.	.008	
YM-13	175.	180.	.006	
YM-13	180.	185.	.021	
YM-13	185.	190.	.023	
YM-13	190.	195.	.014	0.022
YM-13	195.	200.	.030	
YM-13	200.	205.	.027	
YM-13	205.	210.	.019	
YM-13	210.	215.	.004	
YM-13	215.	220.	.005	
YM-13	220.	225.	.003	
YM-13	225.	230.	.008	
YM-13	230.	235.	.004	
YM-13	235.	240.	.003	
YM-13	240.	245.	.003	
YM-13	245.	250.	.002	
YM-13	250.	255.	.004	
YM-13	255.	260.	.008	
YM-13	260.	265.	.005	
YM-13	265.	270.	.027	
YM-13	270.	275.	.004	
YM-13	275.	280.	.003	
YM-14	0.	5.	.003	
YM-14	5.	10.	.004	
YM-14	10.	15.	.008	

YM-14	15.	20.	.038
YM-14	20.	25.	.013
YM-14	25.	30.	.019
YM-14	30.	35.	.015
YM-14	35.	40.	.020
YM-14	40.	45.	.019
YM-14	45.	50.	.033
YM-14	50.	55.	.018
YM-14	55.	60.	.016
YM-14	60.	65.	.072
YM-14	65.	70.	.136
YM-14	70.	75.	.101
YM-14	75.	80.	.049
YM-14	80.	85.	.031
YM-14	85.	90.	.022
YM-14	90.	95.	.010
YM-14	95.	100.	.010
YM-14	100.	105.	.005
YM-14	105.	110.	.003
YM-14	110.	115.	.003
YM-14	115.	120.	.003
YM-14	120.	125.	.011
YM-14	125.	130.	.003
YM-14	130.	135.	.004
YM-14	135.	140.	.004
YM-14	140.	145.	.003
YM-14	145.	150.	.003
YM-14	150.	155.	.038
YM-14	155.	160.	.037

45' - 0.021

25' - 0.078

Fletcher Standard

YM-14	1.	4.	.025
YM-14	26.	29.	.025
YM-14	91.	94.	.025
YM-14	121.	124.	.026

YM-15	0.	5.	.005
YM-15	5.	10.	.003
YM-15	10.	15.	.002
YM-15	15.	20.	.004
YM-15	20.	25.	.002
YM-15	25.	30.	.048
YM-15	30.	35.	.013
YM-15	35.	40.	.003
YM-15	40.	45.	.008
YM-15	45.	50.	.063
YM-15	50.	55.	.010
YM-15	55.	60.	.011
YM-15	60.	65.	.015
YM-15	65.	70.	.065
YM-15	70.	75.	.007
YM-15	75.	80.	.004

YM-15	80.	85.	.004
YM-15	85.	90.	.003
YM-15	90.	95.	.047
YM-15	95.	100.	.003
YM-15	100.	105.	.005
YM-15	105.	110.	.005
YM-15	110.	115.	.005
YM-15	115.	120.	.010
YM-15	120.	125.	.004
YM-15	125.	130.	.012
YM-15	130.	135.	.006
YM-15	135.	140.	.003
YM-15	140.	145.	.132
YM-15	145.	150.	.068
YM-15	150.	155.	.022
YM-15	155.	160.	.004
YM-15	160.	165.	.048
YM-15	165.	170.	.005
YM-15	170.	175.	.008
YM-15	175.	180.	.013
YM-15	180.	185.	.074
YM-15	185.	190.	.012
YM-15	190.	195.	.017
YM-15	195.	200.	.021
YM-15	200.	205.	.016
YM-15	205.	210.	.096
YM-15	210.	215.	.034
YM-15	215.	220.	.025
YM-15	220.	225.	.029
YM-15	225.	230.	.008
YM-15	230.	235.	.011
YM-15	235.	240.	.041
YM-15	240.	245.	.010
YM-15	245.	250.	.022
YM-15	250.	255.	.008
YM-15	255.	260.	.059
YM-15	260.	265.	.009
YM-15	265.	270.	.031
YM-15	270.	275.	.029
YM-15	275.	280.	.040
YM-15	280.	285.	.089
YM-15	285.	290.	.047
YM-15	290.	295.	.022
YM-15	295.	300.	.008
YM-15	300.	305.	.006
YM-15	305.	310.	.005
YM-15	310.	315.	.003
YM-15	315.	320.	.004
YM-15	320.	325.	.003
YM-15	325.	330.	.006
YM-15	330.	335.	.004
YM-15	335.	340.	.005

125' - 0.032
if throw out 2 hi grade then 0.025

if Mount 5 hi grades so low 0.059 then only 0.018 !

25' - 0.047 or 30' - 0.043

YM-15	340.	345.	.010
YM-15	345.	350.	.003

Fletcher Stamdard

YM-15	6.	9.	.025
YM-15	91.	94.	.022
YM-15	241.	244.	.025

Refire

MY-15	30.	35.	.003

YM-16	0.	5.	.041
YM-16	5.	10.	.011
YM-16	10.	15.	.013
YM-16	15.	20.	.008
YM-16	20.	25.	.022
YM-16	25.	30.	.011
YM-16	30.	35.	.019
YM-16	35.	40.	.014
YM-16	40.	45.	.036
YM-16	45.	50.	.040
YM-16	50.	55.	.046 25'-0.037
YM-16	55.	60.	.029
YM-16	60.	65.	.032
YM-16	65.	70.	No Sample
YM-16	70.	75.	.039
YM-16	75.	80.	.053 .046 mud? 20' STOP
YM-16	80.	85.	No Sample
YM-16	85.	90.	.007
YM-16	90.	95.	.003
YM-16	95.	100	.004
YM-16	100.	105.	.003
YM-16	105.	110.	.003
YM-16	110.	115.	.004
YM-16	115.	120.	.004
YM-16	120.	125.	.007
YM-16	125.	130.	.005
YM-16	130.	135.	.008
YM-16	135.	140.	.003
YM-16	140.	145.	.004
YM-16	145.	150.	.007

Fletcher Standard

YM-16	6.	9.	.025
YM-16	76.	79.	.025

YM-17	0.	5.	.043
YM-17	5.	10.	.003
YM-17	10.	15.	.004
YM-17	15.	20.	.014
YM-17	20.	25.	.006
YM-17	25.	30.	.003

YM-17	30.	35.	.003
YM-17	35.	40.	.004
YM-17	40.	45.	.007
YM-17	45.	50.	.006
YM-17	50.	55.	.004
YM-17	55.	60.	.003
YM-17	60.	65.	.012
YM-17	65.	70.	.005
YM-17	70.	75.	.005
YM-17	75.	80.	.005
YM-17	80.	85.	.003
YM-17	85.	90.	.001
YM-17	90.	95.	.002
YM-17	95.	100.	.001
YM-17	100.	105.	.002
YM-17	105.	110.	.003
YM-17	110.	115.	.002
YM-17	115.	120.	.002
YM-17	120.	125.	.003
YM-17	125.	130.	.003
YM-17	130.	135.	.003
YM-17	135.	140.	.004
YM-17	140.	145.	.002
YM-17	145.	150.	.022
YM-17	150.	155.	.004
YM-17	155.	160.	.002
YM-17	160.	165.	.003
YM-17	165.	170.	.002
YM-17	170.	175.	.002
YM-17	175.	180.	.005
YM-17	180.	185.	.003
YM-17	185.	190.	.002
YM-17	190.	195.	.003
YM-17	195.	200.	.002
YM-17	200.	205.	.005
YM-17	205.	210.	.006
YM-17	210.	215.	.020
YM-17	215.	220.	.005
YM-17	220.	225.	.005
YM-17	225.	230.	.021
YM-17	230.	235.	.006
YM-17	235.	240.	.005
YM-17	240.	245.	.034
YM-17	245.	250.	.018
YM-17	250.	255.	.016
YM-17	255.	260.	.018
YM-17	260.	265.	.018
YM-17	265.	270.	.008
YM-17	270.	275.	.022
YM-17	275.	280.	.021
YM-17	280.	285.	.007
YM-17	285.	290.	.076

40'- 0.014

YM-17	290.	295.	.008
YM-17	295.	300.	.006
YM-17	300.	305.	.009
YM-17	305.	310.	.049
YM-17	310.	315.	.114
YM-17	315.	320.	.096
YM-17	320.	325.	.020
YM-17	325.	330.	.006
YM-17	330.	335.	.009
YM-17	335.	340.	.005
YM-17	340.	345.	.011
YM-17	345.	350.	.018
YM-17	350.	355.	.021
YM-17	355.	360.	.028
YM-17	360.	365.	.003
YM-17	365.	370.	.003
YM-17	370.	375.	.002
YM-17	375.	380.	.002
YM-17	380.	385.	.001
YM-17	385.	390.	.001
YM-17	390.	395.	.001
YM-17	395.	400.	.002
YM-17	400.	405.	.002
YM-17	405.	410	.003
YM-17	410.	415.	.002
YM-17	415.	420.	.015
YM-17	420.	425.	.002
YM-17	425.	430.	.002
YM-17	430.	435.	.001
YM-17	435.	440.	.008
YM-17	440.	445.	.003
YM-17	445.	450.	.001

15' - 0.086

Fletcher Standard

YM-17	77.	79.	.024
YM-17	183.	184.	.008
YM-17	253.	254.	.008
YM-17	371.	372.	.025
YM-17	421.	423.	.008

YM-18	0.	5.	.025
YM-18	5.	10.	.006
YM-18	10.	15.	.005
YM-18	15.	20.	.146
YM-18	20.	25.	.007
YM-18	25.	30.	.004
YM-18	30.	35.	.014
YM-18	35.	40.	.008
YM-18	40.	45.	.024
YM-18	45.	50.	.006
YM-18	50.	55.	.026
YM-18	55.	60.	.021

70' - 0.025, but also two-made ≈ ≅ 0.016

YM-18	60.	65.	.015
YM-18	65.	70.	.041
YM-18	70.	75.	.013
YM-18	75.	80.	.008
YM-18	80.	85.	.019
YM-18	85.	90.	.011
YM-18	90.	95.	.018
YM-18	95.	100.	.013
YM-18	100.	105.	.058
YM-18	105.	110.	.035
YM-18	110.	115.	.022
YM-18	115.	120.	.014
YM-18	120.	125.	.134
YM-18	125.	130.	.297
YM-18	130.	135.	.038
YM-18	135.	140.	.028
YM-18	140.	145.	.012
YM-18	145.	150.	.008
YM-18	150.	155.	.008
YM-18	155.	160.	.004
YM-18	160.	165.	.013
YM-18	165.	170.	.004
YM-18	170.	175.	.007
YM-18	175.	180.	.002
YM-18	180.	185.	.004
YM-18	185.	190.	.002
YM-18	190.	195.	.003
YM-18	195.	200.	.005
YM-18	200.	205.	.008
YM-18	205.	210.	.003
YM-18	210.	215.	.008
YM-18	215.	220.	.002
YM-18	220.	225.	.003
YM-18	225.	230.	.nil
YM-18	230.	235.	.nil
YM-18	235.	240.	.nil
YM-18	240.	245.	.tr
YM-18	245.	250.	.nil

20' - 0.032

10' - 0.216

40' - 0.078

10' - 0.032

Fletcher Standards

YM-18	17.	19.	.026
YM-18	78.	79.	.023
YM-18	157.	159.	.008
YM-18	226.	228.	.004

YM-19	0.	5.	.004
YM-19	5.	10.	.002
YM-19	10.	15.	.010
YM-19	15.	20.	.004
YM-19	20.	25.	.010
YM-19	25.	30.	.015
YM-19	30.	35.	.011

YM-19	35.	40.	.062
YM-19	40.	45.	.004
YM-19	45.	50.	.012
YM-19	50.	55.	.015
YM-19	55.	60.	.001
YM-19	60.	65.	.010
YM-19	65.	70.	.026
YM-19	70.	75.	.009
YM-19	75.	80.	.013
YM-19	80.	85.	.027
YM-19	85.	90.	.001
YM-19	90.	95.	.002
YM-19	95.	100.	.001
YM-19	100.	105.	.010
YM-19	105.	110.	.007
YM-19	110.	115.	.009
YM-19	115.	120.	.003
YM-19	120.	125.	.007
YM-19	125.	130.	.013
YM-19	130.	135.	.006
YM-19	135.	140.	.005
YM-19	140.	145.	.005
YM-19	145.	150.	.002
YM-19	150.	155.	.003
YM-19	155.	160.	.002
YM-19	160.	165.	.004
YM-19	165.	170.	.018
YM-19	170.	175.	.005
YM-19	175.	180.	.007
YM-19	180.	185.	.023
YM-19	185.	190.	.007
YM-19	190.	195.	.005
YM-19	195.	200.	.008
YM-19	200.	205.	.005
YM-19	205.	210.	.015
YM-19	210.	215.	.053
YM-19	215.	220.	.024 15'-0.046
YM-19	220.	225.	.062 25'-0.047
YM-19	225.	230.	.112 10'-0.098
YM-19	230.	235.	.083
YM-19	235.	240.	.007
YM-19	240.	245.	.008
YM-19	245.	250.	.004
YM-19	250.	255.	.001
YM-19	255.	260.	.002
YM-19	260.	265.	.001
YM-19	265.	270.	.001
YM-19	270.	275.	.002
YM-19	275.	280.	.001
YM-19	280.	285.	.001
YM-19	285.	290.	.tr
YM-19	290.	295.	.001
	295	300	.001

YM-19	295.	300.	.001

Fletcher Standard

YM-19	17.	19.	.024
YM-19	76.	78.	.014
YM-19	187.	189.	.025
YM-19	253.	254.	.009

YM-20	0.	5.	.044
YM-20	5.	10.	.011
YM-20	10.	15.	.010
YM-20	15.	20.	.015
YM-20	20.	25.	.052
YM-20	25.	30.	.331
YM-20	30.	35.	.024
YM-20	35.	40.	.004
YM-20	40.	45.	.004
YM-20	45.	50.	.003
YM-20	50.	55.	.001
YM-20	55.	60.	.001
YM-20	60.	65.	.002
YM-20	65.	70.	.002
YM-20	70.	75.	.002
YM-20	75.	80.	.001
YM-20	80.	85.	.002
YM-20	85.	90.	.001
YM-20	90.	95.	.tr
YM-20	95.	100.	.tr
YM-20	100.	105.	.nil
YM-20	105.	110.	.tr
YM-20	110.	115.	.004
YM-20	115.	120.	.002
YM-20	120.	125.	.003
YM-20	125.	130.	.001
YM-20	130.	135.	.001
YM-20	135.	140.	.002
YM-20	140.	145.	.001
YM-20	145.	150.	.003
YM-20	150.	155.	.tr
YM-20	155.	160.	.tr
YM-20	160.	165.	.nil
YM-20	165.	170.	.nil
YM-20	170.	175.	.002
YM-20	175.	180.	.001
YM-20	180.	185.	.001
YM-20	185.	190.	.tr
YM-20	190.	195.	.nil
YM-20	195.	200.	.nil

Fletcher Standard

YM-20	1.	4.	.021
YM-20	57.	59.	.007
YM-20	123.	124.	.022
YM-20	196.	197.	.007
YM-21	0.	5.	.002
YM-21	5.	10.	.001
YM-21	10.	15.	.002
YM-21	15.	20.	.005
YM-21	20.	25.	.004
YM-21	25.	30.	.019
YM-21	30.	35.	.033
YM-21	35.	40.	.016
YM-21	40.	45.	.008
YM-21	45.	50.	.014
YM-21	50.	55.	.022
YM-21	55.	60.	.003
YM-21	60.	65.	.005
YM-21	65.	70.	.005
YM-21	70.	75.	.003
YM-21	75.	80.	.004
YM-21	80.	85.	.034
YM-21	85.	90.	.032
YM-21	90.	95.	.001
YM-21	95.	100.	.001
YM-21	100.	105.	.001
YM-21	105.	110.	.001
YM-21	110.	115.	.001
YM-21	115.	120.	.002
YM-21	120.	125.	.003
YM-21	125.	130.	.001
YM-21	130.	135.	.tr
YM-21	135.	140.	.nil
YM-21	140.	145.	.nil
YM-21	145.	150.	.nil
YM-21	150.	155.	.nil
YM-21	155.	160.	.nil
YM-21	160.	165.	.nil
YM-21	165.	170.	.007
YM-21	170.	175.	.010
YM-21	175.	180.	.nil
YM-21	180.	185.	.nil
YM-21	185.	190.	.nil
YM-21	190.	195.	.nil
YM-21	195.	200.	.nil
Fletcher Standard			
YM-21	3.	4.	.023
YM-21	51.	54.	.020
YM-21	127.	129.	.007
YM-21	198.	199.	.007

YM-22	0.	5.	.001
YM-22	5.	10.	.002
YM-22	10.	15.	.001
YM-22	15.	20.	.001
YM-22	20.	25.	.tr
YM-22	25.	30.	.tr
YM-22	30.	35.	.tr
YM-22	35.	40.	.nil
YM-22	40.	45.	.nil
YM-22	45.	50.	.tr
YM-22	50.	55.	.tr
YM-22	55.	60.	.001
YM-22	60.	65.	.001
YM-22	65.	70.	.001
YM-22	70.	75.	.001
YM-22	75.	80.	.tr
YM-22	80.	85.	.tr
YM-22	85.	90.	.tr
YM-22	90.	95.	.001
YM-22	95.	100.	.001
YM-22	100.	105.	.003
YM-22	105.	110.	.002
YM-22	110.	115.	.001
YM-22	115.	120.	.001
YM-22	120.	125.	.tr
YM-22	125.	130.	.001
YM-22	130.	135.	.001
YM-22	135.	140.	.004
YM-22	140.	145.	.tr
YM-22	145.	150.	.001
YM-22	150.	155.	.003
YM-22	155.	160.	.003
YM-22	160.	165.	.002
YM-22	165.	170.	.001
YM-22	170.	175.	.002
YM-22	175.	180.	.003
YM-22	180.	185.	.002
YM-22	185.	190.	.001
YM-22	190.	195.	.001
YM-22	195.	200.	.008
YM-22	200.	205.	.002
YM-22	205.	210.	.004
YM-22	210.	215.	.007
YM-22	215.	220.	.025
YM-22	220.	225.	.046
YM-22	225.	230.	.006
YM-22	230.	235.	.006
YM-22	235.	240.	.007
YM-22	240.	245.	.005
YM-22	245.	250.	.004
YM-22	250.	255.	.005
YM-22	255.	260.	.004

0.036

YM-22	260.	265.	.005	
YM-22	265.	270.	.003	
YM-22	270.	275.	.032	
YM-22	275.	280.	.007	15'-0.025
YM-22	280.	285.	.036	
YM-22	285.	290.	.005	
YM-22	290.	295.	.003	
YM-22	295.	300.	.003	
YM-22	300.	305.	.tr	
YM-22	305.	310.	.001	
YM-22	310.	315.	.001	
YM-22	315.	320.	.007	
YM-22	320.	325.	.004	
YM-22	325.	330.	.004	
YM-22	330.	335.	.003	
YM-22	335.	340.	.004	
YM-22	340.	345.	.003	
YM-22	345.	350.	.001	
YM-22	350.	355.	.001	
YM-22	355.	360.	.003	
YM-22	360.	365.	.004	
YM-22	365.	370.	.001	
YM-22	370.	375.	.001	
YM-22	375.	380.	.tr	
Fletcher Standard				
YM-22	11.	14.	.008	
YM-22	181.	183.	.004	
YM-22	328.	329.	.012	
YM-23	0.	5.	.002	
YM-23	5.	10.	.003	
YM-23	10.	15.	.002	
YM-23	15.	20.	.003	
YM-23	20.	25.	.001	
YM-23	25.	30.	.004	
YM-23	30.	35.	.008	
YM-23	35.	40.	.008	
YM-23	40.	45.	.116	
YM-23	45.	50.	.088	15'-0.097
YM-23	50.	55.	.087	
YM-23	55.	60.	.019	
YM-23	60.	65.	.026	
YM-23	65.	70.	.006	30'-0.015
YM-23	70.	75.	.011	
YM-23	75.	80.	.008	
YM-23	80.	85.	.017	
YM-23	85.	90.	.039	
YM-23	90.	95.	.014	
YM-23	95.	100.	.030	40'-0.054
YM-23	100.	105.	.061	
YM-23	105.	110.	.101	

YM-23	110.	115.	.060
YM-23	115.	120.	.036
YM-23	120.	125.	.087
YM-23	125.	130.	.006
YM-23	130.	135.	.002
YM-23	135.	140.	.002

Fletcher Standard

YM-23	51.	53.	.026
YM-23	122.	124.	.008

YM-24	0.	5.	.010
YM-24	5.	10.	.004
YM-24	10.	15.	.002
YM-24	15.	20.	.003
YM-24	20.	25.	.002
YM-24	25.	30.	.003
YM-24	30.	35.	.002
YM-24	35.	40.	.005
YM-24	40.	45.	.014
YM-24	45.	50.	.002
YM-24	50.	55.	.003
YM-24	55.	60.	.003
YM-24	60.	65.	.005
YM-24	65.	70.	No Sample
YM-24	70.	75.	No Sample
YM-24	75.	80.	.229
YM-24	80.	85.	.118
YM-24	85.	90.	.052
YM-24	90.	95.	.081 40-0.093
YM-24	95.	100.	.095
YM-24	100.	105.	.038
YM-24	105.	110.	.099
YM-24	110.	115.	.029
YM-24	115.	120.	.006
YM-24	120.	125.	.003
YM-24	125.	130.	.003
YM-24	130.	135.	.004
YM-24	135.	140.	.004
YM-24	140.	145.	.004
YM-24	145.	150.	.005

YM-25	0.	5.	.010
YM-25	5.	10.	.008
YM-25	10.	15.	.007
YM-25	15.	20.	.008
YM-25	20.	25.	No Sample
YM-25	25.	30.	.005
YM-25	30.	35.	.004
YM-25	35.	40.	.003
YM-25	40.	45.	.021
YM-25	45.	50.	No Sample

YM-25	50.	55.	.002
YM-25	55.	60.	.029
YM-25	60.	65.	.027
YM-25	65.	70.	.111
YM-25	70.	75.	.078 35-0.070
YM-25	75.	80.	.161
YM-25	80.	85.	.023
YM-25	85.	90.	.058
YM-25	90.	95.	.011
YM-25	95.	100.	.003
YM-25	100.	105.	.003
YM-25	105.	110.	.002
YM-25	110.	115.	.001
YM-25	115.	120.	.001
YM-25	120.	125.	.001
YM-25	125.	130.	TR
YM-25	130.	135.	TR
YM-25	135.	140.	TR
YM-25	140.	145.	TR
YM-25	145.	150.	.004
YM-25	150.	155.	.004
YM-25	155.	160.	.002

Fletcher Standard

YM-25	16.	18.	.004
YM-25	57.	59.	.007
YM-25	101.	104.	.007
YM-25	156.	159.	.003

Note: Hole YM-26 - Pulps prepared for all intervals to 200 ft., assayed only every other interval; complete assay below 200 ft.

YM-26	0.	5.	.002
YM-26	10.	15.	.002
YM-26	20.	25.	.003
YM-26	30.	35.	.001
YM-26	40.	45.	.002
YM-26	50.	55.	.002
YM-26	60.	65.	.001
YM-26	70.	75.	.022
YM-26	80.	85.	.001
YM-26	90.	95.	.002
YM-26	100.	105.	.001
YM-26	110.	115.	.001
YM-26	120.	125.	.002
YM-26	130.	135.	.003
YM-26	140.	145.	.002
YM-26	150.	155.	.003
YM-26	160.	165.	.002
YM-26	170.	175.	.002
	175	180	?

YM-26	180.	185.	.002	
YM-26	190.	195.	.003	
YM-26	200.	205.	.027	
YM-26	205.	210.	.061	
YM-26	210.	215.	.039	
YM-26	215.	220.	.021	
YM-26	220.	225.	.035	60' - 0.031
YM-26	225.	230.	.054	
YM-26	230.	235.	.012	
YM-26	235.	240.	.035	
YM-26	240.	245.	.017	
YM-26	245.	250.	.030	
YM-26	250.	255.	.031	
YM-26	255.	260.	.013	
YM-26	260.	265.	.149	
YM-26	265.	270.	.099	
YM-26	270.	275.	.013	30' = 0.100
YM-26	275.	280.	.102	
YM-26	280.	285.	.183	
YM-26	285.	290.	.051	
YM-26	290.	295.	.015	
YM-26	295.	300.	.009	
YM-26	300.	305.	.019	
YM-26	305.	310.	.013	
YM-26	310.	315.	.014	
YM-26	315.	320.	.027	
YM-26	320.	325.	.007	
YM-26	325.	330.	.004	
YM-26	330.	335.	.002	
YM-26	335.	340.	.037	
YM-26	340.	345.	.003	
YM-26	345.	350.	.001	
YM-26	350.	355.	.002	
YM-26	355.	360.	.004	
YM-26	360.	365.	.004	
YM-26	365.	370.	.004	
YM-26	370.	375.	.003	
YM-26	375.	380.	.010	
YM-26	380.	385.	.002	
YM-26	385.	390.	.004	
YM-26	390.	395.	.010	
YM-26	395.	400.	.005	
YM-26	400.	405.	.002	
YM-26	405.	410.	.003	
YM-26	410.	415.	.002	
YM-26	415.	420.	.002	
YM-26	420.	425.	.002	
YM-26	425.	430.	.002	
YM-26	430.	435.	.001	
YM-26	435.	440.	.003	
YM-26	440.	445.	.002	
YM-26	445.	450.	.001	

~~YM-26~~	~~445.~~	~~450.~~	~~.001~~

Fletcher Standard

YM-26	1.	4.	.035
YM-26	71.	73.	.001
YM-26	181.	183.	.065
YM-26	251.	254.	.007
YM-26	321.	322.	.075
YM-27	5.	10.	.002
YM-27	10.	15.	.002
YM-27	15.	20.	.002
YM-27	20.	25.	.003
YM-27	25.	30.	.007
YM-27	30.	35.	.002
YM-27	35.	40.	.018
YM-27	40.	45.	.003
YM-27	45.	50.	.001
YM-27	50.	55.	.001
YM-27	55.	60.	.006
YM-27	60.	65.	.041
YM-27	65.	70.	.018
YM-27	70.	75.	.023
YM-27	75.	80.	.003
YM-27	80.	85.	.003
YM-27	85.	90.	.012
YM-27	90.	95.	.030
YM-27	95.	100.	.003
YM-27	100.	105.	.004
YM-27	105.	110.	.002
YM-27	110.	115.	.002
YM-27	115.	120.	.006
YM-27	120.	125.	.042
YM-27	125.	130.	.007
YM-27	130.	135.	.008
YM-27	135.	140.	.007
YM-27	140.	145.	.003
YM-27	145.	150.	.004
YM-27	150.	155.	.002
YM-27	155.	160.	.001
YM-27	160.	165.	.002
YM-27	165.	170.	.014
YM-27	170.	175.	.001
YM-27	175.	180.	.003
YM-27	180.	185.	.002
YM-27	185.	190.	.002
YM-27	190.	195.	.004
YM-27	195.	200.	.004
YM-27	200.	205.	.004
YM-27	205.	210.	.022
YM-27	210.	215.	.002

YM-27	215.	220.	.001
YM-27	220.	225.	.001
YM-27	225.	230.	.003
YM-27	230.	235.	.002
YM-27	235.	240.	.031
YM-27	240.	245.	.032
YM-27	245.	250.	.013
YM-27	250.	255.	.013
YM-27	255.	260.	.013
YM-27	260.	265.	.012
YM-27	265.	270.	.003
YM-27	270.	275.	.004
YM-27	275.	280.	.001
YM-27	280.	285.	.003
YM-27	285.	290.	.001
YM-27	290.	295.	.004
YM-27	295.	300.	.007
YM-27	300.	305.	.034
YM-27	305.	310.	.037 15' - 0.033
YM-27	310.	315.	.028
YM-27	315.	320.	.003
YM-27	320.	325.	.002
YM-27	325.	330.	.002
YM-27	330.	335.	.001
YM-27	335.	340.	TR
YM-27	340.	345.	TR
YM-27	345.	350.	TR
YM-27	350.	355.	.001
YM-27	355.	360.	NIL
YM-27	360.	365.	TR
YM-27	365.	370.	TR
YM-27	370.	375.	TR
YM-27	375.	380.	.002
YM-27	380.	385.	.001
YM-27	385.	390.	.001
YM-27	390.	395.	.002
YM-27	395.	400.	TR
YM-27	400.	405.	.001
YM-27	405.	410.	.066
YM-27	410.	415.	.001
YM-27	415.	420.	.001
YM-27	420.	425.	.005
YM-27	425.	430.	.001
YM-27	430.	435.	.001
YM-27	435.	440.	TR

YM-28	0.	5.	.014
YM-28	5.	10.	.002
YM-28	10.	15.	.003
YM-28	15.	20.	.008
YM-28	20.	25.	.002
YM-28	25.	30.	.004
YM-28	30.	35.	.006
YM-28	35.	40.	.006
YM-28	40.	45.	.029
YM-28	45.	50.	.004
YM-28	50.	55.	.005
YM-28	55.	60.	.002
YM-28	60.	65.	.003
YM-28	65.	70.	.005
YM-28	70.	75.	.002
YM-28	75.	80.	.001
YM-28	80.	85.	.002
YM-28	85.	90.	.006
YM-28	90.	95.	.006
YM-28	95.	100.	.088
YM-28	100.	105.	.026
YM-28	105.	110.	.006
YM-28	110.	115.	.021
YM-28	115.	120.	.038 40'-0.022
YM-28	120.	125.	.026
YM-28	125.	130.	.011
YM-28	130.	135.	.004
YM-28	135.	140.	.029
YM-28	140.	145.	.031
YM-28	145.	150.	.034
YM-28	150.	155.	.006
YM-28	155.	160.	.036
YM-28	160.	165.	.012
YM-28	165.	170.	.024
YM-28	170.	175.	.003
YM-28	175.	180.	.010
YM-28	180.	185.	.022
YM-28	185.	190.	.031
YM-28	190.	195.	.024
YM-28	195.	200.	.025
YM-28	200.	205.	.019
YM-28	205.	210.	.017
YM-28	210.	215.	.028
YM-28	215.	220.	.004
YM-28	220.	225.	.006
YM-28	225.	230.	.043
YM-28	230.	235.	.003
YM-28	235.	240.	.073 10'-0.041
YM-28	240.	245.	.049
YM-28	245.	250.	.002
YM-28	250.	255.	.001
YM-28	255.	260.	.002

YM-28	260.	265.	.001
YM-28	265.	270.	.001
YM-28	270.	275.	.002
YM-28	275.	280.	.001
YM-28	280.	285.	.002
YM-28	285.	290.	.001
YM-28	290.	295.	TR
YM-28	295.	300.	.001
YM-28	300.	305.	.002
YM-28	305.	310.	.001
YM-28	310.	315.	.004
YM-28	315.	320.	.002
YM-28	320.	325.	.001
YM-28	325.	330.	.002
YM-28	330.	335.	.005
YM-28	335.	340.	.003
YM-28	340.	345.	.002
YM-28	345.	350.	TR

Fletcher Standard

YM-28	7.	9.-A	.052
YM-28	12.	13.	.022
YM-28	77.	79.-B	.029
YM-28	151.	153.-C	.034
YM-28	181.	184.-A	.015
YM-28	227.	228.	.007
YM-28	251.	253.-D	.027
YM-28	327.	329.-E	.371
YM-28	401.	403.-F	.329

YM-29	0.	5.	.002
YM-29	5.	10.	.001
YM-29	10.	15.	.001
YM-29	15.	20.	TR
YM-29	20.	25.	.006
YM-29	25.	30.	.001
YM-29	30.	35.	.001
YM-29	35.	40.	.002
YM-29	40.	45.	.001
YM-29	45.	50.	.004
YM-29	50.	55.	.006
YM-29	55.	60.	.001
YM-29	60.	65.	TR
YM-29	65.	70.	TR
YM-29	70.	75.	TR
YM-29	75.	80.	.001
YM-29	80.	85.	TR
YM-29	85.	90.	.001
YM-29	90.	95.	.001
YM-29	95.	100.	TR
YM-29	100.	105.	.001
YM-29	105.	110.	TR

YM-29	110.	115.	.001
YM-29	115.	120.	.002
YM-29	120.	125.	.002
YM-29	125.	130.	.003
YM-29	130.	135.	.002
YM-29	135.	140.	.003
YM-29	140.	145.	.004
YM-29	145.	150.	.002
YM-29	150.	155.	TR
YM-29	155.	160.	TR
YM-29	160.	165.	.001
YM-29	165.	170.	.002
YM-29	170.	175.	.002
YM-29	175.	180.	.002
YM-29	180.	185.	TR
YM-29	185.	190.	.003
YM-29	190.	195.	.004
YM-29	195.	200.	.003
YM-29	200.	205.	.009
YM-29	205.	210.	.008
YM-29	210.	215.	.006
YM-29	215.	220.	.008
YM-29	220.	225.	.046
YM-29	225.	230.	.019
YM-29	230.	235.	.008
YM-29	235.	240.	.007
YM-29	240.	245.	.004
YM-29	245.	250.	.007
YM-29	250.	255.	.002
YM-29	255.	260.	.003
YM-29	260.	265.	.001
YM-29	265.	270.	No Sample
YM-29	270.	275.	.006
YM-29	275.	280.	.002

Fletcher Standard

YM-29	27.	29.-B	.002
YM-29	96.	99.-A	.025
YM-29	101.	104.-B	.007
YM-29	171.	174.-A	.035

YM-30	0.	5.	.628
YM-30	5.	10.	.011
YM-30	10.	15.	.003
YM-30	15.	20.	.002
YM-30	20.	25.	.001
YM-30	25.	30.	.004
YM-30	30.	35.	.002
YM-30	35.	40.	.004
YM-30	40.	45.	.003
YM-30	45.	50.	.002
YM-30	50.	55.	.001

YM-30	55.	60.	.001
YM-30	60.	65.	.002
YM-30	65.	70.	.002
YM-30	70.	75.	.001
YM-30	75.	80.	.002
YM-30	80.	85.	.006
YM-30	85.	90.	.001
YM-30	90.	95.	.002
YM-30	95.	100.	.001
YM-30	100.	105.	.002
YM-30	105.	110.	.001
YM-30	110.	115.	.001
YM-30	115.	120.	.009
YM-30	120.	125.	.003
YM-30	125.	130.	.001
YM-30	130.	135.	.001
YM-30	135.	140.	.002
YM-30	140.	145.	TR
YM-30	145.	150.	.001
YM-30	150.	155.	.003
YM-30	155.	160.	TR
YM-30	160.	165.	TR
YM-30	165.	170.	.002
YM-30	170.	175.	.007
YM-30	175.	180.	.022
YM-30	180.	185.	.019
YM-30	185.	190.	.004
YM-30	190.	195.	.006
YM-30	195.	200.	.011
YM-30	200.	205.	.002
YM-30	205.	210.	.001
YM-30	210.	215.	.002
YM-30	215.	220.	.030 5'-0.03
YM-30	220.	225.	.009
YM-30	225.	230.	.016
YM-30	230.	235.	.093 35'-0.032
YM-30	235.	240.	.011
YM-30	240.	245.	.027 20'-0.043
YM-38	245.	250.	.041
YM-30	250.	255.	.009
YM-30	255.	260.	.002
YM-30	260.	265.	.001
YM-30	265.	270.	.002
YM-30	270.	275.	.001
YM-30	275.	280.	.002
YM-30	280.	285.	TR
YM-30	285.	290.	TR
YM-30	290.	295.	.002
YM-30	295.	300.	.001
YM-30	300.	305.	TR
YM-30	305.	310.	TR
YM-30	310.	315.	TR

Fletcher Standard

YM-30	21.	23.-A	.017
YM-30	162.	164.-A	.008
YM-30	212.	214.-A	.024
YM-30	301.	302.-A	.004
YM-31	0.	5.	.003
YM-31	5.	10.	.001
YM-31	10.	15.	.002
YM-31	15.	20.	.001
YM-31	20.	25.	.001
YM-31	25.	30.	.001
YM-31	30.	35.	.042
YM-31	35.	40.	.007
YM-31	40.	45.	.004
YM-31	45.	50.	.002
YM-31	50.	55.	.005
YM-31	55.	60.	.003
YM-31	60.	65.	.011
YM-31	65.	70.	.013
YM-31	70.	75.	.009
YM-31	75.	80.	.003
YM-31	80.	85.	.004
YM-31	85.	90.	.008
YM-31	90.	95.	.009
YM-31	95.	100.	.006
YM-31	100.	105.	.005
YM-31	105.	110.	.008
YM-31	110.	115.	.003
YM-31	115.	120.	.021
YM-31	120.	125.	.009
YM-31	125.	130.	.018
YM-31	130.	135.	.021
YM-31	135.	140.	.006
YM-31	140.	145.	.002
YM-31	145.	150.	.001
YM-31	150.	155.	.001
YM-31	155.	160.	.002
YM-31	160.	165.	.001
YM-31	165.	170.	.002
YM-31	170.	175.	.001
YM-31	175.	180.	.002
YM-31	180.	185.	.001
YM-31	185.	190.	.001
YM-31	190.	195.	TR
YM-31	195.	200.	TR
YM-31	200.	205.	TR
YM-31	205.	210.	TR
YM-31	210.	215.	.001
YM-31	215.	220.	.001
YM-31	220.	225.	.003
YM-31	225.	230.	TR

YM-31	230.	235.	TR
YM-31	235.	240.	TR
YM-31	240.	245.	.004
YM-31	245.	250.	.001
YM-31	250.	255.	.002
YM-31	255.	260.	.001
YM-31	260.	265.	.002
YM-31	265.	270.	.002
YM-31	270.	275.	.001
YM-31	275.	280.	.002
YM-31	280.	285.	.001
YM-31	285.	290.	.002
YM-31	290.	295.	.001
YM-31	295.	300.	.003
YM-31	300.	305.	.002
YM-31	305.	310.	.008
YM-31	310.	315.	.023
YM-31	315.	320.	.004
YM-31	320.	325.	.006
YM-31	325.	330.	.002
YM-31	330.	335.	.003
YM-31	335.	340.	.003
YM-31	340.	345.	.002
YM-31	345.	350.	.001
YM-31	350.	355.	.005
YM-31	355.	360.	.002
YM-31	360.	365.	.008
YM-31	365.	370.	.093
YM-31	370.	375.	.067 15'-0.048
YM-31	375.	380.	.044
YM-31	380.	385.	.015
YM-31	385.	390.	.005
YM-31	390.	395.	.002
YM-31	395.	400.	.001
YM-31	400.	405.	.002
YM-31	405.	410.	.002
YM-31	410.	415.	TR
YM-31	415.	420.	TR
YM-31	420.	425.	TR
YM-31	425.	430.	TR
YM-31	430.	435.	TR
YM-31	435.	440.	TR

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YM-31	8.	9.	.024
YM-31	77.	79.	.146
YM-31	147.	149.	.008
YM-31	241.	243.	.068
YM-31	313.	314.	.004
YM-31	387.	389.	.176

YM-31	270.	275.	.001
YM-31	275.	280.	.002
YM-31	280.	285.	.001
YM-31	285.	290.	.002
YM-31	290.	295.	.001
YM-31	295.	300.	.003
YM-31	300.	305.	.002
YM-31	305.	310.	.008
YM-31	310.	315.	.023
YM-31	315.	320.	.004
YM-31	320.	325.	.006
YM-31	325.	330.	.002
YM-31	330.	335.	.003
YM-31	335.	340.	.003
YM-31	340.	345.	.002
YM-31	345.	350.	.001
YM-31	350.	355.	.005
YM-31	355.	360.	.002
YM-31	360.	365.	.008
YM-31	365.	370.	.093
YM-31	370.	375.	.067
YM-31	375.	380.	.044
YM-31	380.	385.	.015
YM-31	385.	390.	.005
YM-31	390.	395.	.002
YM-31	395.	400.	.001
YM-31	400.	405.	.002
YM-31	405.	410.	.002
YM-31	410.	415.	TR
YM-31	415.	420.	TR
YM-31	420.	425.	TR
YM-31	425.	430.	TR
YM-31	430.	435.	TR
YM-31	435.	440.	TR

Fletcher Standard

YM-31	8.	9.	.024
YM-31	77.	79.	.146
YM-31	147.	149.	.008
YM-31	241.	243.	.068
YM-31	313.	314.	.004
YM-31	387.	389.	.176

YM-32	0.	5.	.026
YM-32	5.	10.	.005
YM-32	10.	15.	.008
YM-32	15.	20.	.038
YM-32	20.	25.	.011
YM-32	25.	30.	.003
YM-32	30.	35.	.002
YM-32	35.	40.	.002
YM-32	40.	45.	.004

YM-32	45.	50.	.005
YM-32	50.	55.	.003
YM-32	55.	60.	.005
YM-32	60.	65.	.011
YM-32	65.	70.	.013
YM-32	70.	75.	.020
YM-32	75.	80.	.010
YM-32	80.	85.	.004
YM-32	85.	90.	.008
YM-32	90.	95.	.021
YM-32	95.	100.	.008
YM-32	100.	105.	.011
YM-32	105.	110.	.004
YM-32	110.	115.	.003
YM-32	115.	120.	.001
YM-32	120.	125.	.022
YM-32	125.	130.	.009
YM-32	130.	135.	.023
YM-32	135.	140.	.022
YM-32	140.	145.	.015
YM-32	145.	150.	.009
YM-32	150.	155.	.009
YM-32	155.	160.	.003
YM-32	160.	165.	.014
YM-32	165.	170.	.022
YM-32	170.	175.	.009
YM-32	175.	180.	.003
YM-32	180.	185.	.014
YM-32	185.	190.	.007
YM-32	190.	195.	.027
YM-32	195.	200.	.026
YM-32	200.	205.	.001
YM-32	205.	210.	.001
YM-32	210.	215.	.003
YM-32	215.	220.	TR
YM-32	220.	225.	TR
YM-32	225.	230.	.001
YM-32	230.	235.	.001
YM-32	235.	240.	TR
YM-32	240.	245.	TR
YM-32	245.	250.	TR
YM-32	250.	255.	.001
YM-32	255.	260.	.001

20'- 0.019

Fletcher Standard

YM-32	2.	4.-A	.026
YM-32	86.	89.-A	.027
YM-32	102.	104.-B	.008
YM-32	196.	199.-B	.008

YM-33	0.	5.	.007
YM-33	5.	10.	.006

YM-33	10.	15.	.004
YM-33	15.	20.	.020
YM-33	20.	25.	.014
YM-33	25.	30.	.005
YM-33	30.	35.	.018
YM-33	35.	40.	.018
YM-33	40.	45.	.010
YM-33	45.	50.	.016
YM-33	50.	55.	.021
YM-33	55.	60.	.003
YM-33	60.	65.	.002
YM-33	65.	70.	.004
YM-33	70.	75.	.002
YM-33	75.	80.	.002
YM-33	80.	85.	.003
YM-33	85.	90.	.001
YM-33	90.	95.	.001
YM-33	95.	100.	.002
YM-33	100.	105.	.001
YM-33	105.	110.	.001
YM-33	110.	115.	.001
YM-33	115.	120.	.003
YM-33	120.	125.	.002
YM-33	125.	130.	.003
YM-33	130.	135.	.003
YM-33	135.	140.	.003
YM-33	140.	145.	.002
YM-33	145.	150.	.002
YM-33	150.	155.	.001
YM-33	155.	160.	.001
YM-33	160.	165.	.002
YM-33	165.	170.	.004
YM-33	170.	175.	.002
YM-33	175.	180.	.006
YM-33	180.	185.	.002
YM-33	185.	190.	.003
YM-33	190.	195.	.003
YM-33	195.	200.	.002
YM-33	200.	205.	.003
YM-33	205.	210.	.001
YM-33	210.	215.	.001
YM-33	215.	220.	.005
YM-33	220.	225.	.003
YM-33	225.	230.	.001
YM-33	230.	235.	.002
YM-33	235.	240.	.001
YM-33	240.	245.	.001
YM-33	245.	250.	.002
YM-33	250.	255.	.004
YM-33	255.	260.	.001
YM-33	260.	265.	TR
YM-33	265.	270.	.002

YM-33	270.	275.	.001
YM-33	275.	280.	.015
YM-33	280.	285.	.074
YM-33	285.	290.	.092
YM-33	290.	295.	.081
YM-33	295.	300.	.079
YM-33	300.	305.	.074
YM-33	305.	310.	.081
YM-33	310.	315.	.019
YM-33	315.	320.	.019
YM-33	320.	325.	.029
YM-33	325.	330.	.048
YM-33	330.	335.	.023
YM-33	335.	340.	.069
YM-33	340.	345.	.013
YM-33	345.	350.	.038
YM-33	350.	355.	.025
YM-33	355.	360.	.075
YM-33	360.	365.	.061
YM-33	365.	370.	.008
YM-33	370.	375.	.002
YM-33	375.	380.	.007
YM-33	380.	385.	.009
YM-33	385.	390.	.002
YM-33	390.	395.	.001
YM-33	395.	400.	TR
YM-33	400.	405.	.001
YM-33	405.	410.	TR

30' - 0.080

55' - 0.038

Fletcher Standard

YM-33	17.	19.	.022
YM-33	121.	123.	.004
YM-33	251.	253.	.025
YM-33	377.	379.	.007

YM-34	0.	5.	.003
YM-34	5.	10.	.002
YM-34	10.	15.	.004
YM-34	15.	20.	.002
YM-34	20.	25.	.002
YM-34	25.	30.	.012
YM-34	30.	35.	.004
YM-34	35.	40.	.005
YM-34	40.	45.	.010
YM-34	45.	50.	.008
YM-34	50.	55.	.015
YM-34	55.	60.	.002
YM-34	60.	65.	.001
YM-34	65.	70.	.002
YM-34	70.	75.	.002
YM-34	75.	80.	.001
YM-34	80.	85.	.021

YM-34	85.	90.	.009
YM-34	90.	95.	.001
YM-34	95.	100.	.001
YM-34	100.	105.	.002
YM-34	105.	110.	.005
YM-34	110.	115.	.012
YM-34	115.	120.	.006
YM-34	120.	125.	.021
YM-34	125.	130.	.014
YM-34	130.	135.	.008
YM-34	135.	140.	.002
YM-34	140.	145.	.001
YM-34	145.	150.	.016
Fletcher Standard			
YM-34	33.	34.-A	.025
YM-34	101.	104.-B	.009
YM-35	0.	5.	.002
YM-35	5.	10.	.002
YM-35	10.	15.	.004
YM-35	15.	20.	.017
YM-35	20.	25.	.008
YM-35	25.	30.	.003
YM-35	30.	35.	.006
YM-35	35.	40.	.016
YM-35	40.	45.	.001
YM-35	45.	50.	.003
YM-35	50.	55.	.002
YM-35	55.	60.	.002
YM-35	60.	65.	.004
YM-35	65.	70.	.001
YM-35	70.	75.	.001
YM-35	75.	80.	.001
YM-35	80.	85.	.002
YM-35	85.	90.	.001
YM-35	90.	95.	.001
YM-35	95.	100.	TR
Fletcher Standard			
YM-35	31.	34.	.022
YM-35	91.	94.	.004
YM-36	0.	5.	.005
YM-36	5.	10.	.001
YM-36	10.	15.	TR
YM-36	15.	20.	.001
YM-36	20.	25.	.001
YM-36	25.	30.	TR
YM-36	30.	35.	.002
YM-36	35.	40.	.008
YM-36	40.	45.	.014

YM-36	45.	50.	.006
YM-36	50.	55.	.065
YM-36	55.	60.	.004
YM-36	60.	65.	.002
YM-36	65.	70.	.002
YM-36	70.	75.	.002
YM-36	75.	80.	.001
YM-36	80.	85.	.001
YM-36	85.	90.	.006
YM-36	90.	95.	.022
YM-36	95.	100.	.006
YM-36	100.	105.	.008
YM-36	105.	110.	.006
YM-36	110.	115.	.003
YM-36	115.	120.	.014
YM-36	120.	125.	.008
YM-36	125.	130.	.013
YM-36	130.	135.	.036
YM-36	135.	140.	.059
YM-36	140.	145.	.004
YM-36	145.	150.	.002
YM-36	150.	155.	.003
YM-36	155.	160.	.002
YM-36	160.	165.	.004
YM-36	165.	170.	.002
YM-36	170.	175.	.001
YM-36	175.	180.	.001

0.0475

Fletcher Standard

YM-36	91.	94.	.017
YM-36	161.	164.	.007

YM-37	0.	5.	.001
YM-37	5.	10.	.002
YM-37	10.	15.	.003
YM-37	15.	20.	.003
YM-37	20.	25.	.002
YM-37	25.	30.	.007
YM-37	30.	35.	.002
YM-37	35.	40.	.002
YM-37	40.	45.	.002
YM-37	45.	50.	.013
YM-37	50.	55.	.006
YM-37	55.	60.	.002
YM-37	60.	65.	.002
YM-37	65.	70.	.048
YM-37	70.	75.	.005
YM-37	75.	80.	.005
YM-37	80.	85.	.005
YM-37	85.	90.	.002
YM-37	90.	95.	.008
YM-37	95.	100.	.003
YM-37	100.	105.	.010
YM-37	105.	110.	.003
YM-37	110.	115	.007
YM-37	115.	120.	.007
YM-37	120.	125.	.034
YM-37	125.	130.	.010
YM-37	130.	135.	.026
YM-37	135.	140.	.035
YM-37	140.	145.	.036
YM-37	145.	150.	.008
YM-37	150.	155.	.016
YM-37	155.	160.	.025
YM-37	160.	165.	.043
YM-37	165.	170.	.159
YM-37	170.	175.	.012
YM-37	175.	180.	.030
YM-37	180.	185.	.005
YM-37	185.	190.	.003
YM-37	190.	195.	.002
YM-37	195.	200.	.002
YM-37	200.	205.	.004
YM-37	205.	210.	.005
YM-37	210.	215.	.004
YM-37	215.	220.	.002
YM-37	220.	225.	.003
YM-37	225.	230.	.001

Fletcher Standard

YM-37	51.	54.	.008
YM-37	101.	104.	.022
YM-37	161.	164.	.008
YM-37	201.	204.	.029

YM-38	0.	5.	.001
YM-38	5.	10.	.003
YM-38	10.	15.	.002
YM-38	15.	20.	.TR
YM-38	20.	25.	.002
YM-38	25.	30.	.001
YM-38	30.	35.	.002
YM-38	35.	40.	.003
YM-38	40.	45.	.001
YM-38	45.	50.	.002
YM-38	50.	55.	.002
YM-38	55.	60.	.001
YM-38	60.	65.	.001
YM-38	65.	70.	.002
YM-38	70.	75.	.TR
YM-38	75.	80.	.001
YM-38	80.	85.	.TR
YM-38	85.	90.	.TR
YM-38	90.	95.	.004
YM-38	95.	100.	.TR
YM-38	100.	105.	.002
YM-38	105.	110.	.002
YM-38	110.	115.	.001
YM-38	115.	120.	.002
YM-38	120.	125.	.TR
YM-38	125.	130.	.001
YM-38	130.	135.	.TR
YM-38	135.	140.	.TR
YM-38	140.	145.	.003
YM-38	145.	150.	.002
YM-38	150.	155.	.001
YM-38	155.	160.	.002
YM-38	160.	165.	.002
YM-38	165.	170.	.002
YM-38	170.	175.	.003
YM-38	175.	180.	.002
YM-38	180.	185.	.009
YM-38	185.	190.	.045
YM-38	190.	195.	.010
YM-38	195.	200.	.003
YM-38	200.	205.	.086
YM-38	205.	210.	.013
YM-38	210.	215.	.013
YM-38	215.	220.	.024
YM-38	220.	225.	.007
YM-38	225.	230.	.009
YM-38	230.	235.	.006
YM-38	235.	240.	.046
YM-38	240.	245.	.011
YM-38	245.	250.	.007
YM-38	250.	255.	.008

YM-38	255.	260.	.005
YM-38	260.	265.	.003
YM-38	265.	270.	.002
YM-38	270.	275.	.002
YM-38	275.	280.	.031
YM-38	280.	285.	.011
YM-38	285.	290.	.003
YM-38	290.	295.	.006
YM-38	295.	300.	.010
YM-38	300.	305.	.006
YM-38	305.	310.	.010
YM-38	310.	315.	.005
YM-38	315.	320.	.005
YM-38	320.	325.	.002
YM-38	325.	330.	.003
YM-38	330.	335.	.004
YM-38	335.	340.	.023
YM-38	340.	345.	.003
YM-38	345.	350.	.009
YM-38	350.	355.	.003
YM-38	355.	360.	.007
Fletcher Standard			
YM-38	1.	4.	.022
YM-38	61.	64.	.008
YM-38	101.	104.	.028
YM-38	251.	254.	.007
YM-39	0.	5.	.038
YM-39	5.	10.	.056
YM-39	10.	15.	.005
YM-39	15.	20.	.014
YM-39	20.	25.	.014
YM-39	25.	30.	.022
YM-39	30.	35.	.058
YM-39	35.	40.	.007
YM-39	40.	45.	.002
YM-39	45.	50.	.002
YM-39	50.	55.	.001
YM-39	55.	60.	.TR
YM-39	60.	65.	.001
YM-39	65.	70.	.047
YM-39	70.	75.	.002
YM-39	75.	80.	.002
YM-39	80.	85.	.006
YM-39	85.	90.	.005
YM-39	90.	95.	.001
YM-39	95.	100.	.TR
YM-39	100.	105.	.003
YM-39	105.	110.	.003
YM-39	110.	115.	.002
YM-39	115.	120.	.002

YM-39	120.	125.	.005
YM-39	125.	130.	.002
YM-39	130.	135.	.003
YM-39	135.	140.	.TR
YM-39	140.	145.	.003
YM-39	145.	150.	.021
YM-39	150.	155.	.028
YM-39	155.	160.	.001
YM-39	160.	165.	.003
YM-39	165.	170.	.002
YM-39	170.	175.	.001
YM-39	175.	180.	.003
YM-39	180.	185.	.001
YM-39	185.	190.	.002
YM-39	190.	195.	.002
YM-39	195.	200.	.001
YM-39	200.	205.	.002
YM-39	205.	210.	.028
YM-39	210.	215.	.021
YM-39	215.	220.	.002
YM-39	220.	225.	.Missing did not receive.
YM-39	225.	230.	.002
YM-39	230.	235.	.013
YM-39	235.	240.	.003
YM-39	240.	245.	.Missing did not receive.
YM-39	245.	250.	.003
YM-39	250.	255.	.001
YM-39	255.	260.	.002
YM-39	260.	265.	.001
YM-39	265.	270.	.002
YM-39	270.	275.	.002
YM-39	275.	280.	.004
YM-39	280.	285.	.002
YM-39	285.	290.	.018
YM-39	290.	295.	.Refiring 0.031
YM-39	295.	300.	.006
YM-39	300.	305.	.049
YM-39	305.	310.	.013
YM-39	310.	315.	.008
YM-39	315.	320.	.020
YM-39	320.	325.	.004
YM-39	325.	330.	.071
YM-39	330.	335.	.021
YM-39	335.	340.	.031 .035
YM-39	340.	345.	.028
YM-39	345.	350.	.109
YM-39	350.	355.	.012
YM-39	355.	360.	.062

Fletcher Standard

YM-39	12.	14.	.022
YM-39	101.	104.	.008

YM-39	191.	194.	.021
YM-39	301.	304.	.007

Refire

YM-39	220.	225.	.002
YM-39	290.	295.	.031
YM-39	340.	345.	.035
YM-40	0.	5.	.007
YM-40	5.	10.	.002
YM-40	10.	15.	.003
YM-40	15.	20.	.002
YM-40	20.	25.	.010
YM-40	25.	30.	.009
YM-40	30.	35.	.003
YM-40	35.	40.	.002
YM-40	40.	45.	.013
YM-40	45.	50.	.002
YM-40	50.	55.	.004
YM-40	55.	60.	.007
YM-40	60.	65.	.021
YM-40	65.	70.	.004
YM-40	70.	75.	.003
YM-40	75.	80.	.088
YM-40	80.	85.	.005
YM-40	85.	90.	.003
YM-40	90.	95.	.003
YM-40	95.	100.	.002
YM-40	100.	105.	.002
YM-40	105.	110.	.002
YM-40	110.	115.	.003
YM-40	115.	120.	.002
YM-40	120.	125.	.003
YM-40	125.	130.	.005
YM-40	130.	135.	.003
YM-40	135.	140.	.004
YM-40	140.	145.	.028
YM-40	145.	150.	.006
YM-40	150.	155.	.009
YM-40	155.	160.	.008
YM-40	160.	165.	.016
YM-40	165.	170.	.004
YM-40	170.	175.	.003
YM-40	175.	180.	.002
YM-40	180.	185.	.003
YM-40	185.	190.	.002
YM-40	190.	195.	.002
YM-40	195.	200.	.004
YM-40	200.	205.	.004
YM-40	205.	210.	.015
YM-40	210.	215.	.003

YM-40	215.	220.	.003
YM-40	220.	225.	.013
YM-40	225.	230.	.003
YM-40	230.	235.	.007
YM-40	235.	240.	.011
YM-40	240.	245.	.006
YM-40	245.	250.	.003
YM-40	250.	255.	.003
YM-40	255.	260.	.003
YM-40	260.	265.	.009
YM-40	265.	270.	.003
YM-40	270.	275.	.005
YM-40	275.	280.	.023
YM-40	280.	285.	.018
YM-40	285.	290.	.012
YM-40	290.	295.	.129
YM-40	295.	300.	.036
YM-40	300.	305.	.041
YM-40	305.	310.	.027
YM-40	310.	315.	.177
YM-40	315.	320.	.071
YM-40	320.	325.	.013
YM-40	325.	330.	.021
YM-40	330.	335.	.162
YM-40	335.	340.	.043
YM-40	340.	345.	.034
YM-40	345.	350.	.108
YM-40	350.	355.	.081
YM-40	355.	360.	.131
YM-40	360.	365.	.043
YM-40	365.	370.	.079
YM-40	370.	375.	.Lost Bead Refire 0.033
YM-40	375.	380.	.018
YM-40	380.	385.	.005
YM-40	385.	390.	.003
YM-40	390.	395.	.009
YM-40	395.	400.	.004

Fletcher Standard

YM-40	1.	4.	.022
YM-40	51.	54.	.025
YM-40	151.	154.	.008
YM-40	202.	204.	.023
YM-40	301.	304.	.008

Refire

YM-40	370.	375.	.033

YM-41	0.	5.	.008
YM-41	5.	10.	.046
YM-41	10.	15.	.005
YM-41	15.	20.	.012

YM-41	20.	25.	.004
YM-41	25.	30.	.004
YM-41	30.	35.	.004
YM-41	35.	40.	.007
YM-41	40.	45.	.033
YM-41	45.	50.	.027
YM-41	50.	55.	.003
YM-41	55.	60.	.001
YM-41	60.	65.	.005
YM-41	65.	70.	.002
YM-41	70.	75.	.001
YM-41	75.	80.	.007
YM-41	80.	85.	.002
YM-41	85.	90.	.TR
YM-41	90.	95.	.002
YM-41	95.	100.	.003
YM-41	100.	105.	.014
YM-41	105.	110.	.007
YM-41	110.	115.	.003
YM-41	115.	120.	.001
YM-41	120.	125.	.002
YM-41	125.	130.	.001
YM-41	130.	135.	.002
YM-41	135.	140.	.002
YM-41	140.	145.	.001
YM-41	145.	150.	.001
YM-41	150.	155.	.TR
YM-41	155.	160.	.002
YM-41	160.	165.	.001
YM-41	165.	170.	.001
YM-41	170.	175.	.006
YM-41	175.	180.	.011
YM-41	180.	185.	.001
YM-41	185.	190.	.001
YM-41	190.	195.	.001
YM-41	195.	200.	.011
YM-41	200.	205.	.TR
YM-41	205.	210.	.001
YM-41	210.	215.	.003
YM-41	215.	220.	.007
YM-41	220.	225.	.001
YM-41	225.	230.	.TR
YM-41	230.	235.	.001
YM-41	235.	240.	.001
YM-41	240.	245.	.TR
YM-41	245.	250.	NIL
YM-41	250.	255.	.001
YM-41	255.	260.	.002
YM-41	260.	265.	.TR
YM-41	265.	270.	.001
YM-41	270.	275.	.003
YM-41	275.	280.	.001

YM-41	280.	285.	.001	
YM-41	285.	290.	.001	
YM-41	290.	295.	.002	
YM-41	295.	300.	.015	
YM-41	300.	305.	.054	
YM-41	305.	310.	.056	
YM-41	310.	315.	.028	
YM-41	315.	320.	.048	
YM-41	320.	325.	.064	
YM-41	325.	330.	.067	
YM-41	330.	335.	.032	
YM-41	335.	340.	.004	
YM-41	340.	345.	.001	
YM-41	345.	350.	.002	
YM-41	350.	355.	.018	
YM-41	355.	360.	.015	
YM-41	360.	365.	.015	
YM-41	365.	370.	.028	
YM-41	370.	375.	.005	
YM-41	375.	380.	.007	
YM-41	380.	385.	.015	
YM-41	385.	390.	.003	
YM-41	390.	395.	.001	
YM-41	395.	400.	.001	
YM-41	400.	405.	.TR	Screen 100%-150 Mesh
YM-41	405.	410.	Lost Bead (Refiring) 30% - 200 Mesh	
YM-41	410.	415.	.TR	
YM-41	415.	420.	.TR	
YM-41	420.	425.	.001	
YM-41	425.	430.	.002	
YM-41	430.	435.	.001	
YM-41	435.	440.	.TR	
YM-41	440.	445.	.001	
YM-41	445.	450.	.TR	
Fletcher Standard				
YM-41	17.	19.	.030	
YM-41	131.	133.	.008	
YM-41	251.	253.	.022	
YM-41	362.	364.	.007	
YM-42	0.	5.	.001	
YM-42	5.	10.	.008	
YM-42	10.	15.	.002	
YM-42	15.	20.	.008	
YM-42	20.	25.	.002	
YM-42	25.	30.	.003	
YM-42	30.	35.	.002	
YM-42	35.	40.	.002	
YM-42	40.	45.	.TR	100% 150 Mesh 25% 200 Mesh

YM-42	45.	50.	.001
YM-42	50.	55.	.003
YM-42	55.	60.	.001
YM-42	60.	65.	.NIL
YM-42	65.	70.	.NIL
YM-42	70.	75.	.001
YM-42	75.	80.	.016
YM-42	80.	85.	.038
YM-42	85.	90.	.002
YM-42	90.	95.	.001
YM-42	95.	100.	.TR
YM-42	100.	105.	.TR
YM-42	105.	110.	.001
YM-42	110.	115.	.011
YM-42	115.	120.	.036
YM-42	120.	125.	.027
YM-42	125.	130.	.003
YM-42	130.	135.	.001
YM-42	135.	140.	.001
YM-42	140.	145.	.TR
YM-42	145.	150.	.008
YM-42	150.	155.	.002
YM-42	155.	160.	.NIL
YM-42	160.	165.	.TR
YM-42	165.	170.	.016
YM-42	170.	175.	.013
YM-42	175.	180.	.002
YM-42	180.	185.	.003
YM-42	185.	190.	.002
YM-42	190.	195.	.001
YM-42	195.	200.	.TR
YM-42	200.	205.	.TR
YM-42	205.	210.	.001
YM-42	210.	215.	.002
YM-42	215.	220.	.001
YM-42	220.	225.	.002
YM-42	225.	230.	.002
YM-42	230.	235.	.003
YM-42	235.	240.	.003
YM-42	240.	245.	.002
YM-42	245.	250.	.002
YM-42	250.	255.	.001
YM-42	255.	260.	.TR
YM-42	260.	265.	.009
YM-42	265.	270.	.004
YM-42	270.	275.	.003
YM-42	275.	280.	.016
YM-42	280.	285.	.008
YM-42	285.	290.	.012
YM-42	290.	295.	.002
YM-42	295.	300.	.008
YM-42	300.	305.	.TR

YM-42	305.	310.	.TR
YM-42	310.	315.	.003
YM-42	315.	320.	.002
YM-42	320.	325.	.004
YM-42	325.	330.	.003
YM-42	330.	335.	.077
YM-42	335.	340.	.035
YM-42	340.	345.	.004
YM-42	345.	350.	.002
YM-42	350.	355.	.001
YM-42	355.	360.	.001
YM-42	360.	365.	.004
YM-42	365.	370.	.TR
YM-42	370.	375.	.001
YM-42	375.	380.	.001
YM-42	380.	385.	.001
YM-42	385.	390.	.TR
YM-42	395.	400.	Not Received.
YM-42	400.	405.	.TR
YM-42	405.	410.	.TR

Fletcher Standard

YM-42	11.	14.-A	.017
YM-42	96.	99.-B	Lost Refiring
YM-42	183.	184.-A	.025
YM-42	291.	293.	.008

YM-43	0.	5.	.008
YM-43	5.	10.	.017
YM-43	10.	15.	.007
YM-43	15.	20.	.007
YM-43	20.	25.	.003
YM-43	25.	30.	.002
YM-43	30.	35.	.015
YM-43	35.	40.	.006
YM-43	40.	45.	.003
YM-43	45.	50.	.007
YM-43	50.	55.	.003
YM-43	55.	60.	.002
YM-43	60.	65.	.001
YM-43	65.	70.	.028
YM-43	70.	75.	.121
YM-43	75.	80.	.069
YM-43	80.	85.	.032
YM-43	85.	90.	.003
YM-43	90.	95.	.007
YM-43	95.	100.	.TR
YM-43	100.	105.	.003 -100=100% -200=81%
YM-43	105.	110.	.002
YM-43	110.	115.	.NIL
YM-43	115.	120.	.TR
YM-43	120.	125.	.TR

YM-43	125.	130.	.TR
YM-43	130.	135.	.NIL
YM-43	135.	140.	.NIL

Fletcher Standard

YM-43	11.	13.-A	.024
YM-43	51.	54.-B	.007
YM-43	91.	94.-A	.022
YM-43	121.	124.-B	.007

YM-44	0.	5.	.027
YM-44	5.	10.	.TR
YM-44	10.	15.	.002
YM-44	15.	20.	.006
YM-44	20.	25.	.004
YM-44	25.	30.	.001
YM-44	30.	35.	.002
YM-44	35.	40.	.001
YM-44	40.	45.	.007
YM-44	45.	50.	.005
YM-44	50.	55.	.005
YM-44	55.	60.	.008
YM-44	60.	65.	.002
YM-44	65.	70.	.002
YM-44	70.	75.	.001
YM-44	75.	80.	.006
YM-44	80.	85.	.021
YM-44	85.	90.	.004
YM-44	90.	95.	.003
YM-44	95.	100.	.001
YM-44	100.	105.	.010
YM-44	105.	110.	.002
YM-44	110.	115.	.005
YM-44	115.	120.	.064
YM-44	120.	125.	Missing
YM-44	125.	130.	.009
YM-44	130.	135.	.012
YM-44	135.	140.	.012
YM-44	140.	145.	.028
YM-44	145.	150.	.002
YM-44	150.	155.	.028
YM-44	155.	160.	.008
YM-44	160.	165.	.007
YM-44	165.	170.	.070
YM-44	170.	175.	.041
YM-44	175.	180.	.058
YM-44	180.	185.	.051
YM-44	185.	190.	.038
YM-44	190.	195.	.014
YM-44	195.	200.	.026
YM-44	200.	205.	.012
YM-44	205.	210.	.014

YM-44	210.	215.	.016	
YM-44	215.	220.	.022	
YM-44	220.	225.	.018	
YM-44	225.	230.	.014	
YM-44	230.	235.	.009	
YM-44	235.	240.	.036	
YM-44	240.	245.	.025	
YM-44	245.	250.	.083	Screen -100=100% -200=78%
YM-44	250.	255.	.264	
YM-44	255.	260.	.260	
YM-44	260.	265.	.191	
YM-44	265.	270.	.009	
YM-44	270.	275.	.003	
YM-44	275.	280.	.005	
YM-44	280.	285.	.003	
YM-44	285.	290.	.001	
YM-44	290.	295.	.002	
YM-44	295.	300.	.001	
YM-44	300.	305.	.001	
YM-44	305.	310.	.NIL	

Fletcher Standard

YM-44	7.	9.-A	.022
YM-44	103.	104.-B	.008
YM-44	197.	199.-A	.025
YM-44	251.	254.-B	.008

YM-45	0.	5.	.017
YM-45	5.	10.	.002
YM-45	10.	15.	.001
YM-45	15.	20.	.012
YM-45	20.	25.	.002
YM-45	25.	30.	.004
YM-45	30.	35.	.TR
YM-45	35.	40.	.001
YM-45	40.	45.	.001
YM-45	45.	50.	.001
YM-45	50.	55.	.TR
YM-45	55.	60.	.TR
YM-45	60.	65.	.106
YM-45	65.	70.	.104
YM-45	70.	75.	.041
YM-45	75.	80.	.007
YM-45	80.	85.	.007
YM-45	85.	90.	.002
YM-45	90.	95.	.001
YM-45	95.	100.	.001
YM-45	100.	105.	.TR
YM-45	105.	110.	.001
YM-45	110.	115.	.TR
YM-45	115.	120.	.TR

Fletcher Standard

YM-45	21.	24.	.022
YM-45	92.	93.-B	.007
YM-46	0.	5.	.001
YM-46	5.	10.	TR
YM-46	10.	15.	TR
YM-46	15.	20.	.001
YM-46	20.	25.	TR
YM-46	25.	30.	TR
YM-46	30.	35.	.001
YM-46	35.	40.	.001
YM-46	40.	45.	TR
YM-46	45.	50.	NIL
YM-46	50.	55.	.005
YM-46	55.	60.	.006
YM-46	60.	65.	.001
YM-46	65.	70.	.001
YM-46	70.	75.	TR
YM-46	75.	80.	TR
YM-46	80.	85.	.001
YM-46	85.	90.	TR
YM-46	90.	95.	TR
YM-46	95.	100.	.002
YM-46	100.	105.	.001
YM-46	105.	110.	.001
YM-46	110.	115.	TR
YM-46	115.	120.	.002
YM-46	120.	125.	.002
YM-46	125.	130.	TR
YM-46	130.	135.	.001
YM-46	135.	140.	TR
YM-46	140.	145.	.003
YM-46	145.	150.	.001
YM-46	150.	155.	.002
YM-46	155.	160.	.005
YM-46	160.	165.	.006
YM-46	165.	170.	.003
YM-46	170.	175.	.005
YM-46	175.	180.	.004
YM-46	180.	185.	.004
YM-46	185.	190.	.005
YM-46	190.	195.	.003
YM-46	195.	200.	.002
YM-46	200.	205.	.010
YM-46	205.	210.	.008
YM-46	210.	215.	.017
YM-46	215.	220.	.020
YM-46	220.	225.	.010
YM-46	225.	230.	.006
YM-46	230.	235.	.003
YM-46	235.	240.	.007

YM-46	240.	245.	.015
YM-46	245.	250.	.015
YM-46	250.	255.	.011
YM-46	255.	260.	.018
YM-46	260.	265.	.008
YM-46	265.	270.	.010
YM-46	270.	275.	.007
YM-46	275.	280.	.011
YM-46	280.	285.	.005
YM-46	285.	290.	.015
YM-46	290.	295.	.005
YM-46	295.	300.	.003

Fletcher Standard

YM-46	0.	3.	.023
YM-46	91.	93.	.008
YM-46	157.	159.	.025
YM-46	291.	293.-B	.007

YM-47	0.	5.	.002
YM-47	5.	10.	.003
YM-47	10.	15.	.002
YM-47	15.	20.	.001
YM-47	20.	25.	.004
YM-47	25.	30.	.002
YM-47	30.	35.	.003
YM-47	35.	40.	.001
YM-47	40.	45.	.003
YM-47	45.	50.	.002
YM-47	55.	60.	.004
YM-47	60.	65.	.002
YM-47	65.	70.	.001
YM-47	70.	75.	.002
YM-47	75.	80.	.002
YM-47	80.	85.	.003
YM-47	85.	90.	.010
YM-47	90.	95.	.008
YM-47	95.	100.	.010
YM-47	100.	105.	.005
YM-47	105.	110.	.003
YM-47	110.	115.	.002
YM-47	115.	120.	.006
YM-47	120.	125.	.012
YM-47	125.	130.	.013
YM-47	130.	135.	.015
YM-47	135.	140.	.011
YM-47	140.	145.	.023
YM-47	145.	150.	.012
YM-47	150.	155.	.010
YM-47	155.	160.	.008
YM-47	160.	165.	.021
YM-47	165.	170.	.011

YM-47	170.	175.	.041
YM-47	175.	180.	.014
YM-47	180.	185.	.015
YM-47	185.	190.	.091
YM-47	190.	195.	.010
YM-47	195.	200.	.027
YM-47	200.	205.	.017
YM-47	205.	210.	.010
YM-47	210.	215.	.015
YM-47	215.	220.	.004
YM-47	220.	225.	.002
YM-47	225.	230.	.001
YM-47	230.	235.	.002
YM-47	235.	240.	.001
YM-47	240.	245.	.002
YM-47	245.	250.	.001
YM-47	250.	255.	TR
YM-47	255.	260.	TR
YM-47	260.	265.	TR
YM-47	265.	270.	.001
YM-47	270.	275.	.002
YM-47	275.	280.	.001
YM-47	280.	285.	.001
YM-47	285.	290.	TR
YM-47	290.	295.	TR
YM-47	295.	300.	.001
YM-47	300.	305.	.001
YM-47	305.	310.	.015
YM-47	310.	315.	.004
YM-47	315.	320.	.002
Fletcher Standard			
YM-47	1.	3.-A	.028
YM-47	101.	103.-B	.007
YM-47	201.	203.-A	.027
YM-48	0.	5.	.001
YM-48	5.	10.	TR
YM-48	10.	15.	.001
YM-48	15.	20.	TR
YM-48	20.	25.	.007
YM-48	25.	30.	.002
YM-48	30.	35.	.006
YM-48	35.	40.	.015
YM-48	40.	45.	.007
YM-48	45.	50.	.045
YM-48	50.	55.	.018
YM-48	55.	60.	.124
YM-48	60.	65.	.071
YM-48	65.	70.	.056
YM-48	70.	75.	.007
YM-48	75.	80.	.026

YM-48	80.	85.	.043
YM-48	85.	90.	.004
YM-48	90.	95.	.003
YM-48	95.	100.	.002
YM-48	100.	105.	.018
YM-48	105.	110.	.002
YM-48	110.	115.	.001
YM-48	115.	120.	.002
YM-48	120.	125.	.008
YM-48	125.	130.	.002
YM-48	130.	135.	NIL
YM-48	135.	140.	TR
YM-48	140.	145.	.001
YM-48	145.	150.	.001
YM-48	150.	155.	TR
YM-48	155.	160.	.004
YM-48	160.	165.	.003
YM-48	165.	170.	.001
YM-48	170.	175.	TR
YM-48	175.	180.	.003
YM-48	180.	185.	.002
YM-48	185.	190.	.002
YM-48	190.	195.	.001
YM-48	195.	200.	.001
YM-48	200.	205.	.003
YM-48	205.	210.	.002
YM-48	210.	215.	TR
YM-48	215.	220.	.001

Fletcher Standard

YM-48	17.	19.	.025
YM-48	121.	123.	.006
YM-48	207.	209.	.008

YM-49	0.	5.	.004
YM-49	5.	10.	.148
YM-49	10.	15.	.001
YM-49	15.	20.	.001
YM-49	20.	25.	.001
YM-49	25.	30.	TR
YM-49	30.	35.	.001
YM-49	35.	40.	.002
YM-49	40.	45.	.001
YM-49	45.	50.	.001
YM-49	50.	55.	.003
YM-49	55.	60.	TR
YM-49	60.	65.	TR
YM-49	65.	70.	TR
YM-49	70.	75.	TR
YM-49	75.	80.	.001
YM-49	80.	85.	.001
YM-49	85.	90.	.001

YM-49	90.	95.	TR		
YM-49	95.	100.	TR		
YM-49	100.	105.	TR		
YM-49	105.	110.	TR		
YM-49	110.	115.	.002		
YM-49	115.	120.	.005		
YM-49	120.	125.	.008		
YM-49	125.	130.	.016		
YM-49	130.	135.	.006		
YM-49	135.	140.	.018		
YM-49	140.	145.	.048		
YM-49	145.	150.	.048		
YM-49	150.	155.	.044		
YM-49	155.	160.	.054		
YM-49	160.	165.	.013		
YM-49	165.	170.	.004		
YM-49	170.	175.	.011		
YM-49	175.	180.	.004		
YM-49	180.	185.	.004		
YM-49	185.	190.	.005		
YM-49	190.	195.	.007		
YM-49	195.	200.	.002		
YM-49	200.	205.	.006		
YM-49	205.	210.	.008		
YM-49	210.	215.	.003		
YM-49	215.	220.	.002		
Fletcher Standard					
YM-49	0.	4.	.023		
YM-49	101.	103.	.008		
YM-49	201.	203.	.025		
					Reassay
YM-50	0.	5.	.053		0.061
YM-50	5.	10.	.081		.092
YM-50	10.	15.	.128		.119
YM-50	15.	20.	.016		008
YM-50	20.	25.	.010		006
YM-50	25.	30.	.009		009
YM-50	30.	35.	.008		005
YM-50	35.	40.	.008		015
YM-50	40.	45.	.029	0.197	
YM-50	45.	50.	.275	Refiring	
YM-50	50.	55.	.011		
YM-50	55.	60.	.080	0.003	
YM-50	60.	65.	.002	Refiring	
YM-50	65.	70.	.081		
YM-50	70.	75.	.018		
YM-50	75.	80.	.102		
YM-50	80.	85.	.173		
Fletcher Standard					
YM-50	1.	3.	.023		

0.064

YM-50	71.	73.B	.004	
Refire				
YM-50	45.	50.	.197	
YM-50	60.	65.	.003	
Reassays of YM-50				
YM-50	0.	5.	.061	
YM-50	5.	10.	.092	
YM-50	10.	15.	.119	
YM-50	15.	20.	.008	
YM-50	20.	25.	.006	
YM-50	25.	30.	.009	
YM-50	30.	35.	.005	
YM-50	35.	40.	.015	
YM-50	40.	45.	.017	
YM-50	45.	50.	.288	Refiring
YM-50	50.	55.	.011	
YM-50	55.	60.	.062	
YM-50	60.	65.	.003	
YM-50	65.	70.	.146	
YM-50	70.	75.	.011	
YM-50	75.	80.	.168	
YM-50	80.	85.	.108	
Fletcher Standard				
YM-50	46.	47.	.004	
YM-51	0.	5.	.003	
YM-51	5.	10.	TR	
YM-51	10.	15.	.002	
YM-51	15.	20.	TR	
YM-51	20.	25.	.001	
YM-51	25.	30.	TR	
YM-51	30.	35.	TR	
YM-51	35.	40.	TR	
YM-51	40.	45.	.001	
YM-51	45.	50.	TR	
YM-51	50.	55.	TR	
YM-51	55.	60.	.001	
YM-51	60.	65.	.001	
YM-51	65.	70.	.001	
YM-51	70.	75.	.002	
YM-51	75.	80.	.002	
YM-51	80.	85.	.001	
YM-51	85.	90.	.001	
YM-51	90.	95.	TR	
YM-51	95.	100.	.008	
YM-51	100.	105.	.010	
YM-51	105.	110.	TR	
YM-51	110.	115.	TR	
YM-51	115.	120.	TR	

YM-50	71.	73.B	.004

Refire

YM-50	45.	50.	.197
YM-50	60.	65.	.003

Re-assays of YM-50

YM-50	0.	5.	.061
YM-50	5.	10.	.092
YM-50	10.	15.	.119
YM-50	15.	20.	.008
YM-50	20.	25.	.006
YM-50	25.	30.	.009
YM-50	30.	35.	.005
YM-50	35.	40.	.015

see collated sheet 50 w 40-85 sample on previous sheet 50

YM-51	0.	5.	.003
YM-51	5.	10.	TR
YM-51	10.	15.	.002
YM-51	15.	20.	TR
YM-51	20.	25.	.001
YM-51	25.	30.	TR
YM-51	30.	35.	TR
YM-51	35.	40.	TR
YM-51	40.	45.	.001
YM-51	45.	50.	TR
YM-51	50.	55.	TR
YM-51	55.	60.	.001
YM-51	60.	65.	.001
YM-51	65.	70.	.001
YM-51	70.	75.	.002
YM-51	75.	80.	.002
YM-51	80.	85.	.001
YM-51	85.	90.	.001
YM-51	90.	95.	TR
YM-51	95.	100.	.008
YM-51	100.	105.	.010
YM-51	105.	110.	TR
YM-51	110.	115.	TR
YM-51	115.	120.	TR
YM-51	120.	125.	.004
YM-51	125.	130.	.020
YM-51	130.	135.	.012
YM-51	135.	140.	.004
YM-51	140.	145.	.001
YM-51	145.	150.	.003
YM-51	150.	155.	.002
YM-51	155.	160.	.001
YM-51	160.	165.	TR
YM-51	165.	170.	.061
YM-51	170.	175.	.002
YM-51	175.	180.	.006

continued from previous sheet 50

YM-51	180.	185.	TR
YM-51	185.	190.	.007
YM-51	190.	195.	.011
YM-51	195.	200.	.005
YM-51	200.	205.	.007
YM-51	205.	210.	.004
YM-51	210.	215.	.001
YM-51	215.	220.	.020
YM-51	220.	225.	TR
YM-51	225.	230.	.001
YM-51	230.	235.	.002
YM-51	235.	240.	TR

Fletcher Standard

YM-51	0.	3.	.030
YM-51	101.	103.	.008
YM-51	201.	203.	.025
YM-51	241.	243.	.008

YM-52	0.	5.	.002
YM-52	5.	10.	.001
YM-52	10.	15.	.003
YM-52	15.	20.	.003
YM-52	20.	25.	.021
YM-52	25.	30.	.007
YM-52	30.	35.	.002
YM-52	35.	40.	.001
YM-52	40.	45.	.012
YM-52	45.	50.	.003
YM-52	50.	55.	.012
YM-52	55.	60.	.033
YM-52	60.	65.	.092
YM-52	65.	70.	.091
YM-52	70.	75.	.015
YM-52	75.	80.	.012
YM-52	80.	85.	.002
YM-52	85.	90.	.002
YM-52	90.	95.	.004
YM-52	95.	100.	.003
YM-52	100.	105.	TR
YM-52	105.	110.	.002
YM-52	110.	115.	.002
YM-52	115.	120.	.001
YM-52	120.	125.	.004
YM-52	125.	130.	.009
YM-52	130.	135.	.011
YM-52	135.	140.	.002
YM-52	140.	145.	TR
YM-52	145.	150.	TR
YM-52	150.	155.	.003
YM-52	155.	160.	TR
YM-52	160.	165.	.014

YM-52	165.	170.	.005
YM-52	170.	175.	.009
YM-52	175.	180.	.002
YM-52	180.	185.	.005
YM-52	185.	190.	.001
YM-52	190.	195.	TR
YM-52	195.	200.	.001

Fletcher Standard

YM-52	43.	47.	.019
YM-52	101.	103.	.007
YM-52	171.	173.	.022

YM-53	0.	5.	.014
YM-53	5.	10.	.002
YM-53	10.	15.	.001
YM-53	15.	20.	.001
YM-53	20.	25.	TR
YM-53	25.	30.	NIL
YM-53	30.	35.	TR
YM-53	35.	40.	TR
YM-53	40.	45.	.007
YM-53	45.	50.	TR
YM-53	50.	55.	.025
YM-53	55.	60.	.003
YM-53	60.	65.	.007
YM-53	65.	70.	.039
YM-53	70.	75.	.126
YM-53	75.	80.	.025
YM-53	80.	85.	.018
YM-53	85.	90.	TR
YM-53	90.	95.	.039
YM-53	95.	100.	.108
YM-53	100.	105.	.044
YM-53	105.	110.	.013
YM-53	110.	115.	.005
YM-53	115.	120.	.027
YM-53	120.	125.	.034
YM-53	125.	130.	.026
YM-53	130.	135.	.008
YM-53	135.	140.	.031
YM-53	140.	145.	.003
YM-53	145.	150.	.001

Fletcher Standard

YM-53	1.	3.	.025
YM-53	51.	53.	.008
YM-53	101.	103.	.008

YM-54	0.	5.	.058
YM-54	5.	10.	.024

YM-54	10.	15.	.003
YM-54	15.	20.	.001
YM-54	20.	25.	.003
YM-54	25.	30.	.003
YM-54	30.	35.	TR
YM-54	35.	40.	.001
YM-54	40.	45.	.001
YM-54	45.	50.	.008
YM-54	50.	55.	.007
YM-54	55.	60.	.028
YM-54	60.	65.	.008
YM-54	65.	70.	.061
YM-54	70.	75.	.012
YM-54	75.	80.	.008
YM-54	80.	85.	.008
YM-54	85.	90.	.009
YM-54	90.	95.	.021
YM-54	95.	100.	.008
YM-54	100.	105.	.005
YM-54	105.	110.	.004
YM-54	110.	115.	.021
YM-54	115.	120.	.005
YM-54	120.	125.	.012
YM-54	125.	130.	.003
YM-54	130.	135.	.004
YM-54	135.	140.	.003
YM-54	140.	145.	.002
YM-54	145.	150.	.002
YM-54	150.	155.	.009
YM-54	155.	160.	.016
YM-54	160.	165.	.002
YM-54	165.	170.	.008
YM-54	170.	175.	.002
YM-54	175.	180.	.012
YM-54	180.	185.	.042
YM-54	185.	190.	.023
YM-54	190.	195.	.002
YM-54	195.	200.	.036
YM-54	200.	205.	.016
YM-54	205.	210.	.024
YM-54	210.	215.	.041
YM-54	215.	220.	.054
YM-54	220.	225.	.040
YM-54	225.	230.	.047
YM-54	230.	235.	.139
YM-54	235.	240.	.148
YM-54	240.	245.	.195
YM-54	245.	250.	.052
YM-54	250.	255.	.030
YM-54	255.	260.	.027
YM-54	260.	265.	.028
YM-54	265.	270.	.021

YM-54	270.	275.	TR
YM-54	275.	280.	.003
YM-54	280.	285.	.002
YM-54	285.	290.	.059
YM-54	290.	295.	.008
YM-54	295.	300.	.001
YM-54	300.	305.	.002
YM-54	305.	310.	.002
YM-54	310.	315.	.003
YM-54	315.	320.	.007
YM-54	320.	325.	.014
YM-54	325.	330.	.003
YM-54	330.	335.	.008
YM-54	335.	340.	.028

Fletcher Standard

YM-54	1.	3.	Lost Bead Refiring
YM-54	101.	107.	.008
YM-54	201.	203.	.022

Refire

YM-54	1.	3.	.024
YM-54	245.	250.	99.5% Passed 200 Mesh

YM-55	0.	5.	.023
YM-55	5.	10.	.008
YM-55	10.	15.	.003
YM-55	15.	20.	.007
YM-55	20.	25.	.007
YM-55	25.	30.	.014
YM-55	30.	35.	.027
YM-55	35.	40.	.003
YM-55	40.	45.	.008
YM-55	45.	50.	.029
YM-55	50.	55.	.004
YM-55	55.	60.	.004
YM-55	60.	65.	.004
YM-55	65.	70.	.013
YM-55	70.	75.	.025
YM-55	75.	80.	.053
YM-55	80.	85.	.011
YM-55	85.	90.	.016
YM-55	90.	95.	.015
YM-55	95.	100.	.021
YM-55	100.	105.	.009
YM-55	105.	110.	.023
YM-55	110.	115.	.046
YM-55	115.	120.	.075
YM-55	120.	125.	.045
YM-55	125.	130.	.008
YM-55	130.	135.	.023
YM-55	135.	140.	.142

YM-55	140.	145.	.181 97% Passed 200 Mesh
YM-55	145.	150.	.101
YM-55	150.	155.	No Sample Stope
YM-55	155.	160.	No Sample Stope
YM-55	160.	165.	No Sample Stope
YM-55	165.	170.	.015
YM-55	170.	175.	.009
YM-55	175.	180.	.043
YM-55	180.	185.	.035
YM-55	185.	190.	.018
YM-55	190.	195.	.012
YM-55	195.	200.	.014
YM-55	200.	205.	.008
YM-55	205.	210.	.002
YM-55	210.	215.	.002
YM-55	215.	220.	.001

Fletcher Standard

YM-55	1.	3.	.022
YM-55	101.	103.	.006
YM-55	201.	203.	.022

YM-56	0.	5.	.015
YM-56	5.	10.	.010
YM-56	10.	15.	.002
YM-56	15.	20.	.008
YM-56	20.	25.	.003
YM-56	25.	30.	.015
YM-56	30.	35.	.003
YM-56	35.	40.	.016
YM-56	40.	45.	.032
YM-56	45.	50.	.002
YM-56	50.	55.	.007
YM-56	55.	60.	.003
YM-56	60.	65.	.002
YM-56	65.	70.	.005
YM-56	70.	75.	.083
YM-56	75.	80.	.028
YM-56	80.	85.	.027
YM-56	85.	90.	.105
YM-56	90.	95.	.105
YM-56	95.	100.	.128
YM-56	100.	105.	.095
YM-56	105.	110.	.015
YM-56	110.	115.	.008
YM-56	115.	120.	.008 99.7% Passed 200 Mesh
YM-56	120.	125.	.021
YM-56	125.	130.	.005
YM-56	130.	135.	.002
YM-56	135.	140.	.002
YM-56	140.	145.	.005
YM-56	145.	150.	.002

YM-56	150.	155.	.001
YM-56	155.	160.	.002
YM-56	160.	165.	.004
YM-56	165.	170.	.010
YM-56	170.	175.	.002
YM-56	175.	180.	.001
Fletcher Standard			
YM-56	27.	29.	.022
YM-56	137.	139.	.022
YM-57	0.	5.	.008
YM-57	5.	10.	.015
YM-57	10.	15.	.009
YM-57	15.	20.	.027
YM-57	20.	25.	.035
YM-57	25.	30.	.013
YM-57	30.	35.	.025
YM-57	35.	40.	.037
YM-57	40.	45.	.083
YM-57	45.	50.	.014
YM-57	50.	55.	No Sample
YM-57	55.	60.	No Sample
YM-57	65.	70.	.018
YM-57	70.	75.	.005
YM-57	75.	80.	.002
YM-57	80.	85.	.002
YM-57	85.	90.	.003
YM-57	90.	95.	.003
YM-57	95.	100.	.003
YM-57	100.	105.	.002
YM-57	105.	110.	.001
YM-57	110.	115.	.001
YM-57	115.	120.	.006
Fletcher Standard			
YM-57	21.	23.	.021
YM-57	61.	65.	.034
YM-57	91.	93.	.007
YM-58	0.	5.	.040
YM-58	5.	10.	.022
YM-58	10.	15.	.055
YM-58	15.	20.	.018
YM-58	20.	25.	.009
YM-58	25.	30.	.004
YM-58	30.	35.	.020
YM-58	35.	40.	.004
YM-58	40.	45.	.001
YM-58	45.	50.	.001
YM-58	50.	55.	.002
YM-58	55.	60.	.001

YM-57	61.	65.	.034
YM-57	91.	93.	.007
YM-58	0.	5.	.040
YM-58	5.	10.	.022
YM-58	10.	15.	.055
YM-58	15.	20.	.018
YM-58	20.	25.	.009
YM-58	25.	30.	.004
YM-58	30.	35.	.020
YM-58	35.	40.	.004
YM-58	40.	45.	.001
YM-58	45.	50.	.001
YM-58	50.	55.	.002
YM-58	55.	60.	.001
YM-58	60.	65.	.001
YM-58	65.	70.	TR
YM-58	70.	75.	.001
YM-58	75.	80.	.004
YM-58	80.	85.	.003
YM-58	85.	90.	.003
Fletcher Standard			
YM-58	11.	13.	.007
YM-58	81.	83.	.007
YM-59	0.	5.	.010
YM-59	5.	10.	.006
YM-59	10.	15.	.031
YM-59	15.	20.	.002
YM-59	20.	25.	.007
YM-59	25.	30.	.024
YM-59	30.	35.	.004
YM-59	35.	40.	.003
YM-59	40.	45.	.002
YM-59	45.	50.	.004
YM-59	50.	55.	.041
YM-59	55.	60.	.046
YM-59	60.	65.	.030
YM-59	65.	70.	.005
YM-59	70.	75.	.034
YM-59	75.	80.	.022
YM-59	80.	85.	.009
YM-59	85.	90.	.048
YM-59	90.	95.	.062
YM-59	95.	100.	.025
YM-59	100.	105.	.003
YM-59	105.	110.	.003
YM-59	110.	115.	.002
YM-59	115.	120.	.008
YM-59	120.	125.	.001
YM-59	125.	130.	.003

next three also

YM-59	70.	75.	.034
YM-59	75.	80.	.022
YM-59	80.	85.	.009
YM-59	85.	90.	.048
YM-59	90.	95.	.062
YM-59	95.	100.	.025
YM-59	100.	105.	.003
YM-59	105.	110.	.003
YM-59	110.	115.	.002
YM-59	115.	120.	.008
YM-59	120.	125.	.001
YM-59	125.	130.	.003
YM-59	130.	135.	.001
YM-59	135.	140.	.001
YM-59	140.	145.	TR
YM-59	145.	150.	NIL
YM-59	150.	155.	.007
YM-59	155.	160.	.002
YM-59	160.	165.	.001
YM-59	165.	170.	.001
YM-59	170.	175.	.001
YM-59	175.	180.	TR
Fletcher Standard			
YM-59	7.	9.	.004
YM-59	81.	83.	.004
YM-60	0.	5.	.005
YM-60	5.	10.	.003
YM-60	10.	15.	.005
YM-60	20.	25.	.003
YM-60	25.	30.	.003
YM-60	30.	35.	.003
YM-60	35.	40.	.001
YM-60	40.	45.	.001
YM-60	45.	50.	.002
YM-60	50.	55.	.001
YM-60	55.	60.	TR
YM-60	60.	65.	TR
YM-60	65.	70.	.001
YM-60	70.	75.	.001
YM-60	75.	80.	.001
YM-60	80.	85.	.002
YM-60	85.	90.	.002
YM-60	90.	95.	.001
YM-60	95.	100.	.002
YM-60	100.	105.	.001
YM-60	105.	110.	.003
Fletcher Standard			
YM-60	7.	9.	.016
YM-60	81.	83.	.004

YM-61	0.	5.	.004
YM-61	5.	10.	.010
YM-61	10.	15.	.005
YM-61	15.	20.	.034
YM-61	20.	25.	.013
YM-61	25.	30.	.010
YM-61	30.	35.	.031
YM-61	35.	40.	.010
YM-61	40.	45.	.004
YM-61	45.	50.	.002
YM-61	50.	55.	.002
YM-61	55.	60	.007
YM-61	60.	65.	.002
YM-61	65.	70.	.003
YM-61	70.	75.	.008
YM-61	75.	80.	.011
YM-61	80.	85.	.087
YM-61	85.	90.	.008
YM-61	90.	95.	.023
YM-61	95.	100	.026
YM-61	100.	105.	.008
YM-61	105.	110.	.022
YM-61	110.	115.	.049
YM-61	115.	120.	.061
YM-61	120.	125.	.009
YM-61	125.	130.	.021
YM-61	130.	135.	.012
YM-61	135.	140.	.080
YM-61	140.	145.	.023
YM-61	145.	150.	.055
YM-61	150.	155.	.002
YM-61	155.	160.	.019
YM-61	160.	165.	.129
YM-61	165.	170.	.045
YM-61	170.	175.	.047
YM-61	175.	180.	
YM-61	180.	185.	
YM-61	185.	190.	
YM-61	190.	195.	.023
YM-61	195.	200.	.021
YM-61	200.	205.	.002
YM-61	205.	210.	.005
YM-61	210.	215.	.007
YM-61	215.	220.	.032
YM-61	220.	225.	.007
YM-61	225.	230.	.007
YM-61	230.	235.	.002
YM-61	235.	240.	.003
YM-61	240.	245.	.007
YM-61	245.	250.	.009

Fletcher Standard

YM-61	21.	23.	.004
YM-61	121.	123.	.004
YM-61	191.	193.	.016
YM-61	221.	223.	.010
YM-62	0.	5.	.003
YM-62	5.	10.	.001
YM-62	10.	15.	.002
YM-62	15.	20.	.007
YM-62	20.	25.	.010
YM-62	25.	30.	.003
YM-62	30.	35.	.002
YM-62	35.	40.	TR
YM-62	40.	45.	TR
YM-62	45.	50.	.021
YM-62	50.	55.	.037
YM-62	55.	60.	.007
YM-62	60.	65.	.015
YM-62	65.	70.	.005
YM-62	70.	75.	.002
YM-62	75.	80.	.001
YM-62	80.	85.	.001
YM-62	85.	90.	.005
YM-62	90.	95.	.003
YM-62	95.	100.	.001
YM-62	100.	105.	.004
YM-62	105.	110.	.001
YM-62	110.	115.	.003
YM-62	115.	120.	.012
YM-62	120.	125.	.018
YM-62	125.	130.	.016
YM-62	130.	135.	.014
YM-62	135.	140.	.027
YM-62	140.	145.	.035
YM-62	145.	150.	.017
YM-62	150.	155.	.002
YM-62	155.	160.	.002
YM-62	160.	165.	.010
YM-62	165.	170.	.016
YM-62	170.	175.	.030
YM-62	175.	180.	.007
YM-62	180.	185.	.011
YM-62	185.	190.	.003
YM-62	190.	195.	.056
YM-62	195.	200.	.038
YM-62	200.	205.	.013
YM-62	205.	210.	.007
YM-62	210.	215.	.058
YM-62	215.	220.	.040
YM-62	220.	225.	.049
YM-62	225.	230.	.031

YM-62	230.	235.	.013
YM-62	235.	240.	.048
YM-62	240.	245.	.021
YM-62	245.	250.	.099
YM-62	250.	290.	No Sample
YM-62	290.	295.	No Return
YM-62	295.	300.	.003
YM-62	300.	305.	.002
YM-62	305.	310.	.003
YM-62	310.	315.	.006
YM-62	315.	320.	.052
YM-63	0.	5.	.002
YM-63	5.	10.	.001
YM-63	10.	15.	.057
YM-63	15.	20.	.003
YM-63	20.	25.	.004
YM-63	25.	30.	.038
YM-63	30.	35.	.002
YM-63	35.	40.	.005
YM-63	40.	45.	.004
YM-63	45.	50.	.005
YM-63	50.	55.	.002
YM-63	55.	60.	.015
YM-63	60.	65.	.011
YM-63	65.	70.	.042
YM-63	70.	75.	.005
YM-63	75.	80.	.002
YM-63	80.	85.	.014
YM-63	85.	90.	.004
YM-63	90.	95.	.005
YM-63	95.	100.	.003
YM-63	100.	105.	.010
YM-63	105.	110.	.004
YM-63	110.	115.	.001
YM-63	115.	120.	.009
YM-63	120.	125.	.009
YM-63	125.	130.	.015
YM-63	130.	135.	.019
YM-63	135.	140.	.011
YM-63	140.	145.	.073
YM-63	145.	150.	.016
YM-63	150.	155.	.118
YM-63	155.	160.	.045 Fines Alone
YM-63	155.	160.	.041
YM-63	160.	165.	.024
YM-63	165.	170.	.033
YM-63	170.	175.	.048
YM-63	175.	180.	.018
YM-63	180.	185.	.137
YM-63	185.	190.	.100
YM-63	190.	195.	.203

YM-63	195.	200.	.200
YM-63	200.	205.	.116
YM-63	205.	210.	.093
YM-63	210.	215.	.191
YM-63	215.	220.	.030
YM-63	220.	225.	.078
YM-63	225.	230.	.016
YM-63	230.	235.	.015
YM-63	235.	240.	.071
Fletcher Standard			
YM-63	11.	13.	.033
YM-63	111.	113.-B	.015
YM-63	211.	213.	.020
Refire			
YM-63	235.	240.	.062
YM-64	0.	5.	.009
YM-64	5.	10.	.004
YM-64	10.	15.	.004
YM-64	15.	20.	.018
YM-64	20.	25.	.011
YM-64	25.	30.	.008
YM-64	30.	35.	.014
YM-64	35.	40.	.004
YM-64	40.	45.	.007
YM-64	45.	50.	.006
YM-64	50.	55.	.054
YM-64	55.	60.	.057
YM-64	60.	65.	.007
YM-64	65.	70.	.021
YM-64	70.	75.	.022
YM-64	75.	80.	.029
YM-64	80.	85.	.022
YM-64	85.	90.	.015
YM-64	90.	95.	.017
YM-64	95.	100.	.027
YM-64	100.	105.	.016
YM-64	105.	110.	.014
YM-64	110.	115.	.159
YM-64	115.	120.	.070
YM-64	120.	125.	.040
YM-64	125.	130.	.027
YM-64	130.	135.	.020
YM-64	135.	140.	.038
YM-64	140.	145.	.016
YM-64	145.	150.	.005
YM-64	150.	155.	.008
YM-64	155.	160.	.008
YM-64	160.	165.	.004
YM-64	165.	170.	.002

YM-64	170.	175.	.006
YM-64	175.	180.	.001
YM-64	180.	185.	.011
YM-64	185.	190.	.018
YM-64	195.	200.	.005
Fletcher Standard			
YM-64	21.	23.	.024
YM-64	101.	103.	.009
YM-64	151.	153.	.022
YM-64	181.	183.	.008
Refire			
YM-64	190.	195.	.023
YM-65	0.	5.	.091
YM-65	5.	10.	.030
YM-65	10.	15.	.030
YM-65	15.	20.	.037
YM-65	20.	25.	.069
YM-65	25.	30.	.112
YM-65	30.	35.	.051
YM-65	35.	40.	.004
YM-65	40.	45.	.011
YM-65	45.	50.	.057
YM-65	50.	55.	.005
YM-65	55.	60.	.007
YM-65	60.	65.	.009
YM-65	65.	70.	.004
YM-65	70.	75.	.003
YM-65	75.	80.	.004
YM-65	80.	85.	.004
YM-65	85.	90.	.005
YM-65	90.	95.	.008
YM-65	95.	100.	.004
YM-65	100.	105.	.003
YM-65	105.	110.	.003
YM-65	110.	115.	.002
YM-65	115.	120.	.002
YM-65	120.	125.	.004
YM-65	125.	130.	.003
YM-65	130.	135.	.003
Fletcher Standard			
YM-65	11.	13.	.021
YM-65	51.	53.	.020
YM-65	101.	103.	.004
YM-66	0.	5.	.004
YM-66	5.	10.	.003
YM-66	10.	15.	.004
YM-66	15.	20.	.003

YM-66	20.	25.	.002
YM-66	25.	30.	.001
YM-66	30.	35.	.002
YM-66	35.	40.	.001
YM-66	40.	45.	TR
YM-66	45.	50.	.002
YM-66	50.	55.	.001
YM-66	55.	60.	.003
Fletcher Standard			
YM-66	21.	23.	.024
YM-66	41.	43.	.007
YM-67	0.	5.	.013
YM-67	5.	10.	.062
YM-67	10.	15.	.090
YM-67	15.	20.	.057
YM-67	20.	25.	.110
YM-67	25.	30.	.061
YM-67	30.	35.	.012
YM-67	35.	40.	.003
YM-67	40.	45.	.029
YM-67	45.	50.	.044
YM-67	50.	55.	.008
YM-67	55.	60.	.001
YM-67	60.	65.	.027
YM-67	65.	70.	.001
YM-67	70.	75.	.002
YM-67	75.	80.	.002
YM-67	80.	85.	.001
YM-67	85.	90.	.002
Fletcher Standard			
YM-67	21.	23.	.007
YM-67	71.	73.	.007
YM-68	0.	5.	.003
YM-68	10.	15.	.001
YM-68	15.	20.	.002
YM-68	20.	25.	TR
YM-68	25.	30.	.001
YM-68	30.	35.	TR
YM-68	35.	40.	TR
YM-68	40.	45.	.002
YM-68	45.	50.	.002
YM-68	50.	55.	TR
YM-68	55.	60.	.005
YM-68	60.	65.	.001
YM-68	65.	70.	TR
YM-68	70.	75.	.002
YM-68	75.	80.	.001
YM-68	80.	85.	.002

YM-68	85.	90.	.002
YM-68	90.	95.	.001
YM-68	95.	100.	.003
YM-68	100.	105.	.002
YM-68	105.	110.	.003
YM-68	110.	115.	.002
YM-68	115.	120.	.003
YM-68	120.	125.	.001
YM-68	125.	130.	.001

Fletcher Standard

YM-68	21.	23.	.022
YM-68	71.	73.	.008
YM-68	121.	123.	.007

YM-69	0.	5.	.002
YM-69	5.	10.	.002
YM-69	10.	15.	.002
YM-69	15.	20.	.007
YM-69	20.	25.	Lost Bead
YM-69	25.	30.	.003
YM-69	30.	35.	.002
YM-69	35.	40.	TR
YM-69	40.	45.	.003
YM-69	45.	50.	.002
YM-69	50.	55.	.002
YM-69	55.	60.	.001
YM-69	60.	65.	.002
YM-69	65.	70.	.010
YM-69	70.	75.	.008
YM-69	75.	80.	.002
YM-69	80.	85.	.009
YM-69	85.	90.	.002
YM-69	90.	95.	.012
YM-69	95.	100.	.001
YM-69	100.	105.	.001
YM-69	105.	110.	.011
YM-69	110.	115.	.002
YM-69	115.	120.	.008
YM-69	120.	125.	.007
YM-69	125.	130.	.003
YM-69	130.	135.	.002
YM-69	135.	140.	.003
YM-69	140.	145.	.002
YM-69	145.	150.	.004
YM-69	150.	155.	.001
YM-69	155.	160.	.003
YM-69	160.	165.	.002
YM-69	165.	170.	.002
YM-69	170.	175.	.002
YM-69	175.	180.	.003
YM-69	180.	185.	.005

YM-69	185.	190.	.014
YM-69	190.	195.	.019
YM-69	195.	200.	.014
YM-69	200.	205.	.004
YM-69	205.	210.	.028
YM-69	210.	215.	.003
YM-69	215.	220.	.008
YM-69	220.	225.	.005
YM-69	225.	230.	.011
YM-69	230.	235.	.016
YM-69	235.	240.	.015
YM-69	240.	245.	.004
YM-69	245.	250.	.004
YM-69	250.	255.	.077
YM-69	255.	260.	.064
YM-69	260.	265.	.063
YM-69	265.	270.	.162
YM-69	270.	275.	.015
YM-69	275.	280.	.032
YM-69	280.	285.	.012
YM-69	285.	290.	.015
YM-69	290.	295.	.017
YM-69	295.	300.	.009
YM-69	300.	305.	.006
YM-69	305.	310.	.008
YM-69	310.	315.	.011
YM-69	315.	320.	.002
YM-69	320.	325.	.002
YM-69	325.	330.	.004
YM-69	330.	335.	.003
YM-69	335.	340.	.002
YM-69	340.	345.	.002
YM-69	345.	350.	.004
YM-69	350.	355.	.002
YM-69	355.	360.	.004
YM-69	360.	365.	.002
YM-69	365.	370.	.008
YM-69	370.	375.	.002
YM-69	375.	380.	.002
YM-69	380.	385.	.001
YM-69	385.	390.	.003
YM-69	390.	395.	.007
YM-69	395.	400.	.003

Fletcher Standard

YM-69	21.	23.	.060
YM-69	76.	79.	.010
YM-69	171.	174.	.025
YM-69	271.	274.	.007
YM-69	371.	373.	.008

Refires

YM-69	20.	25.	.012

Refire Fletcher Standard

YM-69	21.	23.	.057

YM-70	0.	5.	.008
YM-70	5.	10.	.003
YM-70	10.	15.	.005
YM-70	15.	20.	.003
YM-70	20.	25.	.011
YM-70	25.	30.	.007
YM-70	30.	35.	.003
YM-70	35.	40.	.002
YM-70	40.	45.	.006
YM-70	45.	50.	.012
YM-70	50.	55.	.006
YM-70	55.	60.	.005
YM-70	60.	65.	.022
YM-70	65.	70.	.002
YM-70	70.	75.	.007
YM-70	75.	80.	.010
YM-70	80.	85.	.017
YM-70	85.	90.	.011
YM-70	90.	95.	.006
YM-70	95.	100.	.041
YM-70	100.	105.	.015
YM-70	105.	110.	.030
YM-70	110.	115.	.004
YM-70	115.	120.	.068
YM-70	120.	125.	.031
YM-70	125.	130.	.017
YM-70	130.	135.	.045
YM-70	135.	140.	.007
YM-70	140.	145.	.003
YM-70	145.	150.	.007
YM-70	150.	155.	.010
YM-70	155.	160.	.004
YM-70	160.	165.	.001
YM-70	165.	170.	.002
YM-70	170.	175.	.002
YM-70	175.	180.	.003
YM-70	180.	185.	.002
YM-70	185.	190.	.003

Fletcher Standard

YM-70	21.	24.	.021
YM-70	121.	124.	.006
YM-70	161.	164.	.022

YM-71	0.	5.	.005
YM-71	5.	10.	.006

YM-71	10.	15.	.003
YM-71	15.	20.	.008
YM-71	20.	25.	.014
YM-71	25.	30.	.004
YM-71	30.	35.	.005
YM-71	35.	40.	.007
YM-71	40.	45.	.011
YM-71	45.	50.	.085
YM-71	50.	55.	.023
YM-71	55.	60.	.057
YM-71	60.	65.	.016
YM-71	65.	70.	.038
YM-71	70.	75.	.036
YM-71	75.	80.	.044
YM-71	80.	85.	.013
YM-71	85.	90.	1.024
YM-71	90.	95.	.292
YM-71	95.	100.	.073
YM-71	100.	105.	.035
YM-71	105.	110.	.052
YM-71	110.	115.	.011
YM-71	115.	120.	.010
YM-71	120.	125.	.018
YM-71	125.	130.	.025
YM-71	130.	135.	.005
YM-71	135.	140.	.011
YM-71	140.	145.	.008
YM-71	145.	150.	.009
YM-71	150.	155.	.022
YM-71	155.	160.	.003
Fletcher Standard			
YM-71	21.	24.	.022
YM-71	71.	73.	.005
YM-71	121.	123.	.022
Refires			
YM-71	85.	90.	.943
YM-72	0.	5.	.029
YM-72	5.	10.	.014
YM-72	10.	15.	.021
YM-72	15.	20.	.049
YM-72	20.	25.	.271
YM-72	25.	30.	.062
YM-72	30.	35.	.143
YM-72	35.	40.	.007
YM-72	40.	45.	.005
YM-72	45.	50.	.005
YM-72	50.	55.	.008
YM-72	55.	60.	.005
YM-72	60.	65.	.018

YM-72	65.	70.	.008
YM-72	70.	75.	.003
YM-72	75.	80.	.004
YM-72	80.	85.	.002
YM-72	85.	90.	.002
YM-72	90.	95.	.002
YM-72	95.	100.	.001
YM-72	100.	105.	.002
YM-72	105.	110.	.002
YM-72	110.	115.	.001
YM-72	115.	120.	.005
YM-72	120.	125.	.019
YM-72	125.	130.	.005
YM-72	130.	135.	.002
YM-72	135.	140.	.003
YM-72	140.	145.	.001
YM-72	145.	150.	.001
Fletcher Standard			
YM-72	21.	24.	.025
YM-72	71.	74.	.007
YM-72	101.	104.	.008
YM-73	0.	5.	.087
YM-73	5.	10.	.61
YM-73	10.	15.	.015
YM-73	15.	20.	.048
YM-73	20.	25.	.008
YM-73	25.	30.	.005
YM-73	30.	35.	.012
YM-73	35.	40.	.034
YM-73	40.	45.	.008
YM-73	45.	50.	.002
YM-73	50.	55.	.002
YM-73	55.	60.	.001
YM-73	60.	65.	TR
YM-73	65.	70.	.001
YM-73	70.	75.	TR
YM-73	75.	80.	TR
YM-73	80.	85.	.005
YM-73	85.	90.	.002
Fletcher Standard			
YM-73	11.	14.	.006
YM-73	21.	24.	.007
YM-73	71.	74.	.008
YM-74	0.	5.	.002
YM-74	5.	10.	.007
YM-74	10.	15.	.006
YM-74	15.	20.	.011
YM-74	20.	25.	.006

YM-74	25.	30.	.007
YM-74	30.	35.	.002
YM-74	35.	40.	.003
YM-74	40.	45.	.002
YM-74	45.	50.	.002
YM-74	50.	55.	.003
YM-74	55.	60.	.002
YM-74	60.	65.	.003
YM-74	65.	70.	.002
YM-74	70.	75.	.001
YM-74	75.	80.	.002
YM-74	80.	85.	.023
YM-74	85.	90.	.002
YM-74	90.	95.	.002
YM-74	95.	100.	.001
YM-74	100.	105.	.003
YM-74	105.	110.	.001
YM-74	110.	115.	.002
YM-74	115.	120.	.001
YM-74	120.	125.	.004
YM-74	125.	130.	.001
YM-74	130.	135.	.001
YM-74	135.	140.	TR
YM-74	140.	145.	TR
YM-74	145.	150.	.002
YM-74	150.	155.	.001
YM-74	155.	160.	.002

Fletcher Standard

YM-74	21.	24.	.015
YM-74	71.	74.	.007
YM-74	121.	124.	.022

YM-75	0.	5.	.003
YM-75	5.	10.	.001
YM-75	10.	15.	.001
YM-75	15.	20.	.002
YM-75	20.	25.	.003
YM-75	25.	30.	.002
YM-75	30.	35.	.002
YM-75	35.	40.	.002
YM-75	40.	45.	.005
YM-75	45.	50.	.004
YM-75	50.	55.	.004
YM-75	55.	60.	.003
YM-75	60.	65.	.004
YM-75	65.	70.	.016
YM-75	70.	75.	.028
YM-75	75.	80.	.011
YM-75	80.	85.	.010
YM-75	85.	90.	.026
YM-75	90.	95.	.021

YM-75	95.	100.	.035
YM-75	100.	105.	.037
YM-75	105.	110.	.062
YM-75	110.	115.	.064
YM-75	115.	120.	.024
YM-75	120.	125.	.047
YM-75	125.	130.	.067
YM-75	130.	135.	.088
YM-75	135.	140.	.006
YM-75	140.	145.	.043
YM-75	145.	150.	.138
YM-75	150.	155.	.118
YM-75	155.	160	.110
YM-75	160.	165.	.051
YM-75	165.	170.	.045
YM-75	170.	175.	.010
YM-75	175.	180.	.010
YM-75	180.	185.	.027
YM-75	185.	190.	.018
YM-75	190.	195.	.020
YM-75	195.	200.	.022
YM-75	200.	205.	.003
YM-75	205.	210.	.004
YM-75	210.	215.	.002
YM-75	215.	220.	.002

Fletcher Standard

YM-75	101.	104.	.007
YM-75	151.	154.	.022
YM-75	201.	204.	.008

YM-76	0.	5.	.017
YM-76	5.	10.	.006
YM-76	10.	15.	.020
YM-76	15.	20.	.011
YM-76	20.	25.	.002
YM-76	25.	30.	.007
YM-76	30.	35.	.011
YM-76	35.	40.	.041
YM-76	40.	45.	.007
YM-76	45.	50.	.010
YM-76	50.	55.	.016
YM-76	55.	60.	.007
YM-76	60.	65.	.006
YM-76	65.	70.	.011
YM-76	70.	75.	.012
YM-76	75.	80.	No Sample
YM-76	80.	85.	No Sample
YM-76	85.	90.	No Sample
YM-76	90.	95.	.076
YM-76	95.	100.	.016
YM-76	100.	105.	.042

YM-76	105.	110.	.022
YM-76	110.	115.	.015
YM-76	115.	120.	.007
YM-76	120.	125.	.007
YM-76	125.	130.	.004
YM-76	130.	135.	.005
YM-76	135.	140.	.025
YM-76	140.	145.	.004
YM-76	145.	150.	.004
YM-76	150.	155.	.002
YM-76	155.	160.	.006
YM-76	160.	165.	.008
YM-76	165.	170.	.003
YM-76	170.	175.	.004

Fletcher Standard

YM-76	21.	24.	.022
YM-76	71.	74.	.008
YM-76	101.	104.	.007

YM-77	0.	5.	.004
YM-77	5.	10.	.008
YM-77	10.	15.	.005
YM-77	15.	20.	.029
YM-77	20.	25.	.007
YM-77	25.	30.	.016
YM-77	30.	35.	.010
YM-77	35.	40.	.007
YM-77	40.	45.	.006
YM-77	45.	50.	.004
YM-77	50.	55.	.002
YM-77	55.	60.	.005
YM-77	60.	65.	.004
YM-77	65.	70.	.008
YM-77	70.	75.	.020
YM-77	75.	80.	.008
YM-77	80.	85.	.018
YM-77	85.	90.	.016
YM-77	90.	95.	.016
YM-77	95.	100.	.038
YM-77	100.	105.	.034
YM-77	105.	107.	.024
YM-77	110.	115.	No Sample
YM-77	115.	120.	No Sample
YM-77	120.	125.	.015
YM-77	125.	130.	.014
YM-77	130.	135.	.027
YM-77	135.	140.	.081
YM-77	140.	145.	.122
YM-77	145.	150.	.089
YM-77	150.	155.	.040
YM-77	155.	160.	.033

YM-77	160.	165.	.016
YM-77	165.	170.	.003
YM-77	170.	175.	.013
YM-77	175.	180.	.117
YM-77	180.	185.	.007
YM-77	185.	190.	.003
YM-77	190.	195.	.001
YM-77	195.	200.	.002
YM-77	200.	205.	TR
YM-77	205.	210.	.002
YM-77	210.	215.	.001
Fletcher Standard			
YM-77	21.	24.	.007
YM-77	71.	74.	.008
YM-77	131.	134.	.005
YM-78	0.	5.	.003
YM-78	5.	10.	.038
YM-78	10.	15.	.003
YM-78	15.	20.	.002
YM-78	20.	25.	.003
YM-78	25.	30.	.002
YM-78	30.	35.	.003
YM-78	35.	40.	.003
YM-78	40.	45.	.032
YM-78	45.	50.	.002
YM-78	50.	55.	.003
YM-78	55.	60.	.004
YM-78	60.	65.	.003
YM-78	65.	70.	.005
YM-78	70.	75.	.004
YM-78	75.	80.	.003
YM-78	80.	85.	.002
YM-78	85.	90.	.001
YM-78	90.	95.	.002
YM-78	95.	100.	.013
YM-78	100.	105.	.004
YM-78	105.	110.	.005
YM-78	110.	115.	.007
YM-78	115.	120.	.010
YM-78	120.	125.	.003
YM-78	125.	130.	.004
YM-78	130.	135.	.048
YM-78	135.	140.	.003
YM-78	140.	145.	.009
YM-78	145.	150.	.014
YM-78	150.	155.	.005
YM-78	155.	160.	.016
YM-78	160.	165.	.007
YM-78	165.	170.	.003
YM-78	170.	175.	.002

YM-78	175.	180.	.002
YM-78	180.	185.	.031
YM-78	185.	190.	.005
YM-78	190.	195.	.005
YM-78	195.	200.	.008
YM-78	200.	205.	.010
YM-78	205.	210.	.007
YM-78	210.	215.	.004
YM-78	215.	220.	.125
YM-78	220.	225.	.020
YM-78	225.	230.	.011
YM-78	230.	235.	.152
YM-78	235.	240.	.020
YM-78	240.	245.	.058
YM-78	245.	250.	.037
YM-78	250.	255.	.060
YM-78	255.	260.	.063
YM-78	260.	265.	.154
YM-78	265.	270.	.068
YM-78	270.	275.	.011
YM-78	275.	280.	.013
YM-78	280.	285.	.005
YM-78	285.	290.	.008
YM-78	290.	295.	.005
YM-78	295.	300.	.010
YM-78	300.	305.	.009
YM-78	305.	310.	.008
YM-78	310.	315.	.004
YM-78	315.	320	.004
YM-78	320.	325.	.008
YM-78	325.	330.	.005
YM-78	330.	335.	.009
YM-78	335.	340.	.031
YM-78	340.	345.	.010
YM-78	345.	350.	.014

Fletcher Standard

YM-78	3.	4.	.022
YM-78	73.	74.	.008
YM-78	147.	149.	.008
YM-78	201.	204.	.009
YM-78	271.	274.	.008

Dust Sample from Top of Cyclone

YM-78 C	220.	230.	.015
YM-78 C	220.	230.	.005
YM-78 C	240.	250.	.028
YM-78 C	305.	320.	.013
YM-78 C	330.	340.	.016
YM-78 C	350.	360.	.042

YM-79	0.	5.	.004

YM-79	5.	10.	.007
YM-79	10.	15.	.037
YM-79	15.	20.	.003
YM-79	20.	25.	.017
YM-79	25.	30.	.002
YM-79	30.	35.	.003
YM-79	35.	40.	.014
YM-79	40.	45.	.017
YM-79	45.	50.	.022
YM-79	50.	55.	.024
YM-79	55.	60.	.008
YM-79	60.	65.	.026
YM-79	65.	70.	.003
YM-79	70.	75.	.077
YM-79	75.	80.	.008
YM-79	80.	85.	.027
YM-79	85.	90.	.008
YM-79	90.	95.	.044
YM-79	95.	100.	.014
YM-79	100.	105.	.036
YM-79	105.	110.	.016
YM-79	110.	115.	.010
YM-79	115.	120.	.011
YM-79	120.	125.	.027
YM-79	125.	130.	.028
YM-79	130.	135.	.038
YM-79	135.	140.	.025
YM-79	140.	145.	.030
YM-79	145.	150.	.151
YM-79	150.	155.	.100
YM-79	155.	160.	.011
YM-79	160.	165.	.012
YM-79	165.	170.	.041
YM-79	170.	175.	.008
YM-79	175.	180.	.007
YM-79	180.	185.	.007
YM-79	185.	190.	.003
YM-79	190.	195.	.006
YM-79	195.	200.	.002
YM-79	200.	205.	.003
YM-79	205.	210.	.003
YM-79	210.	215.	.002
YM-79	215.	220.	TR

Fletcher Standard

YM-79	1.	4.	.023
YM-79	61.	64.	.007
YM-79	101.	104.	.022
YM-79	181.	184.	.008

Dust Sample from Top of Cyclone

YM-79C	10.	20.	.032

YM-79C	20.	30.	.003
YM-79C	30.	40.	.007
YM-79C	40.	50.	.016
YM-79C	50.	60.	.010
YM-79C	60.	70.	.006
YM-79C	70.	80.	.010
YM-79C	80.	90.	.026
YM-79C	90.	100.	.014
YM-79C	100.	110.	.020
YM-79C	110.	120.	.012
YM-79C	120.	130.	.011
YM-79C	130.	140.	.028
YM-79C	140.	150.	.053
YM-79C	150.	160.	.103
YM-79C	160.	170.	.021
YM-79C	170.	180.	.099
YM-79C	180.	190.	.005
YM-79C	190.	200.	.003
YM-79C	200.	210.	.003
YM-79C	210.	222.	.002
YM-80	0.	5.	.TR
YM-80	5.	10.	Lost Bead
YM-80	10.	15.	.009
YM-80	15.	20.	.007
YM-80	20.	25.	.003
YM-80	25.	30.	.004
YM-80	30.	35.	.018
YM-80	35.	40.	.007
YM-80	40.	45.	.018
YM-80	45.	50.	.011
YM-80	50.	55.	.006
YM-80	55.	60.	.003
YM-80	60.	65.	.007
YM-80	65.	70.	.005
YM-80	70.	75.	.004
YM-80	75.	80.	.010
YM-80	80.	85.	.005
YM-80	85.	90.	.002
YM-80	90.	95.	.002
YM-80	95.	100.	.006
YM-80	100.	105.	.014
YM-80	105.	110.	.003
YM-80	110.	115.	.004
YM-80	115.	120.	.002
YM-80	120.	125.	.008
YM-80	125.	130.	.003
YM-80	130.	135.	.004
YM-80	135.	140.	.005
YM-80	140.	145.	.020
YM-80	145.	150.	.010
YM-80	150.	155.	.011

YM-80	155.	160.	.066
YM-80	160.	165.	.022
YM-80	165.	170.	.016
YM-80	170.	175.	.023
YM-80	175.	180.	.061
YM-80	180.	185.	.005
YM-80	185.	190.	.002
YM-80	190.	195.	.014
YM-80	195.	200.	.007
YM-80	200.	205.	.021
YM-80	205.	210.	.015
YM-80	210.	215.	.075
YM-80	215.	220.	.018
YM-80	220.	225.	.007
YM-80	225.	230.	.014
YM-80	230.	235.	.028
YM-80	235.	240.	.024
YM-80	240.	245.	.016
YM-80	245.	250.	.028
YM-80	250.	255.	.025
YM-80	255.	260.	.028
YM-80	260.	265.	.083
YM-80	265.	270.	.111
YM-80	270.	275.	.032
YM-80	275.	280.	.023
YM-80	280.	285.	.014
YM-80	285.	290.	.004
YM-80	290.	295.	.002
YM-80	295.	300.	.002
YM-80	300.	305.	.007
YM-80	305.	310.	.006
YM-80	310.	315.	.005
YM-80	315.	320.	.025

Fletcher Standard

YM-80	21.	24.	.007
YM-80	101.	104.	.007
YM-80	201.	204.	.021
YM-80	291.	294.	.008

YM-81	0.	5.	.004
YM-81	5.	10.	.049
YM-81	10.	15.	.026
YM-81	15.	20.	.008
YM-81	20.	25.	.010
YM-81	25.	30.	.012
YM-81	30.	35.	.002
YM-81	35.	40.	.010
YM-81	40.	45.	.026
YM-81	45.	50.	.003
YM-81	50.	55.	.002
YM-81	55.	60.	.119

JDS

YM-81	60.	65.	.002
YM-81	65.	70.	.009
YM-81	70.	75.	.189
YM-81	75.	80.	.018
YM-81	80.	85.	.108
YM-81	85.	90.	.019
YM-81	90.	95.	.013
YM-81	95.	100.	.004
YM-81	100.	105.	.003
YM-81	105.	110.	.004
YM-81	110.	115.	.003
YM-81	115.	120.	.004
YM-81	120.	125.	.003
YM-81	125.	130.	.002
YM-81	130.	135.	.004
YM-81	135.	140.	.003
YM-81	140.	145.	.002
YM-81	145.	150.	.002
YM-81	150.	155.	.004
YM-81	155.	160.	.003
YM-81	160.	165.	.002
YM-81	165.	170.	.005

Fletcher Standard

YM-81	18.	19.	.020
YM-81	91.	92.	.008
YM-81	136.	138.	.023

Dust Sample from Top of Cyclone

YM-81C	0.	20.	.018
YM-81C	20.	30.	.005
YM-81C	30.	40.	.003
YM-81C	40.	50.	.011
YM-81C	50.	60.	.009
YM-81C	60.	70.	.004
YM-81C	70.	80.	.072
YM-81C	80.	90.	.094
YM-81C	90.	100.	.025
YM-81C	100.	110.	.011
YM-81C	110.	120.	.005
YM-81C	120.	130.	.002
YM-81C	130.	140.	.006
YM-81C	140.	150.	.003
YM-81C	150.	160.	.004
YM-81C	160.	170.	.002

YM-82	0.	5.	.012
YM-82	5.	10.	.037
YM-82	10.	15.	.002
YM-82	15.	20.	.005
YM-82	20.	25.	.032
YM-82	25.	30.	.002

Yes, franken

YM-82	30.	35.	.013
YM-82	35.	40.	.029
YM-82	40.	45.	.013
YM-82	45.	50.	.026
YM-82	50.	55.	.019
YM-82	55.	60.	.043
YM-82	60.	65.	.051
YM-82	65.	70.	.076
YM-82	70.	75.	.002
YM-82	75.	80.	.002
YM-82	80.	85.	.189
YM-82	85.	90.	.110
YM-82	90.	95.	.028
YM-82	95.	100.	.009
YM-82	100.	105.	.012
YM-82	105.	110.	.012
YM-82	110.	115.	.005
YM-82	115.	120.	.006
YM-82	120.	125.	.004
YM-82	125.	130.	.002
YM-82	130.	135.	.002
YM-82	135.	140.	.002

OK

Fletcher Standard

YM-82	16.	17.	.007
YM-82	91.	93.	.008
YM-82	141.	143.	.008

YM-83	0.	5.	.008
YM-83	5.	10.	.023
YM-83	10.	15.	.009
YM-83	15.	20.	.006
YM-83	20.	25.	.003
YM-83	25.	30.	.006
YM-83	30.	35.	.006
YM-83	35.	40.	.068
YM-83	40.	45.	.031
YM-83	45.	50.	.035
YM-83	50.	55.	.012
YM-83	55.	60.	.007
YM-83	60.	65.	.005
YM-83	65.	70.	.008
YM-83	70.	75.	.005
YM-83	75.	80.	.008
YM-83	80.	85.	.046
YM-83	85.	90.	.006
YM-83	90.	95.	.004
YM-83	95.	100.	.002
YM-83	100.	105.	.012
YM-83	105.	110.	.002
YM-83	110.	115.	.003
YM-83	115.	120.	.010

YM-83	120.	125.	.010
YM-83	125.	130.	.031
YM-83	130.	135.	.007
YM-83	135.	140.	.006
YM-83	140.	145.	.088
YM-83	145.	150.	.121
YM-83	150.	155.	.030
YM-83	155.	160.	.012
YM-83	160.	165.	.009
YM-83	165.	170.	.020
YM-83	170.	175.	.022
YM-83	175.	180.	.013
YM-83	180.	185.	.016
YM-83	185.	190.	.073
YM-83	190.	195.	.085
YM-83	195.	200.	.090
YM-83	200.	205.	.041
YM-83	205.	225.	No Return
YM-83	225.	230.	.017
YM-83	230.	235.	.041
YM-83	235.	240.	.028
YM-83	240.	245.	.004
YM-83	245.	250.	.003
YM-83	250.	255.	.005
YM-83	255.	260.	.002
YM-83	260.	265.	.002
YM-83	265.	270.	.001
YM-83	270.	275.	.001
YM-83	275.	280.	TR
YM-83	280.	285.	.002
Fletcher Standard			
YM-83	7.	9.	.022
YM-83	77.	79.	.007
YM-83	207.	209.	.022
YM-83	237.	239.	.006
YM-84	0.	5.	.002
YM-84	5.	10.	.007
YM-84	10.	15.	.057
YM-84	15.	20.	.006
YM-84	20.	25.	.002
YM-84	25.	30.	.015
YM-84	30.	35.	.036
YM-84	35.	40.	.013
YM-84	40.	45.	.003
YM-84	45.	50.	.002
YM-84	50.	55.	.036
YM-84	55.	60.	.004
YM-84	60.	65.	.009
YM-84	65.	70.	.018
YM-84	70.	75.	.035

YM-84	75.	80.	.008
YM-84	80.	85.	.015
YM-84	85.	90.	.028
YM-84	90.	95.	.009
YM-84	95.	100.	.010
YM-84	100.	105.	.010
YM-84	105.	110.	.019
YM-84	110.	115.	.022
YM-84	115.	120.	.124
YM-84	120.	125.	.115
YM-84	125.	130.	.037
YM-84	130.	135.	.061
YM-84	135.	140.	.059
YM-84	140.	145.	.011
YM-84	145.	150.	.003
YM-84	150.	155.	.005
YM-84	155.	160.	.004
YM-84	160.	165.	.003
YM-84	165.	170.	.004
YM-84	170.	175.	.003
YM-84	175.	180.	.002
YM-84	180.	185.	.006
YM-84	185.	190.	.005
YM-84	190.	195.	.003
YM-84	195.	200.	.002

Fletcher Standard

YM-84	11.	13.	.007
YM-84	91.	93.	.007
YM-84	121.	123.	.023
YM-84	191.	193.	.007

YM-85	0.	5.	.003
YM-85	5.	10.	.002
YM-85	10.	15.	.002
YM-85	15.	20.	.001
YM-85	20.	25.	.002
YM-85	25.	30.	.002
YM-85	30.	35.	.004
YM-85	35.	40.	.003
YM-85	40.	45.	.002
YM-85	45.	50.	.TR
YM-85	50.	55.	.002
YM-85	55.	60.	.003
YM-85	60.	65.	.002
YM-85	65.	70.	.001
YM-85	70.	75.	.003
YM-85	75.	80.	.001
YM-85	80.	85.	.001
YM-85	85.	90.	.002
YM-85	90.	95.	.001
YM-85	95.	100.	.002

Fletcher Standard			
YM-85	7.	9.	.008
YM-86	0.	5.	.007
YM-86	5.	10.	.005
YM-86	10.	15.	.004
YM-86	15.	20.	.002
YM-86	20.	25.	.003
YM-86	25.	30.	.002
YM-86	30.	35.	.005
YM-86	35.	40.	.002
YM-86	40.	45.	TR
YM-86	45.	50.	.007
YM-86	50.	55.	.016
YM-86	55.	60.	.013
YM-86	60.	65.	.012
YM-86	65.	70.	.012
YM-86	70.	75.	.006
YM-86	75.	80.	.002
YM-86	80.	85.	.006
YM-86	85.	90.	.014
YM-86	90.	95.	.007
YM-86	95.	100.	.008
YM-86	100.	105.	.003
YM-86	105.	110.	.002
YM-86	110.	115.	TR
YM-86	115.	120.	.001
YM-86	120.	125.	TR
YM-86	125.	130.	TR
YM-86	130.	135.	.002
YM-86	135.	140.	TR
YM-86	140.	145.	.009
YM-86	145.	150.	.004
YM-86	150.	155.	.013
Fletcher Standard			
YM-86	1.	3.	.007
YM-86	51.	53.	.006
YM-86	101.	103.	.021
YM-87	0.	5.	.005
YM-87	5.	10.	.005
YM-87	10.	15.	.019
YM-87	15.	20.	.042
YM-87	20.	25.	.004
YM-87	25.	30.	.004
YM-87	30.	35.	.003
YM-87	35.	40.	.004
YM-87	40.	45.	.002
YM-87	45.	50.	.002
YM-87	50.	55.	.003
YM-87	55.	60.	.001

YM-87	60.	65.	.002
YM-87	65.	70.	.002
YM-87	70.	75.	.003
YM-87	75.	80.	.003
YM-87	80.	85.	.002
YM-87	85.	90.	.002
YM-87	90.	95.	.001
YM-87	95.	100.	TR
YM-87	100.	105.	.015
YM-87	105.	110.	.002
YM-87	110.	115.	.002
YM-87	115.	120.	.001
YM-87	120.	125.	.002
YM-87	125.	130.	.001
YM-87	130.	135.	.001
YM-87	135.	140.	TR
YM-87	140.	145.	.001
YM-87	145.	150.	.002
YM-87	150.	155.	TR
YM-87	155.	160.	.002
YM-87	160.	165.	.003
YM-87	165.	170.	.002
YM-87	170.	175.	.003
YM-87	175.	180.	.030
YM-87	180.	185.	.004
YM-87	185.	190.	.003
YM-87	190.	195.	.003
YM-87	195.	200.	.002
YM-87	200.	205.	.001
YM-87	205.	210.	.002
YM-87	210.	215.	.003
YM-87	215.	220.	.002
YM-87	220.	225.	.001
YM-87	225.	230.	.003
YM-87	230.	235.	.002
YM-87	235.	240.	.002
YM-87	240.	245.	.001
YM-87	245.	250.	.020
YM-87	250.	255.	.003
YM-87	255.	260.	.002
YM-87	260.	265.	.025
YM-87	265.	270.	.008
YM-87	270.	275.	.005
YM-87	275.	280.	.015
YM-87	280.	285.	.003
YM-87	285.	290.	.086
YM-87	290.	295.	.048
YM-87	295.	300.	.030
YM-87	300.	305.	.034
YM-87	305.	310.	.010
YM-87	310.	315.	.018
YM-87	315.	320.	.017

YM-87	320.	325.	.008
YM-87	325.	330.	.003
YM-87	330.	335.	.011
YM-87	335.	340.	.003
YM-87	340.	345.	.041
YM-87	345.	350.	.029
YM-87	350.	355.	.029
YM-87	355.	360.	.022
YM-87	360.	365.	.028
YM-87	365.	370.	.028
YM-87	370.	375.	.022
YM-87	375.	380.	.011

Fletcher Standard

YM-87	3.	4.	.016
YM-87	103.	104.	.007
YM-87	203.	204.	.014
YM-87	303.	304.	.007

YM-88	0.	5.	.006
YM-88	5.	10.	.003
YM-88	10.	15.	.008
YM-88	15.	20.	.013
YM-88	20.	25.	.030
YM-88	25.	30.	.012
YM-88	30.	35.	.008
YM-88	35.	40.	.001
YM-88	40.	45.	.004
YM-88	45.	50.	.007
YM-88	50.	55.	.009
YM-88	55.	60.	No Sample
YM-88	60.	65.	.009
YM-88	65.	70.	.008
YM-88	70.	75.	.016
YM-88	75.	80.	.013
YM-88	80.	85.	.009
YM-88	85.	90.	.010
YM-88	90.	95.	.002
YM-88	95.	100.	.002
YM-88	100.	105.	.010
YM-88	105.	110.	.004
YM-88	110.	115.	.002
YM-88	115.	120.	.004
YM-88	120.	125.	.005
YM-88	125.	130.	.003
YM-88	130.	135.	.003
YM-88	135.	140.	.002
YM-88	140.	145.	.002
YM-88	145.	150.	.003
YM-88	150.	155.	.002
YM-88	155.	160.	.003
YM-88	160.	165.	.002

YM-88	165.	170.	.003
YM-88	170.	175.	.003
YM-88	175.	180.	.004
YM-88	180.	185.	.069
YM-88	185.	190.	.061
YM-88	190.	195.	.003
YM-88	195.	200.	.007
YM-88	200.	205.	Lost Bead
YM-88	205.	210.	.014
YM-88	210.	215.	.042
YM-88	215.	220.	.013
YM-88	220.	225.	.007
YM-88	225.	230.	.006
YM-88	230.	235.	.015
YM-88	235.	240.	.004
YM-88	240.	245.	.023
YM-88	245.	250.	.050
YM-88	250.	255.	.023
YM-88	255.	260.	.034
YM-88	260.	265.	.057
YM-88	265.	270.	.053
YM-88	270.	275.	.046
YM-88	275.	280.	.141
YM-88	280.	285.	Lost Bead
YM-88	285.	290.	.093
YM-88	290.	295.	.041
YM-88	295.	300.	.008
YM-88	300.	305.	.005
YM-88	305.	310.	.009
YM-88	310.	315.	.009
YM-88	315.	320.	.065
YM-88	320.	325.	.015
YM-88	325.	330.	.010
YM-88	330.	335.	.042
YM-88	335.	340.	.034
YM-88	340.	345.	.006
YM-88	345.	350.	.012
YM-88	350.	355.	.003
YM-88	355.	360.	.003
YM-88	365.	370.	.004
YM-88	370.	375.	.007
YM-88	375.	380.	.006
YM-88	380.	385.	.004
YM-88	385.	390.	.017
YM-88	390.	395.	.011
YM-88	395.	400.	.014

Fletcher Standard

YM-88	21.	23.	.022
YM-88	101.	103.	.007
YM-88	201.	203.	.021
YM-88	301.	304.	.007

Refires

YM-88	55.	60.	.007
YM-88	200.	205.	.003
YM-88	280.	285.	.141
YM-89	0.	5.	.002
YM-89	5.	10.	.003
YM-89	10.	15.	.004
YM-89	15.	20.	.002
YM-89	20.	25.	.003
YM-89	25.	30.	.002
YM-89	30.	35.	.007
YM-89	35.	40.	.006
YM-89	40.	45.	.011
YM-89	45.	50.	.006
YM-89	50.	55.	.020
YM-89	55.	60.	.013
YM-89	60.	65.	.016
YM-89	65.	70.	.003
YM-89	70.	75.	.007
YM-89	75.	80.	.005
YM-89	80.	85.	.004
YM-89	85.	90.	.003
YM-89	90.	95.	.011
YM-89	95.	100.	.006
YM-89	100.	105.	.011
YM-89	105.	110.	.009
YM-89	110.	115.	.017
YM-89	115.	120.	.038
YM-89	120.	125.	.007
YM-89	125.	130.	.005
YM-89	130.	135.	.010
YM-89	135.	140.	.004
YM-89	140.	145.	.002
YM-89	145.	150.	.010
YM-89	150.	155.	.006
YM-89	155.	160.	.005
YM-89	160.	165.	.009
YM-89	165.	170.	.029
YM-89	170.	175.	.011
YM-89	175.	180.	.007
YM-89	180.	185.	.032
YM-89	185.	190.	.108
YM-89	190.	195.	.016
YM-89	195.	200.	.015
YM-89	200.	205.	.033
YM-89	205.	210.	.015
YM-89	210.	215.	.018
YM-89	215.	220.	.015
YM-89	220.	225.	.020
YM-89	225.	230.	.014
YM-89	230.	235.	.031

YM-89	235.	240.	.045
YM-89	240.	245.	.014
YM-89	245.	250.	.048
YM-89	250.	255.	.175
YM-89	255.	260.	.150
YM-89	260.	265.	.076
YM-89	265.	270.	.089
YM-89	270.	275.	.017
YM-89	275.	280.	.003
YM-89	280.	285.	.004
YM-89	285.	290.	.003
YM-89	290.	295.	.013
YM-89	295.	300.	.018
YM-89	300.	305.	.037
YM-89	305.	310.	.017
YM-89	310.	315.	.009
YM-89	315.	320.	.031
YM-89	320.	325.	.010
YM-89	325.	330.	.008
YM-89	330.	335.	.008
YM-89	335.	340.	.043
YM-89	340.	345.	.004
YM-89	345.	350.	.002
YM-89	350.	355.	.003
YM-89	355.	360.	.003
YM-89	360.	365.	.006
YM-89	365.	370.	.014
YM-89	370.	375.	.004
YM-89	375.	380.	.006
YM-89	380.	385.	.003
YM-89	385.	390.	.003

Fletcher Standard

YM-89	1.	4.	.005
YM-89	121.	124.	.019
YM-89	221.	224.	.005
YM-89	321.	324.	.021

YM-90	0.	5.	.006
YM-90	5.	10.	.009
YM-90	10.	15.	.018
YM-90	15.	20.	.018
YM-90	20.	25.	.013
YM-90	25.	30.	.033
YM-90	30.	35.	.014
YM-90	35.	40.	.010
YM-90	40.	45.	.005
YM-90	45.	50.	.003
YM-90	50.	55.	.009
YM-90	55.	60.	.004
YM-90	60.	65.	.044
YM-90	65.	70.	.045

YM-90	70.	75.	.003
YM-90	75.	80.	.002
YM-90	80.	85.	.011
YM-90	85.	90.	.002
YM-90	90.	95.	.002
YM-90	95.	100.	.003
YM-90	100.	105.	.005
YM-90	105.	110.	.006
YM-90	110.	115.	.003
YM-90	115.	120.	.009
YM-90	120.	125.	.022
YM-90	125.	130.	.029
YM-90	130.	135.	.014
YM-90	135.	140.	.005
YM-90	140.	145.	.040
YM-90	145.	150.	.044
YM-90	150.	155.	.018
YM-90	155.	160.	.025
YM-90	160.	165.	.058
YM-90	165.	170.	.032
YM-90	170.	175.	.013
YM-90	175.	180.	.071
YM-90	180.	185.	.077
YM-90	185.	190.	.060
YM-90	190.	195.	.057
YM-90	195.	200.	.126
YM-90	200.	205.	.298
YM-90	205.	210.	.116
YM-90	210.	215.	.077
YM-90	215.	220.	.001
YM-90	220.	225.	.002
YM-90	225.	230.	.020
YM-90	230.	235.	.053
YM-90	235.	240.	.005
YM-90	240.	245.	.006
YM-90	245.	250.	.009
YM-90	250.	255.	.002
YM-90	255.	260.	.020
YM-90	260.	265.	TR
YM-90	265.	270.	.003
YM-90	270.	275.	.012
YM-90	275.	280.	.002
YM-90	280.	285.	.002
YM-90	285.	290.	.018
YM-90	290.	295.	.006
YM-90	295.	300.	.004
YM-90	300.	305.	.004
YM-90	305.	310.	.003
YM-90	310.	315.	.002
YM-90	315.	320.	TR

Fletcher Standard

YM-90	21.	24.	.016
YM-90	121.	124.	.019
YM-90	221.	224.	.016
YM-91	0.	5.	.005
YM-91	5.	10.	.003
YM-91	10.	15.	.022
YM-91	15.	20.	.015
YM-91	20.	25.	.028
YM-91	25.	30.	.005
YM-91	30.	35.	.007
YM-91	35.	40.	.002
YM-91	40.	45.	.003
YM-91	45.	50.	.002
YM-91	50.	55.	.010
YM-91	55.	60.	.003
YM-91	60.	65.	.002
YM-91	65.	70.	.015
YM-91	70.	75.	.020
YM-91	75.	80.	.014
YM-91	80.	85.	.009
YM-91	85.	90.	.005
YM-91	90.	95.	.007
YM-91	95.	100.	.030
YM-91	100.	105.	.004
YM-91	105.	125.	No Sample
YM-91	125.	130.	.024
YM-91	130.	140.	No Sample
YM-91	140.	145.	.003
YM-91	145.	150.	.014
Fletcher Standard			
YM-91	21.	24.	.021
YM-91	121.	124.	.007
YM-92	0.	5.	.005
YM-92	5.	10.	.002
YM-92	10.	15.	.013
YM-92	15.	20.	.010
YM-92	20.	25.	.003
YM-92	25.	30.	.006
YM-92	30.	35.	.003
YM-92	35.	40.	.031
YM-92	40.	45.	.139
YM-92	45.	50.	.086
YM-92	50.	55.	.032
YM-92	55.	60.	.009
YM-92	60.	65.	.008
YM-92	65.	70.	.009
YM-92	70.	75.	.005
YM-92	75.	80.	.002
YM-92	80.	85.	.002

YM-92	85.	90.	.007
YM-92	90.	95.	.002
YM-92	95.	100.	.004
YM-92	100.	105.	.003
YM-92	105.	110.	.011
YM-92	110.	115.	.002
YM-92	115.	120.	.005
YM-92	120.	125.	.004
YM-92	125.	130.	.003
YM-92	130.	135.	.003
YM-92	135.	140.	.004
YM-92	140.	145.	.005
YM-92	145.	150.	.004
YM-92	150.	155.	.007
YM-92	155.	160.	.007
Fletcher Standard			
YM-92	31.	34.	.022
YM-92	131.	134.	.007
YM-93	0.	5.	.013
YM-93	5.	10.	.036
YM-93	10.	15.	.040
YM-93	15.	20.	.130
YM-93	20.	25.	.051
YM-93	25.	30.	.018
YM-93	30.	35.	.009
YM-93	35.	40.	.017
YM-93	40.	45.	.004
YM-93	45.	50.	.003
YM-93	50.	55.	.002
YM-93	55.	60.	.005
YM-93	60.	65.	.003
YM-93	65.	70.	.004
YM-93	70.	75.	.002
YM-93	75.	80.	.002
YM-93	80.	85.	.002
YM-93	85.	90.	.001
YM-93	90.	95.	.002
YM-93	95.	100.	.005
Fletcher Standard			
YM-93	21.	24.	.008
YM-93	81.	84.	.006
YM-94	0.	5.	.008
YM-94	5.	10.	.006
YM-94	10.	15.	.011
YM-94	15.	20.	.005
YM-94	20.	25.	.005
YM-94	25.	30.	Refiring
YM-94	30.	35.	.003

JDS

YM-94	35.	40.	.003
YM-94	40.	45.	.007
YM-94	45.	50.	.004
YM-94	50.	55.	.003
YM-94	55.	60.	.010
YM-94	60.	65.	.007
YM-94	65.	70.	.007
YM-94	70.	75.	.011
YM-94	75.	80.	.009
YM-94	80.	85.	.013
YM-94	85.	90.	.005
YM-94	90.	95.	.003
YM-94	95.	100.	.002
YM-94	100.	105.	.006
YM-94	105.	110.	.028
YM-94	110.	115.	.010
YM-94	115.	120.	.279
YM-94	120.	125.	.140
YM-94	125.	127.	.144
YM-94	130.	135.	No Sample
YM-94	135.	140.	.121
YM-94	140.	145.	.018
YM-94	145.	150.	.014
YM-94	150.	155.	.023
YM-94	155.	160.	.005
YM-94	160.	165.	.005
YM-94	165.	170.	.006
YM-94	170.	175.	.009
YM-94	175.	180.	.013
YM-94	180.	185.	.004
YM-94	185.	190.	.059
YM-94	190.	195.	.002

Fletcher Standard

YM-94 A	21.	24.	Lost Bead
YM-94	121.	124.	.009
YM-94	191.	194.A	.020

Refires

YM-94	25.	30.	.006

Refires - Fletcher Standard

YM-94 A	21.	24.	.022

YM-95	0.	5.	.005
YM-95	5.	10.	.002
YM-95	10.	15.	.003
YM-95	15.	20.	.002
YM-95	20.	25.	Lost Bead
YM-95	25.	30.	.002
YM-95	30.	35.	.003

YM-95	35.	40.	.002
YM-95	40.	45.	.003
YM-95	45.	50.	.002
YM-95	50.	55.	.001
YM-95	55.	60.	.002
YM-95	60.	65.	.004
YM-95	65.	70.	.003
YM-95	70.	75.	.002
YM-95	75.	80.	.002
YM-95	80.	85.	.001
YM-95	85.	90.	.004
YM-95	90.	95.	.002
YM-95	95.	100.	.001
YM-95	100.	105.	.003
YM-95	105.	110.	.002
YM-95	110.	115.	TR
YM-95	115.	120.	.002
YM-95	120.	125.	.002
YM-95	125.	130.	.001
YM-95	130.	135.	.001
YM-95	135.	140.	.002
YM-95	140.	145.	.003
YM-95	145.	150.	TR
YM-95	150.	155.	.001
YM-95	155.	160.	.001
YM-95	160.	165.	.003
YM-95	165.	170.	.001
YM-95	170.	175.	.003
YM-95	175.	180.	.004
YM-95	180.	185.	.002
YM-95	185.	190.	.002
YM-95	190.	195.	.001
YM-95	195.	200.	.002
YM-95	200.	205.	.002
YM-95	205.	210.	.002
YM-95	210.	215.	.003
YM-95	215.	220.	.004
YM-95	220.	225.	.013
YM-95	225.	230.	.005
YM-95	230.	235.	.005
YM-95	235.	240.	.002
YM-95	240.	245.	.002
YM-95	245.	250.	.004
YM-95	250.	255.	.002
YM-95	255.	260.	.004
YM-95	260.	265.	.006
YM-95	265.	270.	.003
YM-95	270.	275.	.002
YM-95	275.	280.	.002
YM-95	280.	285.	.003
YM-95	285.	290.	.002
YM-95	290.	295.	.008

YM-95	295.	300.	.003
YM-95	300.	305.	.002
YM-95	305.	310.	.003
YM-95	310.	315.	.002
YM-95	315.	320.	.006
YM-95	320.	325.	.001
YM-95	325.	330.	.003
YM-95	330.	335.	.003
YM-95	335.	340.	.002
YM-95	340.	345.	.005
YM-95	345.	350.	.006
YM-95	350.	355.	.010
YM-95	355.	360.	.003
YM-95	360.	365.	.004
YM-95	365.	370.	.006
YM-95	370.	375.	.009
YM-95	375.	380.	.006
YM-95	380.	385.	.006
YM-95	385.	390.	.018
YM-95	390.	395.	.011
YM-95	395.	400.	.002
YM-95	400.	405.	.002
YM-95	405.	410.	.001
YM-95	410.	415.	.003
YM-95	415.	420.	.001
Fletcher Standard			
YM-95	21.	24.	.021
YM-95	121.	124.	.007
YM-95	221.	224.	.022
YM-95	321.	324.	.006
YM-96	0.	5.	.003
YM-96	5.	10.	.001
YM-96	10.	15.	TR
YM-96	15.	20.	.001
YM-96	20.	25.	.002
YM-96	25.	30.	TR
YM-96	30.	35.	.001
YM-96	35.	40.	.002
YM-96	40.	45.	TR
YM-96	45.	50.	.001
YM-96	50.	55.	.003
YM-96	55.	60.	.002
YM-96	60.	65.	.001
YM-96	65.	70.	.002
YM-96	70.	75.	.001
YM-96	75.	80.	.002
YM-96	80.	85.	TR
YM-96	85.	90.	TR
YM-96	90.	95.	.001
YM-96	95.	100.	.002

YM-96	100.	105.	.002
YM-96	105.	110.	.002
YM-96	110.	115.	.004
YM-96	115.	120.	.001
YM-96	120.	125.	TR
YM-96	125.	130.	.002
YM-96	130.	135.	.002
YM-96	135.	140.	.003
YM-96	140.	145.	TR
YM-96	145.	150.	.002
YM-96	150.	155.	TR
YM-96	155.	160.	TR
YM-96	160.	165.	TR
YM-96	165.	170.	TR
YM-96	170.	175.	.001
YM-96	175.	180.	TR
YM-96	180.	185.	TR
YM-96	185.	190.	NIL
YM-96	190.	195.	NIL
YM-96	195.	200.	.001
YM-96	200.	205.	.004
YM-96	205.	210.	.002
YM-96	210.	215.	.003
YM-96	215.	220.	.004
YM-96	220.	225.	.004
YM-96	225.	230.	.001
YM-96	230.	235.	.002
YM-96	235.	240.	.001
YM-96	240.	245.	.001
YM-96	245.	250.	.001
YM-96	250.	255.	.001
YM-96	255.	260.	.002
YM-96	260.	265.	.002
YM-96	265.	270.	.001
YM-96	270.	275.	TR
YM-96	275.	280.	.001
YM-96	280.	285.	.002
YM-96	285.	290.	.002
YM-96	290.	295.	.001
YM-96	295.	300.	.001
YM-96	300.	305.	.002
YM-96	305.	310.	.001
YM-96	310.	315.	TR
YM-96	315.	320.	.002
YM-96	320.	325.	TR
YM-96	325.	330.	.001
YM-96	330.	335.	.002
YM-96	335.	340.	.001
YM-96	340.	345.	.003
YM-96	345.	350.	.001
YM-96	350.	355.	TR

YM-96	355.	360.	.001
YM-96	360.	365.	.002
YM-96	365.	370.	TR
YM-96	370.	375.	.001
YM-96	375.	380.	.001
YM-96	380.	385.	.002
YM-96	385.	390.	.002
YM-96	390.	395.	.003
YM-96	395.	400.	.002
YM-96	400.	405.	.002
YM-96	405.	410.	.001
YM-96	410.	415.	.001
YM-96	415.	420.	.003
YM-96	420.	425.	.005
YM-96	425.	430.	.003
YM-96	430.	435.	.002
YM-96	435.	440.	.002
YM-96	440.	445.	.001
YM-96	445.	450.	.001
YM-96	450.	455.	.001
YM-96	455.	460.	.001
YM-96	460.	465.	.002
YM-96	465.	470.	.003
YM-96	470.	475.	.002
YM-96	475.	480.	.003
YM-96	480.	485.	.002
YM-96	485.	490.	.002
YM-96	490.	495.	.001
YM-96	495.	500.	.005
YM-96	500.	505.	.007
YM-96	505.	510.	TR
YM-96	510.	515.	.002
YM-96	515.	520.	.008
YM-96	520.	525.	.013
YM-96	525.	530.	.002
YM-96	530.	535.	.005
YM-96	535.	540.	.001
YM-96	540.	545.	.011
YM-96	545.	550.	.040
YM-96	550.	555.	.003
YM-96	555.	560.	.009
YM-96	560.	565.	.004
YM-96	565.	570.	.005
YM-96	570.	575.	.061

Fletcher Standard

YM-96	31.	34.	.021
YM-96	131.	135.	.006
YM-96	497.	499.	.008
YM-96	531.	534.	.021

YM-58	60.	65.	.001
YM-58	65.	70.	TR
YM-58	70.	75.	.001
YM-58	75.	80.	.004
YM-58	80.	85.	.003
YM-58	85.	90.	.003

Fletcher Standard

YM-58	11.	13.	.007
YM-58	81.	83.	.007

OPEN CUT ASSAYS

0E	0.	5.	.015
0E	5.	10.	.028
10E	0.	5.	.156
10E	5.	10.	.111
10E	10.	13.	.010
20E	0.	5.	.026
20E	5.	10.	.031
30E	0.	5.	.006
30E	5.	10.	.030
30E	10.	15.	.026
30E	15.	20.	.057
40E	0.	5.	.009
40E	5.	10.	.011
40E	10.	15.	.031
40E	15.	20.	.030
50E	0.	5.	.104
50E	5.	10.	.012
50E	10.	15.	.013
50E	15.	20.	.066
60E	0.	5.	.030
60E	5.	10.	.059
60E	10.	15.	.032
60E	15.	20.	.043
70E	0.	5.	.005
70E	5.	10.	.016
70E	10.	15.	.078
70E	15.	20.	.247
80E	0.	5.	.012
80E	5.	10.	.017
80E	10.	15.	.081
80E	15.	20.	.015
90E	0.	5.	.014
90E	5.	10.	.038
90E	10.	15.	.146
90E	15.	20.	.130
90E	20.	23.	.015
100E	0.	5.	.025
100E	5.	10.	.022

100E	10.	15.	.027
100E	15.	20.	.010
110E	0.	5.	.068
110E	5.	10.	.206
110E	10.	15.	.072
110E	15.	20.	.046
110E	20.	25.	.003
120E	0.	5.	.088
120E	5.	10.	.186
120E	10.	15.	.040
120E	15.	20.	.097
120E	20.	25.	.064
120E	25.	30.	.034
120E	30.	35.	.020
130E	0.	5.	.086
130E	5.	10.	.028
130E	10.	15.	.081
130E	15.	20.	.178
130E	20.	25.	.075
130E	25.	30.	.079
130E	30.	35.	.026
140E	0.	5.	.019
140E	5.	10.	.014
140E	10.	15.	.056
140E	15.	20.	.061
140E	20.	25.	.008
150E	0.	5.	.063
150E	5.	10.	.004
150E	10.	15.	.009
150E	15.	20.	.008
150E	20.	25.	.030
160E	0.	5.	.028
160E	5.	10.	.041
160E	10.	15.	.062
160E	15.	20.	.019
160E	20.	25.	.005
160E	25.	29.	.050
170E	0.	5.	.010
170E	5.	10.	.079
170E	10.	15.	.005
170E	15.	20.	.027
170E	20.	25.	.012
170E	25.	30.	.010
180E	0.	5.	.056
180E	5.	10.	.002
180E	10.	15.	.007
180E	15.	20.	.024
180E	20.	25.	.233
190E	0.	5.	.005
190E	5.	10.	.024
190E	10.	15.	.005
200E	0.	5.	.007

200E	5.	10.	.011
200E	10.	15.	.016
200E	15.	20.	.052
210E	0.	5.	.299
210E	5.	10.	.384
210E	10.	15.	.357
210E	15.	20.	.124
220E	0.	5.	.076
220E	5.	10.	.143
220E	10.	15.	.035
230E	0.	5.	.004
230E	5.	10.	.042
230E	10.	13.	.020
240E	0.	5.	.019
240E	5.	10.	.023
240E	10.	15.	.026
240E	15.	19.	.054
250E	0.	5.	.006
250E	5.	10.	.015
250E	10.	15.	.184
250E	15.	20.	.110
260E	0.	5.	.022
260E	5.	10.	.114
270E	0.	5.	.005
270E	5.	10.	No Sample
270E	10.	15.	.064
280E	0.	5.	.006
280E	5.	10.	.027
280E	10.	15.	.066
280E	15.	18.	.058
290E	0.	5.	.002
290E	5.	10.	.143
290E	10.	15.	.015
40W	0.	3.	.063
60W	0.	5.	.238
60W	5.	8.	.140
70W	0.	5.	.191
70W	5.	8.	.073
80W	0.	5.	.118
80W	5.	8.	.051
90W	0.	5.	.147
90W	5.	8.	.180
120W	0.	5.	.289
140W	0.	5.	.366
150W	0.	6.	.201
160W	0.	5.	.286
160W	5.	10.	.185
170W	0.	5.	.243
170W	5.	10.	.138
170W	10.	15.	.209
180W	0.	5.	.022

180W	5.	10.	.007
180W	10.	15.	.320
210W	0.	6.	.028

Fletcher Standard

15E	0.	5.	.008
75E	0.	5.	.027
105E	0.	5.	.003
170E	21.	23.	.022
180E	21.	23.	.007
200E	31.	33.	.022
10N	1.	3.	.022
50N	31.	34.	.010
100N	12.	14.	.027
130N	17.	19.	.010

YARNELL DRILL HOLE SURVEY DATA

DRILL HOLE NUMBER	COORDINATES NORTH	COORDINATES EAST	ELEVATION
YM-1	100,255.5	49,875.4	5,078.5
YM-2	100,490.7	49,860.6	5,063.0
YM-3	100,218.5	49,625.8	5,010.7
YM-4	100,505.3	49,675.8	5,052.3
YM-5	100,437.1	49,565.2	5,041.8
YM-6	100,278.7	49,286.7	4,949.0
YM-7	100,260.5	49,471.6	4,986.9
YM-8	100,717.9	49,749.2	4,957.9
YM-9	100,734.8	49,577.2	4,930.2
YM-10	100,177.0	49,171.1	4,893.9
YM-11	99,998.0	48,983.2	4,874.0
YM-12	100,356.5	49,788.4	5,073.6
YM-13	101,099.2	49,909.0	4,810.1
YM-14	100,110.1	49,780.1	5,050.5
YM-15	100,581.8	49,765.5	5,036.8
YM-16	100,383.9	50,017.0	5,057.1
YM-17	100,458.2	49,405.8	5,017.2
YM-18.	100,637.8	50,002.4	4,990.8
YM-19	100,769.4	49,894.2	4,973.5
YM-20	100,136.5	50,065.9	5,074.7
YM-21	101,062.1	50,094.4	4,806.2
YM-22	100,172.6	49,027.2	4,884.0
YM-23	100,027.2	49,165.2	4,860.9
YM-24	100,062.9	49,349.4	4,893.5
YM-25	100,063.1	49,533.7	4,947.3
YM-26	100,427.5	49,139.4	4,911.0
YM-27	100,923.0	49,436.3	4,835.4
YM-28	100,959.3	49,648.0	4,817.0
YM-29	100,118.7	48,832.5	4,858.6
YM-30	100,331.8	49,022.5	4,894.1
YM-31	100,684.2	49,253.6	4,918.6
YM-32	100,873.5	49,960.0	4,920.2
YM-33	100,629.8	49,440.8	4,969.7
YM-34	101,468.1	49,898.0	4,671.9
YM-35	101,181.8	50,199.4	4,729.8
YM-36	101,319.7	50,064.8	4,705.2
YM-37	100,178.0	49,314.9	4,925.1
YM-38	100,374.7	49,312.5	4,983.9
YM-39	100,587.8	49,594.9	5,010.7
YM-40	100,501.3	49,506.1	5,024.4
YM-41	100,564.3	49,330.1	4,978.4
YM-42	100,760.1	49,454.9	4,909.6
YM-43	100,793.2	50,066.0	4,907.9
YM-44	100,850.2	49,780.1	4,910.5
YM-45	100,551.4	50,110.8	4,980.4

YM-46	100,057.8	48,921.0	4,883.5
YM-47	100,104.5	49,097.3	4,873.4
YM-48	99,681.3	48,754.2	4,776.6
YM-49	99,853.3	48,847.1	4,827.6
YM-50	99,861.6	49,155.5	4,818.2
YM-51	99,994.7	48,694.1	4,789.0
YM-52	99,996.4	49,214.3	4,854.5
YM-53	99,916.2	49,077.7	4,844.7
YM-54	100,413.6	49,704.6	5,060.0
YM-55	100,391.2	49,885.2	5,073.8
YM-56	100,324.7	49,962.1	5,078.2
YM-57	100,254.5	50,021.2	5,090.1
YM-58	100,323.3	50,088.3	5,055.8
YM-59	100,517.2	50,020.0	5,019.0
YM-60	100,467.5	50,107.5	5,009.9
YM-61	100,564.3	49,899.7	5,036.1
YM-62	100,361.3	49,612.9	5,039.5
YM-63	100,306.6	49,701.4	5,045.0
YM-64	100,188.0	49,738.1	5,041.5
YM-65	99,551.4	48,903.2	4,765.6
YM-66	99,378.5	48,923.0	4,764.5
YM-67	99,597.7	48,811.0	4,776.5
YM-68	99,789.8	49,232.8	4,848.5
YM-69	100,371.2	49,213.1	4,951.2
YM-70	100,258.4	49,792.7	5,058.4
YM-71	100,129.8	49,664.8	5,010.7
YM-72	100,016.3	49,691.4	5,008.8
YM-73	99,972.5	49,569.8	4,947.4
YM-74	99,982.5	49,463.8	4,899.1
YM-75	100,096.1	49,233.7	4,880.3
YM-76	100,116.0	49,610.1	4,989.5
YM-77	100,175.7	49,536.7	4,982.1

COORDINATES
EDMOND, TRIANGLE, JUNIPER & EDGAR
PATENTED CLAIMS

CLAIM CORNER	COORDINATES NORTH	COORDINATES EAST	ELEVATION
NW EDMOND	101,859.12	49,658.44	
SW EDMOND	100,692.01	48,743.85	
SE EDMOND	100,223.03	49,106.09	
SW TRIANGLE	100,244.86	49,123.18	
NW EDGAR	100,061.36	49,309.93	
SE EDGAR	99,042.68	48,390.99	4664.7
NE EDGAR	99,636.54	49,725.20	
SE TRIANGLE	99,944.06	49,425.65	
SW JUNIPER	99,944.06	49,425.65	
SE JUNIPER	99,523.95	49,836.94	4929.2
NE JUNIPER	100,586.19	50,870.27	4839.9
NE END JUNIPER	100,793.13	50,660.87	
NW JUNIPER	100,936.22	50,389.84	
NE TRIANGLE	100,936.22	50,389.84	
NE END TRIANGLE	101,078.43	50,361.07	
NW TRIANGLE	101,405.84	50,034.10	
NE EDMOND	101,383.60	50,016.90	
SW EDGAR	99,463.00	47,972.90	

Preliminary

			elev.
✓49	99 850 N	48 860 E	4833
✓50	99 865 N	49 150 E ~~48 650 E~~	4815
✓51	99 945 N	48 710 E	4790
✓52	99 985 N	49 200 ~~48~~ 760 E	4855
✓53	99 940 N	49 030 ~~48~~ 590 E	4847
54	100 430 N	49 700 E	5060

from MAM 8/18

9:41 AM

change 11:06 AM

8-21-89

AUG 2 2 1989

Sy Exploration

YARNELL DRILL HOLE SURVEY DATA

DRILL HOLE NO.	COORDINATES NORTH	COORDINATES EAST	ELEVATION
YM-46	100,057.8	48,921.0	4,883.5
YM-47	100,104.5	49,097.3	4,873.4
YM-48	99,681.3	48,754.2	4,776.6
YM-49	99,853.3	48,847.1	4,827.6
YM-50	99,861.6	49,155.5	4,818.2
YM-51	99,994.7	48,694.1	4,789.0
YM-52	99,996.4	49,214.3	4,854.5
YM-53	99,916.2	49,077.7	4,844.7
YM-54	100,413.6	49,704.6	5,060.0
YM-55	100,391.2	49,885.2	5,073.8
YM-56	100,324.7	49,962.1	5,078.2
YM-57	100,254.5	50,021.2	5,090.1

RESURVEY OF DRILL HOLE ELEVATIONS IN CONFLICT WITH PRELIMINARY [illegible] MAP — SINCE SURVEYED

W.D.GAX phone message 8/24/89

	N	E	Elev.
YM-58	100323.3	50088.3	5055.8
YM-59	100,517.2	50020.0	5019.0
YM-60	100,467.5	50107.5	5009.9
YM-61	100,564.3	49,899.7	5036.1
YM-62	100361.3	49612.9	5039.5

Hole 62 finished yesterday to 320'. Haven't started any other holes.
~~62 [illegible]~~ 4 day shut down.

Monday - 63

YARNELL DRILL HOLE SURVEY DATA

DRILL HOLE NUMBER	COORDINATES NORTH	COORDINATES EAST	ELEVATION
YM-1	100,255.5	49,875.4	5,078.5
YM-2	100,490.7	49,860.6	5,063.0
YM-3	100,218.5	49,625.8	5,010.7
YM-4	100,505.3	49,675.8	5,052.3
YM-5	100,437.1	49,565.2	5,041.8
YM-6	100,278.7	49,286.7	4,949.0
YM-7	100,260.5	49,471.6	4,986.9
YM-8	100,717.9	49,749.2	4,957.9
YM-9	100,734.8	49,577.2	4,930.2
YM-10	100,177.0	49,171.1	4,893.9
YM-11	99,998.0	48,983.2	4,874.0
YM-12	100,356.5	49,788.4	5,073.6
YM-13	101,099.2	49,909.0	4,810.1
YM-14	100,110.1	49,780.1	5,050.5
YM-15	100,581.8	49,765.5	5,036.8
YM-16	100,383.9	50,017.0	5,057.1
YM-17	100,458.2	49,405.8	5,017.2
YM-18	100,637.8	50,002.4	4,990.8
YM-19	100,769.4	49,894.2	4,973.5
YM-20	100,136.5	50,065.9	5,074.7
YM-21	101,062.1	50,094.4	4,806.2
YM-22	100,172.6	49,027.2	4,884.0
YM-23	100,027.2	49,165.2	4,860.9
YM-24	100,062.9	49,349.4	4,893.5
YM-25	100,063.1	49,533.7	4,947.3
YM-26	100,427.5	49,139.4	4,911.0
YM-27	100,923.0	49,436.3	4,835.4
YM-28	100,959.3	49,648.0	4,817.0
YM-29	100,118.7	48,832.5	4,858.6
YM-30	100,331.8	49,022.5	4,894.1
YM-31	100,684.2	49,253.6	4,918.6
YM-32	100,873.5	49,960.0	4,920.2
YM-33	100,629.8	49,440.8	4,969.7
YM-34	101,468.1	49,898.0	4,671.9
YM-35	101,181.8	50,199.4	4,729.8
YM-36	101,319.7	50,064.8	4,705.2
YM-37	100,178.0	49,314.9	4,925.1
YM-38	100,374.7	49,312.5	4,983.9
YM-39	100,587.8	49,594.9	5,010.7
YM-40	100,501.3	49,506.1	5,024.4
YM-41	100,564.3	49,330.1	4,978.4
YM-42	100,760.1	49,454.9	4,909.6
YM-43	100,793.2	50,066.0	4,907.9
YM-44	100,850.2	49,780.1	4,910.5
YM-45	100,551.4	50,110.8	4,980.4

YM-46	100,057.8	48,921.0	4,883.5
YM-47	100,104.5	49,097.3	4,873.4
YM-48	99,681.3	48,754.2	4,776.6
YM-49	99,853.3	48,847.1	4,827.6
YM-50	99,861.6	49,155.5	4,818.2
YM-51	99,994.7	48,694.1	4,789.0
YM-52	99,996.4	49,214.3	4,854.5
YM-53	99,916.2	49,077.7	4,844.7
YM-54	100,413.6	49,704.6	5,060.0
YM-55	100,391.2	49,885.2	5,073.8
YM-56	100,324.7	49,962.1	5,078.2
YM-57	100,254.5	50,021.2	5,090.1
YM-58	100,323.3	50,088.3	5,055.8
YM-59	100,517.2	50,020.0	5,019.0
YM-60	100,467.5	50,107.5	5,009.9
YM-61	100,564.3	49,899.7	5,036.1
YM-62	100,361.3	49,612.9	5,039.5
YM-63	100,306.6	49,701.4	5,045.0
YM-64	100,188.0	49,738.1	5,041.5
YM-65	99,551.4	48,903.2	4,765.6
YM-66	99,378.5	48,923.0	4,764.5
YM-67	99,597.7	48,811.0	4,776.5
YM-68	99,789.8	49,232.8	4,848.5
YM-69	100,371.2	49,213.1	4,951.2
YM-70	100,258.4	49,792.7	5,058.4
YM-71	100,129.8	49,664.8	5,010.7
YM-72	100,016.3	49,691.4	5,008.8
YM-73	99,972.5	49,569.8	4,947.4
YM-74	99,982.5	49,463.8	4,899.1
YM-75	100,096.1	49,233.7	4,880.3
YM-76	100,116.0	49,610.1	4,989.5
YM-77	100,175.7	49,536.7	4,982.1
YM-78	100,309.6	49,381.9	4,985.8
YM-79	100,327.0	49,857.7	5,076.2
YM-80	100,475.4	49,755.9	5,067.1

YARNELL DRILL HOLE SURVEY DATA

DRILL HOLE NUMBER	COORDINATES NORTH	COORDINATES EAST	ELEVATION
YM-1	100,255.5	49,875.4	5,078.5
YM-2	100,490.7	49,860.6	5,063.0
YM-3	100,218.5	49,625.8	5,010.7
YM-4	100,505.3	49,675.8	5,052.3
YM-5	100,437.1	49,565.2	5,041.8
YM-6	100,278.7	49,286.7	4,949.0
YM-7	100,260.5	49,471.6	4,986.9
YM-8	100,717.9	49,749.2	4,957.9
YM-9	100,734.8	49,577.2	4,930.2
YM-10	100,177.0	49,171.1	4,893.9
YM-11	99,998.0	48,983.2	4,874.0
YM-12	100,356.5	49,788.4	5,073.6
YM-13	101,099.2	49,909.0	4,810.1
YM-14	100,110.1	49,780.1	5,050.5
YM-15	100,581.8	49,765.5	5,036.8
YM-16	100,383.9	50,017.0	5,057.1
YM-17	100,458.2	49,405.8	5,017.2
YM-18	100,637.8	50,002.4	4,990.8
YM-19	100,769.4	49,894.2	4,973.5
YM-20	100,136.5	50,065.9	5,074.7
YM-21	101,062.1	50,094.4	4,806.2
YM-22	100,172.6	49,027.2	4,884.0
YM-23	100,027.2	49,165.2	4,860.9
YM-24	100,062.9	49,349.4	4,893.5
YM-25	100,063.1	49,533.7	4,947.3
YM-26	100,427.5	49,139.4	4,911.0
YM-27	100,923.0	49,436.3	4,835.4
YM-28	100,959.3	49,648.0	4,817.0
YM-29	100,118.7	48,832.5	4,858.6
YM-30	100,331.8	49,022.5	4,894.1
YM-31	100,684.2	49,253.6	4,918.6
YM-32	100,873.5	49,960.0	4,920.2
YM-33	100,629.8	49,440.8	4,969.7
YM-34	101,468.1	49,898.0	4,671.9
YM-35	101,181.8	50,199.4	4,729.8
YM-36	101,319.7	50,064.8	4,705.2
YM-37	100,178.0	49,314.9	4,925.1
YM-38	100,374.7	49,312.5	4,983.9
YM-39	100,587.8	49,594.9	5,010.7
YM-40	100,501.3	49,506.1	5,024.4
YM-41	100,564.3	49,330.1	4,978.4
YM-42	100,760.1	49,454.9	4,909.6
YM-43	100,793.2	50,066.0	4,907.9
YM-44	100,850.2	49,780.1	4,910.5
YM-45	100,551.4	50,110.8	4,980.4

YM-46	100,057.8	48,921.0	4,883.5
YM-47	100,104.5	49,097.3	4,873.4
YM-48	99,681.3	48,754.2	4,776.6
YM-49	99,853.3	48,847.1	4,827.6
YM-50	99,861.6	49,155.5	4,818.2
YM-51	99,994.7	48,694.1	4,789.0
YM-52	99,996.4	49,214.3	4,854.5
YM-53	99,916.2	49,077.7	4,844.7
YM-54	100,413.6	49,704.6	5,060.0
YM-55	100,391.2	49,885.2	5,073.8
YM-56	100,324.7	49,962.1	5,078.2
YM-57	100,254.5	50,021.2	5,090.1
YM-58	100,323.3	50,088.3	5,055.8
YM-59	100,517.2	50,020.0	5,019.0
YM-60	100,467.5	50,107.5	5,009.9
YM-61	100,564.3	49,899.7	5,036.1
YM-62	100,361.3	49,612.9	5,039.5
YM-63	100,306.6	49,701.4	5,045.0
YM-64	100,188.0	49,738.1	5,041.5
YM-65	99,551.4	48,903.2	4,765.6
YM-66	99,378.5	48,923.0	4,764.5
YM-67	99,597.7	48,811.0	4,776.5
YM-68	99,789.8	49,232.8	4,848.5
YM-69	100,371.2	49,213.1	4,951.2
YM-70	100,258.4	49,792.7	5,058.4
YM-71	100,129.8	49,664.8	5,010.7
YM-72	100,016.3	49,691.4	5,008.8
YM-73	99,972.5	49,569.8	4,947.4
YM-74	99,982.5	49,463.8	4,899.1
YM-75	100,096.1	49,233.7	4,880.3
YM-76	100,116.0	49,610.1	4,989.5
YM-77	100,175.7	49,536.7	4,982.1
YM-78	100,309.6	49,381.9	4,985.8
YM-79	100,327.0	49,857.7	5,076.2
YM-80	100,475.4	49,755.9	5,067.1
YM-81	100,165.3	49,829.4	5,067.4
YM-82	100,217.1	49,927.8	5,091.9
YM-83	100,419.1	49,805.2	5,072.6
YM-84	100,449.6	49,950.0	5,051.8
YM-85	100,483.6	50,401.7	4,975.9
YM-86	100,636.9	50,574.2	5,010.2
YM-87	100,477.2	49,270.8	4,977.5
YM-88	100,365.6	49,438.8	5,012.3
YM-89	100,332.0	49,532.8	5,016.6
YM-90	100,292.0	49,620.8	5,027.0
YM-91	100,257.2	49,559.2	5,003.3
YM-92	100,040.8	49,620.6	4,984.9
YM-93	99,929.2	49,309.7	4,855.0
YM-94	100,137.6	49,436.6	4,939.9
YM-95	100,526.5	48,764.8	4,822.1
YM-96	101,187.1	49,017.0	4,846.3

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	- revised 12-20-89
YDDH-4	100,100.8	49,224.2	4,879.9	

DIAMOND DRILL HOLES

YDDH-1	100,715.1	49,740.7	4,956.8*
*YM-8	100,717.9	49,749.2	4,957.9

1.1' Difference - YDDH-1 is on road uphill from YM-8 ~10'.

10-16-89 JDS

YARNELL DRILL HOLE SURVEY DATA

DRILL HOLE NUMBER	COORDINATES NORTH	COORDINATES EAST	ELEVATION
YM-1	100,255.5	49,875.4	5,078.5
YM-2	100,490.7	49,860.6	5,063.0
YM-3	100,218.5	49,625.8	5,010.7
YM-4	100,505.3	49,675.8	5,052.3
YM-5	100,437.1	49,565.2	5,041.8
YM-6	100,278.7	49,286.7	4,949.0
YM-7	100,260.5	49,471.6	4,986.9
YM-8	100,717.9	49,749.2	4,957.9
YM-9	100,734.8	49,577.2	4,930.2
YM-10	100,177.0	49,171.1	4,893.9
YM-11	99,998.0	48,983.2	4,874.0
YM-12	100,356.5	49,788.4	5,073.6
YM-13	101,099.2	49,909.0	4,810.1
YM-14	100,110.1	49,780.1	5,050.5
YM-15	100,581.8	49,765.5	5,036.8
YM-16	100,383.9	50,017.0	5,057.1
YM-17	100,458.2	49,405.8	5,017.2
YM-18	100,637.8	50,002.4	4,990.8
YM-19	100,769.4	49,894.2	4,973.5
YM-20	100,136.5	50,065.9	5,074.7
YM-21	101,062.1	50,094.4	4,806.2
YM-22	100,172.6	49,027.2	4,884.0
YM-23	100,027.2	49,165.2	4,860.9
YM-24	100,062.9	49,349.4	4,893.5
YM-25	100,063.1	49,533.7	4,947.3
YM-26	100,427.5	49,139.4	4,911.0
YM-27	100,923.0	49,436.3	4,835.4
YM-28	100,959.3	49,648.0	4,817.0
YM-29	100,118.7	48,832.5	4,858.6
YM-30	100,331.8	49,022.5	4,894.1
YM-31	100,684.2	49,253.6	4,918.6
YM-32	100,873.5	49,960.0	4,920.2
YM-33	100,629.8	49,440.8	4,969.7
YM-34	101,468.1	49,898.0	4,671.9
YM-35	101,181.8	50,199.4	4,729.8
YM-36	101,319.7	50,064.8	4,705.2
YM-37	100,178.0	49,314.9	4,925.1
YM-38	100,374.7	49,312.5	4,983.9
YM-39	100,587.8	49,594.9	5,010.7
YM-40	100,501.3	49,506.1	5,024.4
YM-41	100,564.3	49,330.1	4,978.4
YM-42	100,760.1	49,454.9	4,909.6
YM-43	100,793.2	50,066.0	4,907.9
YM-44	100,850.2	49,780.1	4,910.5
YM-45	100,551.4	50,110.8	4,980.4

YM-46	100,057.8	48,921.0	4,883.5
YM-47	100,104.5	49,097.3	4,873.4
YM-48	99,681.3	48,754.2	4,776.6
YM-49	99,853.3	48,847.1	4,827.6
YM-50	99,861.6	49,155.5	4,818.2
YM-51	99,994.7	48,694.1	4,789.0
YM-52	99,996.4	49,214.3	4,854.5
YM-53	99,916.2	49,077.7	4,844.7
YM-54	100,413.6	49,704.6	5,060.0
YM-55	100,391.2	49,885.2	5,073.8
YM-56	100,324.7	49,962.1	5,078.2
YM-57	100,254.5	50,021.2	5,090.1
YM-58	100,323.3	50,088.3	5,055.8
YM-59	100,517.2	50,020.0	5,019.0
YM-60	100,467.5	50,107.5	5,009.9
YM-61	100,564.3	49,899.7	5,036.1
YM-62	100,361.3	49,612.9	5,039.5
YM-63	100,306.6	49,701.4	5,045.0
YM-64	100,188.0	49,738.1	5,041.5
YM-65	99,551.4	48,903.2	4,765.6
YM-66	99,378.5	48,923.0	4,764.5
YM-67	99,597.7	48,811.0	4,776.5
YM-68	99,789.8	49,232.8	4,848.5
YM-69	100,371.2	49,213.1	4,951.2
YM-70	100,258.4	49,792.7	5,058.4
YM-71	100,129.8	49,664.8	5,010.7
YM-72	100,016.3	49,691.4	5,008.8
YM-73	99,972.5	49,569.8	4,947.4
YM-74	99,982.5	49,463.8	4,899.1
YM-75	100,096.1	49,233.7	4,880.3
YM-76	100,116.0	49,610.1	4,989.5
YM-77	100,175.7	49,536.7	4,982.1
YM-78	100,309.6	49,381.9	4,985.8
YM-79	100,327.0	49,857.7	5,076.2
YM-80	100,475.4	49,755.9	5,067.1
YM-81	100,165.3	49,829.4	5,067.4
YM-82	100,217.1	49,927.8	5,091.9
YM-83	100,419.1	49,805.2	5,072.6
YM-84	100,449.6	49,950.0	5,051.8
YM-85	100,483.6	50,401.7	4,975.9
YM-86	100,636.9	50,574.2	5,010.2
YM-87	100,477.2	49,270.8	4,977.5
YM-88	100,365.6	49,438.8	5,012.3
YM-89	100,332.0	49,532.8	5,016.6
YM-90	100,292.0	49,620.8	5,027.0
YM-91	100,257.2	49,559.2	5,003.3
YM-92	100,040.8	49,620.6	4,984.9
YM-93	99,929.2	49,309.7	4,855.0
YM-94	100,137.6	49,436.6	4,939.9
YM-95	100,526.5	48,764.8	4,822.1
YM-96	101,187.1	49,017.0	4,846.3

DIAMOND DRILL HOLES

YDDH-1	100,715.1	49,740.7	4,956.8*
*YM-8	100,717.9	49,749.2	4,957.9

1.1' Difference - YDDH-1 is on road uphill from YM-8 ~10'.

ROUTE TO: J.D. Sell, W.D. Gay, S.L. Lakosky

ASARCO

Exploration Department
Western USA

W. L. Kurtz
Manager

FAX 604-737-0048

October 17, 1989

Mr. Jeff Erdman
Manning Jamison
300-1195 West Broadway
Vancouver, B.C. V6H 3X6
Canada

Dear Mr. Erdman:

In response to your October 12, 1989 letter, this is to confirm that ASARCO Incorporated has, to the best of its knowledge, carried out all obligations of Norgold to Western Building & Mining Company as of August 31, 1989 according to the agreement between those two parties.

Asarco has searched the title to the mining properties outlined in the schedule attached to your letter. However, we regret that Asarco cannot put itself in the position of confirming or denying that Western Building & Mining Company holds clear title to those mining properties.

Sincerely,

W. L. Kurtz /mek

W. L. Kurtz

WLK:mek

cc: C. Moat - Norgold Resources Inc.

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

Manning Jamison

FAX TRANSMITTAL LETTER

TO:

Firm: Asarco Inc

City: Tucson, Arizona

Attention: Mr. W.L. Kurtz

Re: Vangold Resources Inc

Your File Number:

Fax/Telecopier No.: 602-792-3934

FROM:

Manning Jamison

Vancouver, B.C.

Attention: Jeff Erdman

Our file Number: 68174.

Fax No.: (604)737-0048

WE ARE TRANSMITTING AS FOLLOWS:

Number of Pages to Follow: 3

Date: Oct 12, 1989

If you do not receive the entire transmission in legible form, please call us as soon as possible at 733-1221, Attention: Jeff Erdman

604

Additional Comments: If a response to this letter could be faxed it would be appreciated. 604-737-0048 JE

Chartered Accountants

300-1195 West Broadway Vancouver, BC V6H 3X6

Manning Jamison

October 12, 1989

BY FAX 602 - 792 - 3934

Mr. W.L. Kurtz
Manager, Exploration Department
Asarco Incorporated
1150 North 7th Avenue
P.O. Box 5747
Tucson, Arizona
U.S.A.
85703

Dear Mr. Kurtz:

Re: Norgold Resources Inc.

Further to our telephone conversation of October 11th, 1989 and in connection with the year end audit for Norgold Resources Inc. we wish to confirm that the mining properties outlined on the attached schedule were title searched by you and the registered owner, Western Building & Mining Company, was confirmed as a result of the title search. In addition, I wish to confirm that all obligations of Norgold to Western Building & Mining Company according to their purchase option agreement have been met by Asarco as at August 31, 1989.

If there are any questions with regards to the above, please do not hesitate to contact me.

Yours very truly,

MANNING JAMISON

per: Jeff Erdman

JE/mo

Encl.

Chartered Accountants
300 - 1195 West Broadway, Vancouver, B.C. V6H 3X6
(604) 733-1221 Fax 737-0048

OCT 12 '89 10:50 FROM MANNING JAMISON VCR PAGE.003

LODE MINING CLAIMS LOCATED IN YAVAPAI COUNTY, ARIZONA
TOWNSHIP 10 NORTH, RANGE 5 WEST, SECTIONS 14, 15, 22, 23

PATENTED CLAIMS

CLAIM NAME	MINERAL SURVEY NO.
JUNIPAR	1112
EDGAR	1113
EDMOND	1114
TRIANGLE	1115

UNPATENTED CLAIMS

CLAIM NAME	BOOK	PAGE	BLM NO.
ALVIN J	991	223	33458
AMENDED	996	261	
KATHERYN B	991	421	33460
KATHERYN	991	419	33459
AMENDED	996	263	
PENNSYLVANIA NO.1	1392	661	134462
SUN #1	2079	476	288941
SUN #2	2079	478	288942
SUN 3-B	2079	481	288943
AMENDED	2091	499	
SUN 6-B	2079	486	288946
AMENDED	2091	501	
SUN 7-B	2079	488	288947
AMENDED	2091	502	
SUN #8	2079	490	288948
SUN #9	2079	492	288949
SUN #10	2079	494	288950
SUN #11	2079	496	288951
SUN #12	2079	498	288952
SUN #13	2079	500	288953
SUN #14	2079	502	288954
SUN #15	2079	504	288955

OWNER: DON JENKINS

Y 1-7

FROM: W. L. KURTZ

10/18/89

To: JDS ✓
W Gary

Please handle texas

Please check Nuquest-
WBM agreement as
to data needed to
go to Bonn Rei
Exploration

NORGOLD RESOURCES INC.

ASARCO INC.
P.O. Box 5747
Tucson AZ
Attn. Mr. W.L.Kurtz

RE: A.J.Roman - Western Building and Mining Co.Inc.

Dear Bill,

Further to our telephone conversation of today's date, please find enclosed 1989 Tax Notices and a letter from Al Roman.

I spoke with Mr. Roman over the weekend and ask that you send him at your earliest convenience, a brief overview of your exploration program to-date along with proof of payment of the Taxes. A copy of your communication with Mr. Roman would be appreciated for our records.

Thank you for your co-operation.

Sincerely,

Christopher S. Moat
Chairman of the Board
Chief Executive Officer

RECEIVED
OCT 17 1989
EXPLORATION DEPARTMENT

Transl
Jennifer
Edmond

where is
Edgar

2380 Harbour Centre, P.O. Box 12122, 555 W. Hastings Street, Vancouver, B.C. V6B-4N6

(604) 681-5566

WESTERN BUILDING AND MINING CO., INC.
BOX 4006
READING, PA. 19606

October, 3/89

Dear Chris;

Please send proof of tax payment for our records.

Sincerely,

AJR

AJR al

NORGOLD RESOURCES INC.

ASARCO INC.
P.O. Box 5747
Tucson AZ
Attn. Mr. W.L.Kurtz

RE: Forrest B. Heintzelman

Dear Bill,

Further to our telephone conversation of today's date, please find enclosed 1989 Tax Notices and a letter from Forrest B. Heintzelman.

Could you please forward at your earliest convenience, a copy of your correspondence with Mr. Heintzelman concerning this matter, for our records.

Thank you for your co-operation.

Sincerely,

Christopher S. Moat
Chairman of the Board
Chief Executive Officer

RECEIVED
OCT 19 1989
EXPLORATION DEPARTMENT

2380 Harbour Centre, P.O. Box 12122, 555 W. Hastings Street, Vancouver, B.C. V6B-4N6

(604) 681-5566

FILE

Sept. 28, 1989

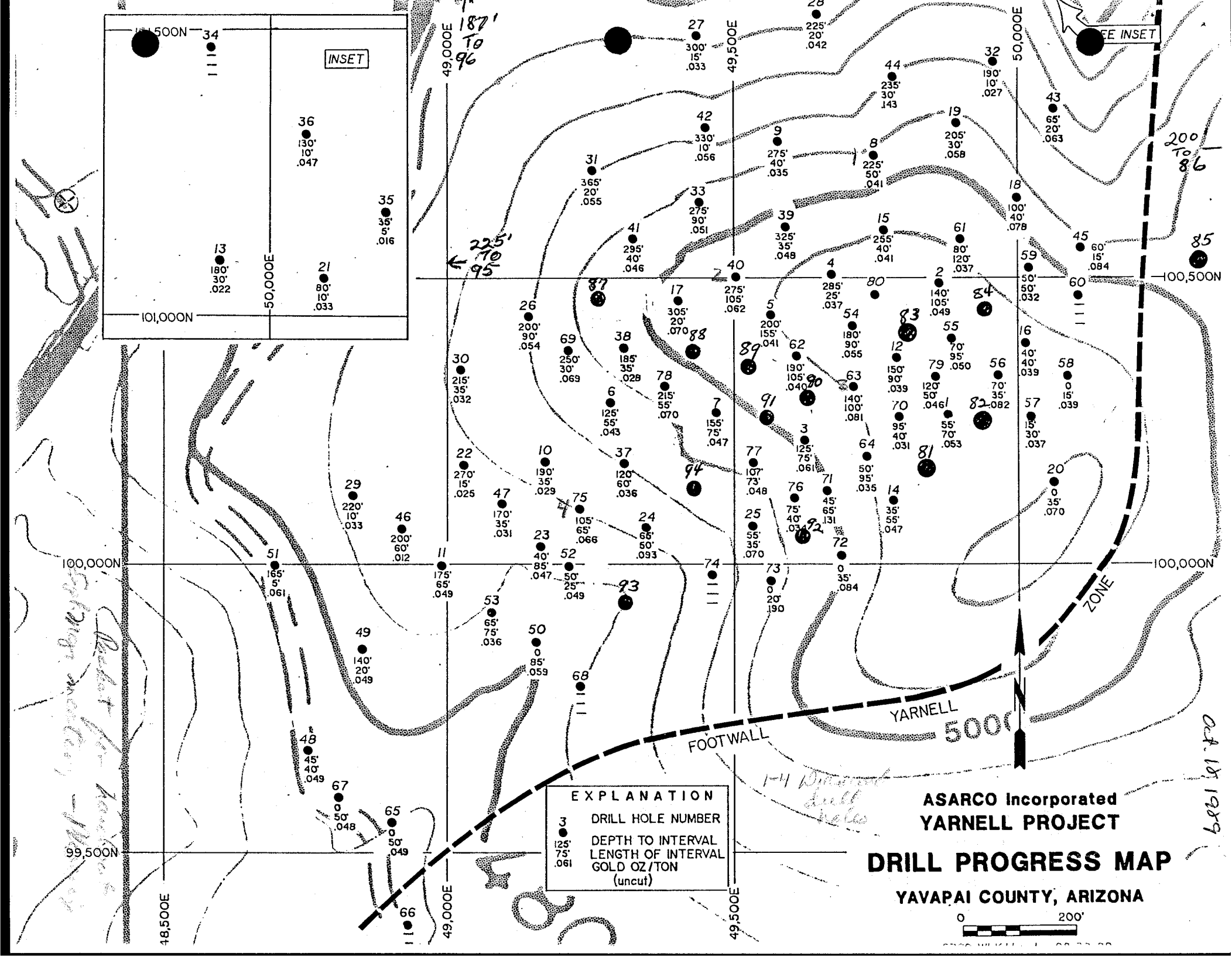
Norgold Resources (US) Inc.
2380 Harbour Centre
Post Office Box 12122
555 West Hastings St.
Vancouver, British Columbia
V6B 4N6

Dear Sirs —

As stated in our agreement Paragraph #13 these taxes are to be paid by you. I would like a copy of the paid receipt. Thank you.

Sincerely
Jonell B. Hartzelman
1315 Cedar Crest Blvd.
Allentown, Pa. 18104

RECEIVED
OCT 19 1989
EXPLORATION DEPARTMENT


INSET
101,500N
101,000N
100,500N
100,000N
99,500N
48,500E
49,000E
49,500E
50,000E
SEE INSET
FOOTWALL
YARNELL
ZONE
5000
EXPLANATION
DRILL HOLE NUMBER
DEPTH TO INTERVAL
LENGTH OF INTERVAL
GOLD OZ/TON
(uncut)
ASARCO Incorporated
YARNELL PROJECT
DRILL PROGRESS MAP
YAVAPAI COUNTY, ARIZONA
0
200'

TRIAD MINERALS COMPANY
ASSAYING & CONSULTING
P.O. BOX 2754
WICKENBURG, AZ 85358
(602) 684-3816

JDB

YM-8

ASSAY REPORT

DATE 4-3-89 COMPANY Asarco Lab # 040289-1

Hole #8

Page 1

Sample Description	Ounces per ton AU (gold)	AG (silver)	Remarks
YM-8 0-5	.004		
" " 5-10	.003		
" " 10-15	.027		

Certified Assays When Signed And Dated

4-3-89 Ed B [illegible]

DATE SIGNATURE

TRIAD MINERALS COMPANY
ASSAYING & CONSULTING
P.O. BOX 2754
WICKENBURG, AZ 85358
(602) 684-3816

ASSAY REPORT

DATE 4-4-89 COMPANY Asarco Lab #040489-2

Hole # 8 page 2

Sample Description	Ounces per ton AU (gold)	AG (silver)	Remarks
YM-8 15-20	.002		
" " 20-25	.008		
" " 25-30	.004		
" " 30-35	.037		
" " 35-40	.212	0.232 on refiner Refiering	See hole #9 sheet
" " 40-45	.015		
" " 45-50	.020		
" " 50-55	.044		
" " 55-60	.010		
" " 60-65	.004		A= 30-225 = 195 = 0.863/39 = 0.02213 = 195' at 0.022
" " 65-70	.023		
" " 70-75	.010		
" " 75-80	.037		1.272 = 0.02596
" " 80-85	.008	30-225 = 49	
" " 85-90	.011	245' @ 0.026	
" " 90-95	.012		
" " 95-100	.015		
" " 100-105	.004		
" " 105110	.010		
" " 110-115	.011		
" " 115-120	.033		
" " 120-125	.005		

Certified Assays When Signed And Dated
4-4-89 [signature]
DATE SIGNATURE

TRIAD MINERALS COMPANY
ASSAYING & CONSULTING
P.O. BOX 2754
WICKENBURG, AZ 85358
(602) 684-3816

ASSAY REPORT

DATE 4-4-89 COMPANY Asarco Lab # 040489-2

Hole #8 page 3

Sample Description	Ounces per ton AU (gold)	AG (silver)	Remarks
YM-8 125-130	.011		
" " 130-135	.047		
" " 135-140	.017		
" " 140-145	.004		
" " 145-150	.004		
" " 150-155	.020		
" " 155-160	.043		
" " 160-165	.008		
" " 165-170	.047		
" " 170-175	.014		
" " 175-180	.016		
" " 180-185	.029		
" " 185-190	.004		
" " 190-195	.009		
" " 195-200	.019		
" " 200-205	.012		
" " 205-210	.005		
" " 210-215	.019		
" " 215-220	.010		
" " 220-225	.004		
" " 225-230	.047		
" " 230-235	.044	-235 -5 0.030	
" " 235-240	.029		

Certified Assays Were Signed And Dated
4-4-89 [signature]
DATE SIGNATURE

TRIAD MINERALS COMPANY
ASSAYING & CONSULTING
P.O. BOX 2754
WICKENBURG, AZ 85358
(602) 684-3816

ASSAY REPORT

DATE 4-4-89 COMPANY Asarco Lab #040489-2

Hole #8 page 4

Sample Description	Ounces per ton AU (gold)	AG (silver)	Remarks
YM-8 240-245	.018		
" " 245-250	.013		D: 225-275 = 50' = 0.409/10 = 0.0409. 50' at 0.041
" " 250-255	.048		
" " 255-260	.087		[illegible] 255 - 265 = 10 = 0.075
" " 260-265	.063		
" " 265-270	.023		
" " 270-275	.037		
" " 275-280	.004		
" " 280-285	.005		
" " 285-290	.002		
" " 290-295	.003		
" " 295-300	.004		
" " 300-305	.004		
" " 305-310	.003		
" " 310-315	.005		
" " 315-320	.003		
" " 320-325	.005		
" " 325-330	.004		
" " 330-335	.003		
" " 335-340	.005		
" " 340-345	.002		
" " 345-350	.002		

Certified Assay
Signed And Dated
4-4-89 [illegible]
DATE SIGNATURE

JDS

BULK ASSAY REPORT

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

DATE 7-24-89

ASARCO Incorporated
JUL 25 1989
SW Exploration

COMPANY ASARCO

LAB # 072389-2

HOLE # 40

PAGE 1

Sample Description	Ounces per ton AU (gold)	AG (silver)	Remarks
YM-40 0-5	.007		
" " 1-4	~~.027~~ ch sample		
" " 5-10	.002		
" " 10-15	.003		
" " 15-20	.002		
" " 20-25	.010		
" " 25-30	.009		
" " 30-35	.003		
" " 35-40	.002		
" " 40-45	.013		A 20-80 = 60 = [illegible] = 0.013 x
" " 45-50	.002		60' at 0.014
" " 50-55	.004		
" " 51-54	~~.025~~ ch sample		
" " 55-60	.007		
" " 60-65	.021		
" " 65-70	.004		
" " 70-75	.003		
" " 75-80	.088		
" " 80-85	.005		
" " 85-90	.003		
" " 90-95	.003		
" " 95-100	.002		
" " 100-105	.002		
" " 105-110	.002		
" " 110-115	.003		

Certified Assays When Signed And Dated
7-24-89 [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 7-24-89

ASARCO Incorporated
JUL 25 1989
SW Exploration

COMPANY ASARCO LAB # 072389-2

HOLE # 40 PAGE 2

Sample Description	Ounces per ton AU (gold)	Ounces per ton AG (silver)	Remarks
YM-40 115-120	.002		
" " 120-125	.003		
" " 125-130	.005		
" " 130-135	.003		
" " 135-140	.004		
" " 140-145	.028		
" " 145-150	.006		
" " 150-155	.009		
" " 155-160	.008		
" " 151-154	~~.008~~ check		
" " 160-165	.016		
" " 165-170	.004		
" " 170-175	.003		
" " 175-180	.002		
" " 180-185	.003		
" " 185-190	.002		
" " 190-195	.002		
" " 195-200	.004		
" " 200-205	.004		
" " 205-210	.015		
" " 202-204	~~.023~~ check		
" " 210-215	.003		
" " 215-220	.003		
" " 220-225	.013		
" " 225-230	.003		

Certified Assays When Signed And Dated
7-24-89 [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 7-24-89

ASARCO Incorporated
JUL 25 1989
Gold Exploration

COMPANY ASARCO

LAB # 072389-2

HOLE # 40

PAGE 3

Sample Description	Ounces per ton AU (gold)	Ounces per ton AG (silver)	Remarks
YM-40 230-235	.007		
" " 235-240	.011		
" " 240-245	.006		
" " 245-250	.003		
" " 250-255	.003		
" " 255-260	.003		
" " 260-265	.009		
" " 265-270	.003		
" " 270-275	.005		275-310 = 35 = 0.226 / 7 = 0.04082 35' at 0.041
" " 275-280	.023		310-380 = 70' = 1,014 / 14 = 0.0724 70' at 0.072
" " 280-285	.018		
" " 285-290	.012		275-380 = 105 = 1,300 / 21 = 0.0619 105' @ 0.062
" " 290-295	.129		
" " 295-300	.036		
" " 300-305	.041		
" " 305-310	.027		
" " 301-304	~~.008~~		
" " 310-315	.177		
" " 315-320	.071		
" " 320-325	.013		
" " 325-330	.021		
" " 330-335	.162		
" " 335-340	.043		
" " 340-345	.034		
" " 345-350	.108		

Certified Assays When Signed And Dated
7-24-89
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 7-24-89

ASARCO Incorporated
JUL 25 1989
SW Exploration

COMPANY ASARCO LAB # 072389-2

HOLE # 40 PAGE 4

Sample Description	Ounces per ton AU (gold)	AG (silver)	Remarks
YM-40 350-355	.081		
" " 355-360	.131		
" " 360-365	.043		
" " 365-370	.079		
" " 370-375	0.033 LOST BEAD REFIRE		
" " 375-380	.018	/	
" " 380-385	.005		
" " 385-390	.003		
" " 390-395	.009		
" " 395-400	.004		

Certified Assays When Signed And Dated
7-24-89 [signature]
DATE SIGNATURE

JDS

BULK ASSAY REPORT

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

DATE 7-25-89

ASARCO Incorporated
JUL 26 1989
SW Exploration

COMPANY ASARCO LAB#072489-1

REFIRES

Sample Description	Ounces per ton AU (gold)	Ounces per ton AG (silver)	Remarks
YM-39-290-295	.031		
YM-40-370-375	.033		

Certified Assays When Signed And Dated
7-25-89 [signature]
DATE SIGNATURE

JDS

BULK ASSAY REPORT

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

DATE 8-30-89

ASARCO Incorporatc

AUG 31 1989

SW Exploration

COMPANY ASARCO LAB #082989-2

HOLE # 63

PAGE 1

Sample Description	Ounces per ton AU (gold)	Ounces per ton AG (silver)	Remarks
YM 63 0-5	.002		
" " 5-10	.001		
" " 10-15	.057		
" " 15-20	.003		
" " 20-25	.004		
" " 25-30	.038		
" " 30-35	.002		
" " 35-40	.005		
" " 40-45	.004		A [illegible] 26 = 0.011
" " 45-50	.005		
" " 50-55	.002		
" " 55-60	.015		
" " 60-65	.011		
" " 65-70	.042		
" " 70-75	.005		
" " 75-80	.002		
" " 11-13	~~.033~~	control	
" " 80-85	.014		
" " 85-90	.004		
" " 90-95	.005		
" " 95-100	.003		
" " 100-105	.010		
" " 105-110	.004		
" " 110-115	.001		
" " 111-113-B	~~.015~~	control	

Certified Assays When Signed And Dated

8-30-89 [signature]
DATE SIGNATURE

refile .004

BULK ASSAY REPORT

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

DATE 8-30-89

ASARCO Incorporated

AUG 31 1989

SW Exploration

COMPANY ASARCO LAB #082989-3

HOLE # 63

PAGE 2

new point refire	Sample Description	Ounces per ton AU (gold)	AG (silver)	Remarks
.007	YM 63 115-120	.009		
.009	" " 120-125	.009		
.011	" " 125-130	.015		
.020	" " 130-135	.019		
.011	" " 135-140	.011		
.048	" " 140-145	.073		
.012	" " 145-150	.016		
.115	" " 150-155	.118		
.08	" " 155-160	.045 use		
.055	" " 155-160	.041		
.033	" " 160-165	.024		140-240 TD = 100' = 1.625/20 = 0.081
.021	" " 165-170	.033		B 100' at 0.081
.042	" " 170-175	.048		
.016	" " 175-180	.018		See refire 9/6/89
.126	" " 180-185	.137		100' at 0.073
.098	" " 185-190	.100		
.174	" " 190-195	.203		
.167	" " 195-200	.200		
.103	" " 200-205	.116		
.100	" " 205-210	.093		
.204	" " 210-215	.191		
	" " 211-213	~~.020~~	contd	
.048	" " 215-220	.030		
.042	" " 220-225	.078		

Certified Assays When Signed And Dated

8-30-89 [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 8-30-89

ASARCO Incorporated

AUG 31 1989

COMPANY ASARCO LAB #082989-4

HOLE # 63 PAGE 3

refer

refer	Sample Description	Ounces per ton AU (gold)	AG (silver)	Remarks
.009	YM 63 225-230	.016		
.014	" " 230-235	.015		
.001	" " 235-240	.071	refer 0.002	

Certified Assays When Signed And Dated

8-30-89

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 9-6-89

COMPANY ASARCO LAB #090589-1

HOLE # 63 REFIRES

PAGE 1

Sample Description	Ounces per ton AU (gold)	AG (silver)	Remarks
YM 63 110-115	.004		
" " 111-113-B	~~.008~~	control	
" " 115-120	.007		
" " 120-125	.009		
" " 125-130	.011		
" " 130-135	.020		
" " 135-140	.011		
" " 140-145	.048		
" " 145-150	.012		
" " 150-155	.115		
" " 155-160	.058		FINES ONLY
" " 155-160	.035		
" " 160-165	.022		140-240 = 100' = 1.467 / 20 = 0.07335
" " 165-170	.021		100' at 0.073
" " 170-175	.042		
" " 175-180	.016		
" " 180-185	.126		
" " 185-190	.098		
" " 190-195	.174		
" " 195-200	.167		
" " 200-205	.103		
" " 205-210	.100		
" " 210-215	.204		
" " 211-213	~~.021~~	control	

Certified Assays When Signed And Dated

9-7-89 [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 9-6-89

ASARCO Incorp.
SEP 7 1989
SW Exploration

COMPANY ASARCO LAB #090589-2

HOLE # 63 REFIRES PAGE 2

Sample Description	Ounces per ton AU (gold)	Ounces per ton AG (silver)	Remarks
YM 63 215-220	.048		
" " 220-225	.042		
" " 225-230	.009		
" " 230-235	.014		
" " 235-240	.061		

Certified Assays When Signed And Dated
9-7-89 [illegible]
DATE SIGNATURE

JDS

BULK ASSAY REPORT

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

DATE 9-1-89

ASARCO Incorporated

SEP 5 1989

SW Exploration

COMPANY ASARCO LAB. #083189-2

REFIRES

Sample Description	Ounces per ton AU (gold)	Ounces per ton AG (silver)	Remarks
YM 63-235-240	.062	✓	
YM 64-190-195	.023	✓	
YM 59-185-190	.153	✓	

Certified Assays When Signed And Dated

9-1-89 Ray D Edwards

DATE SIGNATURE

JDS

BULK ASSAY REPORT

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

DATE 9-10-89

ASARCO Incorporated

SEP 1 2 1989

COMPANY ASARCO LAB #090989-4

HOLE # 75

PAGE 1

Sample Description	Ounces per ton AU (gold)	Ounces per ton AG (silver)	Remarks
YM 75 0-5	.003		
" " 5-10	.001		
" " 10-15	.001		
" " 15-20	.002		
" " 20-25	.003		
" " 25-30	.002		
" " 30-35	.002		
" " 35-40	.002		
" " 40-45	.005		
" " 45-50	.004		
" " 50-55	.004		
" " 55-60	.003		
" " 60-65	.004		
" " 65-70	.016		
" " 70-75	.028		
" " 75-80	.011		
	(continued)		

SW Exploration

Certified Assays When Signed And Dated

9-10-89 [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 9-11-89

ASARCO Incorporated

SEP 12 1989

COMPANY ASARCO LAB #091089-1

HOLE # 75

PAGE 2

Sample Description	Ounces per ton AU (gold)	Ounces per ton AG (silver)	Remarks SW Exploration
YM 75 80-85	.010		
" " 85-90	.026		" 65=200 = 135' = 1.154/27 = 0.0427
" " 90-95	.021		
" " 95-100	.035		A=65-105=40'=0.184/8=0.023 40' at 0.023
" " 100-105	.037		
" " 101-104	~~.007~~	contd	
" " 105-110	.062		
" " 110-115	.064		85-170=85'=0.982/17=0.05776
" " 115-120	.024		85' at 0.058
" " 120-125	.047		
" " 125-130	.067		B=105-170=65'=0.863/13=0.06638
" " 130-135	.088		65' at 0.066
" " 135-140	.006		
" " 140-145	.043		
" " 145-150	.138		
" " 150-155	.118		
" " 151-154	~~.022~~	contd	
" " 155-160	.110		
" " 160-165	.051		
" " 165-170	.045		
" " 170-175	.010		
" " 175-180	.010		
" " 180-185	.027		
" " 185-190	.018		
" " 190-195	.020		

Certified Assays When Signed And Dated
9-11-89 [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 9-11-89

ASARCO Incorporated

COMPANY ASARCO LAB #091089-2

HOLE # 75

PAGE 3

SEP 1 2 1989
SW Exploration

Sample Description	Ounces per ton AU (gold)	Ounces per ton AG (silver)	Remarks
YM 73 195-200	.022		
" " 200-205	.003		
" " 201-204	.008	certified	
" " 205-210	.004		
" " 210-215	.002		
" " 215-220	.001		

Certified Assays When Signed And Dated

9-11-89 [signature]
DATE SIGNATURE

10/19/09

1:20 pm

FROM: W. L. KURTZ

TO: YD Sell

Mr. Brown phoned:

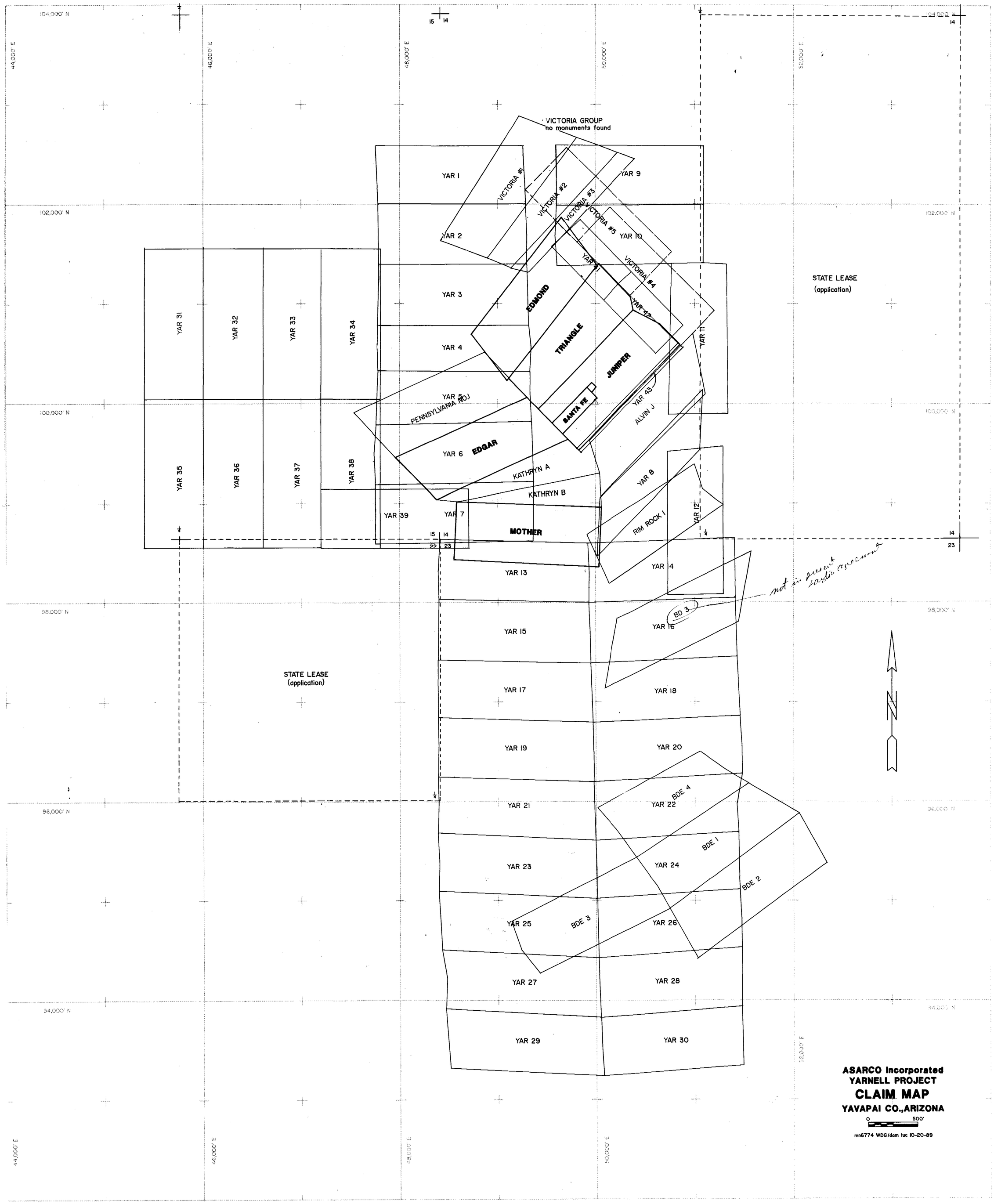
You must immediately call Terry Haggard to set up field meeting at Yarnell to review all data as related to "Santa Fe". Important that you have everything: qc dogy

assays - surface

drill assays

Add to Sell over phone 10/19

done


104,000' N
102,000' N
100,000' N
98,000' N
96,000' N
94,000' N
44,000' E
46,000' E
48,000' E
50,000' E
52,000' E
VICTORIA GROUP
no monuments found
VICTORIA #1
VICTORIA #2
VICTORIA #3
VICTORIA #4
VICTORIA #5
YAR 1
YAR 2
YAR 3
YAR 4
YAR 5
YAR 6
YAR 7
YAR 8
YAR 9
YAR 10
YAR 11
YAR 12
YAR 13
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YAR 32
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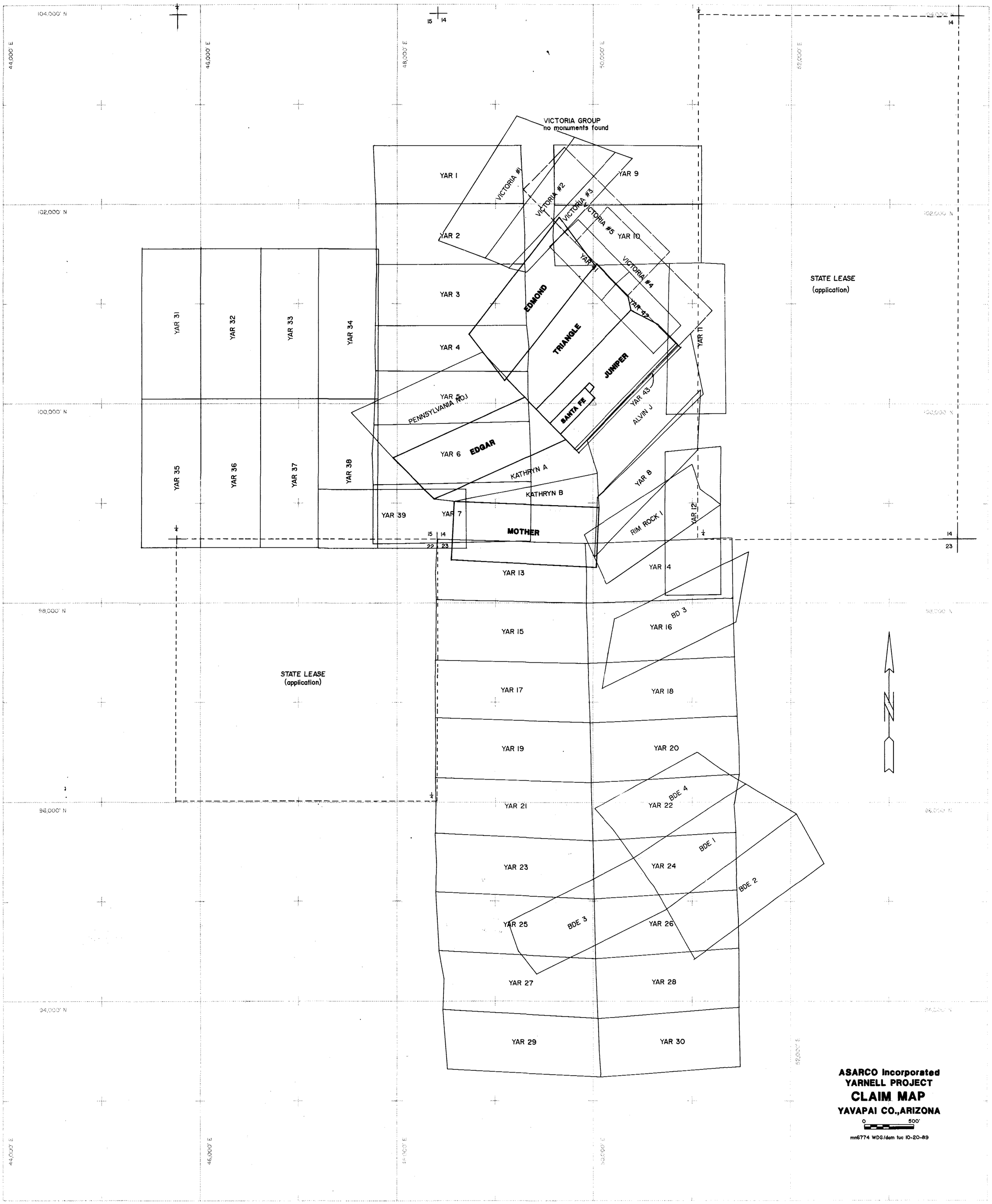
YAR 34
YAR 35
YAR 36
YAR 37
YAR 38
YAR 39
YAR 41
YAR 42
YAR 43
EDMOND
TRIANGLE
JUNIPER
SANTA FE
PENNSYLVANIA NO.1
EDGAR
KATHRYN A
KATHRYN B
MOTHER
RIM ROCK I
ALVIN J
BD 3
BDE 1
BDE 2
BDE 3
BDE 4
STATE LEASE
(application)
STATE LEASE
(application)
not in present lease agreement
N
ASARCO Incorporated
YARNELL PROJECT
CLAIM MAP
YAVAPAI CO., ARIZONA
0
500'
mn6774 WDG/dam tuc 10-20-89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14
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23
VICTORIA GROUP
no monuments found
VICTORIA #1
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VICTORIA #4
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YAR 41
YAR 42
YAR 43
EDMOND
TRIANGLE
JUNIPER
SANTA FE
PENNSYLVANIA NO.1
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(application)
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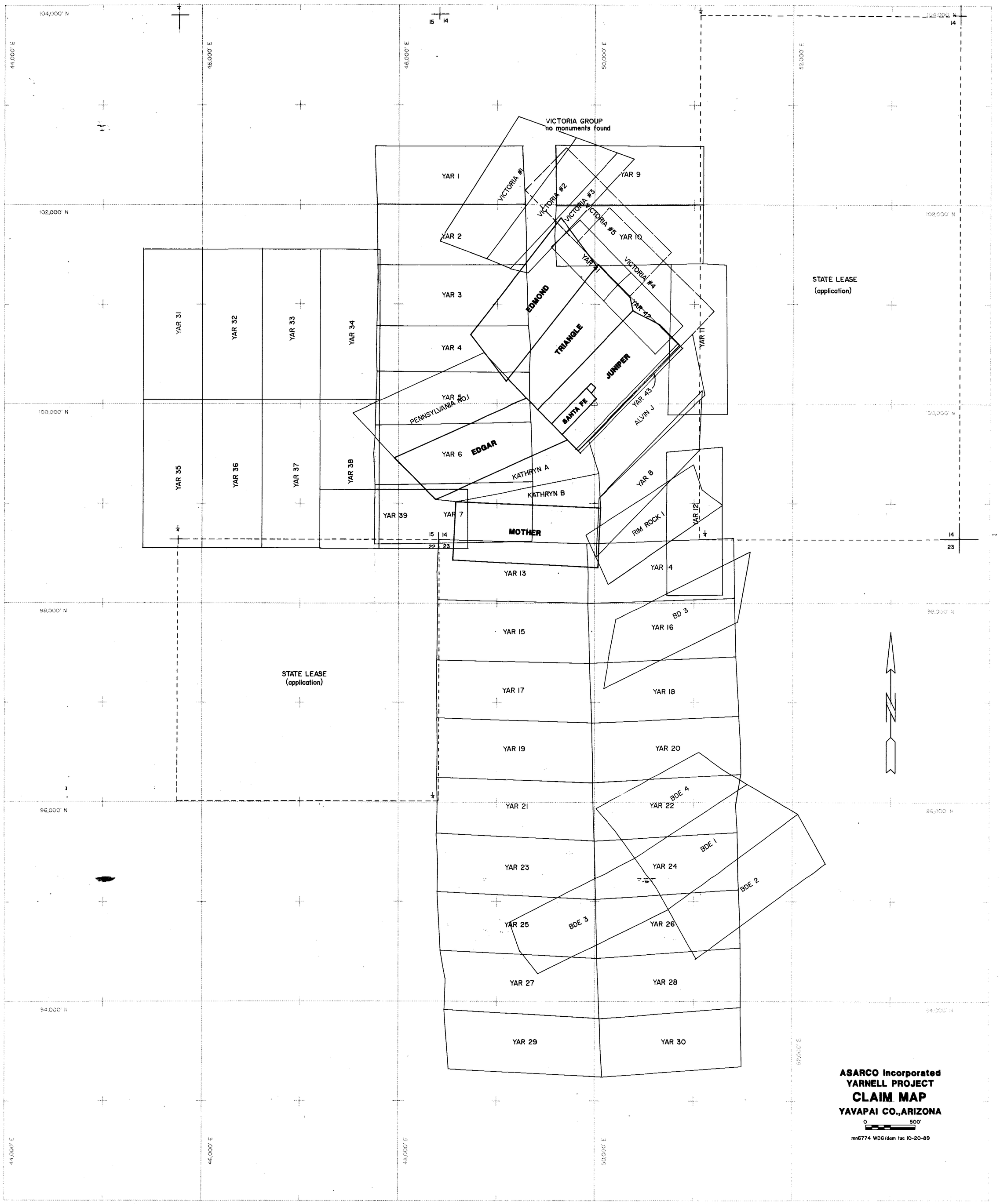
ASARCO Incorporated
YARNELL PROJECT
CLAIM MAP
YAVAPAI CO.,ARIZONA
0
500'
mn6774 WDG/dam tuc 10-20-89


104,000' N
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VICTORIA GROUP
no monuments found
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YAR 1
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YAR 3
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YAR 5
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YAR 7
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YAR 9
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YAR 11
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YAR 35
YAR 36
YAR 37
YAR 38
YAR 39
YAR 42
YAR 43
EDMOND
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KATHRYN A
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BD 3
BDE 1
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BDE 4
STATE LEASE
(application)
STATE LEASE
(application)
15
14
22
23
N
ASARCO Incorporated
YARNELL PROJECT
CLAIM MAP
YAVAPAI CO.,ARIZONA
0
500'
mn6774 WDG/dam tuc 10-20-89

DO NOT TRIM

10/20/89

Mark Miller:

Please bring in all your 35mm slides of Yarnell

As Jim told you Tom Osborne has nominated me to give a Yarnell talk at Pel. Expl. Meeting.

I would like you to write up the history, geology, and anything ~~else~~ you want to help me do a good job.

Bill Kurtz

a. Jim Sell — If you have any 35mm slides please bring them in.

done 10/23

JDSell

ASARCO

Southwestern Exploration Division

October 20, 1989

Apex not The word for Miller to ever use and I hope he did not use it with the BLM.
Outcrop fine
Dip fine

J.D. Sell

BLM Reassessment
Sec. 15 SE¼
Yarnell Project
Yavapai County, AZ

Written here, but hopefully not spoken there!

On October 16, 1989 I met with Bob Fisk, geologist for the Phoenix District BLM, regarding the mineral potential of the SE¼ Section 15, T10N, R5W. This is included in the application for mineral conveyance by Senator John Hays. I pointed out to Mr. Fisk the Apex of the Yarnell Fault in the road cut and stressed the continuity of the structure both on strike and downdip. Mr. Fisk said that the BLM will reassess their mineral report of June 10, 1986 and will recommend exemption of the SE¼ from the conveyance application.

Mark A. Miller/mek

MAM:mek

Mark A. Miller
Project Geologist

cc: W.L. Kurtz
R.L. Brown
F.T. Graybeal
S.L. Lakosky

ASARCO

Southwestern Exploration Division

JDS

October 20, 1989

J.D. Sell

BLM Reassessment
Sec. 15 SE¼
Yarnell Project
Yavapai County, AZ

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Mark A. Miller/mek

MAM:mek

Mark A. Miller
Project Geologist

cc: W.L. Kurtz
R.L. Brown
F.T. Graybeal
S.L. Lakosky

DIAMOND DRILL RECORD

Coord. _____ N _____ E Elev. _____ PROPERTY YARNELL PROJECT HOLE NO. Y-DDH-1 10/21/89

Bearing – Inclination VERTICAL Depth 350' LOCATION YM-8 REVERSE CIRCULATION LOCATION

Started 9-25-89 Completed 9-29-89 Notes by M. MILLER Scale 1" = 10' Sheet 1 of 4

Bogles Brothers, Longyear 44, hydraulic

DEPTH	% REC	A	ROCK TYPE	ALTERATION	B	C	D	E	MINERALIZATION	Graphic Col.	CORE ASSAYS	Y/M-8
0			NC core CASING-	NO RECOVERY								.004
75			GRANITE-M/CRS GRND MOD EQUI-GRANULAR TYPICAL ASSEMBLAGE QZ, FPAR, BIOTITE LT PALE BLUE QZ "EYES" SLT OPALESCENT.	CORE V. FRIABLE DUE TO WEATHERING. BIOTITE + SERICITIC FPARS.					LOW % FRACTS TO CORE (75°) w/ MINOR LIM/OXIDATION. (MOSTLY AS MCB) AND ALONG CORE BREAKS			.003
				AS ABOVE BUT MORE COMPETENT CORE "CREAM COLORED" ALT. PRODUCT 1-1% USU ASS w/ BIO. ALSO PINKISH RED ALT PROD. ASS w/ BIOTITE								.027
			BROKEN ZONE						BROKEN ZONE w/ LIM FRACTS- (WK) + OXIDATION (WK)			.002
			BROKEN ZONE						H.L WK OXIDIZED FRACTS.			.048
									OXIDATION + WK LIM ON FRACTS			
						X			QZ VEINING w/ SILICIFICATION SELVEGE			.004
			SLT BLEACHED? BIOT. Granite WEARER BIOT. THAN ABOVE						HI % WK OXIDIZED FRACTS 20° ⊥ to CORE			.037
				LT GREEN CLAY MIN ON FRACTS - WHAY IN APP 2-3% ALONG FRACTS - DEC BIOTITE					WKLY OXIDIZED BUT SILIC FRACTURES. SOME LIMONITE IN FRACT FILLINGS. POSS WK STOCKWORK FRACTS -			
60			- POSS FAULT ZONE w/ QZ VEINING + GOUGE?									.212
			SAME AS ABOVE BUT MUCH MORE ALTERED. STILL LT PALE BLUE QZ INCLUSIONS - BUT ALT HAS DESTROYED TEXTURE	STRONG SERICITIC + SILIC ALT - V. WK BIO - POSS SEC.??					Py REPS (LIM/Py) w/in SILICIFIED ZONE 1-2% SOME OFFSETTING FRACTS WK MN STAINING ON FRACT QUARTZ VNS (WHT) w/in VNS ¼" IN THICKNESS. HIGHLY FRACT ZONE w/ LIM. PSEUDOMORPHS	70		.285 REF
				RED ALT ASS w/ BIOTITE V.V. WK BIOTITE					X-CUTTING - LIMONITIC FRACTS + DISS LIM/Py 1-2% FROM 20-70° ¼" QZ VN	55		.015
65			- BROKEN/GOUGY ZONE POSS FA? POSS SILIC GOUGE?	BOAD STRONG ALT ZONE					MN FRACT KETING ¼-½" RED HM w/ REPS Py/LIM STRONGLY BROKEN ZONE 2" SILIC - Py/LIM REPS -			.012
0			CRS GRND GRANITE WKLY ALT - BIOTITE PRESS - 6-8%	MOD SERICITIC K-SPARS - SLT PINK PLAG w/ MOD SILIC		X			MOST LOW % FRACTS w/ MINOR LIM/OXIDATION - 6" ZONE w/ NEARLY FLAT QZ VNS - 1-2" IN THICKS SPEC HM ON BOTTOM QZ VN ¼-½" Py/LIM			.044
						X			LIMONITIC "GOUGE" ON CORE BREAKS ¼" QZ VN	65		
				DEC SILICA		X			LIMONITIC FRACTS ESPON CORE BREAKS - ½" CRUST FLUFFY TAN LIM w/ SPEC HM - Lim.	LIMONITIC CRUSTS ON FRACTS		.080
35			- BROKEN - POSS FA. CEMENTED? GOUGE?	WK/MOD SERICITIC FPARS -		X			LIMONITIC FRACT ¼" TIC.	55		.004
						X			HI % LIM FRACT ¼" QZ VNS →	60		
			- BROKEN ZONE	BIOTITES BECOMING MORE ALT - POSS CHLORITIC?								.013
50			AS ABOVE BUT LESS BIOTITE - STILL PINK PLAG SPARS -			X			BROKEN ZONE - LIMONITIC FRACTS. MOSTLY HI % LIM "PAINT" ½" QZ VN - / ASS II H.L VALTS.	50		
			GRS GRN'D GRANITE >10% BIOTITE - MOD/SM SER. FPARS -	ABU. BIOTITE - AB SERICITIC FELDSPARS.					1' RED HEM Py/LIM + SILIC ZONE PROB A VEIN THRU QZ VNS w/ IN.	60 50		.01
									FAMILY OF 50-60° H.L FRACTS - WKLY LIMONITIC.	50 60°		.037
50			AS ABOVE BUT MORE ALT - LESS BIOTITE BASE	DEC BIOTITE BECOMING MORE ALT?					RARE LIMONITIC FRACTS - RARE "GREASY" GRN CLAY ON FRACT SURFACES			.008
									SPEC HM/LIM FRACTS - ASS. QZ VNS -	30		
			- BROKEN ZONE						BROKEN ZONE QZ VNS w/ IN	60		.011
				APPEARS TO BE SILICA FLOODING →								
60			INC IN BIOTITE CHANGE OCCURS @ QZ VEIN. 6-8%	THIN SILIC SELVEGE SOME QZ VNS -					ASSOC Py/LIM CUBES DISS 1-2% V. HIG H % QZ VN MINOR OR/YELL LIM "PAINT"			.012
				MORE ALT AROUND QZ VNS -					QZ VEINS - LIMONITIC - DISS Py/LIM CUBES - 1% X-CUT - LIM FRACT	70 60		.015

JDS copy

DIAMOND DRILL RECORD

HOLE NO. Y-DDH-1

Coord. _____ N _____ E Elev. _____ PROPERTY _____

Bearing _____ Inclination _____ Depth _____ LOCATION _____

Started _____ Completed _____ Notes by _____ Scale _____ Sheet 2 of 4

DEPTH	% REC	ROCK TYPE (A)	ALTERATION	B	C	D	E	MINERALIZATION	Graphic Col.	CORE ASSAYS
100	50	← CONTACT ON QZ VN 8-10% BIOTITE	BIOTITE STILL PRESENT FELDSPAR SERICITIC SOFT (SCHIST) — SILICA FLOODING →					H.L QZ Veins Ass w/ Limonite As Well.	100	.004
	50	LESS BIOTITE - MORE CHLORITIC/ALT 3% — XENOLITH @ 109'	SILICA FLOODING GGP AROUND QZ VNS SELVEGE. — SILICA FLOODING ASSOC W/ QZ VN.					Py/Lim Ass w/ Silic Zone + QZ Veining - SULFIDES MAINLY RESTRICTED TO QZ VNS — TN 1/8" QZ VNS →		.01
110		MOD BIOTITE THRU PAN INTERVAL 4-5%	MOD/STRONG SERICITE ON FELDSPARS. — POSS QZ FLOODING BUT WK					EARTHY YELLOW BRN LIM ON FRACTS w/ SPEC HM — INCREASING SPEC HM ASS w/ EARTH YELL BROWN BRN LIM		.011
120								X-CUTTING 85-70° FRACTS LOCAL SPEC HM — 2" LIM FILLED FRACTURE SPEC HM VEINS W/IN. ‖ QZ VNS → 1/2" TH - LIM + Py VEINS ASS w/ QZ VNS - SOME MINOR X-CUTTING VNS. 7/FT - X-CUTTING SPEC HM VNLT OPEN LIM FRACT		.033
								LOW % QZ VNS CUTTING LIMONITIC FRACTS (OPEN) + OFFSETTING LIMONITIC FRACTS 1/4" OPEN LIMONITIC FRACT →		.005
	80	AS ABOVE - WEAKER BIOTITE 2% BIOTITE MORE CHLORITIC - 6" GOUGE ZONE FAULT?	STRONG SILICA FLOODING - ASS w/ QZ VNS - BIOTITE → PARTIALLY TO CHLORITE					Py/LIM AT CONTACT → ABU QZ VEINING + SILIFICATION → POSS 2' QZ VN - Py/Lim 2-3% DISS w/in. SOME X-CUTTING QZ VEINING ‖ QZ VNS 8/FT →	130	.011
	60							W/K LIMONITIC STOCKWORK → FAULT ZONE 6" GOUGE →		.047
		- BROKEN ZONE - PROB MYLONITIC FAULT FABRIC						LIMONITIC FRACTS/THROUGH W/K LIMONITIC STOCKWORK. PRINCIPAL DIP IS +/- 70° BRECCIATED QZ VN	140	.017
	60	1" MYLONITE ZONE	V.V.FG BIOTITE →							.004
		1" XENOLITH - V.FG. SCHIST??	SILICA FLOODING — PATCHY BIOTITE GRADUALLY OUT					LIMONITIC FRACTS - X-CUTTING 2-4 QZ VNS/FT.		.004
150	60	CONTACT ON QZ VEIN ABUND. BIOTITE CONTACT ON TN QZ VN.	REMNANT OF SILICA BIOTITE GRANT - SERIFDAR.						150	
	60	MOD/STRONG ALT - TEXTURE IS MOSTLY DESTROYED. FEW REMNANTS OF UNALT ROCK - BIOTITE INCLUDED W/IN.	PINKISH ALT ASS W/ BIOTITE — BIOTITE PATCH — SILICA FLOODING — W/K BIOTITE W/IN INTERVAL					QZ VNS W/ Py/Lim REGIMS 1% SULFIDES. X-CUTTING FRACT'S - 6" QZ VN W/ SULFIDES (OXID) 2-3% Py/Lim CUBES DISS SULFIDES. ASS W/ QZ VNS. 2-3 QZ VNS/FT DISS → QZ SULFIDES 1-2%	160	.02
			BIOTITE ↓ CHLORITIC FEW PATCHES OUT FROM FRESH BIOTITE					SPEC HM FRACT. LIMONITIC + QZ VNS + FRACTS — 1/2" GOUGE ZONE QZ VEINING W/ SULFIDES ASS. W/ QZ VEINING		.043
			PROB CHLORITIC — TR RED V.F.G. BIOTITE					EARTHY BROWN LIMONITE → SPECULAR HEMATITE ON FRACTS LIM. FRACTS →	170	.008
	70	- GOUGY ZONE 6-8"						X-CUTTING + CUT OFF QZ VNS - POSS 2 STAGES OF QZ? OFFSETTING MOVEMENTS ON FRACTS BOTH ON QZ VNS + LIM. FRACTS.		.047
		- BROKEN GOUGY ZONE SLICKENSIDES W/IN ZONE						LIMONITIC QZ VNS - + LIM IN FRACTS		.014
180								V. MINOR OX SULFIDES. ALONG QZ VNS. 2" QZ VN V.V FINE DISS OX SULFIDES - EST 1% OX SULFIDES (Py ASTS) LIMONITIC VNLTS -	180	.016
								FAULT BRECCIA? GOUGE MINOR SPEC HM VNLTS W/K/MOD LIMONITIC - QZ VN FRACS W/ DISS SULF (OX)		.029
								SPEC HM DISS ALONG FRACTS/ SOME W/ QZ FRESH Py DISS. ON FRACTURE RED HEMATITIC STAINING	190	.004
			W/K BIOTITE PATCHES MOST CHLORITIC -					PRIMARY Py (FRESH) ASS W/ QZ VNS. TR MALACHITE W/ QZ VNS. 7/8 VNS/FT. QZ Py W/ QZ VNS	200	.019

DIAMOND DRILL RECORD

HOLE NO. Y-DDH-1

Coord. _____ N _____ E Elev. _____ PROPERTY _____

Bearing _____ Inclination _____ Depth _____ LOCATION _____

Started _____ Completed _____ Notes by M. MILLER Scale 1" = [illegible] Sheet 3 of 4

DEPTH	% REC	A	ROCK TYPE	ALTERATION	B	C	D	E	MINERALIZATION	Graphic Col.	CORE ASSAYS YM-8 RC Au
200			Broken Zone - Wk Gouge Granite m/Cas Comp - Strongly Alt - Sericitic w/ Fpars -	Little Rem Biotite Rest Alt → Chlorite? Feldspars Strongly Sericitic. Silica Flooding - Some Textural Destruction					Probable Fault Zone Gouge - Spec Hm on Lim Fault → 2% Sul Ass w Qz Vns 2-3 Qz Vns/Ft. Abu. Hi% Lim. Veins		.012
210			Broken, Gouge Zone						Diss Ox Sulfides in Silic Zone. Hi% Limonitic Fracts		.005 .019
220			Broken Cup Type Fracturing. 1" Gouge Zone. Broken Tuff @ 228' Poss Fault? 1 1/2" Gouge Zone.	Strong Silica Flooding. Strong Silica Flooding. Feldspars Bleached out Prominent-spars-wat.					Qz Veining w/w Slickensides on Fractures. F.G Hi% Sulfides? w/ 2% Py casts Gst 1% Py. Gouge Zone on Top. Lim Fracts/Qz @ Bs. Abu. Lim Filled Fracts w/ Minor Spec Hm - w/ Diss Py (Ox) Cubes 1/8 - 1/4. 10 Qz Vns/Ft Diss Ox Py Cubes 3% 1/16" Py Voids. L" Gouge @ 228.5'		.01 .004 .047
230			Granitic Texture still present But var. Flooded.						Limonitic - +/- Qz on Hi% Fracts w/ Minor Spec Hm Diss Ox Sulfides 1% + 5-7 Qz Vns/Ft		.044 .029
240			0.5' Core Loss - Ground. Var Broken Gouge - Abu Fracts. → Gouge + Mud Zone						Broken + Fractured Limonitic "Pale" ex Prev. Age Also Limonitic Muds. w/ Ox Sulfides - 1% C 1/2%		.019 .013
250			1" Gouge Zone						Limonitic Fractures w/ Diss Ox Sulfides		.048
260			Textural Destruction due to More Intense Silic + Sericitic Alt. Bottom 3' - Not as Silic But Still Strong Textural Dest. Contact @ Fault	Abu Silica Flooding Prominent Feldspars (Wht) Bleached out Py S. Flooding. w/ Chloritic Rem → Prob Yarnell Fault. Top.					Mod Abu Gy - Lea Silica Flooded Fault. Diss Ox Sulfides (Py) Cubes 2-3% Sulfides. Sil Rec Hm Staining Either Mstr Gy Qz Vn or Tectonic Silica Flooded Zone Diss Py (Ox) 2% Total. Limonitic Fracts throughout ore. Limonitic Paint on Fractures. Lim Zone Top 1" of Fault		.057 .063 .023
270			- Gouge Zone @ Top Yarnell Fault Zone - Gouge @ Top. Argillic Alt. 1" Gouge @ Bs.	Argillic Alt → Red Hematite As Shown.					Red Hematite + Oxidized. Zone w/ Abu Clay/Gouge Strongly Lim. Muds? →		.037
280			Sericitic - Still Cloudy Gouge Zone. - Poss Alt "Basic Dike" - Broken Zone - Broken Zone. Gouge - 2" Gouge Zone. Becoming Weakly Alt But No Biotite	Argillic Alt Textural Destruction. Sericitic. Becoming Less Intense. Biotite Alt (Red) Reduces Poss V. wk Biotite Alt.					Abu Lim Fracts 11 to Structural Direction. 1/4" wht Qz Vn. Broken Zone But wk Limonitic Coating + Fract Fill. Few Limonitic Fracts. Principal S is 70° wk Limonitic "Paint" Minor Healed Fractures - Some Weakly Limonitic		.004 .003 .004
300											

DIAMOND DRILL RECORD

HOLE NO. Y-DDH-1

Coord. _____ N _____ E Elev. _____ PROPERTY YARNELL

Bearing – Inclination VERT Depth 350' LOCATION YM-8 R.C LOCATION

Started _____ Completed _____ Notes by M. MILLER Scale 1" = 100' Sheet 4 of 4

DEPTH	% REC	ROCK TYPE	ALTERATION	MINERALIZATION	Graphic Col.	CORE ASSAYS
300		GRANITIC LOOKING BUT POSS MORE CHLORITIC APPROX 85 OXIDIZE ZONE	W/MOD SER - TR BIOTITE	OXIDATION OCCURS ONLY ABOVE FAULT VALLEY - FRESH PY ON FRACTS - CU PIP FROM DIRECTION	300	.004
310		POSS DIFF ROCK TYPE MORE CHLORITIC LESS OVERALL SILICA BUT STILL HEAVILY ALTERED. GREENISH TINT TO ROCK.	LITTLE SILICA FLOODING DEC ALT.	1/16" QZ VEIN RARE OX PY - W/IN OX ZONE ± FAULT WK DISS PY (FRESH) FROM OXID FAULT	310	.003 .005 .003
320		CHLORITIC - GREENISH TINT - ± TR OPALESCENT QZ - BIOTITE REAPPEARS -	4-6% BIOTITE	HEALED CLEAN/WKLY OXIDIZED FRACTS -	320	.005 .004
330				TR DISS PY - 1/16 FINE CUBES USUALLY ASS W/ BIOTITE SITES TO TD TR LIMONITIC FRACT 70	330	.003 .005
340				OXIDIZED FRACTS - NO LIMONITE	340	
350			CHANGE TO RED MAROON BIOTITE ALT PRODUCT POSS EDGE OF LOWER ALT. ZONE TO TD	OVERALL INC IN OXIDATION + FRACTURING - NOTABLE INC. SPEC HM FRACT TR DISS SPEC HM	350	.002 .002

TD @ 350'

NC Core

DIAMOND DRILL RECORD

HOLE NO. YDDH-2

Coord. _____ N _____ E Elev. _____ PROPERTY YARNELL

Bearing _____ Inclination _____ Depth _____ LOCATION TWIN TO YM-40

Started 9-29-90 Completed 10-8-89 Notes by M. MILLER Scale 1"=10' Sheet 1 of 4

DEPTH	% REC	ROCK TYPE (A)	ALTERATION	B	C	D	E	MINERALIZATION	Graphic Col.	CORE ASSAYS
0		0-3' CASING- BIOTITE GRANITE M/CRS GRN'D. 5-8% BIOTITE LOL AS CLOTS → 2-3mm IN SIZE.	NO RECOVERY. WK → MOD (W DEPTH) GRAGGAISH FELDSPARS- SERICITIC?					HBU OXIDIZED FRACTS + CORE BREAKS- PROB SURFACE OXIDATION. DIPS RANGE FROM 50-70° ON CORE BREAKS.		.007
		- Broken Zone. BROKEN ZONE	INCREASING RED ALT ASS W/ BIOTITE					BROKEN ZONE W/ WK OXIDATION ALONG FRACTS		.002
10									10	.003
								TR < 1/16" QZ VEINS →		.002
								SLT LIMONITIC FRACTURES 1/4" TK.		
20								BROKEN + FRACT. MINOR LIM-	20	
								TR OX FRACTS W/ MINOR QZ-		.01
	60		< 1/2% OVERALL					TR GOUGE ZONE?		
								1/16" LIMONITIC MUD ZONE? POSS. FAULT?		.009
30								FRACTURED- TR LIMONITE	30	
		AS ABOVE BUT INC IN BIOTITE 10%+	INC IN RED ALT- (HEMATITE REPLACEMENT)					TR Py/LIM CUBES- 60-70°		.003
		- Broken Zone.	KSPAR XLS- SERICITE IN RIMS BEYOND LESS ALT → INTERIOR.					CORE BREAKS- V. MINOR LIMONITE		.002
40								LIMONITIC FRACTURE	40	
									50	.013
								MUD + LIMONITE AS GLAZED ON FRACT		
		DEC IN BIOTITE < 3%	INC IN HM REPLACEMENT @ BOTTOM; INC IN SERICITE					Py/LIM CUBES - LITTLE RED HEMAT FRACT.		.012
50		TRANSITION ZONE	HM REPLACEMENT ~ 3% SILICA FLOODING POSS. POTASSIC ALT- W/IN SILC ZONE					1" QZ VN- M GY IN COLOR	70	.004
								4-5 FRACTS/FT. SLT/MOD LIMONITIC		
		1' GOUGE ZONE PROB FAULT	POSS MOD SILICA FLOODING					1" QZ VEIN- M.GY	50°	.007
60	50								80	
								POSS GOUGE ZONE →		.021
		- HI BIOTITE ZONE 10%+ BIOTITE	GRADUAL CHANGE FROM BIOTITE → CHLORITE					RED HM SPOTTING ON FRACTURE SURFACES. 1" GY QZ VEIN →	70	.004
		- MOD BROKEN ZONE						SPEC HM BEGINNING TO REP BIOTITE. 1/4" GY QZ VEIN →		
70									70	
								6-8 FRACTS/FT- LITTLE LIM.	50°	.003
		~ MOD/SLIGHT BROKEN ZN.						1/2" GY QZ VEIN	70	
		3" GOUGE ZONE						3" GY QZ VEIN	70	.088
								FAULT W/ GY QZ VEIN AS SHOWN 3" QZ VEIN.	70	
80		- PROB FA ZONE GOUGY- GRANULAR RECOVERY.	POTASSIC RIMS AROUND QZ VEINS					QZ VN PSEUDO STOCKWORK PINK POTASSIC RIMS AROUND QZ VEINS ASS. FRACTS W/ LIMONITE	80	.005
									60-70°	.003
90									90	
			POTASSIC RIMS AS ABOVE					// TO SUB // QZ VEINS (GY IN COLOR) ASS LIM W/ QZ VEINS SME X-CUTTG.	60°	.003
										.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	ROCK TYPE (A)	ALTERATION (B C)	MINERALIZATION (D E)	Graphic Col.	CORE ASSAYS
		ALTERED GRANITE w/ Biotite Prob Alt → Chlorite Spec Hm. Same Grain Size Persists.	Chlorite → Spec Hm @ Former Biosites. Sericite Feldspars. Silica Flooding	Abundant Fractures w/ Minor Lim. Mod Gouge Zone 1' Zone	100	.004
				Tn Gy Qz Vein. Broken Zone Hi & Sp Lim Fracts		.002
			Tr Potassic Alt as w/ Gy Qz Vns/Vnlts.	Parallel → Sub // Qz Veins (Gy in color) Some Ok. Gy Qz Veining. w/ Diss Py/Lim < ½ %	110	.003
				Qz Veining as Above w/ Potassic? Rims. 6" Qz Vein - Gy in Color →		.002
			Prob Qz (Silica) Flooding	Diss Spec Hm @ Former Biosites 2% +	120	.003
		Slt inc in Bio/Chl.		¼" Qz Veining (Gy)		.005
					130	.003
				Mostly Hi ∡ Fractures. Little Oxidation on Fractures - + Limonite.		.004
				½" Gy Qz Vnlt. → ¼" Gy Qz Vein.	140	.028
			Silica Flooding.	More Oxidized Zone Brown Staining. ½" Qz Vn (Gy) ½" Gy Qz Vn - w/ Spec Hm included in Qz		
			Lot Potassic Rims Around Qz Vns -	Xcutting Qz Vns/Vnlts - Qz Vns w/ Included Specularite		.006
		Mod/Strong Broken Zone		Broken Zone - Little Lim Fracts	150	.009
				1" Qz Vein → M. Gy in Color		.008
		Broken Zone			160	.016
			Potassic Rims (Selvages) Around Qz Vns.	1" Qz Vein		
				Area of Hi ∡ Gy Qz Veins → 1" Thick. w/ Stockwork? 1" Wht Qz Vein ← Minor Py/Lim - Dis Spec Hm 2% + 20-50° Dips Seen		.004
				2' Qz Vein Specularite on Fracts - Trace CuOx in Small Vugs - Also Tr Bn in Qz Both Wht + Gy Qz in Vein.	170	.003
				Scattered Qz Veins → ½" in Thickness. (Gy Qz) Some Lim Fracts w/ Dis Py/Lim < ½ %. 60-70°		.002
		Broken Zone Prob Fa w/ Gouge	Si Flooding	½" Qz Vein Gy in Color Lim + Py/Lim 45° w/ Qz Veins. Also Specularite Veins/Lets -	190	.003
		Broken Zone Broken Core				.002
			Potassic Selvages Around Qz Veins	Qz Veins. 4-3/Ft Col. 1-2 Ave → ½" Tk. Lim Filled Microfracts. Xcutting Qz Vnlt Sub Par. Occ Py/Lim Cubes Overall < ½ %.	190	.002
		Broken Zone - Pr. Gouge - Fa??		Broken - But Lim/Spec Fractures 5-7 Main Fracts/Ft - and Minor Fracts	200	.004

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 Selvages	Predom. Fracts 70° - However Abu X-cutting Milky Fracts - Some Mixed Qz Vn/Fts - 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) Fault Zone Qz Shown in Rock Type Sec. 3" Gouge Zone As Shown		.015
				Qz Veining - Poss. Stockwork 4/ft Microqz Vn/fts - Also Abs. Lim Vns/Milky Vn/ft - 8-10/ft Py/Lim Cubes 1/4 Open Fract's w/ Lim Fill Some Lim/Qz Veining on Milky Vn/fts		.015
220		Mod/Strongly Broken Core - Gouge Zones, Lim Fract's		"Earthy" Brn Limonite on Fract! Pt Open Qz Vein Limonitic Lim/Mud Filling Fract		.003
		6" Gouge Zone 228		Hi % Fracts + Lo-70° Fracts - All Limonitic - Some Lim. Muds - Few Qz Vns 45° / Lim. Mostly Broken Core on Fracs.		.013
230			Abundant Qz (Silica) Flooding Potassic Selvages? Also Alt of Discrete Feldspar (Pinkish Selvages)	Gy Qz Veins/Vn/fts - Diss Py/Lim 1/2 %		.003
				2" Gy Qz Vein. Diss Py/Lim Cubes → 1/4" Est 2%		.007
240			Silica Flooding Prob Due to Amt + Size of Qz Veining.	Pt Open/Limonitic Qz Vein - Specularite/Qz Vn/f Stockwork? Qz Veining. Prom. Potassic? Rims - 1-1 1/2% Py/Lim Cubes Qz/Limonite Veins. "Earthy" Lim. w/ Py/Lim		.011
				"Bleached" Fragment - Poss Breccia → Specularite Vnlts. X-cutting		.006
250				Hi % + Low % Qz Vn'ng Some X-cutting Qz Vns. Mod Lim Ass. w/ Qz Vns.		.003
			Silica Flooding Related to Qz Veins - Some Potassic Selvages.	Qz Veining Stockwork Specularite/Qz Vns -		.003
260			Mod Abu. Silica Flooding	1% Py/Lim. Qz/Lim Veins/Vnlts.		.009
		Broken Zone Hi % Bulks on Core	Potassic Selvages - Around Qz Vns.	1/4 Py/Lim Cubes - Qz/Lim Vns/Lets - X-cutting Qz Vns.		.003
270	30	1/2" Clay/Gouge Zone	Greenish Alt - Bleaches Sericite?	Loc Large → 1/2" Py/Lim Cube in Qz Vn.		.005
		Broken Zone Poss Fa Zone		Stockwork Qz Veining Both Wht + Gy Qz Vns Strong Wht Postdates Gy - 1% Py/Lim w/ Qz. Loc Spec Hm. Potassic Alt. Broken Bit Qz Vns -	WHT	.023
280				Qz/Lim Vns - Stockwork - Near Vnlt Specularite/Qz Vnlt. 2% + Py/Lim Cubes Lim Lines Fract Then Qz - Lim Vns -	WHT	.018
			Potassic Rims.	6" Wht Qz Vn - Gy Qz Terminates Against This: Specularite Vnlts - 2% Py/Lim Cubes 6" Wht Qz Vn Some 1" in Size - Usl Low Gy		.012
290		Observed Contact		Qz Vns - 289-91 - Poss Qz Vn - w/ Inclusions of Wall Rock. 291 - Mostly Wht Qz Vns.		.129
	50 40 30	Appears to be Sric Myl Zone? Frags of Qz Vn w/ Rock Clasts Wht Qz Vns X-cut. Clay Zone 295' Fault Gouge Dip Estimated	Strong Silica Flooding Poss w/ Potassic Rims.	Ouchalli 10% Oxidation Gouge 1/4% Py/Lim Cubes Large Cubes → 1/2" Ass w/ Wht Qz Vns - 6" Qz Zone → My L/Gouge		.026
						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	ALTERATION	MINERALIZATION	CORE ASSAYS
300		Continuation of Silic + Gouge Fault Zone	Silica flooding	Minor Qz Vns - Lim on Fract. surfaces - Lim/Py cubes - Gouge/Fractured Zone.	.041
30		Major silification	Strong Sea-Sina-	Wht Qz Vein - 70	
		↓ Y Arnell Fault Zone contact.		2-3% Py/Lim cubes -	.027
310		Varnell Fa. Zone	Silicified Mylonite		
70		Strong Bxd Hm Zone Brecciated		Varnell Fault Zone - Visible Au on fractures 100% red hematite in Mylonite	.177
		Silicate Bx'd Tuff Strong Gouge Zone Related to YFZ	Poss/Prob Argillic Alt. w/in Gouge	Mylonite/Gouge Zone - Mod Red Hm Lim/Py + Lim Fracts + Muds - 70	.095
			Silicified → Textural Destruction Argillic Alt.?	Qz veining/Vnlts w/in silicification	
320		- Strong Mud/Gouge @ Bs		Py/Lim along & Assn/Qz Vns. 1+% Py/Lim + Red Hm Ass. w/ Py/Lim.	
60					
		- Gouge Zone	Argillic Alt-	Shattered Wht Qz Vein	.013
		- Broken Zone - Broken + Shattered Qz Vein. 32' in thickness. Many Gouge + Clay Zones.	Mod Silification	Strong Lim in Gouge → Gouge →	
				Py/Lim Cubes Shattered Wht Qz Vns	.021
330			Initial Silica Flooding - w/ Strong Argillic Alt.	Py/Lim Cubes w/in Argillic Gouge Zone 2-1/2% 10% overall Lim/Oxidation	
		- Broken Zone			
		- Intensely Broken Prob Gouge Zone.	Potassic Alt. Ass. w/ → Qz Vns	Shattered Qz Veins Mostly Wht %, Abu Fracts w/ Limonite, Diss Py/Lim -	.162
		Gouge Zone	Silica Flooding		
340					.043
		6" Gouge Zone		Abu Py/Lim Cubes Red Hematite 2% overall on fracts + as veins -	.034
		Gouge/Mud + Clay Zone			
			Continued Argillic Alteration w/ silic overprint	Brecciated Gouge Zone Silification Mod Abu Red Hm Stain on Microfracts	.108
350		320-353 Intensely Broken + Gouge Zones - Prob Fault Zone contact o Bs Gouge		Gouge/Fault Zone Minor Lim.	
		Silic Fault Zone Breccia Fragments	Qz Flooding	Strong Qz Veinlets. Gouge Mostly Lt Gy Vnlts -	.081
70		Red Hematitic Fault Zone → Gouge Contact o Bs Gouge		Red Hematite Fault Zone w/ Gouge / Abu Red Hm Mud. Qz Vn Fragments w/in Fault Zone + 3% Diss Py/Lim. Broken Lim Zone	.131
360			Alt Changes to More Sericitic → Chloritic? @ Bs -	Wht + Gy Qz Vns - Py/Lim Ass. w/ Qz Vns - 1-2% Hi & Lim Fracts wk Stockwk.	.043
		- Broken + Gouge Zones		Shattered + Bx'd Qz Vns involved in Fault	.079
		- Red Hm Mud Gouge Zone -		N-12/H + Gouge Hi & Qz Vnlts - Ass 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					.033
		Varnell FZ Complex Prob 310-380±. Companion Faults.		Lim %-Qz Fracts - 20-30°	.018
380		Contact & Estimated			
		Porphyritic Rock - Large K-spars Gouge Rel Unalt - Rock has a greenish tint - Poss Chlorite??	Poss Chloritic Alt?	Gouge Zone. Mod Abu. X-cutting wk Lim Fracts - Few Py Cubes/Lim	.005
		Broken Zone	Poss wk Qz Flooding?	Hi % Limonitic Fracts -	
		Porphyritic Granite in F.W. of YFZ?? Broken Gouge Zone			.003
390				Few Lim Fracts -	
					.009
		- Broken Gouge Zone -		Broken Gouge Zone - Lim in Pr wk Diss Py	.004
100			TD @ 400'		400

Graphic Col.

Boxes marked AA-3

MAM 7-17-90 Send this was corrected on boxes.

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 10-9-89 Completed 10-13-89 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
			0-6' CASING	No Recovery								
10			Biotite Granite, M/Crs Gr'd, Equigranular. 10-13% Biotite. Broken Decomposed Zone	W/k Sericitic Sheen on Feldspars. Red Alt Rims Around Biotite 1-2% (Hm Replacement?) Poss Inc. Soft Prob Sulf Oxid. Mud Sericite on Feldspars. More Competent Core. Poss V. Wk Silica Flooding					H.L. Limonitic Faults. 4-5 Faults/Ft w/ wk Lim. ½" Qz Vn Gy in Color	10		.002 .001 .057 .003 .004
20										20		
30			Prob Fault/Qz Vein Zone - Biotite Arg'd Gouge + Broken Zone	Poss Silica Flooding.					Py/Lim Localized in Qz & Some in Groundmass. 6" Qz Vein Row Py/Lim Clasts	30		.038
			Biotite Granite As Above w/ 25-30% Biotite & Strong Biotite. Rock is Weakly Decomposed Past 36'. Biotite Inc → 25-30%	Wk Sericite on Feldspars.					Wk Limonitic Faults 3+/Ft. ~70°	40		.002 .005 .004
				Tr Red Alt w/ Biotite Less Biotite Around Qz Veins					Thin Mud Filled Fract. Lim Mud??			.005
50			As Above But Contact Picked on Inc? in Silica (i.e. More Competent Core). Significant Inc. in Qz Vns. ½" Fault. (Description indicates wk alteration typ. of Transition Zone)	Reappearance of Red Alt Prod. w/ Biotite Inc in Amt of Sericite in Feldspars. Becoming More Phenocryst. Wker Biotite, Prob Becoming Chloritic. 15-20% Biot?/Chlorite. Transition Zone. Poss Silica Flooding Moderate.					½" Qz Vn. ½" Fault w/ Gouge Sulfide.	50		.002
			Xenolith						Family of M/Gy Qz Vns - Low Wky Limonitic - 3-4 Vns/Ft. Qz Vn w/ Spec Hm	60		.015
				Sep Inc					Tr Spec Hm w/ Qz. 1" Qz Vn Wnt Vn			.011
			Broken, Muddy Zone. Broken Zone. Broken Zone. Mod-High Fract Zone w/ Intervals of Crumbled "Core" Many Hi % Fractures w/ Mud + Lim Mud Fill. Broken Ox Zone Poss Fault						Zone of Hi % Fractures Mostly Mud Filled Honeycomb Some Lim. Fill. 4-6 Fract/Ft. 20-30°	80		.042 .005 .002
									Tr Qz Vn. Tr Jarosite? on Lim Fract.			.014
				Slt Inc in Biotite Red Alt Ass w/ Biotite					Broken/1" Qz Vns - M Gy Lim Ox Zone/ Color Some Br'd Vns. As Above - Wk Spec Hm. ½" Qz Vn - M Gy	90		.004 .005 .003
			Large → 1" Qz Phenocrysts							100		

DIAMOND DRILL RECORD

HOLE NO. TUDH-3

Coord. _____ N _____ E Elev. _____ PROPERTY YARNELL

Bearing _____ Inclination _____ Depth _____ LOCATION TWIN B 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										100	
			ABU. QZ VNS IN ALT CHLORITIC GRANITIC	6-8% CHLOR/BIO? (REG) STRONG SGR W/ FELDSPARS					Qz LIM. FRACTS →		.01
				INC SGR, INC CHL/BIO CHL REPL. BIOTITE GOT 8-10% CHL					QUARTZ VEINING - POSS STOCKWORK M GRY IN COLOR SOME LIM FILL		.004
110				INCREASINGLY STRONGER CHLORITIC ALT-					Qz VEINING W/ LIM + SPEC HM - 1/4-1/2" QZ VNS 2/FT (50 70)	110	
									OX LIM FRACT TR SPEC HM		.007
									30		
									SPEC HM INC W/IN FRACTS BIOTITE/CHL SITES 1-2% 2" QZ VNS W/ LIM FRACTS + SPEC HM		.009
120			- OCCASIONAL HI & FAULT - PARTIALLY BROKEN	POSS INC IN SILICA AS SHOWN					HI & FRACTS W/ LIMONITE + SPEC HM	120	.009
			- BROKEN/GOUGY ZONE POSS FAULT??								
			INC IN QZ VEINING BROKEN ZONE.						BROKEN LIM ZONE		
				POSS POTASSIC ALT? RUSHING QZ VNS PINKISH K-SPAR					1/4" QZ VEIN - POSS K-ALT		.015
130				STRONG AN GSP / SERICITIC IN FELDSPARS					DISS PY/LIM 1/2-3/4" QZ SOME LIM ZONE THROUGH 1% (70 20)	130	
									MOD ABU SPEC HM ALONG FRACTS + W/C DISS - 1-2% IN BIOTITES. 8-10 FRACTS/FT		.019
				RESTRICTED TO SELVEDGES AROUND QZ VNS.					6" QZ VN - 1" QZ VN BX'D QZ (40 50)		
									LARGE PIECE OF VEIN 6-8" IN SIZE TERMINATES AGAINST 70° QZ VN ABU SPEC HM. LIM/PY CUBES		.011
140									POTASSIC VEIN W/ QZ -	140	
									DISS SPEC HM + 2-3% (70 70) DISS LIM/PY CUBES 1%		.073
									6-8 QZ VNS/FT -		.016
									STOCKWORK QZ VEINING SOME VNS → 6" THK.		
150				POTASSIC ALT INC W/IN GROUNDMASS + STRONG SILICA FLOODING PROB DUE TO INTENSITY OF QZ VEINING AS IS K-ALT					PY/LIM DISS THRU STOCKWORK LIM + SPEC HM ON FRACTS WITH →	150	.118
											.042
160										160	.024
			NC core to here								
											.033
170			NO CORE RECOVERY 162-209. OPEN STOPES -							170	.048
			NC CASING SET 184-187'								.018
180			VOIDS 162-184 184-209 217-221							180	.137
			CORE BETWEEN 209-221. SUSPECT, POSS BOULDERS AND/OR MUCK.!								.100
190										190	.203
											.116
200										200	

DIAMOND DRILL RECORD

HOLE NO. Y-110H-3

Coord. _____ N _____ E Elev. _____ PROPERTY _____

Bearing _____ Inclination _____ Depth _____ LOCATION _____

Started _____ Completed _____ Notes by _____ Scale 1"=10' Sheet 3 of 4

DEPTH	% REC	A	ROCK TYPE	ALTERATION	B	C	D	E	MINERALIZATION	Graphic Col.	CORE ASSAYS	YM
200											200	63
												.116
												.093
210											210	
												.191
												.03
220			Bs of OPEN STORES -								220	
			Slide PAGED to LOG NX Core from here									.078
												.016
230			GREENISH Gy. ALTERED + SILIC Granite SOME TEXTURAL DESTRUCTION	STILL TOURMALIN ALT? ASSM VEINING STRONG SERICITIC FELDSPARS.			X		ABUNDANT Hi & H.L LIMONITE FRACTURES - ALMOST STOCKWORK TYPE 50		230	.015
									Diss Py/Lim CUBES EST < 1% ORIGINAL - / DISS ALONG Qz VEINS 30			.071
240			LT Gy - STRONGLY ALT - J - PROMINENT LARGE K-SPAR PHENOS - SER.? ALT.	SILICA FLOODING REM SERICITE K-ALT?? SEEMS PERVASIVE			X		Lim/Spec Hem/Qz Vnlt → 50		240	T.D.
									Diss Py/Lim 2% 60			
									40 60			
			Bs of OXIDATION.						Diss Py (FRESH) + Vnlts of Py. 2% Py - LIMONITIC →			
	50		SULFIDES UNALTERED GRANITE? FINGRAIN? GREENISH Gy - NO PHONTE CLEAR FELDSPARS - POSS DIFF ROCK TYPE?? TRS SULFIDES -	PERVASIVE FLOODING → PERVASIVE FLOODING AROUND Qz VEIN. POSS CHLORITIC?			X		70		250	
									Diss Py + (SPEC HEMATITE EST 1% Py 3% Spec Hm. 65			
			OXIDIZED EQUIVALENT OF ABOVE OXIDATION INCREASES + BECOMES PERVASIVE LOW CURG SHOWS WEAKLY CORRODED ZONES.	POSS MOD SILICA FLOODING POSS WK SERICITE			X		OXID BUT TR FRESH Py TIN QUARTZ VEIN → 80 OX/LIM Qz VEIN 40		260	
			OXIDIZED → 1.5' STRONG OXID ZN				X		SCATTERED WEAKLY LIMONITIC FRACTS - w/in PERVASIVE OXIDATION → ≈ 10% OXIDIZED 3% + DISS SPEC HM FRESH Py @ 269.1 OXIDIZED ZONE w/ Py CUBES 1" @ 5% Py/Lim		270	
280			AS ABOVE BUT TEXTURAL MORE CORRODED.	STRONG SILICA FLOODING.			X		Hi & Lim FRACS 5-6% DISS Py/Lim - PATCHES of FRESH Py AS @ 251.5 6" RED/YELLOW HEM ZONE. 2-3% SPEC HM w/in CORRODED ZONE		280	
			ST DIRTY BROWN LIMONITE	STRONGLY CORRODED. + LEACHED.								
			LAMINATED TA BOGS - POSS VOLCANIC BOA ?									
290			AS ABOVE	POSS WK SER/ON CHL? BUT NOT AS SEEN IN CAS CAN'D GRANITE					TIN Qz VNST LIMONITE Vnlts - 60 DISS SPEC HM - w/ LT BROWN "FLUFFY" LIMONITE OVERALL 2-3% 60 60 60 VERTICAL BANDS THRU CORE - SLT LIMONITIC		290	
	70		SOMEWHAT TEXTURAL DESTRUCTION, STRONG PERVASIVE OXIDATION.	SILICA FLOODING Gap 297-299			X		JAROSITIC STAIN ON FRACS DISS Py/Lim EST 2-3% TOTAL SPEC HM		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	A ROCK TYPE	ALTERATION	B	C	D	E	MINERALIZATION	Graphic Col.	CORE ASSAYS
		Scattered ALT- PERVASIVE OXIDATION BOTH ON FRACTS + INTERSTITIAL						Family of 40° Lim/Spec Hm FRACTURES - + Diss Spec Hm.		300
70		GREENISH GRY - POSS DIFF ROCK TYPE FROM GIONITE @ TOP OF HOLE - CHLORITIC?	CHLORITIC ? PERVASIVE ↓					Diss Spec Hm THROUGH + 1-2% MOD AMT LIMONITIC FRACTURES SOME X-CUTTING - PSEUDO STOCKWORK 6-8/Ft	90	310
										320
		TD @ 325'								

DIAMOND DRILL RECORD

HOLE NO. TDDH-4

Coord. _____ N _____ E Elev. _____ PROPERTY YARNELL

Bearing _____ Inclination _____ Depth 220' LOCATION TWIN TO YM-75

Started 10-16-89 Completed 10-21-89 Notes by M. MILLER Scale 1"=10' Sheet 1 of 3

DEPTH	% REC	ROCK TYPE (A)	ALTERATION (B C)	MINERALIZATION (D E)	Graphic Col.	CORE ASSAYS
		NQ Core				
0		PROB DIORITE SILL? ABU MAFICS BUT STRONGLY WX'D INTENSELY LEACHED/WEATHERED- ROCK IS VERY SOFT -	NONE SEEN - STRONG WEATHERING CARBONATE MATRIX 38' PROB DUE TO WEATHERING/LEACHING OF FELDSPARS?	0-6' CASING: NO RECOVERY		.003
		ABU PLAGIOCLASE SPARS	ABU BIOTITE - SOME SHOWS PROB HM RXN ACT - & PROB HM RIMS BUT RELATED TO WEATHERING	CALCITE VEINING →	10	.001
				SCATTERED FRACTS - MUSTY ON CORE BREAKS - BUT NO SIGNIFICANT MINERALIZATION OR QZ VEINING		.001
20		BROKEN MUDDY ZONE		BROKEN ZONE -	20	.002
						.003
						.002
30					30	
				"CLASH" VEIN W/ CALCITE 30 10-20°		.002
		- BROKEN ZONE - BROKEN + DISAGG. ZONE 45°		STRONG LIM ZONE 36-37' 50% STAINED LIM		.002
40		ALTERED LIMONITE TYPICAL OF MUD ALT ZONE - NO BIOTITE	SERICITIC FELDSPARS -	OXIDIZED/LIM FRACT'S	40	
		MUD + GOUGE ZONE 70		MUD + GOUGE ZONE - PR LIMONITIC 70		.005
		MUDDY/GOUGY - SOFT ZONE - POSS FAULT?		GOUGY / FAULT ZONE? FGW FRACT BX'D QZ VNS W/IN - OXIDIZED WEAKLY LIMONITIC.	50	.004
50		80	POSS SEC BIOTITE VFG. DISSAGGREGATED →	DISS PY/LIM CUBES - L/H 80 USU. ASS. W/ QZ VEIN 50 WHT QZ VN. CUTS LIM QZ 60 FRACT/VNS - 40%		.004
			MOD SILICA FLOODING			.003
60		1' GOUGE ZONE 50		WHT QZ VEIN CUT BY SILICA - 25 STEEPLY MICRO FRACTS	60	
			INC IN SILICA FLOODING INC IN SERICITE W/C POTASSIC ALT PROB ASS. W/ QZ VNLTS.	QZ/LIM VNLTS - 3-4/FT? W/C LIM/PY CUBES 60% LC ½ PR FGW LIMONITIC FRACTURES + LIM ON CORE BREAK		.004
		6" GOUGE ZONE 70		DISS PY/LIM CUBES - 1-2% + OVERALL V. ABU. MICRO VNLTS OF LIMONITE 10-12/H		.016
70				PY/LIM CUBES 60 40-50	70	
			POTASSIC ALT. ASS W/ QZ VEINS - WHDIN INTERVAL OF SIMI QZ VEIN	1" QZ VEIN (W HT) 50 6" WHT/GY QZ VN 70 H.L FRACT, VERT		.028
				VISIBLE AU ASS W/ QZ/SPEC VNLTS - →		.011
80				LATER LIM VNLT CUTS FRAC 20-30 DISS PY/LIM CUBES - 1-2% 1" QZ VEIN 70	80	
				X-CUTTING QZ VNS → ½" TIC 40 STOCKWORK? 60		.01
				STOCKWORK QZ VNS W/ ASS. SPEC HM.		
			POTASSIC ALTERATION ASS W/ QZ VEINING AS PINKISH K-spar	PY/LIM CUBES → W/H. 60		
		BROKEN ZONE	SOME DISS:	VISIBLE AU ASS W/ 1" WHT/GY → QZ VEIN - SPECTAL SEGMS TO OCCUR @ TIC "ROOF" OF THE VEIN		.026
90		LT THIN - ARGILLIC ZONE	ARGILLIC ZONE 89.9	EARTHY LIMONITE	90	
			STRONG QZ FLOODING PROBABLY W/ STOCKWORK VEINING	1" BRECCIATED QZ VEINS → V.TN "MYLONITIC FISSURES (GY QZ) QZ/SPECULARITE VNS W/ SPEC ON ROOF OF FRACTURE.		.021
			NOTICEABLY INC IN	8" WHT QZ VEIN → 60 MORE STOCKWORK PY/LIM CUBES DISS THROUGHOUT 2% +/- DISS SPEC HM - 1-2%		.035
100					100	

DIAMOND DRILL RECORD

HOLE NO. YUDH-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	ALTERATION	MINERALIZATION	CORE ASSAYS YM-75
100			CONTINUED SERICITIC ALT " SILICA FLOODING " POTASSIC ALT EVIDENT IN DISCRETE FELDSPARS.	Py/Lim CUBES - DISS THRUOUT MOD ABU Qz VEINS / Lim + Lim VEINS - DISS SPECULARITE / Lim w/ Spec in Z/4 CENTER. 2-3% Py/Lim @ 102-103 CUBES ⇒ 1/8" WHT/Gy 1/2" Qz VN → 50 FRR BOULDERS	.037
110		HI & BROKEN ZONE	DISCRETE K-SPAR AS FELDSPAR x/s 1/4" PINK RIMS AROUND Qz VNLTS -	STOCKWORK Gy Qz VEINING 2% Py Lim ASSOC Qz VNS DISS SPECULARITE (BLACK MINERAL) X-CUTTY LIMONITIC VNLTS - 60	- MnOx DONDRITES .062
			Qz VEINY DEG BUT SILICA FLOODING SEME	DISS Py/Lim CUBES - HI & FRACTS - LIMONITIC Qz FRAGS w/in HI & LIMONITIC ZONE	.064
120		- SLIGHTLY LOSS ALT: Qz VEINING - MGT IN COMM. 50 60 THE GOUGE ZONE M/Bm	SILICA FLOODING	FRACTS AS SHOWN - LIMONITIC ALSO DISS. Py/Lim - AMT OF DISCRETE Qz VEINY DECREASES.	.026
				DISS Py/Lim AGAIN 20-60° 20 ALONG Qz VEINS - LIMONITIC VNLTS FRACTURES 40 1' Gy VUGGY Qz VEIN →	MnOx MX - DISS + FGN DONDRITES .047
				Lim VNLT - 50 FGN Py/Lim LOOKS LIKE BX 1" HI & Qz VEIN ZONE - VN BX ? 20 GY Qz VEIN 40-50°	.067
130	40	- BROKEN GOUGY ZONE PROB FAULT	SILICA FLOODING	LIMONITE / +/- Qz LT BROWN LIM.	.088
		LOOKS LIKE A SILIC. BX. SILICIFICATION SEEMS TO HAVE TIED ALL FRAGMENTS TOGETHER. BRECCIATION IS STRUCTURE RELATED - GOUGE ZONE 140-140.5 LIMONITIC GOUGE	POTASSIC ALTERATION AROUND Qz VNS/VNLTS - + POSS REL? TO Qz FLOODING SERICITIC ALT PERSIST.	BROKEN - MOD/LIMONITIC FRACT'S 40 SPOTTY - SPEC HM - L/+ Py/Lim ON FRACTS + CUBES - 1/+	- MnOx .006
140				BRECCIA CONSISTS OF Qz VEINS WHICH HAVE BEEN BROKEN + FRACTURED MOD LT BRN LIMONITIC LATER LIMONITIC VNLTS THAT CUT BRECCIA. PERVASIVE THROUGHOUT. BRECCIA ZONE IS CUT BY LATER FAULTS SHOWN AS GOUGE ZONES.	.043
	70	CONTACT OBSCURED		40-50°	.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	OVERALL 20-30% Clay	Lim / Red HM MUD. / Clay ZONE AS DESCRIBED.	
	65	CONTINUATION OF BX BUT MORE INTENSLY ALT.	WELL ALT - PROB ARGILLIC	Qz VN / LT FRAGS - w/in BX	.118
	50	SHR/FA CONTACT 157		SHATTERED Qz VN	
160	50-60	STRONGLY ALTERED TEXTURAL DESTRUCTION VERY GUIDDY POSS BRECCIATION - TEXTURAL DESTRUCTION - BROKEN, CLAY / GOUGY ZONE	STRONG ARGILLIC ALT ⇓ TEXTURE DESTRUCTION	- BOTTOM of OBVIOUS Lim/Py CUBES BRECCIA CONTINUES ? MOD → STRONG LIMONITIC - FRACTURING / YEINING + VNLTS - 12-15/Ft MOSTLY AS LONG FRACTURES/VNLTS FeOx SEEMS TO "TRAVEL" AWAY FROM FRACTURES - CREATING A SELVEDGE AROUND FRACTURE.	.110 .051
				- TR MN DENDRITES ON FRACTURE SURFACE.	.045
170		- STRONG GOUGE CLAY ZONE - PROB FAULT.		STRONG GOUGE ZONE w/ ABU. CLAY / MUD GOUGE BROKEN FRAGS - POSS BX ?	.01
	30	- 174	POTASSIC RIMS? SEEMINGLY AROUND Qz VN/LTS LIM VNLTS	BROKEN / GOUGY ZONE - MOD LIMONITIC ALTY FRAGS -	
		- HEAVY SILICA PROB CLOSS ARGILLIC		ABU HL LIM VNLTS +/- Qz FGN V. SMALL Py/Lim CUBES LL L/+; SPECULARITE VN - POSS w/ MnOx AS DENDRITES -	.01
		CONTACT OBSCURED.			
180		CHANGE IN ROCK OR ALT -	POSS. PROPYLITIC ALT -	HL. CALCITE VNLT → Qz/Spec VN 50	.027
		PINKISH FELDSPAR - ROCK MORE PORPHYRITIC 10-12% PINK K-SPARS	GREENISH TINT - CHLORITIC ? LOOKS LIKE BLEACHING EVIDENCE	POSS SPECULARITE IN GREENISH MNOX - ON FRACTS - ABU. GASH VEINS MOSTLY WELL HEALED VNS 3-6/FT OF CALCITE	.018
190				VERY AS SPECULARITE AS DISS + ASSOC/ VNLTS - 5-6% TOTAL 2% Py. 25	.02
			CHLORITIC ZONES AROUND VNLTS -	1-3% Py AS RIMS + DISS. 50 40 10% + SPECULARITE AS MICRO VNLTS THROUGHOUT 70 CALCITE VNLTS →	
200			CARBONATE MTX - GOOD FIZZ	Py X/S IN 1" BRN 10% + SPECULARITE / HM	

DIAMOND DRILL RECORD

HOLE NO. 1WH-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	A	ROCK TYPE	ALTERATION	B	C	D	E	MINERALIZATION	Graphic Col.	CORE ASSAYS
200			DEFINITE FABRIC IS EVIDENT BY LINEATION OF FELDSPARS +/- 830 DIPS SE	BLEACHED ZONE w/ LIM/ SPE HM.					CALCITE VNLTS GASH VEINS 1/4" WHT QZ VEIN	200	
									LIM/ SPE HM. X-CUTTING FRACTS	45	
									SILK ZONE 6' TK. 1/8" LIM VNLT @ 130 →	30	
210			FABRIC	CALCITE/ CARBONATE GASH VEINING							210
	40%								VN - w/ LIM	35	
										20	
									LIM/CALCITE VNLT	20	
220											220

TD @ 220'

FRACTURES SEEM TO STEEPEN BELOW YFZ.
FROM 50-70° → 30-40°/-

Yanek DH-1→4

	Sank	Bo Nam
DH-1	9/25/89	9/29/89
DH-2	9/29/90	10-8-89
DH-3	10-9-89	10-13-89
DH-4	10-16	10-26-89

BULK ASSAY REPORT

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

DATE 1-4-90

Rec Jan 5

COMPANY ASARCO LAB #122889-1

DRILL CORE — PAGE 1

Sample Description	Ounces per ton AU (gold)	AG (silver)	Remarks
YDDH-1 4-5	.001		
" " 5-10	.006		
" " 10-15	.003		
" " 15-20	.008		
" " 17-19	.009		
" " 20-25	.001		
" " 25-30	.004		
" " 30-35	.001		
" " 35-36	.012		
" " 36-37	.034		
" " 37-38	.134		
" " 37-39	.075		
" " 38-39	.108		
" " 39-40	.195		
" " 40-41	.108		
" " 45-50	.125		
" " 50-55	.015		
" " 57-59	.003		
" " 55-60	.003		
" " 60-65	.002		
" " 65-70	.015		
" " 70-75	.010		
" " 77-79	.018		

Certified Assays When Signed And Dated
1-4-90 [signature]
DATE SIGNATURE

BULK ASSAY REPORT

TRIAD MINERALS CO.
ASSAYING & CONSULTING
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Wickenburg, Arizona 85358
602-684-3816

DATE 1-4-90

COMPANY ASARCO LAB #122889-2

DRILL CORE

PAGE 2

Sample Description	Ounces per ton AU (gold)	AG (silver)	Remarks
YDDH-1 75-80	.019		
" " 80-85	.008		
" " 85-90	.012		
" " 90-95	.013		
" " 97-99	.006		
" " 95-100	.002		
" " 100-105	.001		
" " 105-110	.006		
" " 110-115	.001		
" " 115-120	.039		
" " 117-119	.014		
" " 120-125	.050		
" " 125-130	.004		
" " 130-135	No SAMPLE		
" " 135-140	.013		
" " 137-139	.011		
" " 140-145	.020		
" " 145-150	.011		
" " 150-155	.010		
" " 155-160	.021		
" " 157-159	.033		
" " 160-165	.058		
" " 165-170	.016		
" " 170-175	.017		

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DATE 1-4-90

COMPANY ASARCO LAB #122889-3

DRILL CORE

PAGE 3

Sample Description	Ounces per ton AU (gold)	AG (silver)	Remarks
YDDH-1 177-179	.021		
" " 175-180	.008		
" " 180-185	.023		
" " 185-190	.019		
" " 190-195	.017		
" " 195-200	.067		
" " 197-199	.018		
" " 200-205	.013		
" " 205-210	.029		
" " 210-215	.061		
" " 217-219	.017		
" " 215-220	.020		
" " 220-225	.017		
" " 225-230	.043		
" " 227-229	.056		
" " 230-235	.013		
" " 235-240	.003		
" " 237-239	.024		
" " 240-245	.016		
" " 242-244	.017		
" " 245-250	.009		
" " 247-249	.009		
" " 250-255	.065		
" " 252-254	.056		

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COMPANY ASARCO LAB #122889-4

DRILL CORE

PAGE 4

Sample Description	Ounces per ton AU (gold)	AG (silver)	Remarks
YDDH-1 255-260	.079		
" " 257-259	.111		
" " 260-265	.153		
" " 262-264	.084		
" " 265-270	.012		
" " 267-269	.023		
" " 270-275	.019		
" " 272-274	.028		
" " 275-280	.002		
" " 280-285	.004		
" " 285-290	.002		
" " 290-295	.002		
" " 295-300	TR		
" " 300-305	.001		
" " 305-310	.001		
" " 310-315	TR		
" " 315-320	TR		
" " 320-325	NIL		
" " 325-330	TR		
" " 330-335	TR		
" " 335-340	NIL		
" " 340-345	.001		
" " 345-350	TR		

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Wickenburg, Arizona 85358
602-684-3816

DATE 3-29-90

APR 2 1990

COMPANY ASARCO, INC. LAB # 032890-4

DRILL CORE

PAGE 1

Sample Description	Ounces per ton AU (gold)	AG (silver)	Remarks
YDDH-2 3-5	~~.004~~	Control	
" 5-10	.040		
" 10-15	.033		
" 15-20	.025		
" 19-24	~~.014~~ ☑	Control = ym-40, 20-25	
" 20-25	.003		
" 25-30	.003		
" 30-35	.001		
" 32-33	~~.021~~	Control Course A	
" 35-40	TR		
" 39-44	~~.010~~ ☑	Control = ym 40, 40-45	
" 40-45	.001		A = 20-80=60' = 0.0445/12 = 0.0037
" 45-50	.009		ym-40 20-80=60' @ 0.014
" 50-55	.002		
" 55-60	.002		
" 59-64	~~.018~~ ☑	Control = ym 40, 60-65	
" 60-65	.006		
" 65-70	.002		
" 70-75	.005		
" 72-73	~~.021~~	Control Course A	
" 75-76	.012		
" 76-77	.022		

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3-29-90
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 3-29-90

ASARCO Incorporated

APR 2 1990

COMPANY ASARCO, INC. LAB # 032890-5

DRILL CORE

PAGE 2

Sample Description	Ounces per ton AU (gold)	AG (silver)	Remarks
YDDH - 2 77-78	.005	0.010 avg 75-80	
" 78-79	.001		
" 79-80	.010		
" 79-84	~~.002~~	Control = ym-40, 80-85	
" 80-85	.005		
" 85-90	TR		
" 90-95	.002		
" 95-100	.013		
" 99-104	~~.002~~	Control = ym-40, 100-105	
" 100-105	.003		
" 105-110	.002		
" 110-115	.002		
" 112-113	~~.022~~	Control Lance A	
" 115-120	.098		
" 119-124	~~.002~~	Control = ym-40, 120-125	
" 120-125	.002		
" 125-130	.003		
" 130-135	.002		
" 135-140	.004		
" 139-144	~~.012~~	Control ym-40 140-145	
" 140-145	.005		
" 145-150	.003		
" 150-155	.011		
" 155-160	.005		

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3-29-90
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 3-30-90

ASARCO Incorporated

APR 2 1990

COMPANY ASARCO, INC LAB #032990-3

DRILL CORE

PAGE 3

Sample Description	Ounces per ton AU (gold)	AG (silver)	Remarks SW Exploration
YDDH - 2 159-164	.013 ✓	Control = ym-40, 160-165	
" 160-165	.001		
" 165-170	.017		
" 170-175	.002		
" 172-173	.015	Control, cocktail A	
" 175-180	.002		
" 179-184	.002 ✓	Control = ym-40, 180-185	
" 180-185	.008		
" 185-190	.004		
" 190-195	.001		
" 195-200	.002		
" 199-204	.011	Control = ym-40 200-205	
? 200-205 ? value			
" 205-210	.032		
" 210-215	.040		
" 212-213	.025	Control cocktail A	
" 215-220	.014		
" 219-224	.003 ✓	Control = ym-40, 220-225	
" 220-225	.001		
" 225-230	.002		
See next sheet			
" 245-250	.003		
" 250-255	.002		

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3-30-90 [signature]
DATE SIGNATURE

BULK ASSAY REPORT

TRIAD MINERALS CO.
ASSAYING & CONSULTING
P.O. Box 2754 - Mile Post 115, Hwy. 89
Wickenburg, Arizona 85358
602-684-3818

DATE 4-1-90

ASARCO Incorporated
APR 2 1990
Syr Exploration

COMPANY ASARCO, INC. LAB # 033090-1

DRILL CORE

PAGE 4

Sample Description	Ounces per ton AU (gold)	Ounces per ton AG (silver)	Remarks
YDDH - 2 230-235	.022		
" 235-240	.023		
" 239-244	.010		Contd = 235-40, 240-245
" 240-245	.003		
YDDH - 3 6-10	.004		
" 10-11	.001		
" 11-12	.002		
" 12-13	.001		
" 13-14	.014		
" 14-15	.004		
" 15-20	.005		
" 19-24	.004		
" 20-25	.007		
" 25-30	.170		
" 30-35	.003		
" 32-33	.023		
" 35-40	TR		
" 39-44	.012		
" 40-45	.001		
" 45-50	TR		
" 50-55	.008		
" 55-60	.006		
" 59-64	TR		

Certified Assays When Signed And Dated
4-1-90
DATE SIGNATURE

JDS

TRIAD MINERALS CO.

Assaying & Consulting

684-7370

YDOH-2 copper pit
3
4

TO: ASARCO INC

ATTN J. D. SELL

MARK MILLER

TOTAL NUMBER OF PAGES INCLUDING THIS PAGE: 9

FAX #: 792-3934

DATE: 4-2-90

TIME: 16:40

COMMENTS: THANK YOU.

Cory

ASARCO Incorporated

APR 2 1990

SW Exploration

COREY B. EDDINGTON
METALLURGIST

MILE POST 115 HWY. 89 P.O. BOX 2754 WICKENBURG, AZ 85358
(602) 684-3816 FAX (602) 684-3013

Yu 40

A 20-80 60 @ 0.014

B 275-380 = 105' @ 0.062

BULK ASSAY REPORT

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

DATE 4-1-90

ASARCO Incorporated

APR 2 1990

COMPANY ASARCO, INC. LAB # 033090-1

DRILL CORE

PAGE 4

Sample Description	Ounces per ton AU (gold)	Ounces per ton AG (silver)	Remarks Sy Exploration
YDDH - 2 230-235	.022		
" 235-240	.023		
" 239-244	.010 R	Contd 239-40, 240-245	
" 240-245	.003		
YDDH - 3 6-10	.004		
" 10-11	.001		
" 11-12	.002		
" 12-13	.001		
" 13-14	.014		
" 14-15	.004		
" 15-20	.005		
" 19-24	.004		
" 20-25	.007		
" 25-30	.170		
" 30-35	.003		
" 32-33	.023		
" 35-40	TR		
" 39-44	.012		
" 40-45	.001		
" 45-50	TR		
" 50-55	.008		
" 55-60	.006		
" 59-64	TR		

Certified Assays When Signed And Dated

4-1-90 [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 4-1-90

ASARCO Incorporate

APR 2 1990

COMPANY ASARCO, INC LAB #033090-2

DRILL CORE

PAGE 5

SW Exploration

Sample Description	Ounces per ton AU (gold)	AG (silver)	Remarks
YDDH - 3 60-65	.036		
" 65-70	TR		
" 70-75	.002		
" 72-73	.024		
" 75-80	.001		
" 79-84	.005		
" 80-85	.001		
" 85-90	.001		
" 90-95	TR		

Certified Assays When Signed And Dated
4-1-90
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 4-2-90

ASARCO Incorporated

COMPANY ASARCO INC. LAB #033190-2

APR 2 1990

DRILL CORE PAGE 6

Sample Description	Ounces per ton AU (gold)	AG (silver)	Remarks
YDDH - 3 95-100	.004		
" " 99-104	.004		
" " 100-105	.003		
" " 105-110	.003		
" " 110-115	.001		
" " 115-120	.009		
" " 112-113	.012		
" " 119-124	.012		
" " 120-125	.005		
" " 280-285	.038		
" " 285-290	.007		
" " 290-295	.002		
" " 292-293	.013		
" " 295-300	.013		
" " 300-305	.002		
" " 305-310	.001		
continued see sheet 8			
YDDH-4 8-10	.002		
" " 10-15	.001		
" " 15-20	.001		
" " 19-24	.003		
" " 20-25	.001		
" " 25-30	.001		
" " 30-35	.001		
" " 32-33	.010		
" " 35-40	.001		

Certified Assays When Signed And Dated
4-2-90 [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 4-2-90

ASARCO Incorporated

APR 2 1990

COMPANY ASARCO INC. LAB # 033190-3

DRILL CORE PAGE # 8

Sample Description	Ounces per ton AU (gold)	AG (silver)	Remarks
YDDH -3 310-315	TR		
" " 312-313	.014		
" " 315-320	TR		
" " 320-325	.003		

Certified Assays When Signed And Dated
4-2-90
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 4-2-90

ASARCO Incorporated

COMPANY ASARCO INC. LAB #033190-2

APR 2 1990

DRILL CORE PAGE 6

Sample Description	Ounces per ton AU (gold)	AG (silver)	Remarks
YDDH - 3 95-100	.004		
" " 99-104	.004		
" " 100-105	.003		
" " 105-110	.003		
" " 110-115	.001		
" " 115-120	.009		
" " 112-113	.012		
" " 119-124	.012		
" " 120-125	.005		
" " 280-285	.038		
" " 285-290	.007		
" " 290-295	.002		
" " 292-293	.013		
" " 295-300	.013		
" " 300-305	.002		
" " 305-310	.001		
continued see sheet 8			
YDDH-4 8-10	.002		
" " 10-15	.001		
" " 15-20	.001		
" " 19-24	.003		
" " 20-25	.001		
" " 25-30	.001		
" " 30-35	.001		
" " 32-33	.010		
" " 35-40	.001		

Certified Assays When Signed And Dated
4-2-90 [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 4-2-90

ASARCO Incorporated

APR 2 1990

COMPANY ASARCO INC LAB #040190-1

DRILL CORE PAGE # 7

Sample Description	Ounces per ton AU (gold)	AG (silver)	Remarks
YDDH-4 39-44	.003		
" " 40-45	.002		
" " 45-50	.001		
" " 50-55	.001		
" " 52-53	.015		
" " 55-60	.011		
" " 59-64	.003		
" " 60-65	.006		
" " 65-70	.004		
" " 70-75	.016		
" " 180-185	.002		
" " 184-189	.015		
" " 185-190	.TR		
" " 190-195	.007		
" " 195-200	.004		
" " 197-198	.013		
" " 199-200	.001		
" " 200-205	.TR		
" " 205-210	.TR		
" " 210-215	.TR		
" " 214-219	.TR		
" " 215-220	.002		

Certified Assays When Signed And Dated
4-2-90
DATE SIGNATURE

JDS

ASARCO

Southwestern Exploration Division

October 23, 1989

FILE MEMO

Yarnell Taxes
Yavapai County, AZ

Accounting has been sent the original of the attached letters and tax notices from Norgold, Roman, and Heintzelman on the Juniper, Edgar, Triangle, Edmond, and Mother Lode patented claims.

Note that the Juniper and Edgar are on the same notice (tax roll number 37743) and that the Santa Fe ground has been removed from the area on the Juniper, as well as the highway right-of-way on the Edgar claims.

The taxes will be paid for only the 1st Half, due November 1, 1989, as Norgold will pay their share after signing the agreement and this signing should be by the time the 2nd Half is due on May 1, 1990.

James D. Sell

James D. Sell

JDS:mek
Atts.

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

NORGOLD RESOURCES INC.

ASARCO INC.
P.O. Box 5747
Tucson AZ
Attn. Mr. W.L.Kurtz

RE: A.J.Roman - Western Building and Mining Co.Inc.

Dear Bill,

Further to our telephone conversation of today's date, please find enclosed 1989 Tax Notices and a letter from Al Roman.

I spoke with Mr. Roman over the weekend and ask that you send him at your earliest convenience, a brief overview of your exploration program to-date along with proof of payment of the Taxes. A copy of your communication with Mr. Roman would be appreciated for our records.

Thank you for your co-operation.

Sincerely,

Christopher S. Moat
Chairman of the Board
Chief Executive Officer

RECEIVED
OCT 17 1989
EXPLORATION DEPARTMENT

Transfer
Jennifer
Edmond

where is Edgar ?

2380 Harbour Centre, P.O. Box 12122, 555 W. Hastings Street, Vancouver, B.C. V6B-4N6

(604) 681-5566

WESTERN BUILDING AND MINING CO., INC.
BOX 4006
READING, PA. 19606

October, 3/89

Dear Chris;

Please send proof of tax payment for our records.

Sincerely,

AJR

AJR al

1989 TAX NOTICE

TO DEC. 31, 1989

COUNTY OF YAVAPAI ARIZONA

LEGAL DESCRIPTION: SECTION TWN RNG ACRES 37.76 USE 0014
WEAVER DIST: JUNIPER 20.35 AC LESS 1.72 AC TO AT&SF 235 8; EDGAR 19.25 AC TOTAL 37.88 AC LESS .12 AC 1265 694 BAL 37.76 AC

TAX ROLL NUMBER
37743
PARCEL IDENTIFICATION
203-13-002 6
TAX AREA CODE
5270

IMPORTANT—SEE REVERSE SIDE FOR COMPLETE EXPLANATION OF YOUR 1989 TAX NOTICE AND PAYMENT INSTRUCTIONS.

203-13-002 6 37743

WESTERN BUILDING & MINING CORP
P O BOX 4006
READING PA 19606

1989 TAX SUMMARY (3)

PRIMARY AD VALOREM TAX	718.18
LESS STATE AID TO EDUCATION	.00
NET PRIMARY AD VALOREM TAX	718.18
SECONDARY AD VALOREM TAX	75.60
SPECIAL DISTRICT TAX	.00

PAY TOTAL OR HALF TAX

TOTAL TAX DUE ➡	793.78
HALF TAX ➡	396.89

DELINQUENT DATES
1st HALF NOV. 1, 1989
2nd HALF May 1, 1990

THIS IS THE ONLY NOTICE YOU WILL RECEIVE
NO RECEIPT WILL BE SENT UNLESS REQUESTED

PRIMARY PROPERTY TAX CALCULATION (1)

ITEM	LIMITED VALUE	ASSMT. %	ASSESSED VALUE	EXEMPTION	TAX RATE	AD VALOREM TAX
LAND, BLDGS, ETC.	43424	16.0	6948	0	103362	718.18
PERSONAL PROPERTY	0	0	0	0	0	.00
TOTALS ➡	43424		6948	0		718.18

SECONDARY PROPERTY TAX CALCULATION (2)

ITEM	FULL CASH VALUE	ASSMT. %	ASSESSED VALUE	EXEMPTION	TAX RATE	AD VALOREM TAX
LAND	43424	16.0	6948	0	10881	75.60
BLDGS, ETC.	0	0	0	0	0	.00
PERSONAL PROPERTY	0	0	0	0	0	.00
TOTALS ➡	43424		6948	0		75.60

1988-1989 TAX COMPARISON (4)

TAX CODE	TAX JURISDICTION	1989 PRIMARY	1989 SECONDARY	1989 TOTAL	1988 TOTAL	DIFFERENCE
00986	STATE OF ARIZONA	32.67	.00	32.67	32.66	.01
01999	YAV CO PAYMENT AHCCCS AND ALTCS	52.22	.00	52.22	.00	52.22
02000	YAVAPAI COUNTY	99.06	.00	99.06	189.59	-90.53
[illegible]001	SCHOOL EQUALIZATION	34.74	.00	34.74	.00	34.74
[illegible]052	YARNELL ELEMENTARY SD #52	394.80	.00	394.80	400.71	-5.91
08150	YAVAPAI COMMUNITY COLLEGE	104.69	5.32	110.01	99.48	10.53
11211	YARNELL FD	.00	48.42	48.42	32.01	16.41
11900	FIRE DISTRICT ASSISTANCE FUND	.00	6.20	6.20	6.11	.09
14900	YAVAPAI COUNTY LIBRARY DIST	.00	7.75	7.75	7.92	-.17
15001	YAVAPAI FLOOD CONTROL DISTRICT	.00	7.91	7.91	8.28	-.37
	TOTALS	718.18	75.60	793.78	776.76	17.02

DPST 726 (REV. 7/89)

TEAR OFF ALONG DOTTED LINES

PLEASE RETURN THIS PORTION WITH PAYMENT TO:

RICHARD A. JACOBS
COUNTY TREASURER
255 EAST GURLEY ST
PRESCOTT, AZ 86301

WESTERN BUILDING & MININ

TAX ROLL NUMBER
37743
PARCEL IDENTIFICATION
203-13-002 6
TAX AREA CODE
5270

*IF TOTAL TAX DUE IS $10.00 OR LESS FULL AMOUNT IS DUE NOW. SEE PAYMENT INSTRUCTIONS ON REVERSE SIDE OF THIS NOTICE

ENTER ADDRESS CORRECTION ON THE BACK OF THIS COUPON.

RECEIPT REQUESTED ( )

PRIMARY NET	718.18	359.09
SECONDARY	75.60	37.80
CODE	SPECIAL DISTRICT TAX	
TOTALS ➡	TOTAL TAX 793.78	HALF TAX 396.89

1989 2nd HALF COUPON

TO PAY 2nd HALF ONLY PAY ➡	396.89
TO PAY FULL YEAR TAX PAY ➡	793.78

NOTE: 2nd HALF TAXES DELINQUENT AFTER MAY 1, 1990

TEAR OFF ALONG DOTTED LINES

PLEASE RETURN THIS PORTION WITH PAYMENT TO:

RICHARD A. JACOBS
COUNTY TREASURER
255 EAST GURLEY ST
PRESCOTT, AZ 86301

WESTERN BUILDING & MININ

TAX ROLL NUMBER
37743
PARCEL IDENTIFICATION
203-13-002 6
TAX AREA CODE
5270

*IF TOTAL TAX DUE IS $10.00 OR LESS FULL AMOUNT IS DUE NOW. SEE PAYMENT INSTRUCTIONS ON REVERSE SIDE OF THIS NOTICE

ENTER ADDRESS CORRECTION ON THE BACK OF THIS COUPON.

PLEASE RETURN BOTH COUPONS WHEN PAYING FULL YEAR TAX

RECEIPT REQUESTED ( )

PRIMARY NET	718.18	359.09
SECONDARY	75.60	37.80
CODE	SPECIAL DISTRICT TAX	
TOTALS ➡	TOTAL TAX 793.78	HALF TAX 396.89

1989 1st HALF COUPON

TO PAY 1st HALF ONLY PAY ➡	396.89
TO PAY FULL YEAR TAX PAY ➡	793.78

NOTE: 1st HALF TAXES DELINQUENT AFTER NOV. 1, 1989

1989 TAX NOTICE

TO DEC. 31, 1989

COUNTY OF YAVAPAI **ARIZONA**

LEGAL DESCRIPTION: SECTION TWN RNG ACRES 17.32 USE 8770
WEAVER DIST TRIANGLE LODE MINING CLAIM 17.32 AC 775/862 718/492

TAX ROLL NUMBER
37744
PARCEL IDENTIFICATION
203-13-002A 5
TAX AREA CODE
5270

IMPORTANT—SEE REVERSE SIDE FOR COMPLETE EXPLANATION OF YOUR 1989 TAX NOTICE AND PAYMENT INSTRUCTIONS.

203-13-002A 5 37744

WESTERN BUILDING AND MINING INC
BOX 4006
READING PA 19606

1989 TAX SUMMARY (3)	
PRIMARY AD VALOREM TAX	62245
LESS STATE AID TO EDUCATION	9651
NET PRIMARY AD VALOREM TAX	52594
SECONDARY AD VALOREM TAX	6552
SPECIAL DISTRICT TAX	00

PAY TOTAL OR HALF TAX

TOTAL TAX DUE ➡	59146
HALF TAX ➡	29573

DELINQUENT DATES
1st HALF NOV. 1, 1989
2nd HALF May 1, 1990

THIS IS THE ONLY NOTICE YOU WILL RECEIVE
NO RECEIPT WILL BE SENT UNLESS REQUESTED

PRIMARY PROPERTY TAX CALCULATION (1)

ITEM	LIMITED VALUE	ASSMT. %	ASSESSED VALUE	EXEMPTION	TAX RATE	AD VALOREM TAX
LAND, BLDGS, ETC.	49079	123	6022	0	103362	62245
PERSONAL PROPERTY	0	0	0	0	0	00
TOTALS ➡	49079		6022	0		62245

SECONDARY PROPERTY TAX CALCULATION (2)

ITEM	FULL CASH VALUE	ASSMT. %	ASSESSED VALUE	EXEMPTION	TAX RATE	AD VALOREM TAX
LAND	27168	141	3831	0	10881	4168
BLDGS, ETC.	21911	100	2191	0	10881	2384
PERSONAL PROPERTY	0	0	0	0	0	00
TOTALS ➡	49079		6022	0		6552

1988-1989 TAX COMPARISON (4)

TAX CODE	TAX JURISDICTION	1989 PRIMARY	1989 SECONDARY	1989 TOTAL	1988 TOTAL	DIFFERENCE
00986	STATE OF ARIZONA	2831	00	2831	2800	31
01999	YAV CO PAYMENT AHCCCS AND ALTCS	4526	00	4526	00	4526
02000	YAVAPAI COUNTY	8586	00	8586	16258	-7672
[illegible]001	SCHOOL EQUALIZATION	3011	00	3011	00	3011
[illegible]5052	YARNELL ELEMENTARY SD #52	24567	00	24567	24773	-206
08150	YAVAPAI COMMUNITY COLLEGE	9073	461	9534	8531	1003
11211	YARNELL FD	00	4197	4197	2744	1453
11900	FIRE DISTRICT ASSISTANCE FUND	00	538	538	524	14
14900	YAVAPAI COUNTY LIBRARY DIST	00	671	671	679	-08
15001	YAVAPAI FLOOD CONTROL DISTRICT	00	685	685	711	-26
	TOTALS	52594	6552	59146	57020	2126

DPSI 726 (REV. 7/89)

TEAR OFF ALONG DOTTED LINES

PLEASE RETURN THIS PORTION WITH PAYMENT TO:

RICHARD A. JACOBS
COUNTY TREASURER
255 EAST GURLEY ST
PRESCOTT, AZ 86301

TAX ROLL NUMBER 37744
PARCEL IDENTIFICATION 203-13-002A 5
TAX AREA CODE 5270

WESTERN BUILDING AND MIN

*IF TOTAL TAX DUE IS $10.00 OR LESS FULL AMOUNT IS DUE NOW. SEE PAYMENT INSTRUCTIONS ON REVERSE SIDE OF THIS NOTICE

ENTER ADDRESS CORRECTION ON THE BACK OF THIS COUPON.

RECEIPT REQUESTED ( )

PRIMARY NET	52594	26297
SECONDARY	6552	3276
CODE	SPECIAL DISTRICT TAX	
TOTALS ➡	TOTAL TAX 59146	HALF TAX 29573

1989 2nd HALF COUPON

TO PAY 2nd HALF ONLY PAY ➡	295.73
TO PAY FULL YEAR TAX PAY ➡	591.46

NOTE: 2nd HALF TAXES DELINQUENT AFTER MAY 1, 1990

TEAR OFF ALONG DOTTED LINES

PLEASE RETURN THIS PORTION WITH PAYMENT TO.

RICHARD A. JACOBS
COUNTY TREASURER
255 EAST GURLEY ST
PRESCOTT, AZ 86301

TAX ROLL NUMBER 37744
PARCEL IDENTIFICATION 203-13-002A 5
TAX AREA CODE 5270

WESTERN BUILDING AND MIN

*IF TOTAL TAX DUE IS $10.00 OR LESS FULL AMOUNT IS DUE NOW. SEE PAYMENT INSTRUCTIONS ON REVERSE SIDE OF THIS NOTICE

ENTER ADDRESS CORRECTION ON THE BACK OF THIS COUPON.

PLEASE RETURN BOTH COUPONS WHEN PAYING FULL YEAR TAX

RECEIPT REQUESTED ( )

PRIMARY NET	52594	26297
SECONDARY	6552	3276
CODE	SPECIAL DISTRICT TAX	
TOTALS ➡	TOTAL TAX 59146	HALF TAX 29573

1989 1st HALF COUPON

TO PAY 1st HALF ONLY PAY ➡	295.73
TO PAY FULL YEAR TAX PAY ➡	591.46

NOTE: 1st HALF TAXES DELINQUENT AFTER NOV. 1, 1989

1989 TAX NOTICE

TO DEC. 31, 1989

COUNTY OF YAVAPAI ARIZONA

LEGAL DESCRIPTION: SECTION TWN RNG ACRES 19.44 USE 0000
WEAVER DIST EDMOND MINING CLAIM CONT 19.44AC

TAX ROLL NUMBER
37745
PARCEL IDENTIFICATION
203-13-002B 4
TAX AREA CODE
5270

IMPORTANT—SEE REVERSE SIDE FOR COMPLETE EXPLANATION OF YOUR 1989 TAX NOTICE AND PAYMENT INSTRUCTIONS.

203-13-002B 4 37745

WESTERN BUILDING AND MINING INC
BOX 4006
READING PA 19606

1989 TAX SUMMARY (3)

PRIMARY AD VALOREM TAX	369.72
LESS STATE AID TO EDUCATION	.00
NET PRIMARY AD VALOREM TAX	369.72
SECONDARY AD VALOREM TAX	38.92
SPECIAL DISTRICT TAX	.00

PAY TOTAL OR HALF TAX

TOTAL TAX DUE ➡	408.64
HALF TAX ➡	204.32

DELINQUENT DATES
1st HALF NOV. 1, 1989
2nd HALF May 1, 1990

THIS IS THE ONLY NOTICE YOU WILL RECEIVE
NO RECEIPT WILL BE SENT UNLESS REQUESTED

PRIMARY PROPERTY TAX CALCULATION (1)

ITEM	LIMITED VALUE	ASSMT. %	ASSESSED VALUE	EXEMPTION	TAX RATE	AD VALOREM TAX
LAND, BLDGS, ETC.	22356	16.0	3577	0	10.3362	369.72
PERSONAL PROPERTY	0	0	0	0	0	.00
TOTALS ➡	22356		3577	0		369.72

SECONDARY PROPERTY TAX CALCULATION (2)

ITEM	FULL CASH VALUE	ASSMT. %	ASSESSED VALUE	EXEMPTION	TAX RATE	AD VALOREM TAX
LAND	22356	16.0	3577	0	10.881	38.92
BLDGS, ETC.	0	0	0	0	0	.00
PERSONAL PROPERTY	0	0	0	0	0	.00
TOTALS ➡	22356		3577	0		38.92

1988-1989 TAX COMPARISON (4)

TAX CODE	TAX JURISDICTION	1989 PRIMARY	1989 SECONDARY	1989 TOTAL	1988 TOTAL	DIFFERENCE
00986	STATE OF ARIZONA	16.81	.00	16.81	16.81	.00
01999	YAV CO PAYMENT AHCCCS AND ALTCS	26.88	.00	26.88	.00	26.88
02000	YAVAPAI COUNTY	51.00	.00	51.00	97.61	-46.61
[illegible]001	SCHOOL EQUALIZATION	17.89	.00	17.89	.00	17.89
[illegible]052	YARNELL ELEMENTARY SD #52	203.25	.00	203.25	206.30	-3.05
08150	YAVAPAI COMMUNITY COLLEGE	53.89	2.74	56.63	51.22	5.41
11211	YARNELL FD	.00	24.93	24.93	16.48	8.45
11900	FIRE DISTRICT ASSISTANCE FUND	.00	3.19	3.19	3.14	.05
14900	YAVAPAI COUNTY LIBRARY DIST	.00	3.99	3.99	4.08	-.09
15001	YAVAPAI FLOOD CONTROL DISTRICT	.00	4.07	4.07	4.26	-.19
	TOTALS	369.72	38.92	408.64	399.90	8.74

DPS1 726 (REV. 7/89)

TEAR OFF ALONG DOTTED LINES

PLEASE RETURN THIS PORTION WITH PAYMENT TO:

RICHARD A. JACOBS
COUNTY TREASURER
255 EAST GURLEY ST
PRESCOTT, AZ 86301

WESTERN BUILDING AND MIN

TAX ROLL NUMBER
37745
PARCEL IDENTIFICATION
203-13-002B 4
TAX AREA CODE
5270

*IF TOTAL TAX DUE IS $10.00 OR LESS FULL AMOUNT IS DUE NOW. SEE PAYMENT INSTRUCTIONS ON REVERSE SIDE OF THIS NOTICE

ENTER ADDRESS CORRECTION ON THE BACK OF THIS COUPON.

RECEIPT REQUESTED ( )

PRIMARY NET	369.72	184.86
SECONDARY	38.92	19.46
CODE	SPECIAL DISTRICT TAX	
TOTALS ➡	TOTAL TAX 408.64	HALF TAX 204.32

1989 2nd HALF COUPON

TO PAY 2nd HALF ONLY PAY ➡ 204.32

TO PAY FULL YEAR TAX PAY ➡ 408.64

NOTE: 2nd HALF TAXES DELINQUENT AFTER MAY 1, 1990

TEAR OFF ALONG DOTTED LINES

PLEASE RETURN THIS PORTION WITH PAYMENT TO:

RICHARD A. JACOBS
COUNTY TREASURER
255 EAST GURLEY ST
PRESCOTT, AZ 86301

WESTERN BUILDING AND MIN

TAX ROLL NUMBER
37745
PARCEL IDENTIFICATION
203-13-002B 4
TAX AREA CODE
5270

*IF TOTAL TAX DUE IS $10.00 OR LESS FULL AMOUNT IS DUE NOW. SEE PAYMENT INSTRUCTIONS ON REVERSE SIDE OF THIS NOTICE

ENTER ADDRESS CORRECTION ON THE BACK OF THIS COUPON.

PLEASE RETURN BOTH COUPONS WHEN PAYING FULL YEAR TAX

RECEIPT REQUESTED ( )

PRIMARY NET	369.72	184.86
SECONDARY	38.92	19.46
CODE	SPECIAL DISTRICT TAX	
TOTALS ➡	TOTAL TAX 408.64	HALF TAX 204.32

1989 1st HALF COUPON

TO PAY 1st HALF ONLY PAY ➡ 204.32

TO PAY FULL YEAR TAX PAY ➡ 408.64

NOTE: 1st HALF TAXES DELINQUENT AFTER NOV. 1, 1989

NORGOLD RESOURCES INC.

ASARCO INC.
P.O. Box 5747
Tucson AZ
Attn. Mr. W.L.Kurtz

RE: Forrest B. Heintzelman

Dear Bill,

Further to our telephone conversation of today's date, please find enclosed 1989 Tax Notices and a letter from Forrest B. Heintzelman.

Could you please forward at your earliest convenience, a copy of your correspondence with Mr. Heintzelman concerning this matter, for our records.

Thank you for your co-operation.

Sincerely,

Mother Lode

Christopher S. Moat
Chairman of the Board
Chief Executive Officer

RECEIVED
OCT 19 1989
EXPLORATION DEPARTMENT

2380 Harbour Centre, P.O. Box 12122, 555 W. Hastings Street, Vancouver, B.C. V6B-4N6

(604) 681-5566

FILE

Sept. 28, 1989

Norgold Resources (US) Inc.
2380 Harbour Centre
Post Office Box 12122
555 West Hastings St.
Vancouver, British Columbia
V6B 4N6

Dear Sirs —

As stated in our agreement Paragraph #13 these taxes are to be paid by you. I would like a copy of the paid receipt. Thank you.

Sincerely
Forest B. Hartzelman
1515 Cedar Crest Blvd.
Allentown, Pa. 18104

RECEIVED
OCT 19 1989
EXPLORATION DEPARTMENT

1989 TAX NOTICE

TO DEC. 31, 1989

COUNTY OF YAVAPAI ARIZONA

LEGAL DESCRIPTION: SECTION TWN RNG ACRES 20.24 USE 0014
WEAVER DIST MOTHER LODE CLAIM CONT 20.24AC

TAX ROLL NUMBER
37746
PARCEL IDENTIFICATION
203-13-002C 3
TAX AREA CODE
5270

IMPORTANT—SEE REVERSE SIDE FOR COMPLETE EXPLANATION OF YOUR 1989 TAX NOTICE AND PAYMENT INSTRUCTIONS.

203-13-002C 3 37746

HEINTZELMAN FORREST B
1315 CEDAR CREST BLVD
ALLENTOWN PA 18104

1989 TAX SUMMARY (3)

PRIMARY AD VALOREM TAX	664.00
LESS STATE AID TO EDUCATION	.00
NET PRIMARY AD VALOREM TAX	664.00
SECONDARY AD VALOREM TAX	69.90
SPECIAL DISTRICT TAX	.00

PAY TOTAL OR HALF TAX

TOTAL TAX DUE ➡	733.90
HALF TAX ➡	366.95

DELINQUENT DATES
1st HALF NOV. 1, 1989
2nd HALF May 1, 1990

THIS IS THE ONLY NOTICE YOU WILL RECEIVE
NO RECEIPT WILL BE SENT UNLESS REQUESTED

PRIMARY PROPERTY TAX CALCULATION (1)

ITEM	LIMITED VALUE	ASSMT. %	ASSESSED VALUE	EXEMPTION	TAX RATE	AD VALOREM TAX
LAND, BLDGS. ETC.	40151	16.0	6424	0	10.3362	664.00
PERSONAL PROPERTY	0	0	0	0	0	.00
TOTALS ➡	40151		6424	0		664.00

SECONDARY PROPERTY TAX CALCULATION (2)

ITEM	FULL CASH VALUE	ASSMT. %	ASSESSED VALUE	EXEMPTION	TAX RATE	AD VALOREM TAX
LAND	40151	16.0	6424	0	10.881	69.90
BLDGS. ETC.	0	0	0	0	0	.00
PERSONAL PROPERTY	0	0	0	0	0	.00
TOTALS ➡	40151		6424	0		69.90

1988-1989 TAX COMPARISON (4)

TAX CODE	TAX JURISDICTION	1989 PRIMARY	1989 SECONDARY	1989 TOTAL	1988 TOTAL	DIFFERENCE
00986	STATE OF ARIZONA	30.20	.00	30.20	30.20	.00
01999	YAV CO PAYMENT AHCCCS AND ALTCS	48.28	.00	48.28	.00	48.28
02000	YAVAPAI COUNTY	91.59	.00	91.59	175.29	-83.70
[illegible]001	SCHOOL EQUALIZATION	32.12	.00	32.12	.00	32.12
[illegible]052	YARNELL ELEMENTARY SD #52	365.02	.00	365.02	370.49	-5.47
08150	YAVAPAI COMMUNITY COLLEGE	96.79	4.92	101.71	91.98	9.73
11211	YARNELL FD	.00	44.77	44.77	29.59	15.18
11900	FIRE DISTRICT ASSISTANCE FUND	.00	5.74	5.74	5.65	.09
14900	YAVAPAI COUNTY LIBRARY DIST	.00	7.16	7.16	7.32	-.16
15001	YAVAPAI FLOOD CONTROL DISTRICT	.00	7.31	7.31	7.66	-.35
	TOTALS	664.00	69.90	733.90	718.18	15.72

UPS1 126 (REV. 7/89)

TEAR OFF ALONG DOTTED LINES

PLEASE RETURN THIS PORTION WITH PAYMENT TO:

RICHARD A. JACOBS
COUNTY TREASURER
255 EAST GURLEY ST
PRESCOTT, AZ 86301

TAX ROLL NUMBER
37746
PARCEL IDENTIFICATION
203-13-002C 3
TAX AREA CODE
5270

HEINTZELMAN FORREST B

*IF TOTAL TAX DUE IS $10.00 OR LESS FULL AMOUNT IS DUE NOW. SEE PAYMENT INSTRUCTIONS ON REVERSE SIDE OF THIS NOTICE

ENTER ADDRESS CORRECTION ON THE BACK OF THIS COUPON.

RECEIPT REQUESTED ( )

PRIMARY NET	664.00	332.00
SECONDARY	69.90	34.95
CODE	SPECIAL DISTRICT TAX	
TOTALS ➡	TOTAL TAX 733.90	HALF TAX 366.95

1989 2nd HALF COUPON

TO PAY 2nd HALF ONLY PAY ➡	366.95
TO PAY FULL YEAR TAX PAY ➡	733.90

NOTE: 2nd HALF TAXES DELINQUENT AFTER MAY 1, 1990

TEAR OFF ALONG DOTTED LINES

PLEASE RETURN THIS PORTION WITH PAYMENT TO:

RICHARD A. JACOBS
COUNTY TREASURER
255 EAST GURLEY ST
PRESCOTT, AZ 86301

TAX ROLL NUMBER
37746
PARCEL IDENTIFICATION
203-13-002C 3
TAX AREA CODE
5270

HEINTZELMAN FORREST B

*IF TOTAL TAX DUE IS $10.00 OR LESS FULL AMOUNT IS DUE NOW. SEE PAYMENT INSTRUCTIONS ON REVERSE SIDE OF THIS NOTICE

ENTER ADDRESS CORRECTION ON THE BACK OF THIS COUPON.

PLEASE RETURN BOTH COUPONS WHEN PAYING FULL YEAR TAX

RECEIPT REQUESTED ( )

PRIMARY NET	664.00	332.00
SECONDARY	69.90	34.95
CODE	SPECIAL DISTRICT TAX	
TOTALS ➡	TOTAL TAX 733.90	HALF TAX 366.95

1989 1st HALF COUPON

TO PAY 1st HALF ONLY PAY ➡	366.95
TO PAY FULL YEAR TAX PAY ➡	733.90

NOTE: 1st HALF TAXES DELINQUENT AFTER NOV. 1, 1989

JDS

ASARCO

Exploration Department
Southwestern United States Division

James D. Sell
Manager

October 23, 1989

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

Tax Payment - Work
Yarnell Project
Yavapai County, AZ

Dear Mr. Roman:

Mr. Moat has forwarded your letter and the tax notices for the Juniper, Edgar, Triangle, and Edmond patented claims (Tax roll numbers 37743 - 37744 - 37745).

I will send you the proof of payment of taxes when such is received from the Treasurer.

As Mr. Moat has probably told you, Asarco has presently completed 96 rotary drill holes and is in the process of drilling 4 diamond core holes for comparative and geological purposes on the Yarnell property. Asarco is in the process of evaluating all the data prior to any further exploration drilling.

Sincerely,

James D. Sell

James D. Sell

JDS:mek

cc: W.L. Kurtz
R.L. Brown
J.J. Lopez
C.S. Moat - Norgold Resources Inc.

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

For RL Brown - FTG et al

1. MAM lost his Air Travel Card & the Spokane Telephone Credit Card in July - He was unaware of the loss until some charges came in & accounting questioned him. The Airlin card was cancelled, but some $10,000 had been charged.

The Telephone card was used from 7-14 thru 8-03 and the some 28 calls were made, at a charge of less than $100 — ~~mostly~~ all from Phoenix area.

Doris of traffic & NY Accounting is aware but the (?) is whether Legal is aware and if they want to do anything about it.

Jim Woods (auditor) — Call cops (Jim Woods) Call Airline Cops

2. The four diamond drill holes recommended by WLK, JDS & MAM are 7, 8, 12, & 40

Agree?

3. The house (3 BR, 2 bath) & 5 acres, with guest house etc all electric, well insulated etc etc. is offered at $200,000. It had been on the market with realtor but was taken off but the "phone" sign is still up. It is owned by the lady Mrs. Breshears, who runs the Yarnell Feed Store.

From a Real Estate guide of Wickenburg - Yarnell other: Agree to go ofle it via Roylong Reality?

S L Lakosky Min Supp - Mexico
Transfer of MAM to Roy's credit Mining?
No No

(4) Norgold wants floppy of rest of drill hole — they have it thru hole 45.
OK? yes.
They want Expl. account # up to date.
OK? yes.
They want mylar of topography
OK. yes.
They may need pulp-reject for Canadian SEC regulators checks.
OK for "B" rejects to be sent? yes.

5) Gray-Bolla sent down packet by Noble Peak Resources Ltd who had a private placement offering of units for sale for a joint venture with their Cryto Zinc Deposit, Tooele Co, Ut — the former Utah International/BHP
ASARCO had looked at all the UI data in 1983
Oxide 5 mm tons, 6.1 Zn 0.11 Cu, 0.36 oz Ag & 0.047 Cd
Sulfide 4 mm tons, 5.5 Zn 0.23 Cu, 0.46 oz Ag & 0.054 Cd,
Au, selected ±0.03
Noble Peak has a $1 mill expl planned to outline an open-pit in oxide — some 2 mill tons of +6% Zn.
Noble Peak also has gold properties in Canada
Sir Joe Worthington on them??

Cyl Lucas S.L. Lakosky

① A private group has 23,000 acres in SW Utah controlling the Beaver Mtn & surrounding the Hecla Agey Ga-Ge property. (a breccia pipe)
JD Rasmussen is in contact with them — they have scades of geochem — gp data. They have at least two reasonable breccia pipes with indicative geochem and indication of several more.
They would give a 90 day free period to analysis data etc <u>upon</u> a guaranteed drilling committment of $100,000. Other terms appear to be reasonable including buyout.
Interested in Gallium-Germanium ??
Where does ASHCO get its Ga-Ge & ~~what~~ how much??

② Kunhes — NW AZ
approx 500 claims
includes Van Deemer w/ 1.3 mill tons heap leachable of 0.04
FTG-WLK-JDS once wanted to drill VD extens underground conv. Some 5 other target with only 1 drilled by Freeport, some 0.01 to 0.04 Au but only 5 out of 14 holes.
Wants 25K down, 5K monthly 2 mill Ent price.

WESTCOM COMMUNICATIONS

Operator Assistance Network.

509-489-7870 503- 34 OAN-Page 1

Billing Questions -- Call 509-747-6281 -- No Charge

DATE OF BILL SEP 01, 1989

OPERATOR ASSISTANCE NETWK DETAIL OF CURRENT CHARGES

LONG DISTANCE

	DATE	TIME	CLASS				NUMBER	MIN		NET CHARGE
	CALLS BILLED TO CALLING CARD 489-7870									
1.	7/16	139PM	G	FROM	GLENDAL	AZ	602 931 1804			
				TO	GLENDALE	AZ	602 846 9287	2	DISCOUNTED	1.30
2.	7/16	523PM	G	FROM	GLENDAL	AZ	602 931 1804			
				TO	GLENDALE	AZ	602 846 9287	3	DISCOUNTED	1.32
3.	7/16	548PM	G	FROM	GLENDAL	AZ	602 931 1804			
				TO	GLENDALE	AZ	602 846 9287	3	DISCOUNTED	1.32
4.	7/16	601PM	G	FROM	GLENDAL	AZ	602 931 1804			
				TO	GLENDALE	AZ	602 846 7364	8	DISCOUNTED	1.46
5.	7/17	400PM	E	FROM	GLENDAL	AZ	602 931 1804			
				TO	GLENDALE	AZ	602 979 7771	3		1.52
6.	7/19	748PM	F	FROM	GLENDAL	AZ	602 931 1804			
				TO	GLENDALE	AZ	602 846 7364	7	DISCOUNTED	1.63
7.	7/23	943AM	G	FROM	LITCHFL	AZ	602 849 1055			
				TO	LITCHFLDPK	AZ	602 849 4631	1	DISCOUNTED	1.26
8.	7/23	944AM	G	FROM	LITCHFL	AZ	602 849 1055			
				TO	GLENDALE	AZ	602 846 9287	3	DISCOUNTED	1.32
9.	7/23	946AM	G	FROM	LITCHFL	AZ	602 849 1055			
				TO	LITCHFLDPK	AZ	602 849 6176	2	DISCOUNTED	1.30
10.	7/23	948AM	G	FROM	LITCHFL	AZ	602 849 1055			
				TO	GLENDALE	AZ	602 848 8558	2	DISCOUNTED	1.30
11.	7/23	950AM	G	FROM	LITCHFL	AZ	602 849 1055			
				TO	LITCHFLDPK	AZ	602 849 6176	2	DISCOUNTED	1.30
12.	7/23	1014AM	G	FROM	LITCHFL	AZ	602 849 1055			
				TO	GLENDALE	AZ	602 846 9287	3	DISCOUNTED	1.32
13.	7/23	1017AM	G	FROM	LITCHFL	AZ	602 849 1055			
				TO	LITCHFLDPK	AZ	602 849 6176	3	DISCOUNTED	1.32
14.	7/23	1036AM	G	FROM	LITCHFL	AZ	602 849 1055			
				TO	GLENDALE	AZ	602 846 9287	3	DISCOUNTED	1.32
15.	7/23	1042AM	G	FROM	LITCHFL	AZ	602 849 1055			
				TO	GLENDALE	AZ	602 939 7644	5	DISCOUNTED	1.38
16.	7/23	1048AM	G	FROM	LITCHFL	AZ	602 849 1055			
				TO	GLENDALE	AZ	602 848 8558	3	DISCOUNTED	1.32
17.	7/24	1008AM	E	FROM	GLENDAL	AZ	602 931 1804			
				TO	GLENDALE	AZ	602 846 9287	3		1.52
18.	7/24	1130AM	E	FROM	GLENDAL	AZ	602 931 1804			
				TO	GLENDALE	AZ	602 848 8558	2		1.44
19.	7/24	1150AM	E	FROM	GLENDAL	AZ	602 931 1804			
				TO	GLENDALE	AZ	602 846 9287	3		1.52
20.	7/24	134PM	E	FROM	GLENDAL	AZ	602 934 6517			
				TO	GLENDALE	AZ	602 846 9287	1		2.67
21.	7/24	625PM	F	FROM	GLENDAL	AZ	602 931 1804			
				TO	GLENDALE	AZ	602 846 9287	1	DISCOUNTED	1.32
22.	7/27	1044AM	E	FROM	GLENDAL	AZ	602 934 6612			
				TO	GLENDALE	AZ	602 846 9287	3		2.95
23.	7/27	1047AM	E	FROM	GLENDAL	AZ	602 934 6612			
				TO	GLENDALE	AZ	602 878 7995	15		4.64
24.	7/27	244PM	E	FROM	GLENDAL	AZ	602 934 6612			
				TO	LITCHFLDPK	AZ	602 849 8115	1		2.67

U S WEST COMMUNICATIONS

509-489-7870 503- 34 OAN-Page 2

Operator Assistance Network.

Billing Questions -- Call 509-747-6281 -- No Charge

DATE OF BILL SEP 01, 1989

OPERATOR ASSISTANCE NETWK DETAIL OF CURRENT CHARGES

LONG DISTANCE

	DATE	TIME	CLASS				NUMBER	MIN		NET CHARGE	
	CALLS BILLED TO CALLING CARD 489-7870										
1.	7/27	734PM	F	FROM	GLENDAL	AZ	602 934 6612				
				TO	GLENDALE	AZ	602 846 9287	4	DISCOUNTED	2.90	
2.	7/27	739PM	F	FROM	GLENDAL	AZ	602 934 6612				
				TO	GLENDALE	AZ	602 878 7995	8	DISCOUNTED	3.29	
3.	7/29	810AM	G	FROM	GLENDAL	AZ	602 934 6517				
				TO	NO PHOENIX	AZ	602 942 4611	2	DISCOUNTED	2.58	
4.	8/03	314PM	E	FROM	GLENDAL	AZ	602 931 0848				
				TO	NO PHOENIX	AZ	602 992 4405	1		1.37	
5.	8/12	746PM	G	FROM	ONTARIO	CA	714 983 9600				
				TO	PALO ALTO	CA	415 323 0767	2	DISCOUNTED	1.49	
6.	8/12	929PM	G	FROM	ONTARIO	CA	714 983 9600				
				TO	PALO ALTO	CA	415 323 0767	18	DISCOUNTED	4.66	
7.	8/14	1136PM	N	FROM	SACRAME	CA	916 442 6971				
				TO	SPOKANE	WA	466 5039	13	DISCOUNTED	7.23	&
8.	8/15	853AM	N	FROM	SACRAME	CA	916 442 6971				
				TO	SPOKANE	WA	928 3013	2		2.82	&
9.	8/15	907AM	N	FROM	SACRAME	CA	916 442 6971				
				TO	ALBANY	NY	518 458 1313	2		2.86	
									TOTAL	69.62	

ok

Class of Call Codes--
E - Station-Day-Full Rate
F - Station-Evening-Discounted
G - Station-Night-Discounted
N - Station-Dialed Calling Card

TAX AND SURCHARGE SUMMARY OPERATOR ASSISTANCE NETWK

The detail listed below has been included in the current charges on this bill. This summary is provided as information only.

	US TAX	SALES TAX
LONG DISTANCE	2.09	.78

This portion of your bill is provided as a service to OPERATOR ASSISTANCE NETWK. There is no connection between U S WEST Communications and OPERATOR ASSISTANCE NETWK.

Police 791-4452 Oct 21, '89

Person who lost card Neil
should go to Police jurisdiction
& take telephone charges & domestic
charges. Report loss - theft -
& that cards were stopped when value
etc.

ASARCO

ADVICE OF INTERCOMPANY TRANSACTIONS

FORM AD 110
COMPTROLLER'S DEPARTMENT

ISSUED BY: New York DATE: October 4, 1989

THE FOLLOWING ENTRIES HAVE BEEN MADE IN OUR INTERCOMPANY ACCOUNT FOR: (NAME & NUMBER) TULSON C. L. S.

FOR ACCOUNTING MONTH OF: October

OCT 23 1989

ISSUING PLANT NO.	RECEIVING PLANT NO.	ISSUING PLANT'S ACCTG. MONTH	ISSUING PLANT'S ADVICE NUMBER	AMOUNT TO YOUR DEBIT/(CREDIT)	DO NOT WRITE IN THIS COLUMN	DESCRIPTION
7851	7845	10	2	~~3165.70~~		AIR Jets 5149 - SAA 1195.07; DEC 907.63; ARR 163.00; TES (34.00); DFS 218.00 = 2449.70
				2449.70		
				1164.09		Charge for lost AIR CARD 5149 MAM MA Miller Southwest Expl. Dept
				235.91 ✓		EA 87-12 620-753 MEYER, HENDRICKS, VICTOR, OSBORN VOH 1002 ✓
				785.00		AIR Jets 5149 HGK 500.00; ARR 285.00

MUST BE SUBMITTED ON A CURRENT BASIS TO RECEIVING PLANT.

APPROVED: _____

PRINTED IN U.S.A.

RECEIVING PLANT—1

AmericanAirlines

2038

AIR TRAVEL PLAN STATEMENT 07/10/89

PAYMENT DUE DATE **07/24/89**

INC.
.C. BROTHERTON
MAIDEN LANE
OORS 21-25
EW YORK,, NY 10038
CCOUNT NUMBER 15231-6

NET ACTIVITY OF ATTACHED STATEMENT	67,280.85
NET ACTIVITY OF YOUR LAST STATEMENT	.00
PRIOR BALANCE	.00
TOTAL BALANCE DUE	67,280.85

MPORTANT: IF THE POSTING OF YOUR PAYMENTS OR EXPECTED REFUNDS DO NOT APPEAR ON THIS STATEMENT, IT MAY BE DUE TO OUR RECEIVING THEM AFTER THE INDICATED BILLING DATE. THEY WILL APPEAR ON YOUR NEXT STATEMENT.

AMERICAN AIRLINES REFERENCE NUMBER	ISSUE DATE	TICKET NUMBER A/L	FORM	SERIAL	ROUTING	SEGMENT CLASS 1 2 3 4	SEGMENT CARRIERS 1 2 3 4	PASSENGER'S NAME	CARD HLDR NBR	AMOUNT
0600661106143045	06/22	006	1302	281410	EWR-ATL-SLC-BTM	Y Y Y	DL DL DL	HOYLE/R	01806	509.00
0600162106143094	06/19	001	1302	171013	JFK-DFW-AMA-DFW-EWR	Y Y Y Y	AA AA AA AA	JENNINGS/J	01806	946.00
0601461106137002	06/16	014	7096	457334	LGA-YUL-LGA	Y Y	AC AC	KINSOLVING/A	01806	294.46
0602661206137002	06/16	026	7096	457335	JFK-MEX-EWR	Y	PA DL	KINSOLVING/A	01806	656.00
0600661106167046	06/22	006	8529	962389	MEX-EWR	F	DL	KINSOLVINO/A	01806	471.13
0652661105931196	05/22	526	9030	326952	HOU-CRP-HOU		WN	KISTNER JR RH	01842	122.00
0652661106912012	06/04	526	0902	044997	HOU-CRP-HOU		WN	KISTNER JR RH	01842	105.00
0601261106123553	06/12	012	1302	098514	EWR-DTW-MKE-EWR	H H H	NW NW NW	KUPSCH/H	01806	208.00
0601261106123552	06/12	012	1302	098513	EWR-DTW-MKE-EWR	H H H	NW NW NW	KUPSCH/R	01806	208.00
0600661106123851	06/13	006	1302	098565	EWR-SFO-LAX-MEX-EWR	B Q Q B	UA DL DL DL	KUPSCH/R	01806	925.32
0603761106173032	06/27	037	1302	358744	EWR-PIT-TYS-ATL-EWR	Y Y B B	US US DL DL	KUPSCH/R	01806	572.00
0601661106173033	06/27	016	1302	358760	EWR-ORD-GEG-BTM-SLC	Y Y V Y	UA UA DL	KUPSCH/R	01806	982.00
0600661106173049	06/28	006	1302	358792	LGA-ATL-EWR	Y F	DL DL	KUPSCH/R	01806	842.00
0601261106123554	06/12	012	1302	098515	EWR-DTW-MKE-EWR	H H H	NW NW NW	KUPSCH/W	01806	208.00
0600661106143042	06/22	006	1302	281388	JFK-SLC-HLN-SLC-JFK	Y Y Y Y	DL DL DL DL	LARKIN/P	01806	982.00
0603061106143057	06/20	030	1302	171105	EWR-CLT-TYS-CLT-EWR	Y Y B B	PI PI PI PI	LIKARISH/J	01806	529.00
0600[illegible]106173090	06/27	001	1302	358766	EWR-DFW-AMA-DFW-EWR	Y Y Y Y	AA AA AA AA	LIKARISH/J	01806	946.00
0600[illegible]106123852	06/15	006	1302	170942	EWR-ATL-SLC-BTM	Y Y Y	DL DL DL	MCALLISTER/F	01806	856.00
0600661106143040	06/19	006	1302	171067	LGA-ATL-EWR	Y Y	DL DL	MCALLISTER/F	01806	674.00
0600661106137013	06/16	006	7096	457343	JFK-SLC-SEA-DEN-EWR	Y Y Y H	DL DL CO CO	MCCAFFREY/K	01806	1,172.00
0600162106143093	06/19	001	1302	171012	JFK-DFW-AMA-DFW-EWR	Y Y Y Y	AA AA AA AA	MCCAFFREY/K	01806	946.00
0600561106143021	06/19	005	1302	171061	EWR-ATL	Y	CO	MCCAFFREY/K	01806	337.00
0600661106147063	06/19	006	7096	457367	ATL-SEA-DEN-EWR	F Y H	DL CO CO	MCCAFFREY/K	01806	1,480.00
0600561106143019	06/19	005	1302	171048	EWR-BOS-EWR	Y Y	CO CO	MCGUINN/D	01806	240.50
0600661106143044	06/22	006	1302	281399	BOS-DFW-AMA	H Q	DL DL	MCKAY/A	01806	331.50
0600661106173051	06/29	006	1302	358870	BOS-DFW-AMA-DFW-LGA	H Q Y Y	DL DL DL DL	MCKAY/A	01806	804.50
0652661105926095	05/24	526	9016	000558	LAX-PHX		WN	MEADE GS	01822	32.00
0640161106156024	06/19	401	1457	035930	LAX-LAS-LAX	Y Y	HP HP	MEADE GS	01822	218.00
0603761106186052	06/29	037	1458	016208	LAX-TUS-LAX	V V	US US	MEADE GS	01822	146.00
0601661106113514	06/14	016	1456	956601	LGA-DEN-EWR	H H	UA CO	MELANDO/E	01806	554.00
0600162106136100	06/25	001	1457	845647	PHX-SJC-PHX	H H	AA AA	MILLER MA	01819	202.00
0600162106136101	06/25	001	1457	845648	PHX-DFW-FLL-DFW-PHX	Y Y Y Y	AA AA AA AA	MILLER MA	01819	978.00
0600162106136102	06/25	001	1457	845668	PHX-DFW-ORD-PHX	M M M	AA AA AA	MILLER MA	01819	591.00
0600162106136103	06/25	001	1457	845669	PHX-DFW-FLL-DFW-PHX	V V Q Q	AA AA AA AA	MILLER MA	01819	410.00
0602761106186061	06/26	027	7132	201356	PHX-ANC-SEA-PHX	Y Y Y V	AS AS AS VO	MILLER MA	01819	1,095.60
0640161106186114	06/26	401	7132	201362	PHX-LAX-PHX	M Q V	HP HP VO	MILLER MA	01819	58.00
0601261106176001	06/26	012	7467	066830	PHX-MSP-PHX	Q Q	NW NW	MILLER MA	01819	442.00
0655761106186007	06/27	557	7326	787059	MDW-ATL-DAB-ATL-MDW	H K K H	ML DL DL ML	MILLER MA	01819	493.00
0600561106186108	06/27	005	7326	787060	PHX-DEN-PHX	V B V	CO CO VO	MILLER MA	01819	252.00
0640161106186171	06/27	401	7326	787061	PHX-ORD-LAS-PHX	Q K V V	HP HP HP VO	MILLER MA	01819	521.00
0601661106176013	06/28	016	7467	066900	PHX-ORD-PHX	H H	UA UA	MILLER MA	01819	313.00
0640161106176007	06/28	401	7467	066901	PHX-LAX-PHX	V L	HP DL	MILLER MA	01819	38.00
0600661106176007	06/28	006	7467	066902	PHX-DFW-LFT-DFW-PHX	H H H H	DL DL DL DL	MILLER MA	01819	448.00
0600561106143025	06/23	005	1302	281474	EWR-DCA-TTN	Y Y	CO US	MISCHNER/K	01806	218.00
0600162106173100	06/29	001	1302	358863	LGA-DFW-AMA-DFW-LGA	Y Y Y Y	AA AA AA AA	MONAHAN/E	01806	946.00
0600162106113555	06/12	001	1456	451778	EWR-DFW-CRP-IAH-EWR	Y Y Y Y	AA AA CO CO	MORANO/K	01806	1,008.00
0600661106143041	06/19	006	1302	171068	LGA-ATL-EWR	Y Y	DL DL	MORANO/K	01806	674.00

PLEASE REMIT TO:
P.O. BOX 13691
DEPARTMENT 15231-6
NEWARK, NJ. 07188

PREVIOUS BALANCE	PAYMENTS	REFUNDS	CREDIT ADJUSTMENTS	DEBIT ADJUSTMENTS	NEW CHARGES	PAY THIS AMOUNT ->	NEW BALANCE
79,381.77	79,381.77	15,927.27	.00	.00	83,208.12		67,280.85

AmericanAirlines

AmericanAirlines

AIR TRAVEL PLAN STATEMENT 08/08/89

PAYMENT DUE DATE **08/22/89**

INC.
.C. BROTHERTON
AIDEN LANE
RS 21-25
YORK,, NY 10038
COUNT NUMBER 15231-6

NET ACTIVITY OF ATTACHED STATEMENT 10,914.45
NET ACTIVITY OF YOUR LAST STATEMENT .00
PRIOR BALANCE .00

TOTAL BALANCE DUE 10,914.45

MPORTANT: IF THE POSTING OF YOUR PAYMENTS OR EXPECTED REFUNDS DO NOT APPEAR ON THIS STATEMENT, IT MAY BE DUE TO OUR RECEIVING THEM AFTER THE INDICATED BILLING DATE. THEY WILL APPEAR ON YOUR NEXT STATEMENT.

AMERICAN AIRLINES EFERENCE NUMBER	ISSUE DATE	TICKET NUMBER A/L	FORM	SERIAL	ROUTING	SEGMENT CLASS 1	2	3	4	CARRIERS 1	2	3	4	PASSENGER'S NAME	CARD HLDR NBR	AMOUNT
700561107103211	07/17	005	1302	650810	GEG-EWR	Y				CO				MCALLISTER/F	01806	473.00
701661107103258	07/20	016	1302	776522	LGA-ORD-FWA-ORD-ATW	M	M	M	M	UA	UA	UA	UA	MCKAY/A	01806	876.00
700162107103469	07/20	001	1302	776541	LGA-ORD-FWA-ORD-ATW	Q	Q	M	M	AA	AA	UA	UA	MCKAY/A	01806	833.00
700561107103217	07/21	005	1302	776601	PVD-EWR	Q				CO				MCKAY/A	01806	85.00
700162107143772	07/25	001	1302	860447	LGA-ORD	Y				AA				MCKAY/A	01806	335.00
785761307097003	07/11	857	7096	457044	LGA-DCA-LGA	U	U			TB	TB			MCLAUGHLIN/P	01806	198.00
700162107096191	07/22	001	7128	670664	PHX-LAX-HNL-OGG-HNL	L	M	M	M	DL	AA	AA	AA	MILLER MA	01819	465.99
740161107096055	07/22	401	7468	942068	PHX-LAX-OGG-LAX-PHX	M	Y	Y	M	HP	UA	UA	HP	MILLER MA	01819	1,042.00
700661107113613	07/21	006	1459	510602	JFK-SLC-BTM-SLC-EWR	Y	Y	Y	Y	DL	DL	DL	DL	MORANO/K	01806	1,010.00
700162107113119	07/21	001	1459	510604	EWR-DFW-TUS-ORD-EWR	B	B	M	M	AA	AA	AA	AA	MORANO/K	01806	747.00
620862109928002	06/26	001	1301	076599	NA									MOTH R	01806	187.50
700761290615016	06/01	007	4091	868557	DCA-LGA					PA				MUTH RJ	01298	99.00
701661107143414	07/24	016	1302	860305	LGA-DEN-LGA	H	H			UA	CO			MUTH/R	01806	554.00
701661107213109	07/30	016	2129	013660	EWR-DEN-TUS-DEN-EWR	Q	Q	Q	Q	UA	UA	UA	UA	NICHOLSON/JAMES MR	01841	368.00
701261107143235	07/26	012	1302	860485	EWR-MSP-GEG-HLN-SLC	Y	Y	B	Y	NW	NW	NW	DL	NOYES/D	01806	1,052.00
755461107143052	07/25	554	1302	860435	WAS-TRE	1				A3				OSBORNE/R	01806	81.50
785761107143019	07/25	857	1302	860436	LGA-DCA	U				TB				OSBORNE/R	01806	99.00
701[illegible]07103252	07/17	016	1302	650811	LGA-DEN-GEG	Y	Y			UA	UA			OSBORNE/T	01806	473.00
701661107143415	07/26	016	1302	860463	LGA-DEN-LGA	H	H			UA	UA			OSBORNE/T	01806	484.00
701661107103253	07/17	016	1302	650819	EWR-DEN-EWR	H	H			UA	UA			PARAMESWARAN/K	01806	554.00
701461107143039	07/24	014	1302	860320	LGA-YUL-LGA	Y	Y			AC	AC			PLOTKIN/S	01806	294.59
700561107103216	07/19	005	1302	776497	EWR-SEA-LAX-EWR	Y	Y	Y		CO	DL	CO		ROLAK/C	01806	1,442.00
702661207108004	06/27	026	4230	408707	LGA-DCA	Y				PA				ROMAGNOLI EA	01680	99.00
702661207107027	06/28	026	4231	593950	DCA-LGA	Y				PA				ROMAGNOLI EA	01680	99.00
702661207104008	06/30	026	4230	972237	LGA-DCA	Y				PA				ROMAGNOLI EA	01680	99.00
702661207104027	06/30	026	4231	594055	DCA-LGA	Y				PA				ROMAGNOLI EA	01680	99.00
702661207116014	07/07	026	4091	951546	LGA-DCA	K				PA				ROMAGNOLI EA	01680	99.00
700162107103470	07/21	001	1302	776589	EWR-DFW-TUS-PHX-IAD	B	B	V	Y	AA	AA		CO	ROMAGNOLI/E	01806	814.00
740161100631042	06/28	401	4261	596767	PHX-ABQ	Y				HP				SCARTACCINI TE	01527	79.00
700561107103219	07/17	005	8539	769722	BDA-EWR	Y				CO				SCHLIEPER/H	01806	197.00
700162107103471	07/17	001	8539	769723	CRP-DFW-BDA	Y	X			AA	AA			SCHLIEPER/H	01806	668.00
703761107103250	07/18	037	1302	776397	LAX-SJC	H				US				SHAWHAN/G	01806	99.00
701461107133007	07/21	014	7143	980009	LGA-YUL-LGA	Y	Y			AC	AC			STANTON/B	01806	294.59
704561223161002	06/09	045	1302	098367	JFK-LIM-LPB	F	Y			LA	LB			STEIN HH	01806	1,443.00
704561223161003	06/09	045	1302	098370	LPB-LIM-JFK	Y	P			LB	LA			STEIN HH	01806	1,178.00
703761107154091	07/24	037	7136	892499	TYS-PIT-TYS	Y	Y			US	US			STEINHOFF/D	01682	330.00
701261107143237	07/27	012	1302	955730	LGA-MSP-DLH-MSP-LGA	M	M	M	M	NW	NW	NW	NW	TORTORA/P	01806	482.00
700661107094417	07/19	006	7134	287834	TYS-ATL-SFO-ATL-TYS	K	K	K	K	DL	DL	DL	DL	WALTER/D	01682	340.10
700661107094418	07/19	006	7134	287835	TYS-ATL-SFO-ATL-TYS	K	K	K	K	DL	DL	DL	DL	WALTER/D	01682	340.10
701661107103256	07/19	016	1302	776445	LGA-IAD-PHX-DEN-LGA	Q	Q	Y	H	UA	UA	UA	UA	WOODS/J	01806	733.00
701661107143416	07/27	016	1302	955695	LGA-DEN-LGA	H	H			UA	UA			WOODS/J	01806	484.00
700661107132043	07/24	006	7127	907949	ELP-SLC	Y				DL				WRIGHT DW	01815	294.00
752661107132038	07/24	526	7127	907950	MCI-HOU-ELP	Y	Y			WN	WN			WRIGHT DW	01815	154.00

PLEASE REMIT TO:

P.O. BOX 13691
DEPARTMENT 15231-6
NEWARK, NJ. 07188

PREVIOUS BALANCE	PAYMENTS	REFUNDS	CREDIT ADJUSTMENTS	DEBIT ADJUSTMENTS	NEW CHARGES
24,874.11	24,874.11	35,005.25	2,903.00	.00	48,822.70

PAY THIS AMOUNT -> NEW BALANCE 10,914.45

AmericanAirlines

AmericanAirlines

IR TRAVEL PLAN STATEMENT 08/23/89

PAYMENT DUE DATE 09/06/89

NC.
.C. BROTHERTON
IDEN LANE
S 21-25
ORK,, NY 10038
OUNT NUMBER 15231-6

NET ACTIVITY OF ATTACHED STATEMENT 47,686.80
NET ACTIVITY OF YOUR LAST STATEMENT 10,914.45
PRIOR BALANCE .00

TOTAL BALANCE DUE 58,601.25

PAGE 2

MPORTANT: IF THE POSTING OF YOUR PAYMENTS OR EXPECTED REFUNDS DO NOT APPEAR ON THIS STATEMENT, IT MAY BE DUE TO OUR RECEIVING THEM AFTER THE INDICATED BILLING DATE. THEY WILL APPEAR ON YOUR NEXT STATEMENT.

AMERICAN AIRLINES REFERENCE NUMBER	ISSUE DATE	TICKET NUMBER A/L	FORM	SERIAL	ROUTING	SEGMENT CLASS 1	2	3	4	CARRIERS 1	2	3	4	PASSENGER'S NAME		CARD HLDR NBR	AMOUNT
0801661108033460	08/01	016	1302	955891	EWR-ORD-SLC-BTM-SLC	Q	Y	Y	Y	UA	DL	DL	DL	KUPSCH/R		01806	765.00
0800561108033319	07/31	005	1302	955821	EWR-DCA-EWR	Y	Y			CO	CO			MCALLISTER/F		01806	238.00
0800561108063212	08/07	005	1303	080152	EWR-DEN-EWR	Y	Y			CO	CO			MCCAFFREY/K		01806	884.00
0803762108026085	07/31	037	1460	163920	LAX-TUS-LAX	K	K			US	US			MEADE	GS	01822	146.00
0803762108066186	08/09	037	1461	323651	LAX-LAS-LAX	Y	Y			US	US			MEADE	GS	01822	218.00
0899961106104005	07/24	401	7132	244508	PHX-PDX-LAS-PHX					HP	HP	HP		MILLER	M		505.00
0899961106104004	07/24	401	7132	244509	PHX-SAN-PHX					HP	HP			MILLER	M		158.00
0899961106104007	07/24	005	7132	244511	PHX-IAH-ORL-IAH-PHX					CO	CO	CO	CO	MILLER	M		852.00
0800162108016107	07/24	001	7128	670748	PHX-DFW-RDU-DFW-PHX	Y	Y	Y	Y	DL	DL	AA	AA	MILLER	MA	01819	1,030.00
0800162108063549	08/10	001	1303	195268	LGA-ORD-OMA-LGA	H	H	L		AA	AA	HP		MONAHAN/E		01806	518.00
0800162108023644	08/02	001	1460	553973	EWR-DFW-TUS-DEN-EWR	B	B	B	B	AA	AA	CO	CO	MORANO/K		01806	629.00
0801661108053207	08/08	016	1461	073295	EWR-SFO-EWR	B	B			UA	UA			MORANO/K		01806	934.00
0801661108053215	08/11	016	1461	614787	EWR-SFO-DEN-TUS	B	Y	Y		UA	UA	UA		MORANO/K		01806	1,071.00
0800661108063349	08/08	006	1303	195208	BDR-BOS-BDR	Y	B			DL	DL			MURRAY/J		01806	176.50
0802661207125005	07/12	026	4230	409142	LGA-DCA-LGA	Y	Y			PA	PA			MUTH	RJ	01298	198.00
0802661207134032	07/17	026	4231	941546	DCA-LGA	Y				PA				MUTH	RJ	01298	99.00
08[illegible]61108033318	07/31	005	1302	955819	PHL-DEN-BZN-MSO-MSP	H	H	V	Y	CO	CO		NW	MUTH/R		01806	1,042.00
0800561108033324	08/02	005	8539	769739	PHL-DEN-BZN	H	H			CO	CO			MUTH/R		01806	1,017.00
0800162108033852	08/04	001	1303	080085	EWR-DFW-ELP-DFW-ORD	Y	Y	Y	Y	AA	AA	DL	DL	NOVOTNY/R		01806	1,785.00
0800162108034153	08/01	001	7138	113646	CMH-DFW-IAH-BTR-MOB	H	V	Y	V	AA		CO		OHM	RJ	01812	703.00
0852661108034048	08/01	526	7138	113648	DAL-IAH	Y				WN				OHM	RJ	01812	61.00
0800561108033321	08/01	005	1302	955890	EWR-ORD-EWR	Y	Y			CO	CO			OKEEFE/R		01806	670.00
0800661108063348	08/08	006	1303	195167	LGA-PVD	B				DL				OSBORNE/C		01806	81.00
0800661108033575	08/02	006	1303	079964	JFK-SLC-BTM-GEG-LGA	Y	Y	V	Y	DL	DL		UA	OSBORNE/T		01806	974.00
0801661108063445	08/11	016	1303	195350	LGA-DEN-TUS-SFO-LAX	F	F	F	F	UA	UA	UA	UA	OSBORNE/T		01806	3,861.04
0801661108063446	08/11	016	1303	195352	PER-MEL-SYD-LAX-SFO	F	F	F	F	AN	AN	UA	UA	OSBORNE/T		01806	3,552.86
0800561108033322	08/01	005	1302	955896	EWR-DCA-EWR	Y	Y			CO	CO			PARAMESWARAN/K		01806	238.00
0801461108033041	08/01	014	1302	955922	EWR-YUL-LGA	Y	Y			AC	AC			PLOTKIN/S		01806	294.62
0802661207120022	07/07	026	4231	594230	DCA-LGA	Y				PA				ROMAGNOLI	EA	01680	99.00
0802661207124010	07/10	026	4231	044043	LGA-DCA	Y				PA				ROMAGNOLI	EA	01680	99.00
0802661207125028	07/12	026	4231	594361	DCA-LGA	Y				PA				ROMAGNOLI	EA	01680	99.00
0802661207134007	07/17	026	4230	973647	LGA-DCA	Y				PA				ROMAGNOLI	EA	01680	99.00
0802661207135032	07/18	026	4231	903909	DCA-LGA	Y				PA				ROMAGNOLI	EA	01680	99.00
0852661107905222	06/28	526	0000	782728	ABQ-PHX-ABQ					WN				SCARTACCINI	TE	01527	68.00
0800561100715061	07/10	005	2101	917654	EWR-IAH-AUS-EWR	F	F	F		CO	CO	CO		SEMLER	J	01841	868.00
0855461108073059	08/07	554	7143	980192	PHL-NYP-PHL	1	1			A3	A3			STANTON/B		01806	82.00
0855461108073060	08/08	554	7143	980217	PHL-NYP-PHL	1	1			A3	A3			STANTON/B		01806	69.00
0800162108053211	08/07	001	1461	073239	ELP-DFW-EWR	Y	Y			AA	AA			STOTT/R		01806	525.00
0801661108053216	08/11	016	1461	614799	EWR-ORD-SMF-SFO-EWR	Y	Y		B	AA	AA		UA	STOTT/R		01806	1,076.00
0808261228947002	06/20	082	1615	044467	BRU-DUS-BRU	C				SN				WIERS	J	01727	226.24
0800561108063213	08/08	005	1303	195183	EWR-BOS-EWR	Y	Y			CO	CO			WILSON/S		01806	240.50
0800661108063350	08/08	006	1303	195209	JFK-SLC-BTM-MSO-DEN	Y	Y	V	Y	DL	DL		CO	WOODS/J		01806	1,003.00
0801661108063444	08/09	016	1303	195242	LGA-ORD-PHX-SFO-JFK	Y	Y	Q	B	UA	UA	UA	UA	WOODS/J		01806	1,012.00

PLEASE [illegible]T TO:
P.O. BOX 13691
DEPARTMENT 15231-6
NEWARK, NJ. 07188

PREVIOUS BALANCE	PAYMENTS	REFUNDS	CREDIT ADJUSTMENTS	DEBIT ADJUSTMENTS	NEW CHARGES	PAY THIS AMOUNT ->	NEW BALANCE
10,914.45	.00	5,902.33	.00	.00	53,589.13		58,601.25

AmericanAirlines

AmericanAirlines

TRAVEL PLAN STATEMENT 09/08/89

PAYMENT DUE DATE **09/22/89**

ROTHERTON
LANE
-25
, NY 10038
NUMBER 15231-6

NET ACTIVITY OF ATTACHED STATEMENT	33,502.49
NET ACTIVITY OF YOUR LAST STATEMENT	47,686.80
PRIOR BALANCE STILL UNPAID & PAST DUE	10,914.45
TOTAL BALANCE DUE	92,103.74

TANT: IF THE POSTING OF YOUR PAYMENTS OR EXPECTED REFUNDS DO NOT APPEAR ON THIS STATEMENT, IT MAY BE DUE TO OUR RECEIVING THEM AFTER THE INDICATED BILLING DATE. THEY WILL APPEAR ON YOUR NEXT STATEMENT.

AMERICAN AIRLINES REFERENCE NUMBER	ISSUE DATE	TICKET NUMBER A/L FORM SERIAL	ROUTING	SEGMENT CLASS 1 2 3 4	SEGMENT CARRIERS 1 2 3 4	PASSENGER'S NAME	CARD HLDR NBR	AMOUNT
0801661108242005	08/13	016 2129 240543	EWR-LAX	F	UA	HORLACHER DA	01798	265.00
0800661108113482	08/15	006 7143 980301	EWR-DFW-MEX	F F	DL DL	KINSOLVING/A	01806	433.00
0852661107918202	07/10	526 0907 026896	HOU-CRP-HOU		WN	KISTNER JR RH	01842	122.00
0852661107927038	07/20	526 0909 025741	HOU-CRP-HOU		WN	KISTNER JR RH	01842	122.00
0801661108103122	08/14	016 1303 315297	EWR-DEN-TUS-DEN-EWR	M M H H	UA UA UA UA	KUPSCH/R	01806	637.00
0801461108143040	08/23	014 1303 564575	EWR-YUL-YYT-YUL-LGA	Y Y Y Y	AC AC AC AC	KUPSCH/R	01806	705.54
0800561108133006	08/25	005 7090 975797	EWR-DCA-EWR	Y Y V	CO CO VO	LIKARISH JK	01793	238.00
0800661108143226	08/25	006 1303 564753	EWR-SLC-EWR	B Y	DL DL	LIKARISH/J	01806	1,035.00
0800162108103178	08/15	001 1303 315368	MEX-DFW-ORD	M M	LH AA	MCALLISTER/F	01806	438.86
0803761108106200	08/15	037 1461 978153	LAX-RNO-LAX	Y Y	US US	MEADE GS	01822	238.00
0800162108106338	08/18	001 1461 978281	DFW-CRP-SAT-DFW	Q Q	AA AA	MEADE GS	01822	169.00
0800162108106339	08/18	001 1461 978293	LAX-DFW-MCI-DFW-LAX	H H H H	AA AA AA AA	MEADE GS	01822	298.00
0899961106155004	07/24	027 7128 670746	PHX-PDX-PHX		AS AS	MILLER M		672.00
0899961106155003	07/24	401 7128 670747	PHX-SAN-PHX		HP HP	MILLER M		158.00
0899961106155005	07/24	016 7128 670749	PHX-BOS-PHX		UA UA	MILLER M		222.50
0800661108113483	08/15	006 7143 980315	EWR-DFW-MEX	F F	DL DL	MISCHNER/K	01806	433.00
0800661108103114	08/16	006 1303 315412	EWR-DFW-AMA-DFW-EWR	Y Y Y Y	DL DL DL DL	MITOLO/M	01806	946.00
0840[illegible]108113024	08/14	401 1461 614920	OAK-PHX-TUS	Y Y	HP HP	MORANO/K	01806	168.00
0800[illegible]108103092	08/14	005 1303 315280	EWR-SLC-SUN-SLC-PHX	Y Y Y Y	CO AS AS DL	MUTH/R	01806	1,343.00
0800561108103093	08/15	005 1303 315349	SUN-SLC-DEN-PHL	Y Y Y	AS CO CO	MUTH/R	01806	663.00
0801661108103124	08/16	016 1303 315470	PHL-SFO-PHL	V V	UA UA	MUTH/R	01806	298.00
0800661108103115	08/17	006 1303 439038	LGA-ATL-LGA	Y Y	DL DL	NOTO/M	01806	674.00
0801561108163146	08/24	015 7143 980441	EWR-STL-OMA-STL-EWR	Q Q Q Q	TW TW TW TW	NOVOTNY/J	01806	518.00
0801561108163145	08/24	015 7143 980440	EWR-STL-OMA-STL-EWR	Q Q Q Q	TW TW TW TW	NOVOTNY/R	01806	518.00
0800561208143268	08/23	005 1303 564574	EWR-PVD-EWR	V V	CO CO	OSBORNE/R	01806	218.00
0800561100704140	06/29	005 4070 938500	DCA-EWR		CO	PARAMESWARAN DK	01797	20.00
0801661108143247	08/23	016 1303 564544	EWR-IAD-EWR	B B	UA UA	PARAMESWARAN/K	01806	238.00
0840161100720011	07/21	401 4060 186637	PHX-TUS		HP	RAIHL A	01545	15.00
0800561108103094	08/16	005 1303 315422	EWR-IAH-CRP-IAH-EWR	Y Y V Y	CO CO CO	ROLAK/C	01806	1,023.00
0800561208143269	08/24	005 1303 564676	EWR-IAH-CRP-IAH-EWR	Y Y Y Y	CO CO CO CO	ROLAK/C	01806	1,122.00
0802661208102048	07/23	026 4091 970034	DCA-LGA	K	PA	ROMAGNOLI EA	01680	99.00
0802661208113005	08/02	026 4230 351328	LGA-DCA	Y	PA	ROMAGNOLI EA	01680	99.00
0802661208114038	08/03	026 4231 595166	DCA-LGA	Y	PA	ROMAGNOLI EA	01680	99.00
0801661108143248	08/25	016 1303 564726	LGA-DEN-LGA	H H	UA UA	ROMAGNOLI/E	01806	554.00
0801461108163013	08/24	014 7143 980438	LGA-YYZ-YXU	Y Y	AC CP	SCHULTZ/C	01806	254.21
0801461108163014	08/24	014 7143 980448	LGA-YYZ-YXU	Y Y	AC AC	SCHULTZ/C	01806	167.40
0801661108249053	08/31	016 2129 557729	TUS-DEN-DFW-DEN-TUS	Y Y Y Y	UA UA UA UA	SEEGMILLER/MYRON	01859	682.00
0840161108096053	08/14	401 1502 004322	TUS-PHX-ONT-PHX-TUS	M K M M	HP HP HP HP	SKIDMORE DF	01583	155.00
0340161108096054	08/17	401 1502 043657	ONT-PHX-TUS-PHX-ONT	M M M M	HP HP HP HP	SKIDMORE DF	01583	152.00
0840161108096055	08/17	401 1502 043666	ONT-PHX-TUS-PHX-ONT	M M M M	HP HP HP HP	SKIDMORE DF	01583	152.00
0801461108103018	08/16	014 1303 315421	LGA-YUL-YYT-YUL-LGA	Y Y Y Y	AC AC AC AC	WOODS/J	01806	705.35
0800162108103179	08/16	001 1303 315423	LGA-PHX-LGA	M Q	AA UA	WOODS/J	01806	514.00

PLEASE REMIT TO:
P.O. BOX 13691
DEPARTMENT 15231-6
NEWARK, NJ. 07188

PREVIOUS BALANCE	PAYMENTS	REFUNDS	CREDIT ADJUSTMENTS	DEBIT ADJUSTMENTS	NEW CHARGES
58,601.25	.00	8,524.51	.00	.00	42,027.00

PAY THIS AMOUNT -> NEW BALANCE 92,103.74

AmericanAirlines

T- 3.9

July 28, 1989

C. L. S.
AUG 2 1989

Ms. Donna Jackson
American Airlines
MD 782
P. O. Box 582809
Tulsa, OK 74158-2809

Dear Ms. Jackson:

This will confirm our telephone conversation of July 24th wherein I advised you that fraudulent charges were billed to Air Travel Card No. 1001 15231 018198 in the name of M. A. Miller. Apparently Mr. Miller lost his air travel card and did not realize his loss until he was billed with charges in amount of $5,841.60 (see attached statement).

I advised American Airlines on July 24th that Mr. Miller's card was lost or stolen.

In view of the fact that purchase of these airline tickets was made by an unauthorized person, please advise me if Asarco is responsible for these fraudulent charges.

Yours very truly,

Doris A. Reischach
Administrative Asst.

att.

bcc: B. Warshawsky-w/att.
Coy Snow - Tucson

1-3.7

ASARCO

New York Office
General Traffic Department

September 8, 1989

1 1989

Ms. Donna Jackson
American Airlines
MD 782
P.O. Box 582809
Tulsa, OK 74158-2809

Dear Ms. Jackson:

This refers to our letter dated July 28, 1989 (copy attached) regarding fraudulent charges in amount of $5,841.60 billed to Air Travel Card No. 1001 15231 018198.

I am attaching copies of Air Travel Statements dated August 22nd and September 6th, 1989 listing more unauthorized charges, which now total $9,894.59.

As requested in my letter of July 28th, please investigate this matter and advise if Asarco is responsible for these charges.

Yours very truly,

Doris A. Reischach
Administrative Asst.

bcc: B. Warshawsky
Coy Snow-Tucson

JDS

ASARCO

Southwestern Exploration Division

October 24, 1989

M.A. Miller
Tucson Office

Report Loss of Cards
Yarnell Project
Yavapai County, AZ

The Tucson police information officer said that in order for the police to be involved in recovery of any losses by misuse of the lost cards, you must do the following:

1. Report to the area police, i.e., Phoenix, that the cards were lost, about when and where. Also report when the loss was noticed and the stop payment/cancel cards was initiated.

2. A copy of the telephone calls and the American Airline charges are attached and a copy probably should be given to the police to help with their investigation.

3. Review with the police the procedures and involvement which may be part of this recovery program.

James D. Sell

James D. Sell

JDS:mek
Atts.

cc: R.L. Brown
W.L. Kurtz
C.L. Snow

AMERICAN AIRLINES REFERENCE NUMBER	ISSUE DATE	TICKET NUMBER A/L	FORM	SERIAL	ROUTING	SEGMENT CLASS 1	2	3	4	CARRIERS 1	2	3	4	PASSENGER'S NAME		CARD HLDR NBR	AMOUNT
0600162106136100	06/25	001	1457	845647	PHX-SJC-PHX	H	H			AA	AA			MILLER	MA	01819	202.00
0600162106136101	06/25	001	1457	845648	PHX-DFW-FLL-DFW-PHX	Y	Y	Y	Y	AA	AA	AA	AA	MILLER	MA	01819	978.00
0600162106136102	06/25	001	1457	845668	PHX-DFW-ORD-PHX	M	M	M		AA	AA	AA		MILLER	MA	01819	521.00
0600162106136103	06/25	001	1457	845669	PHX-DFW-FLL-DFW-PHX	V	V	Q	Q	AA	AA	AA	AA	MILLER	MA	01819	410.00
0602761106186061	06/26	027	7132	201356	PHX-ANC-SEA-PHX	Y	Y	Y	V	AS	AS	AS	VO	MILLER	MA	01819	1,095.60
0640161106186114	06/26	401	7132	201362	PHX-LAX-PHX	M	Q	V		HP	HP	VO		MILLER	MA	01819	658.00
0601261106176001	06/26	012	7467	066830	PHX-MSP-PHX	Q	Q			NW	NW			MILLER	MA	01819	442.00
0655761106186007	06/27	557	7326	787059	MDW-ATL-DAB-ATL-MDW	H	K	K	H	ML	DL	DL	ML	MILLER	MA	01819	495.00
0600561106186108	06/27	005	7326	787060	PHX-DEN-PHX	V	B	V		CO	CO	VO		MILLER	MA	01819	252.00
0640161106186171	06/27	401	7326	787061	PHX-ORD-LAS-PHX	Q	K	V	V	HP	HP	HP	VO	MILLER	MA	01819	521.00
0601661106176013	06/28	016	7467	066900	PHX-ORD-PHX	H	H			UA	UA			MILLER	MA	01819	313.00
0640161106176007	06/28	401	7467	066901	PHX-LAX-PHX	V	L			HP	DL			MILLER	MA	01819	58.00
0600661106176007	06/28	006	7467	066902	PHX-DFW-LFT-DFW-PHX	H	H	H	H	DL	DL	DL	DL	MILLER	MA	01819	448.00
700162107096191	07/22	001	7128	670664	PHX-LAX-HNL-OGG-HNL	L	M	M	M	DL	AA	AA	AA	MILLER	M	01819	465.99
740161107096055	07/22	401	7468	942068	PHX-LAX-OGG-LAX-PHX	M	Y	Y	M	HP	UA	UA	HP	MILLER	MA	01819	1,042.00
0899961106104005	07/24	401	7132	244508	PHX-PDX-LAS-PHX					HP	HP	HP		MILLER	M		505.00
0899961106104004	07/24	401	7132	244509	PHX-SAN-PHX					HP	HP			MILLER	M		158.00
0899961106104007	07/24	005	7132	244511	PHX-IAH-ORL-IAH-PHX					CO	CO	CO	CO	MILLER	M		852.00
0800162108016107	07/24	001	7128	670748	PHX-DFW-RDU-DFW-PHX	Y	Y	Y	Y	DL	DL	AA	AA	MILLER	MA	01819	1,030.00
0899961106155004	07/24	027	7128	670746	PHX-PDX-PHX					AS	AS			MILLER	M		672.00
0899961106155003	07/24	401	7128	670747	PHX-SAN-PHX					HP	HP			MILLER	M		158.00
0899961106155005	07/24	016	7128	670749	PHX-BOS-PHX					UA	UA			MILLER	M		922.50

TOTAL $11,647.09

Operator Assistance Network.

509-489-7870 503- 34 OAN-Page 1

Billing Questions -- Call 509-747-6281 -- No Charge

DATE OF BILL SEP 01, 1989

OPERATOR ASSISTANCE NETWK DETAIL OF CURRENT CHARGES

LONG DISTANCE

	DATE	TIME	CLASS	TO FROM			NUMBER	MIN		NET CHARGE
	CALLS BILLED TO CALLING CARD 489-7870									
1.	7/16	139PM	G	FROM	GLENDAL	AZ	602 931 1804			
				TO	GLENDALE	AZ	602 846 9287	2	DISCOUNTED	1.30
2.	7/16	523PM	G	FROM	GLENDAL	AZ	602 931 1804			
				TO	GLENDALE	AZ	602 846 9287	3	DISCOUNTED	1.32
3.	7/16	548PM	G	FROM	GLENDAL	AZ	602 931 1804			
				TO	GLENDALE	AZ	602 846 9287	3	DISCOUNTED	1.32
4.	7/16	601PM	G	FROM	GLENDAL	AZ	602 931 1804			
				TO	GLENDALE	AZ	602 846 7364	8	DISCOUNTED	1.46
5.	7/17	400PM	E	FROM	GLENDAL	AZ	602 931 1804			
				TO	GLENDALE	AZ	602 979 7771	3		1.52
6.	7/19	748PM	F	FROM	GLENDAL	AZ	602 931 1804			
				TO	GLENDALE	AZ	602 846 7364	7	DISCOUNTED	1.63
7.	7/23	943AM	G	FROM	LITCHFL	AZ	602 849 1055			
				TO	LITCHFLDPK	AZ	602 849 4631	1	DISCOUNTED	1.26
8.	7/23	944AM	G	FROM	LITCHFL	AZ	602 849 1055			
				TO	GLENDALE	AZ	602 846 9287	5	DISCOUNTED	1.32
9.	7/23	946AM	G	FROM	LITCHFL	AZ	602 849 1055			
				TO	LITCHFLDPK	AZ	602 849 6176	2	DISCOUNTED	1.30
10.	7/23	948AM	G	FROM	LITCHFL	AZ	602 849 1055			
				TO	GLENDALE	AZ	602 848 8558	2	DISCOUNTED	1.30
11.	7/23	950AM	G	FROM	LITCHFL	AZ	602 849 1055			
				TO	LITCHFLDPK	AZ	602 849 6176	2	DISCOUNTED	1.30
12.	7/23	1014AM	G	FROM	LITCHFL	AZ	602 849 1055			
				TO	GLENDALE	AZ	602 846 9287	3	DISCOUNTED	1.32
13.	7/23	1017AM	G	FROM	LITCHFL	AZ	602 849 1055			
				TO	LITCHFLDPK	AZ	602 849 6176	3	DISCOUNTED	1.32
14.	7/23	1036AM	G	FROM	LITCHFL	AZ	602 849 1055			
				TO	GLENDALE	AZ	602 846 9287	3	DISCOUNTED	1.32
15.	7/23	1042AM	G	FROM	LITCHFL	AZ	602 849 1055			
				TO	GLENDALE	AZ	602 939 7644	5	DISCOUNTED	1.38
16.	7/23	1048AM	G	FROM	LITCHFL	AZ	602 849 1055			
				TO	GLENDALE	AZ	602 848 8558	3	DISCOUNTED	1.32
17.	7/24	1008AM	E	FROM	GLENDAL	AZ	602 931 1804			
				TO	GLENDALE	AZ	602 846 9287	3		1.52
18.	7/24	1130AM	E	FROM	GLENDAL	AZ	602 931 1804			
				TO	GLENDALE	AZ	602 848 8558	2		1.44
19.	7/24	1150AM	E	FROM	GLENDAL	AZ	602 931 1804			
				TO	GLENDALE	AZ	602 846 9287	3		1.52
20.	7/24	134PM	E	FROM	GLENDAL	AZ	602 934 6517			
				TO	GLENDALE	AZ	602 846 9287	1		2.67
21.	7/24	625PM	F	FROM	GLENDAL	AZ	602 931 1804			
				TO	GLENDALE	AZ	602 846 9287	1	DISCOUNTED	1.32
22.	7/27	1044AM	E	FROM	GLENDAL	AZ	602 934 6612			
				TO	GLENDALE	AZ	602 846 9287	3		2.95
23.	7/27	1047AM	E	FROM	GLENDAL	AZ	602 934 6612			
				TO	GLENDALE	AZ	602 878 7995	15		4.64
24.	7/27	244PM	E	FROM	GLENDAL	AZ	602 934 6612			
				TO	LITCHFLDPK	AZ	602 849 8115	1		2.67

Operator Assistance Network.

Billing Questions -- Call 509-747-6281 -- No Charge

DATE OF BILL SEP 01, 1989

OPERATOR ASSISTANCE NETWK DETAIL OF CURRENT CHARGES

LONG DISTANCE

	DATE	TIME	CLASS	TO FROM			NUMBER	MIN		NET CHARGE
CALLS BILLED TO CALLING CARD 489-7870										
1.	7/27	734PM	F	FROM	GLENDAL	AZ	602 934 6612			
				TO	GLENDALE	AZ	602 846 9287	4	DISCOUNTED	2.90
2.	7/27	739PM	F	FROM	GLENDAL	AZ	602 934 6612			
				TO	GLENDALE	AZ	602 878 7995	8	DISCOUNTED	3.29
3.	7/29	810AM	G	FROM	GLENDAL	AZ	602 934 6517			
				TO	NO PHOENIX	AZ	602 942 4611	2	DISCOUNTED	2.58
4.	8/03	314PM	E	FROM	GLENDAL	AZ	602 931 0848			
				TO	NO PHOENIX	AZ	602 992 4405	1		1.37

Class of Call Codes--
E - Station-Day-Full Rate
F - Station-Evening-Discounted
G - Station-Night-Discounted
N - Station-Dialed Calling Card

TAX AND SURCHARGE SUMMARY OPERATOR ASSISTANCE NETWK

The detail listed below has been included in the current charges on this bill. This summary is provided as information only.

	US TAX	SALES TAX
LONG DISTANCE	2.09	.78

This portion of your bill is provided as a service to OPERATOR ASSISTANCE NETWK. There is no connection between U S WEST Communications and OPERATOR ASSISTANCE NETWK.

T- 3.9

July 28, 1989

C. L. S.
1989

Ms. Donna Jackson
American Airlines
MD 782
P. O. Box 582809
Tulsa, OK 74158-2809

Dear Ms. Jackson:

This will confirm our telephone conversation of July 24th wherein I advised you that fraudulent charges were billed to Air Travel Card No. 1001 15231 018198 in the name of M. A. Miller. Apparently Mr. Miller lost his air travel card and did not realize his loss until he was billed with charges in amount of $5,841.60 (see attached statement).

I advised American Airlines on July 24th that Mr. Miller's card was lost or stolen.

In view of the fact that purchase of these airline tickets was made by an unauthorized person, please advise me if Asarco is responsible for these fraudulent charges.

Yours very truly,

Doris A. Reischach
Administrative Asst.

att.

bcc: B. Warshawsky-w/att.
Coy Snow - Tucson

1 - 2.7

ASARCO

New York Office
General Traffic Department

September 8, 1989

1 1989

Ms. Donna Jackson
American Airlines
MD 782
P.O. Box 582809
Tulsa, OK 74158-2809

Dear Ms. Jackson:

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I am attaching copies of Air Travel Statements dated August 22nd and September 6th, 1989 listing more unauthorized charges, which now total $9,894.59.

As requested in my letter of July 28th, please investigate this matter and advise if Asarco is responsible for these charges.

Yours very truly,

Doris A. Reischach
Administrative Asst.

bcc: B. Warshawsky
Coy Snow-Tucson

JDS

ASARCO

Southwestern Exploration Division

October 24, 1989

M.A. Miller
Tucson Office

Reporting Loss of
Credit Cards
Yarnell Project
Yavapai County, AZ

Please see me about signing a form/letter on the loss of your telephone and airline credit cards and the subsequent charges.

We will charge these losses to the Yarnell Project, EA-0444.

James D. Sell

JDS:mek

James D. Sell

cc: R.L. Brown
W.L. Kurtz
C.L. Snow

NORGOLD RESOURCES INC.

Plse fax to
WLKurts, Tucson
SLLakoski, Tucson

R. L. B.
27 1989

October 24, 1989

Mr. Q.W. Torpin
Assistant Vice President
- General Manager
The Atchinson, Topeka and
Santa Fe Railway Company
577 South Eastern Avenue
Los Angeles, California
90040

Dear Mr. Torpin:

Re: Your File #11014405-3
Yarnell, Arizona

This will respond to your letter of October 6, 1989. Recently we have entered into a Joint Venture arrangement ("Joint Venture") with respect to the Yarnell property with ASARCO Incorporated, a corporation with substantial mining and smelting operations in Arizona. I have agreed with ASARCO that I will complete the negotiations with respect to your microwave tower site at Yarnell, Arizona, but of course I now am required to secure ASARCO's approval of the terms of any agreements reached. Having consulted with ASARCO, I now confirm that we would like to enter into an agrreement with respect to the property (the "Property"), which we understand to be described as that portion of the Juniper lode mining claim, MS No. 1112, shown in Book 36 of Deeds, pages No. 229 - 232, Yavapai Country Records based on the following points:

1) the option would have a three year term.

2) ASARCO-Norgold Joint Venture would give The Atchinson, Topeka and Santa Fe Railway Company (the "Railway") a one year lead time notice.

3) The Joint Venture would pay all costs of the move of the microwave tower, now estimated to be $300,000. We understand this cost may escalate with inflation.

Rwk
copy JDSell
" Harnell file

entre, P.O. Box 12122, 555 W. Hastings Street, Vancouver, B.C. V6B-4N6

(604) 681-5566

4) The Joint Venture would pay to the Railway a production royalty on all ores extracted from within the boundaried of the property in the amount of 5% of net smelter return as defined.

5) The Joint Venture would pay to the Railway the entire estimated cost of moving the microtower site at the time the option to purchase is exercised.

Please prepare the agreement necessary to effect these terms.

Yours very truly,

Christopher Moat
Chairman

CM:sk

cc: R.L. Brown, V.P. Exploration
ASARCO

TELECOPIER COVER SHEET

PLEASE DELIVER THE FOLLOWING PAGES TO:

NAME: Messrs. W. L. Kurtz / T. D. Sell

LOCATION: Tucson

DEPARTMENT:

FROM: R. L. Brown

DEPARTMENT: NY

YOU WILL RECEIVE 2 PAGE/S OF COPY EXCLUDING THIS COVER SHEET.

IF YOU DO NOT RECEIVE ALL PAGES, PLEASE CALL BACK AS SOON AS POSSIBLE. TELEPHONE NO. 212-510-1978.

Letter to Moat

RECEIVED
OCT 24 1989
EXPLORATION DEPARTMENT

ASARCO

Exploration Department
R. L. Brown
Vice President

October 23, 1989

VIA TELECOPIER

RECEIVED
OCT 24 1989
EXPLORATION DEPARTMENT

Mr. Christopher Moat
President
Norgold Resources Inc.
2380 Harper Center
P.O. Box 12122
555 West Hastings Street
Vancouver, British Columbia
VB6 4N6

Dear Mr. Moat:

The following is our suggested draft response to Mr. Torpin of the Atchinson, Topeka and Santa Fe Railway Company.

Mr. Q. W. Torpin,
Assistant Vice President
-General Manager
The Atchinson, Topeka and
Santa Fe Railway Company
577 South Eastern Avenue
Los Angeles, California 90040

Your File #11014405-3
Yarnell, Arizona

Dear Mr. Torpin:

This will respond to your letter of October 6, 1989. During the past months we have entered a joint venture, the "Joint Venture", arrangement with respect to the Yarnell property with ASARCO Incorporated, a corporation with substantial mining and smelting operations in Arizona. I have agreed with Asarco that I will complete the negotiation with respect to your microwave tower site at Yarnell, Arizona, but of course I now am required to secure Asarco's approval of the terms of any agreements reached. Having consulted with Asarco I now confirm that we would like to enter into an agreement in respect of the property ("The Property"), which we understand to be described as that

portion of the Juniper lode mining claim, MS No. 1112, shown in Book 36 of Deeds, Pages No. 229-232, Yavapai County Records based on the following points:

1) The option would have a three-year term.

2) The Asarco-Norgold joint venture would give The Atchinson, Topeka and Santa Fe Railway Company "The Railway" a one-year lead time notice.

3) The joint venture would pay all costs of the move of the microwave tower, now estimated to be $300,000. We understand this cost may escalate with inflation.

4) The joint venture would pay to The Railway a production royalty on all ores extracted from within the boundaries of the property in the amount of 5% of net smelter return as defined.

5) The joint venture would pay to The Railway the entire estimated cost of moving the microtower site at the time the option to purchase is exercised. Please prepare the agreement necessary to effect these terms.

Yours very truly,

Christopher Moat

Yours very truly,

R. L. Brown

R. L. Brown

RLB:mc

cc: B. D. Edgar, Esq.

JDS

ASARCO

Exploration Department
Southwestern United States Division

James D. Sell
Manager

CERTIFIED MAIL
RETURN RECEIPT

October 24, 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 November 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,

ORIGINAL SIGNED BY
J. D. SELL

JDS:mek

James D. Sell

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. 10-212 DATE Oct 1989

ASARCO INCORPORATED
TUCSON OFFICE
TUCSON, ARIZONA 85703

Monthly payment due Nov. 1, 1989 $1,000.00

DETACH BEFORE PRESENTING FOR PAYMENT

ASARCO

ASARCO INCORPORATED
TUCSON OFFICE
TUCSON, ARIZONA 85703

91-2/1221

No. 0032079

DOWNTOWN OFFICE
THE VALLEY NATIONAL BANK
TUCSON, ARIZONA

October 24, 1989
$1,000.00

PAY

The sum of $1,000 and 00 cts

TO ORDER OF

ASARCO INCORPORATED
TUCSON OFFICE

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

C L Snow

S A Myers

⑈032079⑈ ⑆122100024⑆ 2000⑈0673⑈

ASARCO

Southwestern Exploration Division

October 24, 1989

JDSell – This to be done from diamond drill cuttings? I hope

D.E. Crowell
Tucson Office

Low-grade Leach Column
Yarnell Project
Yavapai County, AZ

No, this is a short test but will be indicative, dis told, of a larger column. Don. I agreed that the info was needed so as he be cranked into operating costs.

Within the SWED budget of the Yarnell Project are funds to complete the Leach Column tests by including a low-grade column.

As you have mentioned, and I agree, the knowledge of the recovery of the low-grade (0.01-0.03) overlying the main zone, will change the operating charges considerably and thus the results need to be in-hand for further considerations.

James D. Sell

JDS:mek

James D. Sell

I would think that the col should be used to fine-tune the ultimate size-range-reagents.

JDS

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

ASARCO Southwestern Exploration Division JDS

October 24, 1989

D.E. Crowell
Tucson Office

Low-grade Leach Column
Yarnell Project
Yavapai County, AZ

Within the SWED budget of the Yarnell Project are funds to complete the Leach Column tests by including a low-grade column.

As you have mentioned, and I agree, the knowledge of the recovery of the low-grade (0.01-0.03) overlying the main zone, will change the operating charges considerably and thus the results need to be in-hand for further considerations.

James D. Sell

JDS:mek

James D. Sell

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

JDS

ASARCO

Exploration Department
Southwestern United States Division

James D. Sell
Manager

October 24, 1989

Mr. Jerry L. Haggard
Apker, Apker, Haggard & Kurtz, P.C.
2111 East Highland Avenue, Suite 230
Phoenix, AZ 85016

Santa Fe Sections
Yarnell Project
Yavapai County, AZ

Dear Jerry:

Attached are copies of my additions of cross-sections 8 thru 12 from the computer printouts, as you requested after visiting the Yarnell open-cut and reviewing the Santa Fe position on Monday, October 23.

I appreciate showing you and Mr. Bert Apker the points of interest.

Sincerely,

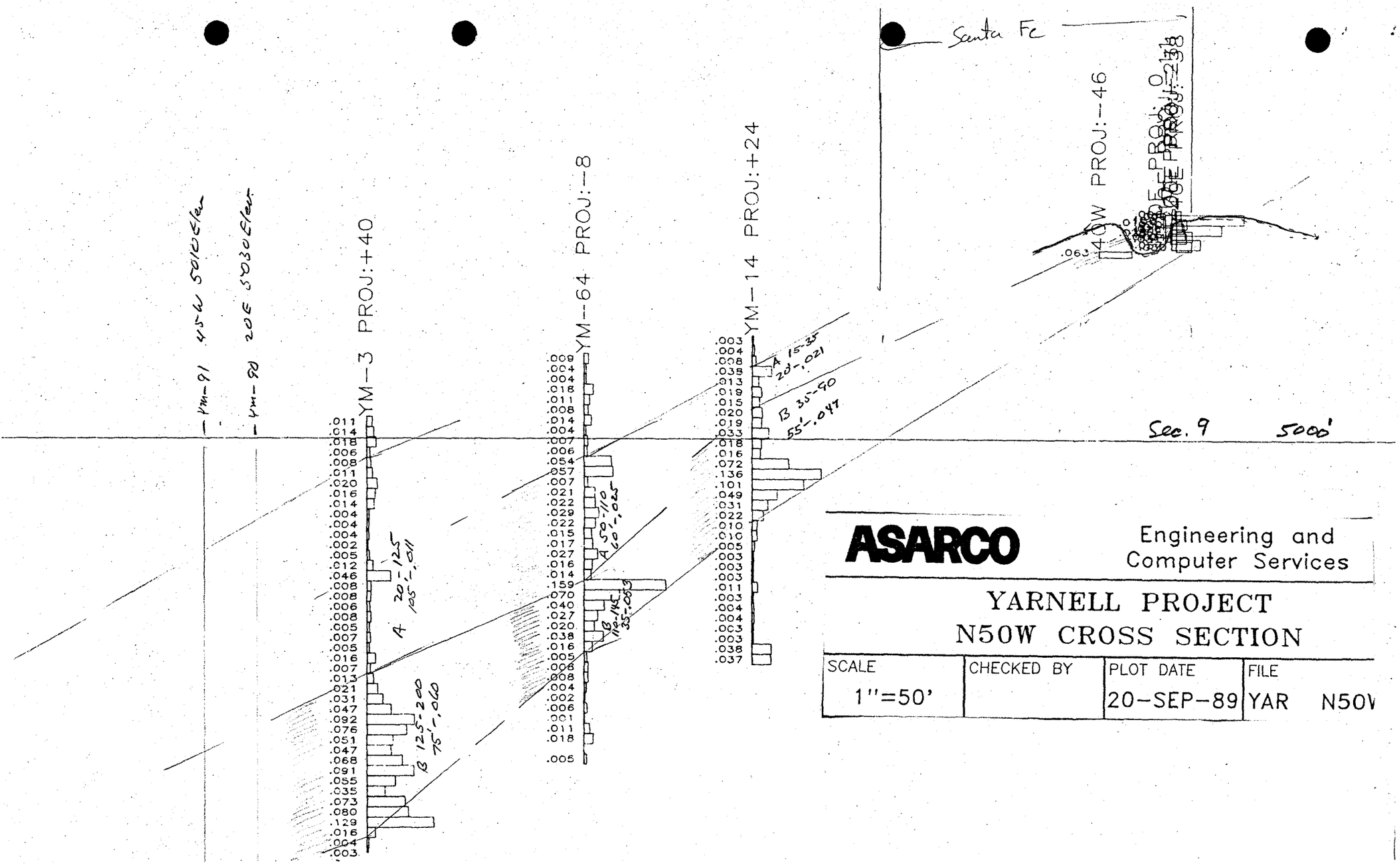
James D. Sell

James D. Sell

JDS:mek
Atts.

cc: R.L. Brown
W.L. Kurtz

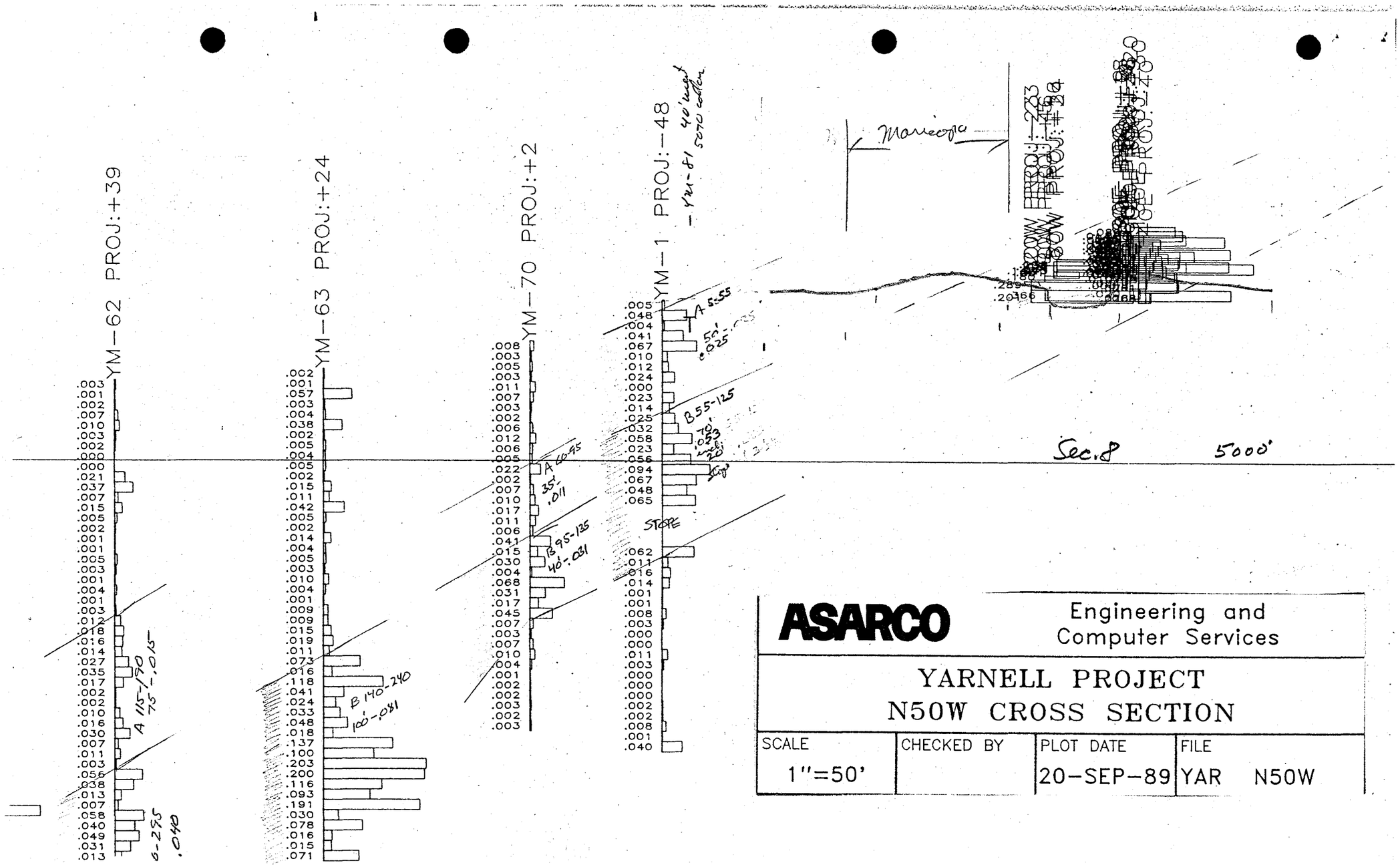
ASARCO Incorporated P. O. Box 5747 Tucson, Az 85703-0747
1150 North 7th Avenue (602) 792-3010



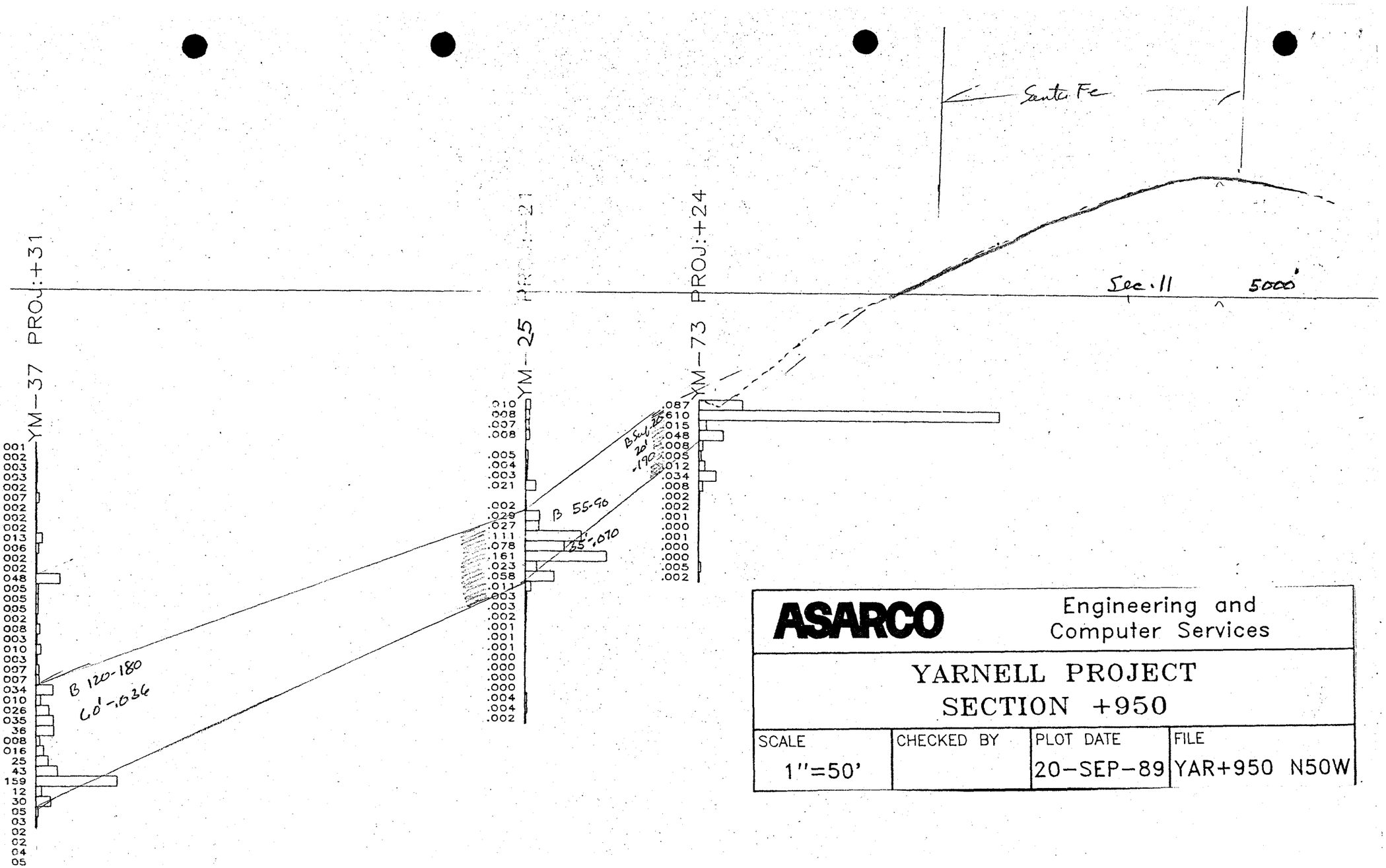
ASARCO Engineering and Computer Services

YARNELL PROJECT
N50W CROSS SECTION

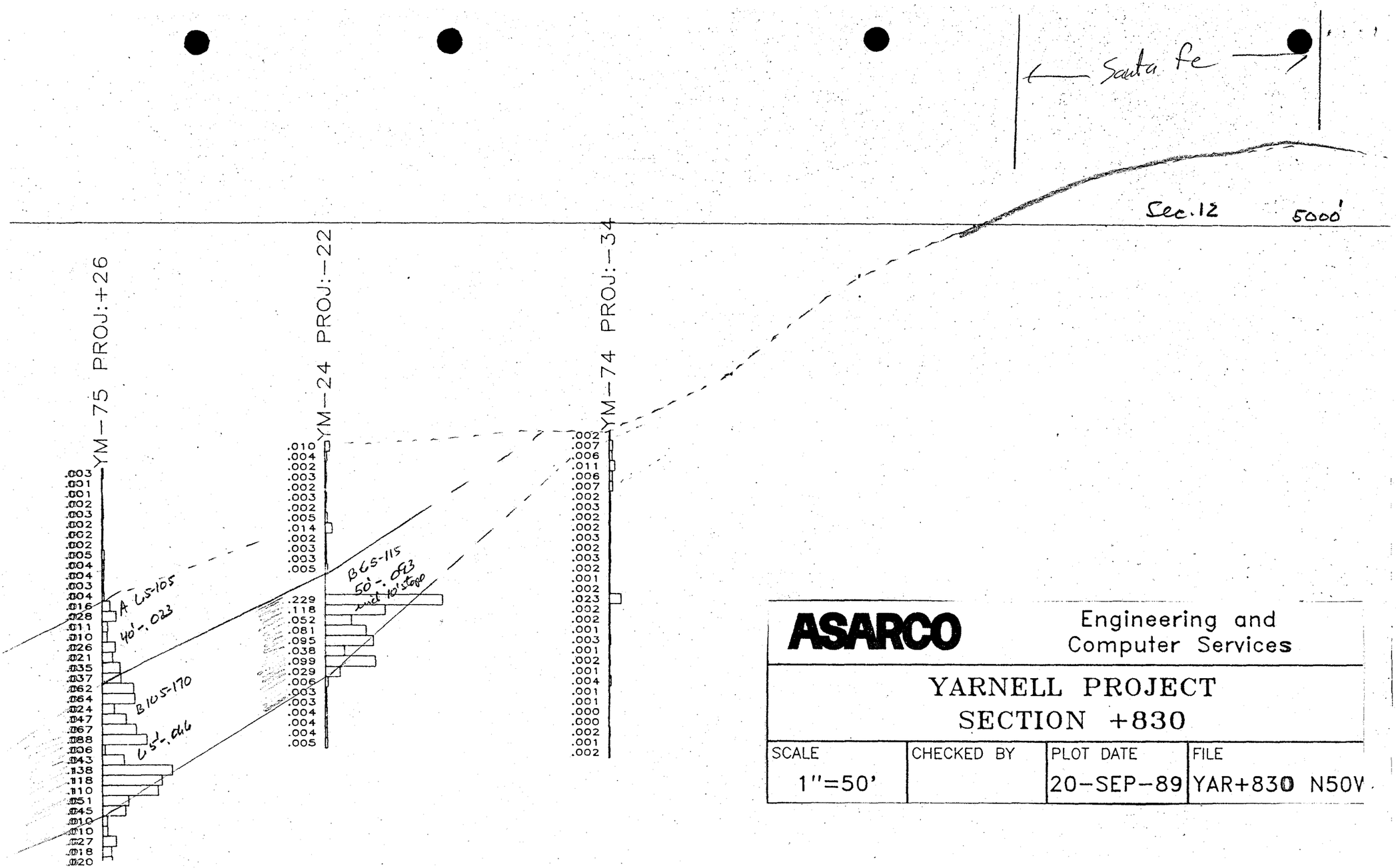
SCALE	CHECKED BY	PLOT DATE	FILE
1"=50'		20-SEP-89	YAR N50W



ASARCO	Engineering and Computer Services		
YARNELL PROJECT N50W CROSS SECTION			
SCALE 1"=50'	CHECKED BY	PLOT DATE 20-SEP-89	FILE YAR N50W



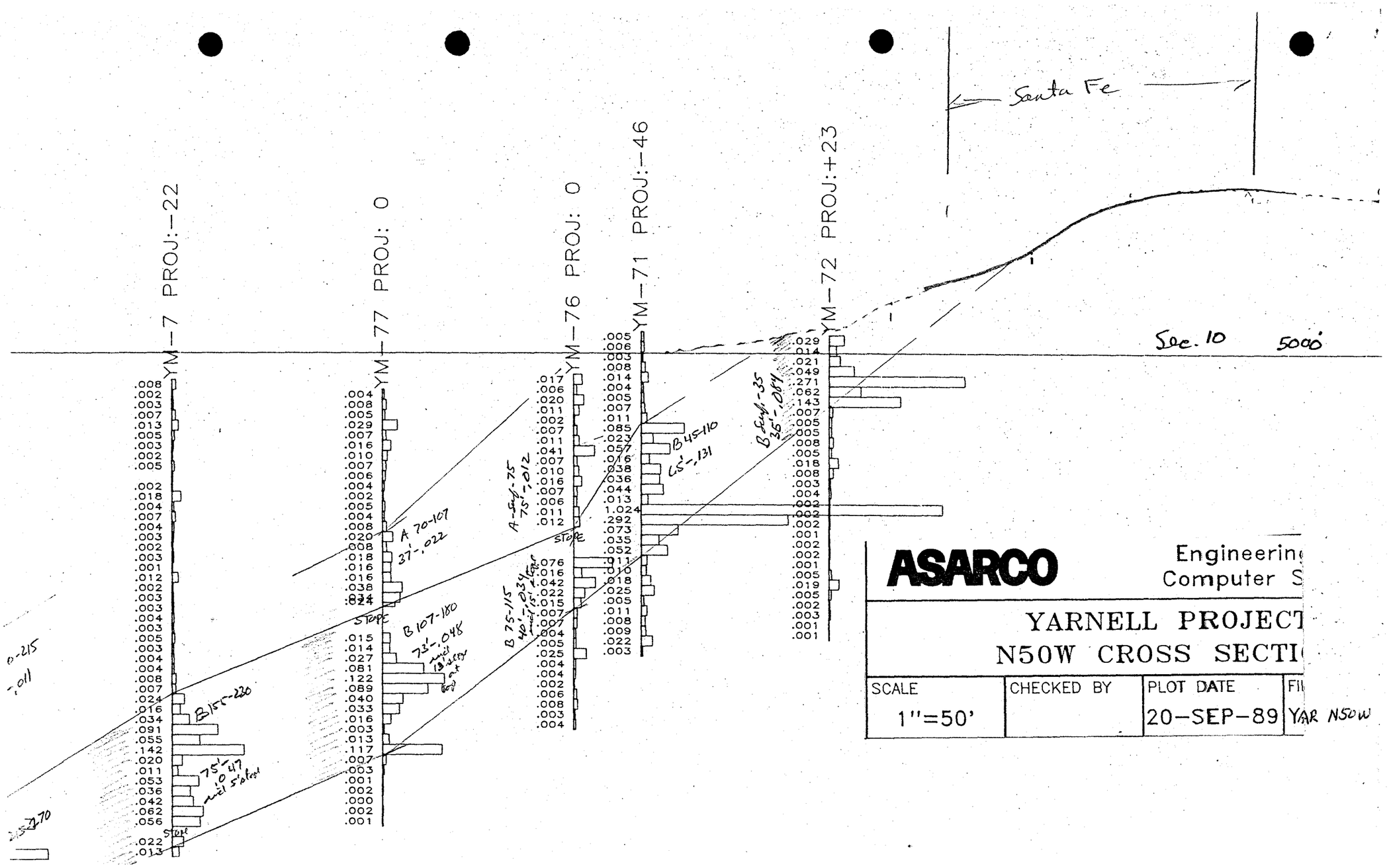
ASARCO	Engineering and Computer Services		
YARNELL PROJECT SECTION +950			
SCALE 1"=50'	CHECKED BY	PLOT DATE 20-SEP-89	FILE YAR+950 N50W



ASARCO Engineering and Computer Services

YARNELL PROJECT
SECTION +830

SCALE	CHECKED BY	PLOT DATE	FILE
1"=50'		20-SEP-89	YAR+830 N50V


YM-7 PROJ:-22
YM-77 PROJ: 0
YM-76 PROJ: 0
YM-71 PROJ:-46
YM-72 PROJ:+23
Santa Fe
Sec. 10
5000'
A 70-107
37'-.022
B 107-180
73'-.048
B 75-115
40'-.034
A-Surf.-75
75'-.012
B 45-110
65'-.131
B Surf.-35
35'-.041
B 15'-230
75'-.047
STOPE
ASARCO
Engineering
Computer S
YARNELL PROJECT
N50W CROSS SECTI
SCALE
1"=50'
CHECKED BY
PLOT DATE
20-SEP-89
YAR N50W

10-23-89

WLK - Geol file
Sections
Jerry Haggard
table mine up
to Yarnell - On
Extra Labels Right
Get map
all claim map
Send - drill
holes.

Take a look at LOW of
Well have questions.
1. Yellow line on map.
alteration
2. Drill Hole Log
indicate one/part
3. Top of zone
4. Tim - next week

Monday afternoon 1 AM.
2111 E Highland Ave
Square Deal Freeway North
past Indian School Exit
to end of freeway
is Highland
East, right, two blocks east
Brookwood Restaurant. Park ONE
Visitors lot right
Room 230

done

Juniper
Edward
Edsy
Tuesday

ASARCO

Exploration Department
Southwestern United States Division

CERTIFIED MAIL
RETURN RECEIPT

October 25, 1989

Bureau of Land Management
Arizona State Office
P.O. Box 16563
Phoenix, AZ 85011

Filing of Mining Claim
Notice of Location
Yarnell Project
Weaver Mining District
Yavapai County, Arizona

Gentlemen:

In accordance with Section 314 of the Federal Land Policy and Management Act of 1976 (43 U.S.C., Sec. 1744), and the regulations thereto, enclosed for filing in your office is a copy of the official record of the Notice of Location with map for the following lode claim in the Weaver Mining District, Yavapai County, Arizona

Name of Claim	Date of Location	Recorded in the Official Records of Yavapai County		
		Book	Page	Instrument No.
YAR-43	9/30/89	2189	128	8937123

A check for $10 is enclosed as your filing fee. Please send receipt and accounting advise in the enclosed envelope.

Very truly yours,

William D. Gay
William D. Gay
Land Engineer, SWED

WDG:mek
encs.

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

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

INSTRUMENT # 8937123
OFFICIAL RECORDS OF
YAVAPAI COUNTY
PATSY C. JENNEY
REQUEST OF:
ASARCO
DATE: 10/05/89 TIME: 11:30
FEE: 5.00
BOOK 2189 PAGE 128 PAGES: 001

INDEXED & MICROFILMED

$ 5	1	P	✓ Co	5	St
Bk		Map		Pcl	

NOTICE OF LOCATION
(Lode Claim)

Notice is hereby given that ASARCO Incorporated, whose mailing address is P. O. Box 5747, Tucson, Arizona 85703, by its undersigned agent, makes this location of the YAR-43 lode mining claim, in the WEAVER Mining District, County of YAVAPAI, State of Arizona.

The claim is ~~1320~~ 1495 feet in length along the vein or deposit of mineral bearing rock in place and ~~600~~ 50 feet in width (~~300~~ 25 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 approximately N 51° 30' E 3135 feet, ~~thence~~ ~~feet~~ from the SW corner of Section 14, Township 10 N., Range 5 W., GSRB&M, Arizona and said claim lies within the SW1/4, Sec. 14, T 10 N, R 5 W GSRB&M.

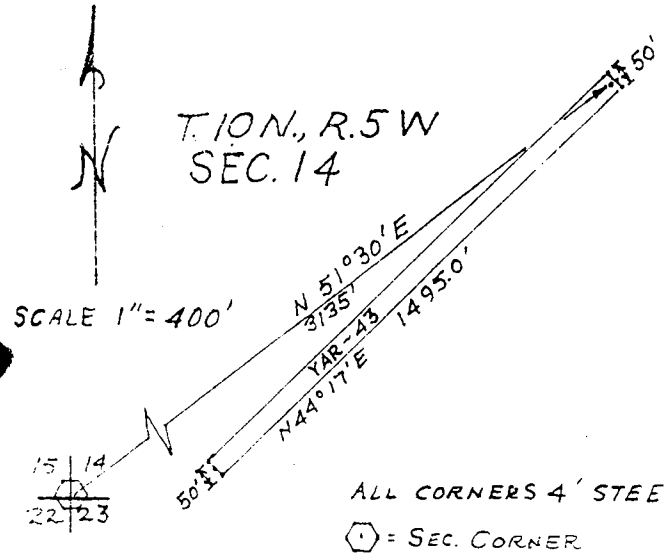
The surface boundaries of the claim are described as follows: Beginning at the location monument and running thence N44°17'E 5' to the center of the end line and the true point of beginning thence (clockwise) S45°43'E 25' to corner 1, thence S44°17'W 1495 to corner 2, thence N45°43'W 25' to center end line, thence N45°43'W 25' to corner 3, thence N44°17'E 1495 to corner 4, thence S45°43'E 25' 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 30 day of SEPTEMBER, 1989.

ASARCO Incorporated

By W. H. Gay
Agent



BOOK 2189 PAGE 128

ALL CORNERS 4' STEEL POSTS

⊙ = SEC. CORNER

10/28
"Philpot told to eliminate reference to State Leases and to eliminate reference to yarnell community 'favorable to mining'." WLK 10/28

NORGOLD RESOURCES INC

Canadian Gravity Recovery Inc.

#920 - 625 Howe Street
Vancouver, B.C., Canada, V6C-2T6
Fax:(604)685-8045 Phone:(604)685-8730

Sent to RLB 10-26. On 10/27 he called to say that he also objected to the use of ASARCO applying for State Leases. He'll call Philpot. Mark.

FACSIMILE TRANSMISSION

To: Bill Kurtz / ASARCO

ATTN: c/o Jim Sell

FROM: Michael Philpot per Chris Mont

DATE: October 25, 1989

IF YOU DO NOT RECEIVE ALL 4 PAGES (INCLUDING COVER PAGE)
PLEASE FAX: (604) 685-8045
OR PHONE: (604) 685-8730.
THANK-YOU.

****

MESSAGE: As per your telephone with Mr. Mont I am forwarding this write-up for your perusal.

the mining record

To: Mr. Michael Philpot

From: Don E. Howell

Pages Transmitted: three Including this cover sheet

Date: October 25, 1989

Fax Number: 604-685-8045

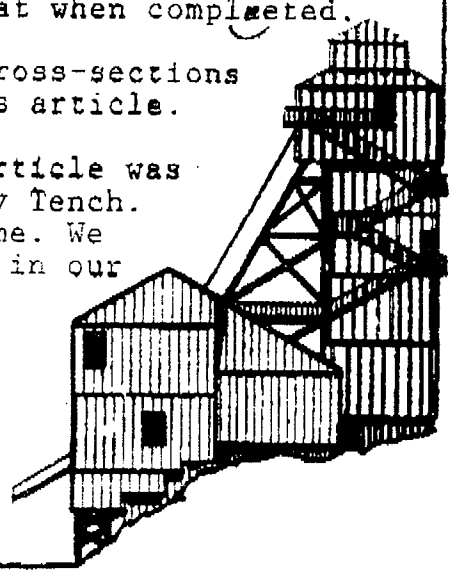
Message/Description:

per Tench Page, please approve and clear with ASARCO by Thursday, October 26th. Advise C. Moat when completed.

Also, are recent cross-sections available from this article.

Note: All information contained in article was taken from material supplied by Tench. Any questions, please contact me. We are rushing this for insertion in our World Gold convention issue.

Sincerely,



5350 S. Roslyn Street
Suite 390 - Greenwood Plaza

Telephone 303-770-6791
FAX 303-770-6796

P.O. Box 37510
Denver, CO 80237-0510

1-702-8-51-3177

YARNELL, AZ- In less than a year, Norgold Resources and its joint venture partner, ASARCO, have fast tracked the Yarnell property from an undrilled past gold producer to a well defined gold bulk tonnage deposit. The Yarnell Mine is locate 1 1/2 miles south of Yarnell, Yavapai County, Arizona. Yarnell is 72 miles northwest of Phoenix and 16 miles northeast of Wickenburg.

Norgold entered into a joint venture agreement with ASARCO Incorporated in January, 1989; ~~w~~ ~~by~~ ASARCO has the right to earn 51% of the project and will be the operator under a joint management committee.

By May 1989, ASARCO had conducted 3030 feet of reverse circulation dirlling which confirmed the presence of a bulk tonnage gold deposit. The low grade mineralization is part of an alteration zone associated with the principal Yarnell fault system which was partially mined in the early 1900's and 1940's.

Phase II and III reverse circulation drilling with excess of 20,000 feet and eighty holes have now delineated ~~probable~~ reserves (all categories) as interpreted by Norgold's independent consultant, of 8.4 mm tons grading .042 oz/ton Au (34g, conv. oz) The favorable surface topography and low angle of the Yarnell fault will maximize the overall stripping ratio at approximately ~~3:1~~ 2:1

Reserves will be upgraded once sufficient diamond drilling has been completed and analyzed. Norgold reported that there is excellent potential to expand reserves along strike in both directions.

Preliminary metallurgical studies indicate the ore is amenable to heap leaching extraction techniques with low to moderate cyanide and lime consumption.

Preliminary bottle roll leach tests for 24 and 72 hours leach time were conducted on three selected interval samples. The leach test results indicated that a 70 to 80 percent gold recovery was achieved in these samples and that cyanide and lime consumptions averaged approximately 0.4 and 4 pounds per ton, respectively.

Currently detailed bench studies are being conducted to determine the optimum crushing size versus recovery of gold that amenable to heap leach extraction.

~~To maximize gold recovery from the high grade ore, a fine grind followed by gravity separation; then either vat leaching or agglomeration/heap leaching will be required.~~

The property is logistically well located to all the amenities in a small community that is ~~not adverse to mining~~ mining oriented. There is sufficient room to set up the infrastructure to support a moderate heap leach operation with less than one half mile haulage distance.

Norgold reported that the primary group of 4 patented and 7 unpatented mineral claims are subject to an option to purchase agreement. The comapny has also entered into an agreement with other minor land holders within the area to consolidate it's land psoition. Norgold stated that the cost to purchase these properties is insignificant compared to the core property. Norgold and ASARCO have also staked additional mining claims on BLM land and applied for several state mineral ~~loans~~ leases, consolidating a land package of 1,000 plus acres.

A Norgold official said that management is encouraged about the Yarnell Projects future and is anticipating a psoitive feasibility study in ~~early~~ 1990.

Norgold Resources U.S. Operations office is located at 13935 Chamy Drive, Reno, Nevada 89511 702-851-3177 while the corporate offices is located at 210 - 475 Howe Street, Vancouver, B.C V6C 2B3 604-681-5566

1-702-S-51-31

YARNELL, AZ- In less than a year, Norgold Resources and its joint venture partner, ASARCO, have fast tracked the Yarnell property from an undrilled past gold producer to a well defined gold bulk tonnage deposit. The Yarnell Mine is locate 1 1/2 miles south of Yarnell, Yavapai County, Arizona. Yarnell is 72 miles northwest of Phoenix and 16 miles northeast of Wickenburg.

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Reserves will be ~~upgraded~~ adjusted SDS once sufficient diamond drilling has been completed and ~~analyzed. Norgold reported that there is excellent potential to expand reserves along strike in both directions.~~ mining/leach systems integrated. SDS

Preliminary metallurgical studies indicate the ore is amenable to heap leaching extraction techniques with low to moderate cyanide and lime consumption.

~~Preliminary bottle roll leach tests for 24 and 72 hours leach time were conducted on three selected interval samples. The leach test results indicated that a 70 to 80 percent gold recovery was achieved in these samples and that cyanide and lime consumptions averaged approximately 0.4 and 4 pounds per ton, respectively.~~ JDS

Currently detailed bench studies are being conducted to determine the optimum crushing size versus recovery of gold that amenable to heap leach extraction.

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The property is logistically well located to all the amenities in a small community that is ~~not adverse to mining~~ mining oriented. There is sufficient room to set up the infrastructure to support a moderate heap leach operation with less than one half mile haulage distance.

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ASARCO

Exploration Department
Southwestern United States Division

Certified Mail
Return Receipt

October 25, 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
Alvin J., et al Claims (4)
A MC 33458 thru 33460 and
A MC 134462

Dear Sir:

In accordance with the Federal Land Policy and Management Act (43 CFR, Part 3833.2), enclosed is an exact reproduction of the Affidavit of assessment work with mining claim serial numbers, as recorded in the Yavapai County Recorder's office in Book 2189, Pages 129 and 130, Instrument #8937124 for the assessment year ending September 1, 1989.

Also enclosed is Asarco's check for $20 in payment of service charge of $5 for each claim (4 claims).

Please return acknowledgment in the enclosed, stamped envelope.

Very truly yours,

William D. Gay

William D. Gay
Land Engineer, SWED

WDG:mek
encs.

cc: R.L. Brown (w/enc.)
W.A. Bennis (w/enc.)
J.D. Sell (w/enc.)
C.L. Snow (w/o enc.)
A.J. Roman - Western Bldg. & Mining Co. (w/enc.)

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

INDEXED &
MICROFILMED

INSTRUMENT # 8937124
OFFICIAL RECORDS OF
YAVAPAI COUNTY
PATSY C. JENNEY
REQUEST OF:
ASARCO
DATE: 10/05/89 TIME: 11:30
FEE: 5.00
BOOK 2189 PAGE 129 PAGES: 002

AFFIDAVIT OF LABOR PERFORMED AND IMPROVEMENTS MADE

$ 5 | 1 P | 4 Co | 5 St
Bk | Map | Pcl

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.
Alvin J.	991	223	AMC 33458
Amended	996	261	
Kathryn A	991	419	AMC 33459
Amended	996	263	
Kathryn B	991	421	AMC 33460
Pennsylvania No.1	1392	661	AMC 134462

Located in Sections 14 and 15, T10N, R5W.

That all of said mining claims are owned by Alvin Roman, Kathryn Gooding 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 $400.00 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 Chruch 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 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 3d 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.

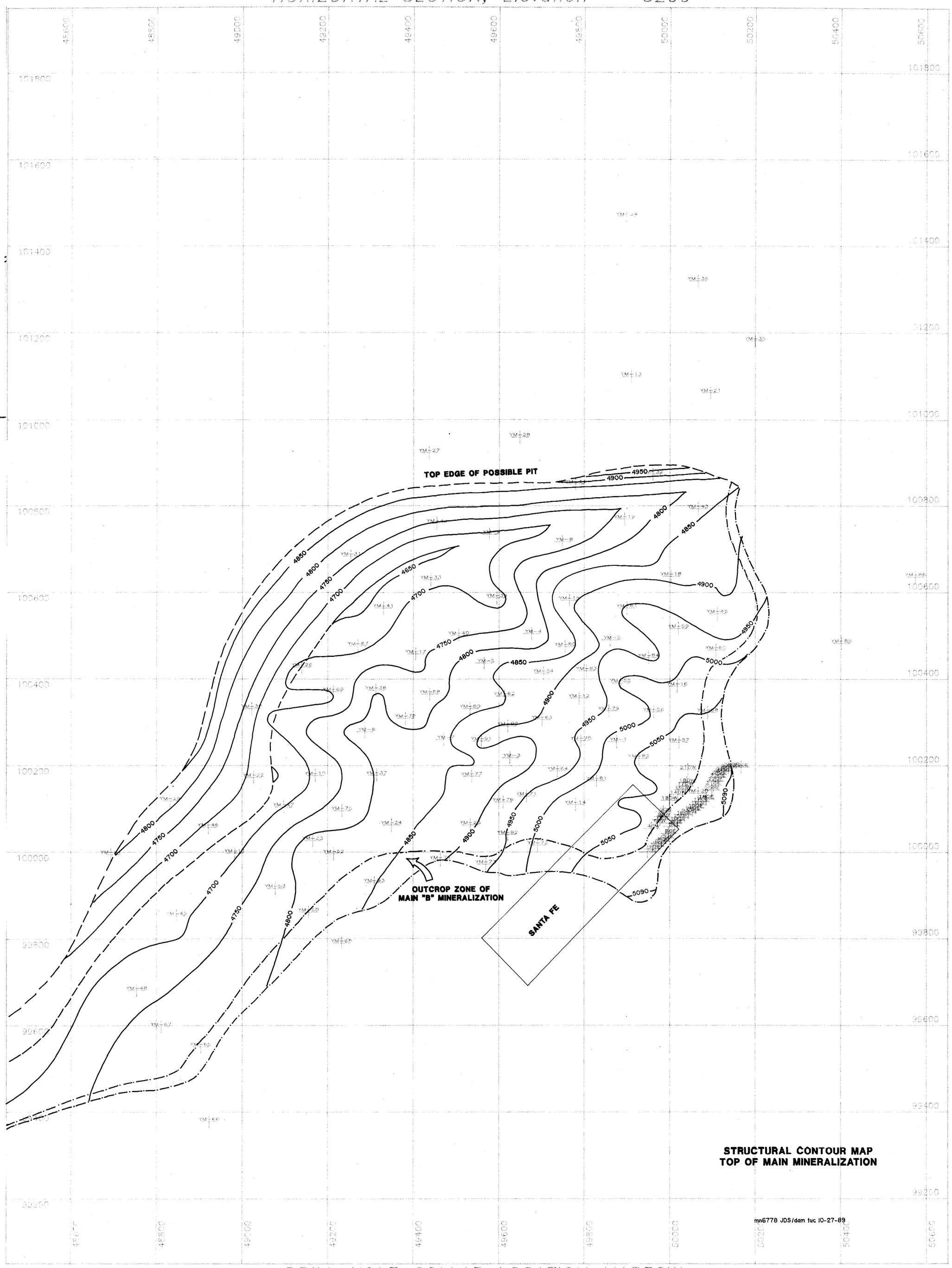
SEAL

Kathleen Harrington
Notary Public

My Commission Expires:
My Commission Expires July 6, 1992

BOOK 2189 PAGE 130

HORIZONTAL SECTION, Elevation 5200



STRUCTURAL CONTOUR MAP
TOP OF MAIN MINERALIZATION

mn6778 JDS/dam tuc 10-27-89

ASARCO Engineering and Computer Services

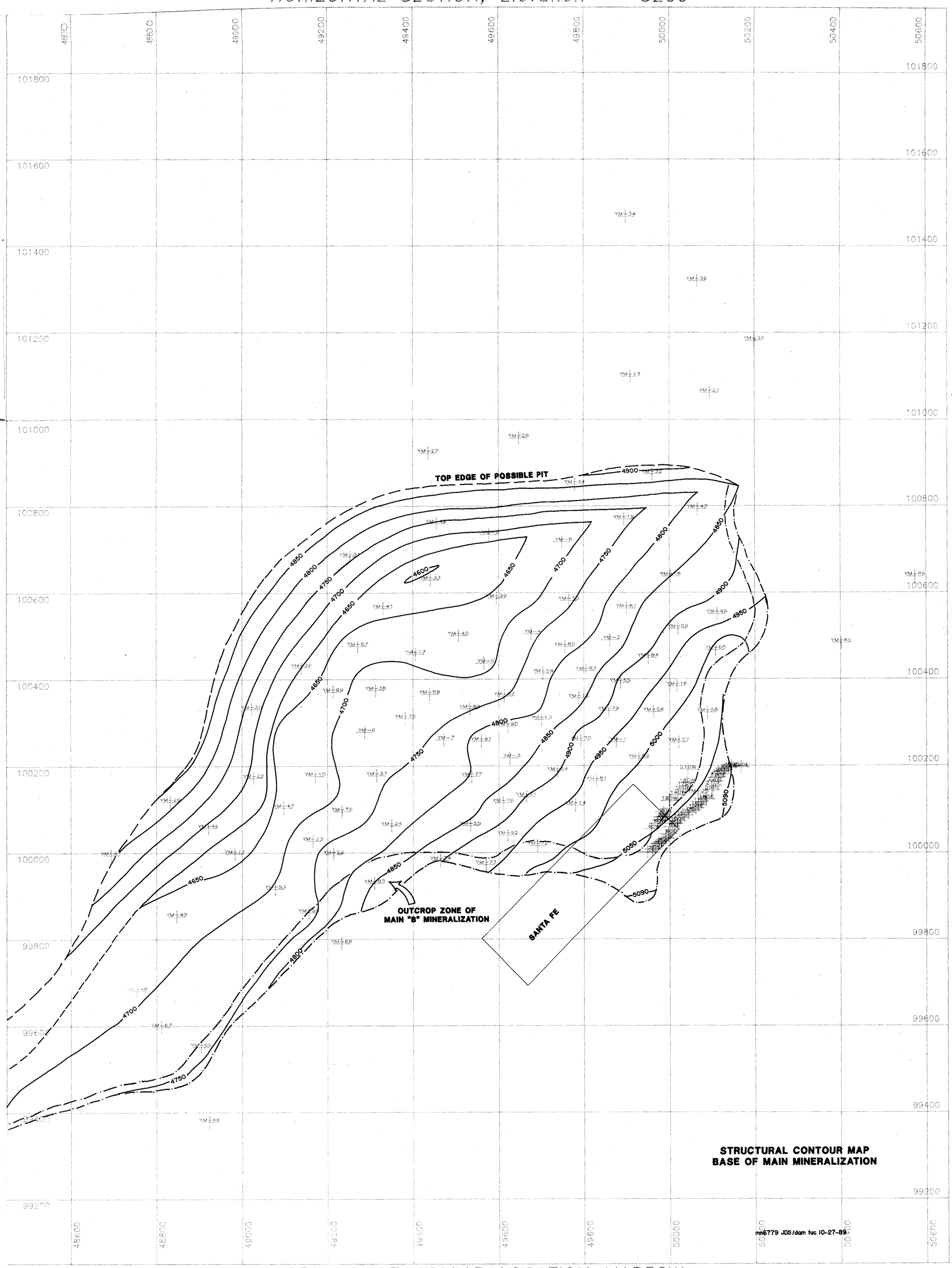
YARNELL PROJECT
COLLAR LOCATION MAP

SCALE (w/Ext)	CHECKED BY	PLOT DATE	FILE
1:100.00		25-OCT-89	YARN-COLLAR

DRILL HOLE COLLAR LOCATION MAP50W

Top 1B

HORIZONTAL SECTION, Elevation 5200



DRILL HOLE COLLAR LOCATION MAP50W

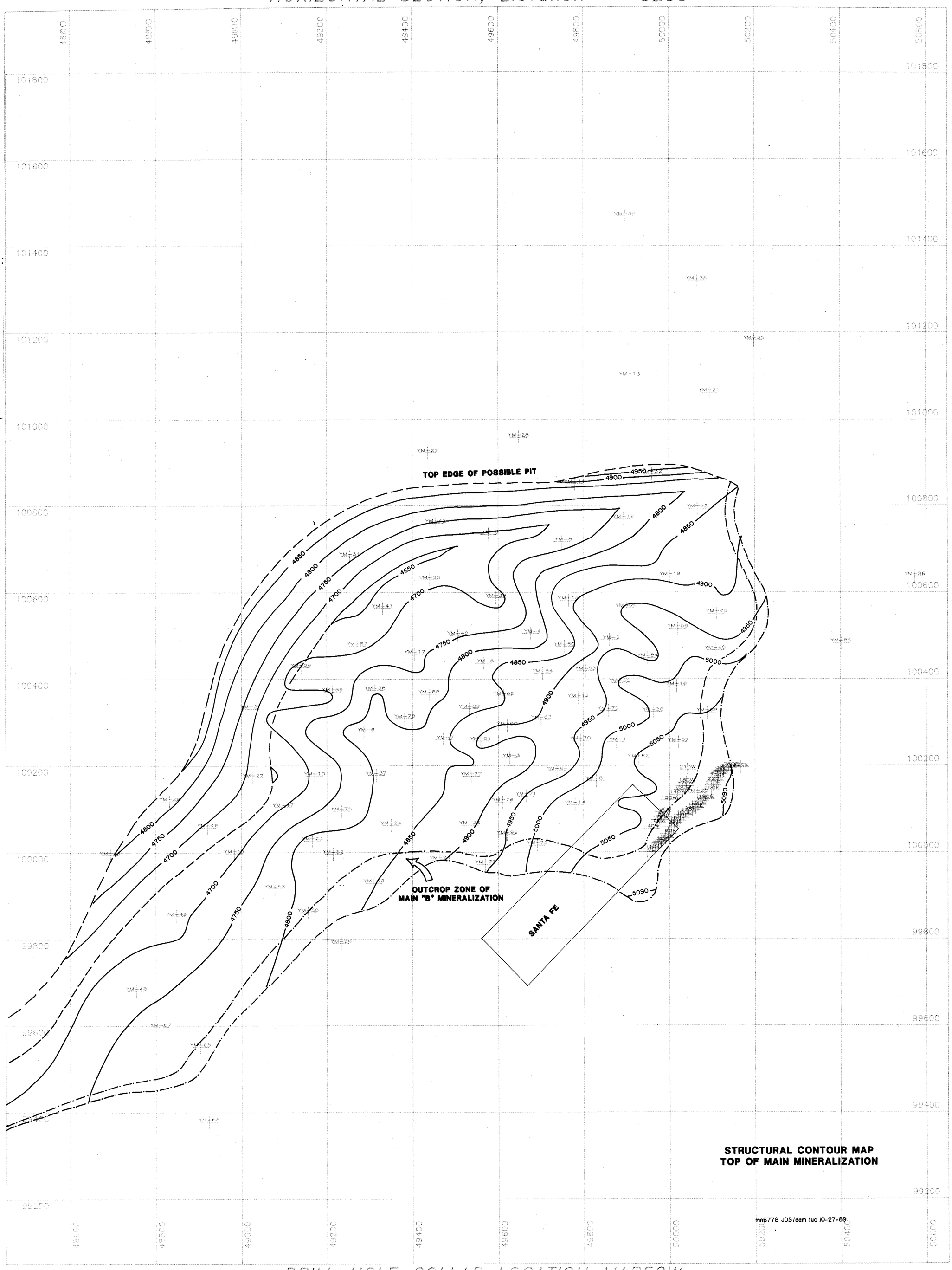
ASARCO Engineering and Computer Services

YARNELL PROJECT
COLLAR LOCATION MAP

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

Base of B

HORIZONTAL SECTION, Elevation 5200



DRILL HOLE COLLAR LOCATION MAP50W

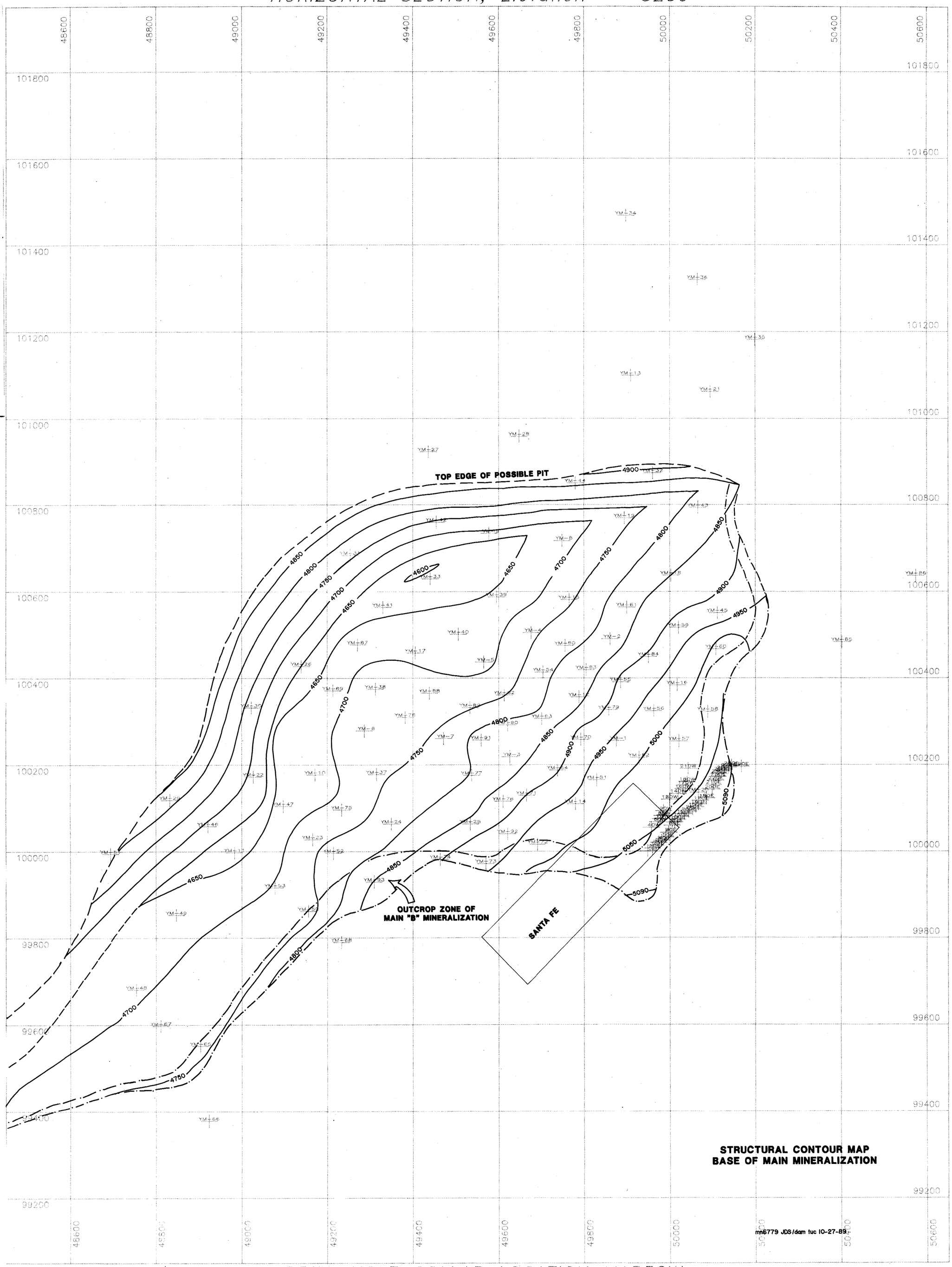
ASARCO Engineering and Computer Services

YARNELL PROJECT
COLLAR LOCATION MAP

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

Top of B

HORIZONTAL SECTION, Elevation 5200

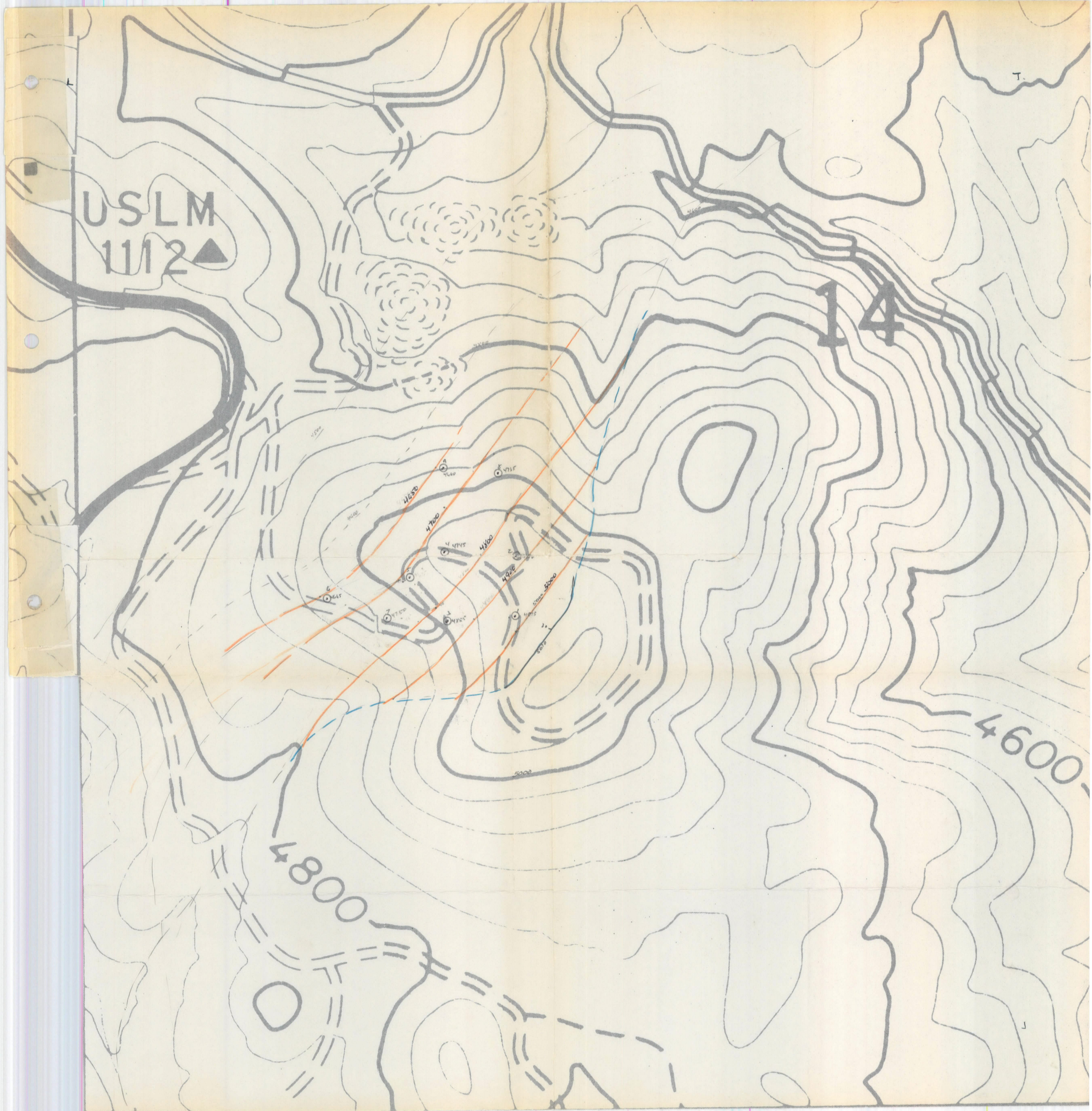


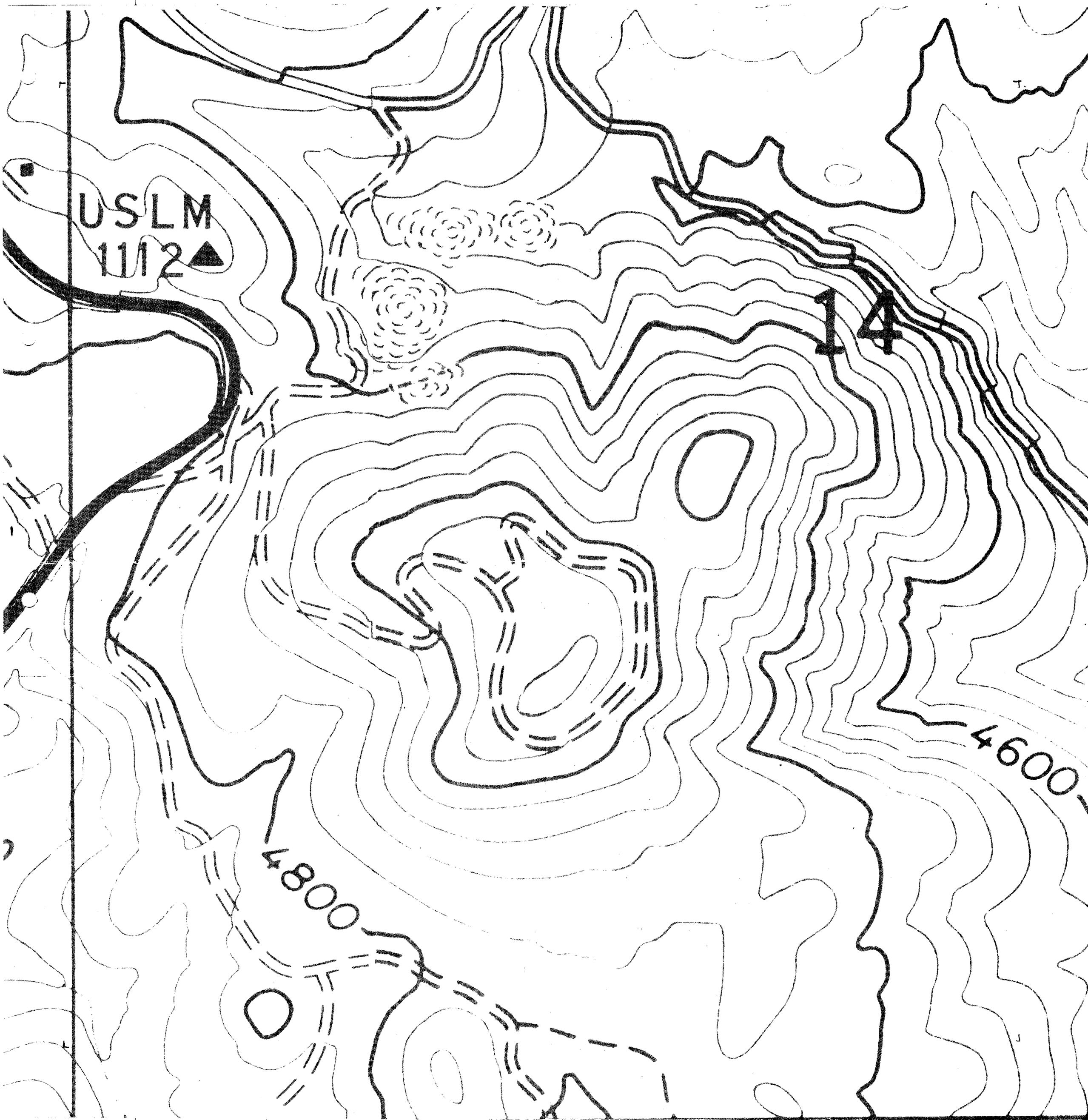
mn6779 JDS/dam tuc 10-27-89

ASARCO Engineering and Computer Services			
YARNELL PROJECT COLLAR LOCATION MAP			
SCALE In/Feet 1:100.00	CHECKED BY	PLOT DATE 25-OCT-89	FILE YARN-COLLAR

DRILL HOLE COLLAR LOCATION MAP50W

Base of "B"


USLM
1112
14
4600
4800
4700
4650
4745
4735
4660
4665
4750
4755
4775
4900
5000
5010


USLM
1112
14
4600
4800

ASARCO

Southwestern Exploration Division

JDS

October 31, 1989

FILE MEMORANDUM

Tons Ore Removed from
Main Zone Mineralization (Est.)
Yarnell Project
Yavapai County, Arizona

A consensus of opinion is that an estimated 250,000 tons of 0.051 opt gold has been removed from the main zone mineralization by previous underground and open-cut mining methods.

This memo is compiled from surveying and observations by W.D. Gay, M.A. Miller, and J.D. Sell and is an estimated consensus.

Attachment A shows the drill pattern in the area of the workings. A circled figure, 20, indicates the estimated thickness of open working intercepted by the drill hole. Note that all holes did not hit open workings within the estimated stoped outline and these are assumed (and known in some cases) to have drilled through the zone in the pillar support areas.

A faint underlay of the areas is the surveyed workings showing some of the pillars, the workings and the caved faces where no further observations can be secured. Also used was a copy of a worn map dated June 1953, showing the workings at that time.

The final estimated outline is based on the above information.

Using the estimated outline, the plan square footage of the area was calculated by three methods:

1. 181,000 ft^2, by WDG using planimeter around outline as shown on Attachment A.
2. 190,000 ft^2, by JDS using a 10' grid square evaluation of a modified (line straightening) outline of the Attachment.
3. 189,510 ft^2, by WDG using planimeter around outline of modified area (2).

An average height of the workings is 24 feet based on the drill hole open working intercept.

Open height in most of the workings traversed suggests 8-10 feet in open height with 1-2 feet of muck on the floor in the southern third of the sketch (Attachment A), and more (20-25 feet) in the central and northern part of the sketch.

It is estimated that 25% of the area within the estimated outline of stoped area is occupied by pillars.

A tonnage factor is 12 ft^3/ton is estimated.

Using the planimetered original outline of 181,000 ft^2 by 24 ft high, 12 ft^3/ton factor and 25% pillars, the tonnage calculated is 271,500 tons. Using a more realistic average height of 18 feet, the tonnage is 204,000 tons.

As stated, the average grade of this tonnage is 0.051 ounces per ton gold based on the values in the blocks within the estimated area as calculated by J.D. Sell.

M.A. Miller and S.L. Lakosky estimated between 200,000 and 300,000 tons of mill tailings were present in outline from the past operations.

Any number of games can be played with the actual (supposed) outline, the average height, and the amount of pillars remaining, but the above configuration and calculations are the present consensus.

James D. Sell

JDS/MAM/WDG:mek
Att.

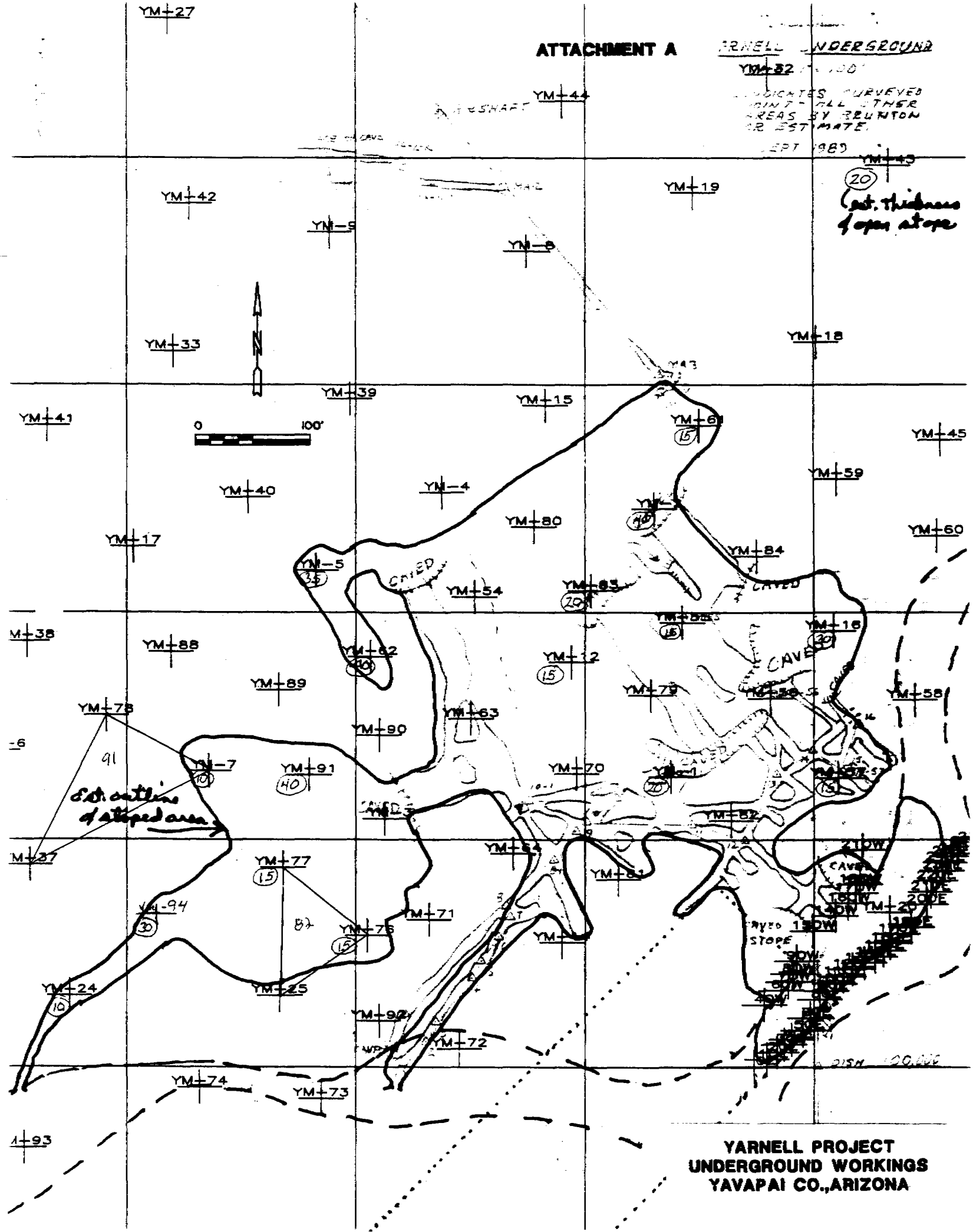
James D. Sell

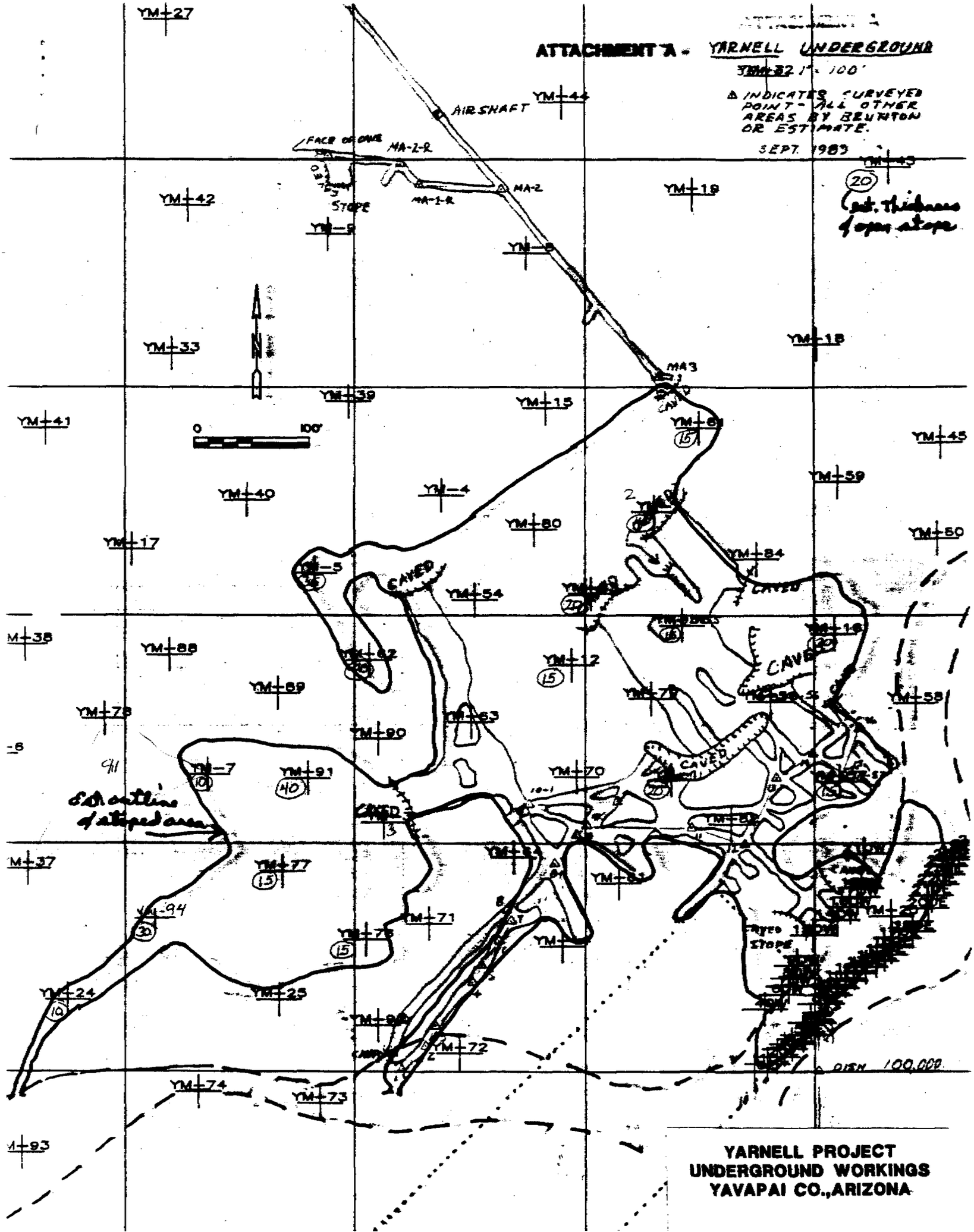
M. A. Miller

W. D. Gay

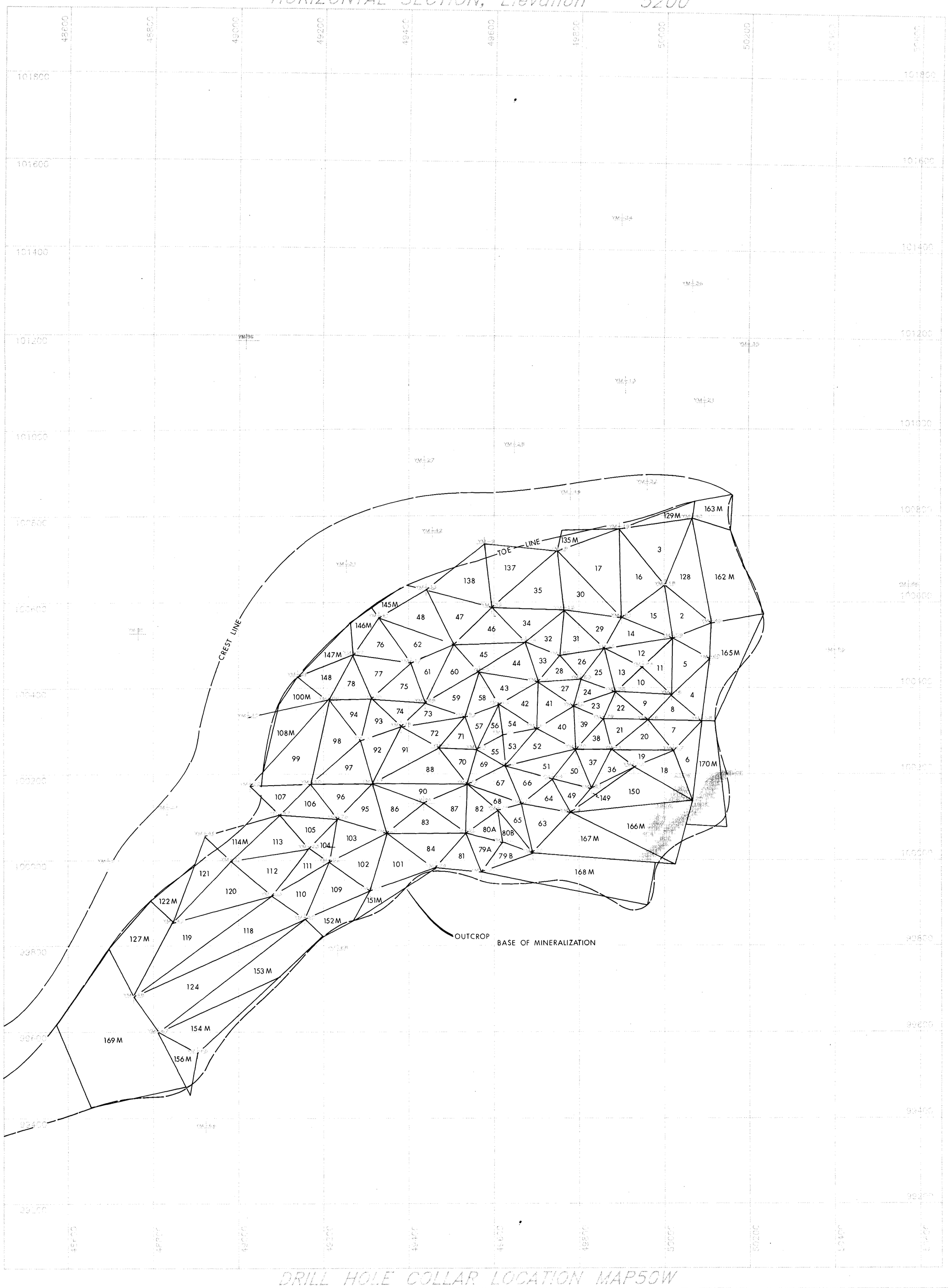
W. D. Gay

cc: W.L. Kurtz
R.L. Brown
F.T. Graybeal
J.L. Jansen
S.L. Lakosky


ATTACHMENT A
YARNELL UNDERGROUND
YM-27
YM-44
YM-42
YM-19
YM-33
YM-18
YM-39
YM-15
YM-41
YM-45
YM-59
YM-40
YM-4
YM-80
YM-17
YM-60
YM-84
YM-5
YM-54
YM-88
YM-12
YM-16
YM-89
YM-79
YM-58
YM-78
YM-63
YM-90
YM-7
YM-91
YM-70
YM-77
YM-64
YM-81
YM-71
YM-24
YM-25
YM-92
YM-72
YM-74
YM-73
0
100'
est. thickness of open stope
est. outline of stoped area
CAVED
STOPE
YARNELL PROJECT
UNDERGROUND WORKINGS
YAVAPAI CO.,ARIZONA


ATTACHMENT "A" - YARNELL UNDERGROUND
1" = 100'
△ INDICATES SURVEYED POINT - ALL OTHER AREAS BY BRUNTON OR ESTIMATE.
SEPT. 1983
AIRSHAFT
FACE OF ORE
MA-2-R
MA-2
MA-1-R
STOPE
MA3
CAVED
Est. thickness of open stope
Est. outline of stoped area
Ayro 1 STOPE
0
100'
YM-27
YM-44
YM-42
YM-19
YM-33
YM-18
YM-39
YM-15
YM-41
YM-45
YM-40
YM-4
YM-59
YM-80
YM-17
YM-50
YM-84
YM-54
YM-38
YM-88
YM-12
YM-89
YM-79
YM-58
YM-90
YM-63
YM-7
YM-91
YM-70
YM-77
YM-94
YM-71
YM-24
YM-25
YM-72
YM-74
YM-73
YM-93
YARNELL PROJECT
UNDERGROUND WORKINGS
YAVAPAI CO.,ARIZONA

ATTACHMENT A



TRIANGLES & DRILL HOLES USED IN STUDY PIT YARNELL PROJECT YAVAPAI COUNTY, ARIZONA

J.D.SELL 11/10/89

ASARCO Engineering and Computer Services

YARNELL PROJECT
COLLAR LOCATION MAP

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

mn68ll JDS/aam tuc 11-10-89

JDS

Y-1.1.0

ASARCO

Southwestern Mining Department

October 26, 1989

MEMORANDUM

TO: T. E. Scartaccini

FROM: S. L. Lakosky

RE: Yarnell Land Option and Purchase Costs

As per your request, I have summarized the land option and purchase costs for the Yarnell Project. Attached is a more detailed explanation of these costs.

Option Payments Completed (Jan. 1989 - Sept. 1989)	$62,000
Additional Option Payments during Feasibility Period (Oct. 1989 thru Feb. 1990)	164,500
Remaining purchase payments (After Feb. 1990)	1,473,500
Total option and purchase costs	$1,700,000

S. L. Lakosky
S. L. Lakosky
Yarnell Project Manager

SLL/kh

cc: WLKurtz - w/attach.
JDSell " "

ASARCO Incorp.
OCT 26 1989
SW Exploration

YARNELL PROJECT

10/26/89

LAND OPTION AND PURCHASE COSTS

UNDERLYING OWNERS	OPTION PAYMENTS COMPLETED JAN. 1989 THRU SEPT. 1989	OPTION PAYMENTS PENDING OCT. 1989 THRU FEB. 1990 OCT	NOV	DEC	JAN	FEB	TOTAL	REMAING PURCHASE PAYMENTS AFTER FEB. 1990	TOTAL OPTION AND PURCHASE COST
WESTERN BUILDING AND MINING CO.	7,000	1,000	1,000	1,000	100,000	0	103,000	350,000	460,000 e
LAYTON	10,000	0	0	0	0	0	0	240,000	250,000 e
HEINTZLEMAN	5,000	0	0	5,000	0	0	5,000	40,000	50,000
NORGOLD RESOURCES (US) INC.	40,000	15,000	0	0	20,000	0	35,000	0	75,000 f
ATCHISON, TOPEKA AND SANTE FE	0	0	10,000 a	0	0	0	10,000	300,000 c	310,000 e
MARICOPA COUNTY	0	0	0	0	0	0	0	150,000 c	150,000
ALTERNATE MICROWAVE LOCATION	0	0	1,500 b	0	0	0	1,500	3,500 d	5,000
NEARBY PRIVATE HOMES (2)	0	0	10,000 b	0	0	0	10,000	390,000 d	400,000
TOTAL	$62,000	$16,000	$22,500	$6,000	$120,000	$0	$164,500	$1,473,500	$1,700,000

a - OPTION DATE IS APPROXIMATE

b - OPTION DATE IS APPROXIMATE, OPTION PRICE IS ESTIMATED

c - MICROWAVE RELOCATION COST IS ESTIMATED

d - PURCHASE PRICE IS ESTIMATED

e - UNDERLYING OWNERS POSSESS ROYALTY RIGHTS

f - NORGOLD POSSESSES NUMEROUS OPTIONS, SOME OF WHICH INCLUDE ROYALTY RIGHTS

ASARCO

Exploration Department
Tucson Office

TELECOPIER

Date: 10/26/89

TO:

NAME: R.L. Brown

LOCATION: Spokane Office

FROM: J.D. Sell

YOU WILL RECEIVE 6 PAGE(S) OF COPY EXCLUDING THIS COVER SHEET.

If you do not receive all pages, please call:

602-792-3010, Ext. 324

ASARCO Incorporated
OCT 31 1989
SW Exploration

NORGOLD RESOURCES INC

Canadian Gravity Recovery Inc.

CGR

#920 - 625 Howe Street
Vancouver, B.C., Canada, V6C-2T6
Fax:(604)685-8045 Phone:(604)685-8730

FACSIMILE TRANSMISSION

To: Bill Kurtz / ASARCO

ATTN: c/o Jim Sell

FROM: Michael Philpot per Chris Moat

DATE: October 25, 1989

IF YOU DO NOT RECEIVE ALL 4 PAGES (INCLUDING COVER PAGE)
PLEASE FAX: (604) 685-8045
OR PHONE: (604) 685-8730.
THANK-YOU.

****

MESSAGE: As per your telephone with Mr. Moat I am forwarding this write-up for your perusal

the mining record

To: Mr. Michael Philpot

From: Don E. Howell

Pages Transmitted: three *Including this cover sheet*

Date: October 25, 1989

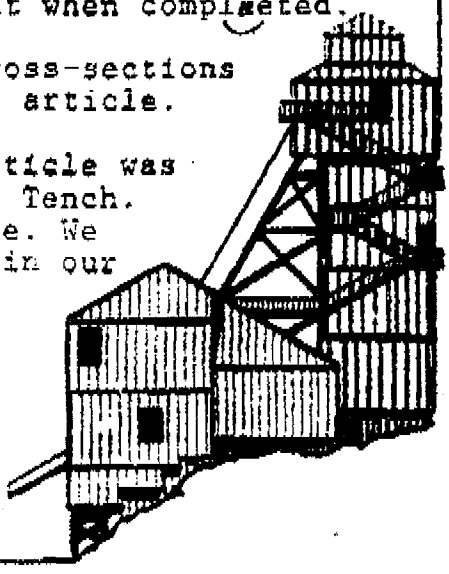
Fax Number: 604-685-8045

Message/Description: per Tench Page, please approve and clear with ASARCO by Thursday, October 26th. Advise C. Moat when completed.

Also, are recent cross-sections available from this article.

Note: All information contained in article was taken from material supplied by Tench. Any questions, please contact me. We are rushing this for insertion in our World Gold convention issue.

Sincerely,



5360 S. Roslyn Street
Suite 390 - Greenwood Plaza

Telephone 303-770-6791
FAX 303-770-6796

P.O. Box 37510
Denver, CO 80237-0510

1-702-251-

YARNELL, AZ- In less than a year, Norgold Resources and its joint venture partner, ASARCO, have fast tracked the Yarnell property from an undrilled past gold producer to a well defined gold bulk tonnage deposit. The Yarnell Mine is locate 1 1/2 miles south of Yarnell, Yavapai County, Arizona. Yarnell is 72 miles northwest of Phoenix and 16 miles northeast of Wickenburg.

Norgold entered into a joint venture agreement with ASARCO Incorporated in January, 1989; ~~w~~ ASARCO has the right to earn 51% of the project and will be the operator under a joint management committee. By May 1989, ASARCO had conducted 3030 feet of reverse circulation dirlling which confirmed the presence of a bulk tonnage gold deposit. The low grade mineralization is part of an alteration zone associated with the principal Yarnell fault system which was partially mined in the early 1900's and 1940's.

Phase II and III reverse circulation drilling with excess of 20,000 feet and eighty holes have now delineated ~~probable~~ reserves (all categories) as interpreted by Norgold's independent consultant, of 8.4 mm tons grading .042 oz/ton Au (34B, 000 oz) The favorable surface topography and low angle of the Yarnell fault will maximize the overall stripping ratio at ~~3:1~~ 2:1 approximately

Reserves will be upgraded once sufficient diamond drilling has been completed and analyzed. Norgold reported that there is excellent potential to expand reserves along strike in both directions.

Preliminary metallurgical studies indicate the ore is amenable to heap leaching extraction techniques with low to moderate cyanide and lime consumption.

Preliminary bottle roll leach tests for 24 and 72 hours leach time were conducted on three selected interval samples. The leach test results indicated that a 70 to 80 percent gold recovery was achieved in these samples and that cyanide and lime consumptions averaged approximately 0.4 and 4 pounds per ton, respectively.

Currently detailed bench studies are being conducted to determine the optimum crushing size versus recovery of gold that amenable to heap leach extraction.

~~To maximize gold recovery from the high grade ore, a fine grind followed by gravity separation; then either vat leaching or agglomeration/heap leaching will be required.~~

The property is logistically well located to all the amenities in a small community that is ~~not adverse to mining~~ mining oriented. There is sufficient room to set up the infrastructure to support a moderate heap leach operation with less than one half mile haulage distance.

Norgold reported that the primary group of 4 patented and 7 unpatented mineral claims are subject to an option to purchase agreement. The company has also entered into an agreement with other minor land holders within the area to consolidate it's land psoition. Norgold stated that the cost to purchase these properties is insignificant compared to the core property. Norgold and ASARCO have also staked additional mining claims on BLM land and applied for several state mineral ~~loans~~ leases, consolidating a land package of 1,000 plus acres.

A Norgold official said that management is encouraged about the Yarnell Projects future and is anticipating a psoitive feasibility study in ~~early~~ 1990.

Norgold Resources U.S. Operations office is located at 13935 Chamy Drive, Reno, Nevada 89511 702-851-3177 while the corporate offices is located at 210 - 475 Howe Street, Vancouver, B.C V6C 2B3 604-681-5566

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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	0.053
YM-2	200 - 240	0.049
YM-5	295 - 335	0.041
YM-7	220 - 230	0.047
YM-12	180 - 195	0.039
YM-16	65 - 70	0.039
YM-24	65 - 75	0.093
YM-55	150 - 165	0.050
YM-57	50 - 60	0.035
YM-61	175 - 190	0.037
YM-62	250 - 290	0.040
YM-76	75 - 90	0.034
YM-77	107 - 120	0.048
YM-83	205 - 225	0.044
YM-91	95 - 180	0.051*
YM-94	127 - 135	0.086

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

TABLE 2

Yarnell Project

Main "B" Zone Intervals

Drill Hole	Footage From	Footage To
YM-1	55	125
YM-2	140	245
YM-3	125	200
YM-4	285	310
YM-5	200	355
YM-6	125	180
YM-7	155	230
YM-8	225	275
YM-9	275	315
YM-10	190	225
YM-11	175	240
YM-12	150	240
YM-13	180	210
YM-14	15	90
YM-15	140	295
YM-16	40	80
YM-17	285	325
YM-18	100	140
YM-19	205	235
YM-20	0	35
YM-21	80	90
YM-22	270	285
YM-23	40	125
YM-24	65	115
YM-25	55	90
YM-26	200	290
YM-27	300	315
YM-28	225	245
YM-29	220	230
YM-30	215	250
YM-31	365	385
YM-32	190	200

TABLE 2

Yarnell Project

Main "B" Zone Intervals

Drill Hole	Footage From	Footage To
YM-33	275	365
YM-34	-	-
YM-35	15	40
YM-36	130	140
YM-37	120	180
YM-38	185	220
YM-39	325	360
YM-40	275	380
YM-41	295	335
YM-42	330	340
YM-43	65	85
YM-44	235	265
YM-45	60	75
YM-46	200	260
YM-47	170	205
YM-48	45	85
YM-49	140	160
YM-50	0	85
YM-51	165	170
YM-52	50	75
YM-53	65	140
YM-54	180	270
YM-55	70	165
YM-56	70	105
YM-57	15	60
YM-58	0	20
YM-59	50	100
YM-60	-	-
YM-61	80	200
YM-62	190	295
YM-63	140	240
YM-64	110	145
YM-65	0	50
YM-66	-	-
YM-67	0	50
YM-68	-	-
YM-69	250	280
YM-70	95	135
YM-71	45	110
YM-72	0	35
YM-73	0	20
YM-74	-	-
YM-75	105	170

TABLE 2

Yarnell Project

Main "B" Zone Intervals

Drill Hole	Footage From	Footage To
YM-76	75	115
YM-77	107	180
YM-78	215	270
YM-79	120	170
YM-80	230	280
YM-81	55	90
YM-82	35	95
YM-83	140	240
YM-84	105	140
YM-85	30	60
YM-86	50	70
YM-87	285	305
YM-88	240	295
YM-89	180	270
YM-90	120	215
YM-91	95	180
YM-92	35	55
YM-93	5	25
YM-94	105	155
YM-95	385	395
YM-96	570	575

10-30-89

JDS

Phx
941 8200-4192
Chris Moat
Please call
Swim

Photo's
of Yarnell
Sensual Sets.

Request He
call Western
Air & request
photo !!

To JDS

Date 10/30 Time 12:49

WHILE YOU WERE OUT

M Jim Woods

of

Phone 212-510-1912
Area Code Number Extension

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

Message

Operator

AMPAD EFFICIENCY®

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

Fred Ferguson
Lewis & Roha, Phy.
Jenning & Stoss

Jay Kittle

Trespass
w/ J. Hassard

Gary Huber
203/278-8464

JDS

ASARCO

Southwestern Exploration Division

October 31, 1989

J.D. Sell

Ownership of Yarnell
Unpatented Claims

Claim Name	Owner
Black Dike No. 3	Mr. David Green-Lee
Gold Rock No. 1	Mr. Carl Olsen
Gold Rock No. 2	

Both men live in the Yarnell area. Mr. Green-Lee, in fact, lives within view of the mine.

As shown on the map, the east end of Black Dike No. 3, Gold Rock No. 1 and Gold Rock No. 2 overlap. In talking to Mr. Green-Lee there is a slight disagreement between him and Mr. Olsen as to where the corners should be.

W. D. Gay

W.D. Gay

WDG:mek

10 N 5 W 23 SW

E- 1

GEOGRAPHIC INDEX
ALL CLAIMS

MERIDIAN: GILA-SALT R.

LEGAL DESCRIPTION TWNSHP	RANGE	SEC	SUBDV	GEO BLM CTY	DIST	SERIAL CASE NO.	TYPE	CLAIM NAME/NUMBER	CLAIMANT(S)	LEAD FILE	COUNTY BOOK;PAGE	LOCATION DATE	LATEST ASSMT-YR	CASE CLOSED
10 N	5 W	23	SW		2	78225*	LD	SKY HIGH #4	LAYTON D C	78211	977;43	8/01/1975	1988	
			NE		25	78227*	LD	THUNDER HILL	LAYTON PRISCILLA BAR BM LIVESTOCK LAYTON D C	78211	941;750	11/22/1974	1988	
			NW		25	82449*	PL	RIM ROCK NO 1	LAYTON PRISCILLA BAR BM LIVESTOCK LAYTON PRISCILLA		154;550	7/07/1948	1988	
			SE		25	101990*	LD	CRAZY HORSE O.K.	LAYTON D C BAR BM LIVESTOCK LAYTON PRISCILLA		1290;244	3/27/1980	1988	
			S2		25	101991*	LD	CRAZYHORSE TOKAY	LAYTON D C BAR BM LIVESTOCK LAYTON PRISCILLA	101990	1290;551	3/29/1980	1988	
			E2		25	118942	LD	BLACK DIKE EXTEN #5	LAYTON D C BAR BM LIVESTOCK LAYTON PRISCILLA		1339;56	11/01/1980	1988	
			N2		25	132393	LD	BLACK DIKE #1	LAYTON D C GOLD DEPOSITORY	132371		4/15/1981	0000	6/22/1983
			N2		25	132394	LD	BLACK DIKE #2		132371		4/15/1981	0000	6/22/1983
			NE		25	132395	LD	BLACK DIKE #4		132371		4/15/1981	0000	6/22/1983
			S2		25	132396	LD	BLACK DIKE EXT #1		132371		4/15/1981	0000	6/22/1983
			S2		25	132397	LD	BLACK DIKE EXT #2		132371		4/15/1981	0000	6/22/1983
			SW		25	132398	LD	BLACK DIKE EXT #3		132371		4/15/1981	0000	6/22/1983
			W2		25	132399	LD	BLACK DIKE EXT #4		132371		4/15/1981	0000	6/22/1983
			NW		25	134010	LD	RIM ROCK #1		133239		4/12/1981	0000	12/06/1985
			NW		25	134011	LD	RIM ROCK #2		133239		4/12/1981	1982	12/06/1985
			NW		25	137270	LD	RIM ROCK #1		137185		5/20/1981	0000	8/16/1985
			NW		25	137271	LD	RIM ROCK #2		137185		5/20/1981	0000	8/16/1985
			SE		25	223428*	LD	GOLD RIDGE #2	GREEN-LEE DAVID			6/25/1984	1988	
WERE BDU 2			N2		25	232182*	LD	GOLD ROCK #1	OLSEN CARL		1670;858	10/18/1984	1988	
& BD#1			NE		25	232183*	LD	GOLD ROCK #2		232182	1670;860	10/18/1984	1988	
			NE		25	234624*	MS	GOLD ROCK			1703;719	3/07/1985	1988	
			N2		25	288941*	LD	SUN #1	NORGOLD RESOURCES	288934	2079;0476	8/09/1988	0000	
			N2		25	288942*	LD	SUN #2		288934	2079;0478	9/09/1988	0000	
			NW		25	288943*	LD	SUN 3B		288934	2079;0480	9/09/1988	0000	
			NW		25	288944*	LD	SUN #4		288934	2079;0482	9/09/1988	0000	11/01/1988
			NW		25	288946*	LD	SUN 6B		288934	2079;0486	9/09/1988	0000	
			NW		25	288947*	LD	SUN 7B		288934	2079;0488	9/09/1988	0000	
			NW		25	288948*	LD	SUN 8B		288934	2079;0490	9/09/1988	0000	
			NW		25	288949*	LD	SUN #9		288934	2079;0492	9/09/1988	0000	
			NW		25	288950*	LD	SUN #10		288934	2079;0494	9/09/1988	0000	
			N2,SW		25	288951*	LD	SUN #11		288934	2079;0496	9/09/1988	0000	
			ALL		25	288952*	LD	SUN #12		288934	2079;0498	9/09/1988	0000	
			NE,S2		25	288953*	LD	SUN #13		288934	2079;0500	9/09/1988	0000	

* * 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

10 N 5 W 22 NW

D- 1

REPORT DATE: JUL 11, 1989
ADMINISTRATIVE STATE: ARIZONA

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

PCN: LT892PP1

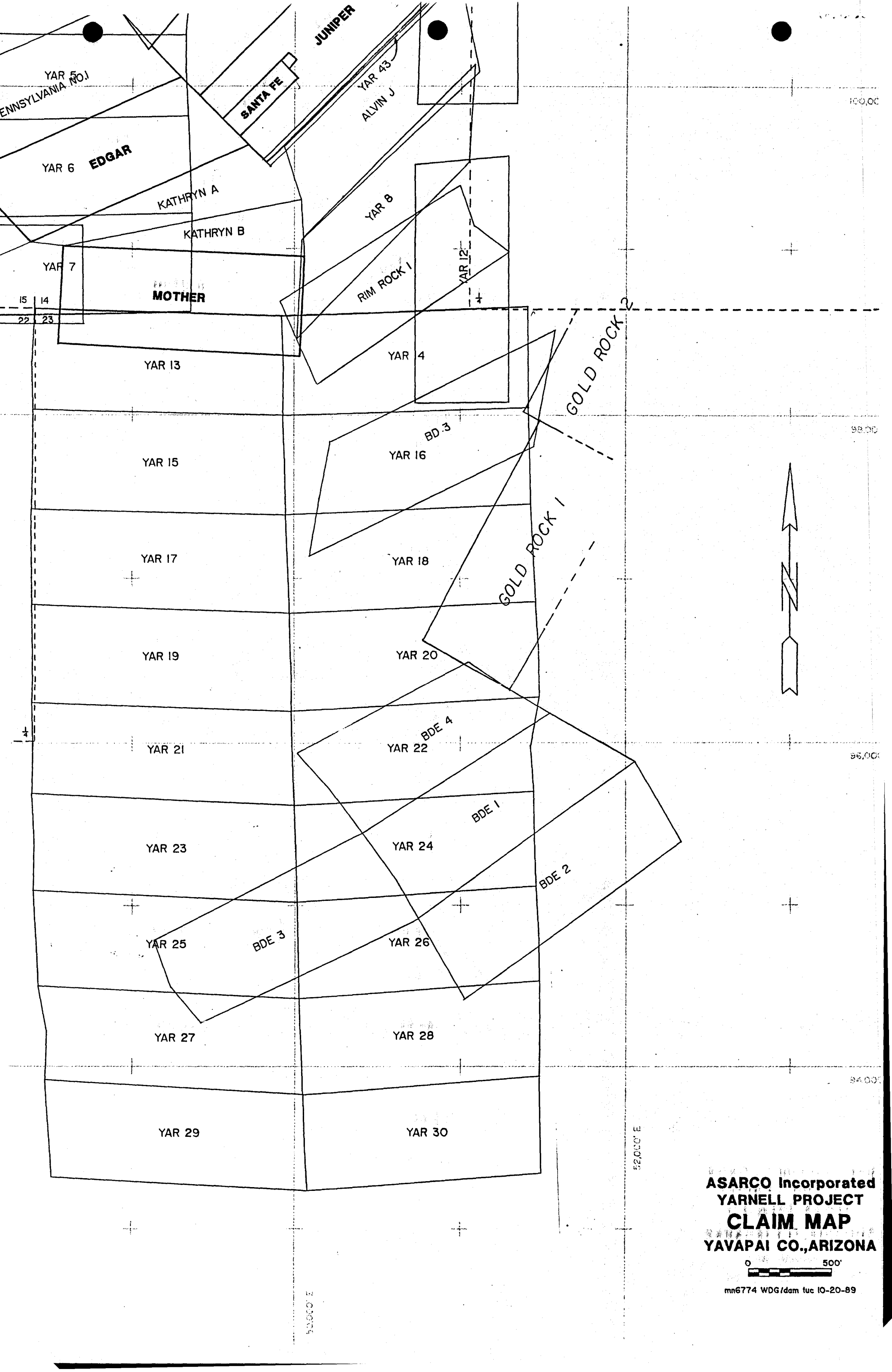
GEOGRAPHIC INDEX
ALL CLAIMS

MERIDIAN: GILA-SALT R.

-LEGAL DESCRIPTION- TWNSHP	RANGE	SEC	SUBDV	GEO CTY	BLM DIST	SERIAL CASE NO.	TYPE	CLAIM NAME/NUMBER	CLAIMANT(S)	LEAD FILE	COUNTY BOOK;PAGE	LOCATION DATE	LATEST ASSMT-YR	CASE CLOSED
10 N	5 W	22	NW	25	2	102154	LD	NORTH STAR #1 ONE	SCARTH ROBERT W		1274;106	1/22/1980	1981	6/11/1982
			N2	25		102155	LD	NORTH STAR #2 TWO		102154	1274;104	1/22/1980	0000	11/17/1981
			NW	25		142197	LD	LENORE #8 LODE	TEXONA MINING	142185	1417;250	8/07/1981	1984	5/16/1986
			ALL	25		142935	LD	ECLIPSE	SCARTH ROBERT W		1414;77	9/01/1981	0000	6/11/1982
			ALL	25		160225	LD	ECLIPSE	SCARTH ROBERT		1442;981	2/12/1982	0000	11/15/1985
			NW	25		160226	LD	NORTH STAR #1		160225	1442;983	2/12/1982	0000	11/15/1985
			NW	25		187619	LD	NORTH STAR #1A	POPE MINING		1494;554	10/20/1982	1984	12/20/1985
			NE	25		288940*	LD	Y-7	JENKINS DON	288934	2078;0434	8/08/1988	0000	
			NE	25		288946*	LD	SUN 6B	NORGOLD RESOURCES	288934	2079;0486	9/09/1988	0000	
			NE	25		288947*	LD	SUN 7B		288934	2079;0488	9/09/1988	0000	
			E2	25		288954*	LD	SUN #14		288934	2079;0502	9/09/1988	0000	
			E2	25		288955*	LD	SUN #15		288934	2079;0504	9/09/1988	0000	
			NE	25		294322*	LD	YAR #7	ASARCO	294316	2131;0599	3/15/1989	0000	
			N2	25		296361*	LD	YAR 35		296357	2155;0260	6/06/1989	0000	
			NE	25		296362*	LD	YAR 36		296357	2155;0261	6/06/1989	0000	
			NE	25		296363*	LD	YAR 37		296357	2155;0262	6/06/1989	0000	
			NE	25		296364*	LD	YAR 38		296357	2155;0263	6/06/1989	0000	
			NE	25		296365*	LD	YAR 39		296357	2155;0264	6/06/1989	0000	
		23	SE	25		24731*	LD	RED ROCK # 1	BAR BM LIVESTOCK LAYTON PRISCILLA LAYTON D C	24730	1148;472	5/24/1978	1988	
			SE	25		72444*	LD	GOLD RIDGE	MANS JEROME	72442	710;20	10/20/1971	1988	
			NW	25		72445*	LD	BLACK DIKE NO 3	GREEN-LEE DAVID	72442	153;393	1/27/1947	1988	
			N2	25		74727*	LD	BLACK DIKE NO. 1	LAYTON PRISCILLA LAYTON D C		153;17	07/1946	1988	
now Gold Rock #1			N2	25		74728	LD	BLACK DIKE NO. 2	METZLER WAVA G METZLER HARLYNN	74727	153;18	3/07/1946	1983	10/22/1985
			N2	25		74729	LD	BLACK DIKE NO 4	METZLER WAVA G METZLER HARLYNN	74727	153;394	1/25/1946	1983	10/22/1985
			S2	25		74730*	LD	BLACK DIKE EXT NO. 1	LAYTON PRISCILLA LAYTON D C	74727	158;560	3/07/1946	1988	
			S2	25		74731*	LD	BLACK DIKE EXT NO. 2	LAYTON PRISCILLA LAYTON D C	74727	158;561	7/05/1951	1988	
			SW	25		74732*	LD	BLACK DIKE EXT NO. 3	LAYTON PRISCILLA LAYTON D C	74727	158;562	7/05/1951	1988	
			W2	25		74733*	LD	BLACK DIKE EXT #4	LAYTON PRISCILLA LAYTON D C	74727	113;335	11/11/1957	1988	
			SW	25		78214*	LD	GREY MARE #1	BAR BM LIVESTOCK LAYTON D C LAYTON PRISCILLA	78211	1252;150	10/01/1979	1988	
			SW	25		78215*	LD	GREY MARE #2	BAR BM LIVESTOCK LAYTON D C LAYTON PRISCILLA	78211	1252;152	10/01/1979	1988	
			SW	25		78225*	LD	SKY HIGH #4	BAR BM LIVESTOCK	78211	977;43	8/01/1975	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


JUNIPER
SANTA FE
YAR 5
PENNSYLVANIA NO.1
YAR 43
ALVIN J
YAR 6
EDGAR
KATHRYN A
KATHRYN B
YAR 8
YAR 7
MOTHER
RIM ROCK 1
YAR 12
15
14
22
23
YAR 13
YAR 4
GOLD ROCK 2
BD 3
YAR 16
YAR 15
YAR 17
YAR 18
GOLD ROCK 1
YAR 19
YAR 20
BDE 4
YAR 21
YAR 22
BDE 1
YAR 23
YAR 24
BDE 2
YAR 25
BDE 3
YAR 26
YAR 27
YAR 28
YAR 29
YAR 30
100,00
98,00
96,00
94,00
52,000 E
ASARCO Incorporated
YARNELL PROJECT
CLAIM MAP
YAVAPAI CO.,ARIZONA
0
500'
mn6774 WDG/dam tuc 10-20-89

JDSell — please start Dan on these 10/31/89

YARNELL SLIDES

(1)

BAR SCALE ← use

1. INDEX MAP
DAM

STATE ARIZONA
show
Tucson
Phx
Yavapai County (spell correctly)
Prescott
Yarnell

2. 7½ USGS Topo Base
DAM/WRG

large enough to show Yarnell townsite;
"Prescott View"

⊗ Need to add new highway

3. Geology — on USGS Topo Base (include new highway)
DAM/MAM
(block showing subsequent slides?)

4. DRILL LOCATION MAPS → on all maps
DAM/JDS/MAM

a) Holes 1—9 (do not show numbers)
include △ at top of hill; new highway if goes that far; few contour lines; Yarnell fault

b) All Holes with DOH separate symbol

c) All Holes with Holes containing ≥ 20' of .04 in separate color plus outline of bottom and top of Sell's pit

SDS-JLL

d) All holes plus cross section lines

(Curved ~~number of~~ same number of this slide as number of cross sections.

5 CROSS SECTIONS

SDS-JLL

3 down dip

2 or 3 longitudinal

each to show "B" zone and each drill hole to have bar for assay

will decide after drawn whether to work out color scheme or vertical line depicting values

show Sell pit walls & ultimate down dip parameter

6. CLAIM MAP OF Ascarco land

WDG

Patented Claims (Santa Fe / Marcopa outline and separate color)

Unpatented Claims

State Land

probably as the USGS 7½ topo Base

pit on new highway

7. I will work with Hwy Dept for slice of pit, dump, leach

8. Think about 3-D diagram of "ore body" cc WLK

9. MAY BE 3 or 4 charts;

MAM
COPY to JDS
MAM

Yarnell

14/30/89

JDS / MAM (please do in red for me)

any dates on "granite" at Yarnell (where is nearest)
~100 my granite 14 my basalt

any dates on mineralization in Congress–Octave–Yarnell area. for the gold mineralization.
No.

What is the correct rock name at Yarnell?

Please draw cross section from .06 Road cut to top of Yarnell hill thru as many drill holes as possible

Please give me geology sketch of area to include .06 highway cut ~~, volcanics to north~~ and west past "Desert View"; volcanic to north. ~~(i.e., map we wanted last March along with~~

11/6

JDSell
MAN
Dan

YATCHEW SUDCO

(1) 7½ minute topo; need one to cover Peoples Valley along with Yarnell; perhaps this can be ~~one~~ on the one I previously requested by just expanding it.

(2) Want a slide showing:

Sell open pit outline

Waste dump area

Primary leach pad area plus makeup water; prog pond; etc

Shops - office

Recovery plant

Lakosky
bus tour

Highway

Yarnell 10/89

JDS

ASARCO

Southwestern Exploration Division

November 1, 1989

W.D. Gay

Amending YAR Claims
Yarnell Project
Yavapai County, AZ

In conversation with Jerry Haggard, he recommends to amend the YAR claims and include some language to indicate they are relocation of the Sun and Y claims along with any open ground available for location.

Clarify language with Jerry and amend file soon.

James D. Sell

JDS:mek

James D. Sell

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

ASARCO

Exploration Department
Southwestern United States Division

James D. Sell
Manager

November 1, 1989

Mr. Christopher Moat, Chairman
NORGOLD RESOURCES (US) INC.
2380 Harbour Centre
P.O. Box 12122
555 W. Hastings Street
Vancouver, B.C. V6B-4N6
Canada

Dear Mr. Moat:

Enclosed is a copy of Affidavit of Labor for the Alvin J, Kathryn A, Kathryn B, and Pennsylvania No. 1 lode mining claims owned by Alvin Roman and Kathryn Gooding. This affidavit has been recorded in Yavapai County in Book 2189, pages 129 & 130, and has been acknowledged as received by the BLM on October 27, 1989.

Sincerely yours,

William D. Gay

William D. Gay
Land Engineer, SWED

WDG:mek
Enc.

cc: R.L. Brown
J.D. Sell
A.J. Roman - Western Bldg & Mining Co. (w/enc.)

MINING AGREEMENT
(With Option to Purchase)

THIS MINING AGREEMENT (With Option to Purchase), dated effective as of the 30 day of December, 1988, is by and between WESTERN BUILDING AND MINING CO., INC., a Pennsylvania corporation (hereinafter referred to as "OWNER") and NORGOLD RESOURCES (US) INC., a Delaware corporation (hereinafter referred to as "NORGOLD").

Recitals:

(i) OWNER owns those certain patented and unpatented mining claims situated in Yavapai County, Arizona more particularly described in Exhibit A attached hereto and made a part hereof;

(ii) NORGOLD has heretofore located the unpatented lode mining claims (the "Sun Claims") described in Exhibit B attached hereto and made a part hereof, which unpatented lode claims are contiguous to the claims described in Exhibit A, record title to which Exhibit B claims shall be transferred to OWNER as provided in Paragraph 8(A) below;

(iii) All of the mining claims described in Exhibit A and B shall be subject to this Agreement, which claims, together with all ores, minerals and other materials of every nature and sort thereon and thereunder except oil, gas, coal and other hydrocarbons and together with all rights of OWNER in and to all appurtenances, easements, rights-of-way, water rights and all rights now or hereinafter owned or held by OWNER in, on or under said claims or in any way appurtenant to or pertaining thereto are hereinafter collectively referred to as the "Property;" and

(iv) OWNER desires to grant to NORGOLD and NORGOLD desires to obtain from OWNER the right to enter upon, explore, develop and mine the Property, together with the sole and exclusive option to purchase the Property, all on the terms and conditions hereinafter set forth;

this Agreement provided that OWNER is not a contributory cause to or contributorily negligent with respect thereto. NORGOLD shall maintain and keep in force during the term of this Agreement workmen's compensation insurance on NORGOLD's employees as required by the State of Arizona and shall obtain and maintain general liability insurance covering its operations hereunder in such amounts as are in accordance with general industry standards, taking into account the operations then being conducted by NORGOLD on the Property. NORGOLD shall furnish a copy of such policy to OWNER prior to conducting operations on the Property.

(E) Payment of Taxes - During the term of this Agreement, NORGOLD shall pay all ad valorem taxes levied or assessed against the Property, all taxes levied or assessed against the personal property and improvements of NORGOLD situated on the property and all taxes levied upon the operations of NORGOLD on the Property, exclusive of any taxes levied, asssessed or measured by the income of OWNER. OWNER shall promptly transmit to NORGOLD any notices which it receives pertaining to such taxes. In the event of termination of this Agreement other than by NORGOLD's purchase of the Property, taxes which are the responsibility of NORGOLD shall be prorated, on a calendar year basis, for the calendar year in which this Agreement is terminated. OWNER shall pay all taxes levied or assessed against its equipment referred to in Paragraph 2(c). OWNER shall also pay that portion of ad valorem taxes and any personal property taxes levied against the exisiting house and the contents thereof until the close of the Escrow described in Paragraph 6 pursuant to NORGOLD's exercise of its option to purchase. Either party shall have the right to contest, in the courts or otherwise, the validity or amount of any tax or assessment before it shall be required to pay the same. NORGOLD and OWNER shall each furnish to the other proof of payment of those taxes for which such party is responsible within thirty (30) days of the due date. Upon failure of one of the parties to

pay the taxes for which it is responsible, the other party shall have the right to pay the same and charge the responsible party all costs and expenses incurred in connection with such payment. In such event, the responsible party shall reimburse the other party within ninety (90) days of receipt by the responsible party of a statement of the costs paid and expenses incurred by the other party.

(F) Return of Property to OWNER - In the event of termination of this Agreement prior to exercise by NORGOLD of its option to purchase, NORGOLD shall return possession of the Property to OWNER free and clear of any charges, liens or encumberances created by or arising from NORGOLD's operations on the Property.

8. Transfer of Sun Claims; New Locations; Amendment and Relocation; Patent; Amendment of Mining Laws.

(A) At the time of execution of this Agreement by both parties, NORGOLD shall execute and deliver to OWNER a Quitclaim Mining Deed transferring to OWNER record title to the unpatented Sun Claims described in Exhibit B, which Deed shall be made expressly subject to this Agreement and to the rights of NORGOLD hereunder.

(B) Any unpatented federal mining claims or group of such claims located by NORGOLD prior to execution of this Agreement and any such claims located by NORGOLD prior to exercise by NORGOLD of its option to purchase, any portion of which are contiguous to the claims described in Exhibits A and B, shall be located by NORGOLD as agent for and in the name of OWNER and shall, upon the location thereof, become subject to the terms of this Agreement (including payment to OWNER of production royalty) and shall become a part of the Property as if fully described in Exhibit A. NORGOLD shall promptly notify OWNER of any such locations and NORGOLD agrees that it shall not locate any mining claims in a manner so as to overlap any of the presently existing mining claims described in Exhibit A.

mining claims the right to acquire rights to federally owned minerals or federal lands in which minerals may exist in exchange for or in modification of existing rights, NORGOLD shall have the right, but not the obligation, to acquire such rights on its behalf if it has theretofore purchase the Property and otherwise, in the name of OWNER. In the event such election is made by NORGOLD, NORGOLD shall pay all costs, fees and expenses in conjunction therewith.

(F) Rights to Inure to NORGOLD - The rights of NORGOLD under this Agreement shall extend to and shall include any amended, relocated or patented claims and any rights which may be acquired in exchange for or in substitution of existing rights.

9. Data; Inspection; Confidentiality.

Prior to exercise by NORGOLD of its option to purchase, NORGOLD shall furnish to OWNER at intervals no less frequently than monthly, copies of non-interpretive geological data, drilling and assay report, engineering reports and other factual data obtained by NORGOLD concerning the Property. OWNER, and its agents authorized in writing, at OWNER's sole risk and expense, may enter upon the Property to inspect the same and, if NORGOLD is granted the right to commingle pursuant to Section 2(A), to verify the manner in which sampling and weighing or measuring of ores, minerals and material from the Property is conducted prior to commingling the same with ores, minerals or materials from other lands. Such entry shall be at such times and upon such notice (of not less than 24 hours) to NORGOLD as shall not hinder or interrupt the operations of NORGOLD. OWNER shall indemnify and save NORGOLD harmless with respect to any liability arising out of such entry. OWNER shall not, without the prior written consent of NORGOLD, disclose any information, including the terms of this Agreement, it may be furnished by or obtain from NORGOLD or from its inspections provided for herein with respect to the Property or any operations of NORGOLD pertaining to the Property. In the event of any breach by OWNER of the provisions of this Paragraph

9, OWNER's right to receive further information or to enter and inspect the Property shall terminate and NORGOLD shall not be obligated to furnish further information or to permit any such further entry and inspection.

10. Title Matters.

(A) Title Documents; Data - Promptly following the execution of this Agreement by both parties, OWNER shall deliver to NORGOLD all existing abstracts of title to and all copies of any existing plats or field notes of surveys thereon which OWNER may have in its possession. In addition, OWNER shall furnish to NORGOLD copies of any exploration data, assays, logs, maps, geological, geochemical and geophysical surveys and reports that OWNER may have in its possession. OWNER shall allow NORGOLD the right to examine and analyze all drill core from the Property available to OWNER.

(B) Title Defects, Defenses and Protection - If -- (1) in the opinion of counsel for NORGOLD, OWNER's title to the claims described in Exhibit A or any part thereof is defective or less than as represented in Paragraph 1, or (ii) OWNER's title to the claims described in Exhibit A is contested or questioned by any person, entity or governmental agency -- and if OWNER is unable or unwilling to promptly commence action reasonably designed to correct the defects or alleged defects in title and to thereafter diligently pursue such action to completion, NORGOLD may, but shall not be obligated to, attempt to perfect, defend or initiate litigation to protect OWNER's title. In such event, OWNER shall execute all documents and shall take all such other actions as are reasonably necessary to assist NORGOLD in its efforts to perfect, defend or protect OWNER's title. If title to the claims described in Exhibit A is less than as represented in Paragraph 1, then the costs and expenses of perfecting, defending or correcting title (including, but without being limited to, the cost of attorney's fees, costs of litigation, costs of settlement of litigation, and the cost of

JDS

ASARCO

Southwestern Exploration Division

November 1, 1989

W.L. Kurtz

Non-Asarco-Norgold Claims
Yarnell Project
Yavapai County, Arizona

Attached is Mr. Gay's memo on the three claims within or near the YAR Group which are owned by two individuals in the Yarnell area.

Asarco-Norgold does not have any option with these individuals having the BD 3 (Black Dike 3) and the Gold Rock 1 and 2 claims.

As the claims were not deemed of interest in our original deposit exploration, SWED has not been in touch with Green-Lee, nor with Olsen, in regard to the three claims.

The question now arises, based on the thoughts of the Mining Department, on where any ponds-pads may be placed in operations.

The Rim Rock 1 is Asarco-Norgold under the Layton Agreement.

Asarco-Norgold has a 30 day right-of-refusal, within a two year period ending April 21, 1991, to purchase the Black Dike Ext. 1, 2, 3, & 4 claims from the Laytons.

James D. Sell

James D. Sell

JDS:mek
Att.

cc: R.L. Brown
W.D. Gay
S.L. Lakosky
D.E. Crowell

ASARCO

Southwestern Exploration Division

October 31, 1989

J.D. Sell

Ownership of Yarnell
Unpatented Claims

Claim Name	Owner
Black Dike No. 3	Mr. David Green-Lee
Gold Rock No. 1	Mr. Carl Olsen
Gold Rock No. 2	

Both men live in the Yarnell area. Mr. Green-Lee, in fact, lives within view of the mine.

As shown on the map, the east end of Black Dike No. 3, Gold Rock No. 1 and Gold Rock No. 2 overlap. In talking to Mr. Green-Lee there is a slight disagreement between him and Mr. Olsen as to where the corners should be.

W. D. Gay

W.D. Gay

WDG:mek

10 N 5 W 22 NW

D- 1

GEOGRAPHIC INDEX
ALL CLAIMS

MERIDIAN: GILA-SALT R.

LEGAL DESCRIPTION TWNSHP	RANGE	SEC	SUBDV	GEO CTY	BLM DIST	SERIAL CASE NO.	TYPE	CLAIM NAME/NUMBER	CLAIMANT(S)	LEAD FILE	COUNTY BOOK;PAGE	LOCATION DATE	LATEST ASSMT-YR	CASE CLOSED
10 N	5 W	22	NW	25	2	102154	LD	NORTH STAR #1 ONE	SCARTH ROBERT W		1274;106	1/22/1980	1981	6/11/1982
			N2	25		102155	LD	NORTH STAR #2 TWO		102154	1274;104	1/22/1980	0000	11/17/1981
			NW	25		142197	LD	LENORE #8 LODE	TEXONA MINING	142185	1417;250	8/07/1981	1984	5/16/1986
			ALL	25		142935	LD	ECLIPSE	SCARTH ROBERT W		1414;77	9/01/1981	0000	6/11/1982
			ALL	25		160225	LD	ECLIPSE	SCARTH ROBERT		1442;981	2/12/1982	0000	11/15/1985
			NW	25		160226	LD	NORTH STAR #1		160225	1442;983	2/12/1982	0000	11/15/1985
			NW	25		187619	LD	NORTH STAR #1A	POPE MINING		1494;554	10/20/1982	1984	12/20/1985
			NE	25		288940*	LD	Y-7	JENKINS DON	288934	2078;0434	8/08/1988	0000	
			NE	25		288946*	LD	SUN 68	NORGOLD RESOURCES	288934	2079;0486	9/09/1988	0000	
			NE	25		288947*	LD	SUN 78		288934	2079;0488	9/09/1988	0000	
			E2	25		288954*	LD	SUN #14		288934	2079;0502	9/09/1988	0000	
			E2	25		288955*	LD	SUN #15		288934	2079;0504	9/09/1988	0000	
			NE	25		294322*	LD	YAR #7	ASARCO	294316	2131;0599	3/15/1989	0000	
			N2	25		296361*	LD	YAR 35		296357	2155;0260	6/06/1989	0000	
			NE	25		296362*	LD	YAR 36		296357	2155;0261	6/06/1989	0000	
			NE	25		296363*	LD	YAR 37		296357	2155;0262	6/06/1989	0000	
			NE	25		296364*	LD	YAR 38		296357	2155;0263	6/06/1989	0000	
			NE	25		296365*	LD	YAR 39		296357	2155;0264	6/06/1989	0000	
		23	SE	25		24731*	LD	RED ROCK # 1	BAR BM LIVESTOCK LAYTON PRISCILLA LAYTON D C	24730	1148;472	5/24/1978	1988	
			SE	25		72444*	LD	GOLD RIDGE	MANS JEROME	72442	710;20	10/20/1971	1988	
			NW	25		72445*	LD	BLACK DIKE NO 3	GREEN-LEE DAVID	72442	153;393	1/27/1947	1988	
			N2	25		74727*	LD	BLACK DIKE NO. 1	LAYTON PRISCILLA LAYTON D C		153;17	7/07/1946	1988	
Now Gold Rock #1			N2	25		74728	LD	BLACK DIKE NO. 2	METZLER WAVA G METZLER HARLYNN	74727	153;18	3/07/1946	1983	10/22/1985
			N2	25		74729	LD	BLACK DIKE NO 4	METZLER WAVA G METZLER HARLYNN	74727	153;394	1/25/1946	1983	10/22/1985
			S2	25		74730*	LD	BLACK DIKE EXT NO. 1	LAYTON PRISCILLA LAYTON D C	74727	158;560	3/07/1946	1988	
			S2	25		74731*	LD	BLACK DIKE EXT NO. 2	LAYTON PRISCILLA LAYTON D C	74727	158;561	7/05/1951	1988	
			SW	25		74732*	LD	BLACK DIKE EXT NO. 3	LAYTON PRISCILLA LAYTON D C	74727	158;562	7/05/1951	1988	
			W2	25		74733*	LD	BLACK DIKE EXT #4	LAYTON PRISCILLA LAYTON D C	74727	113;335	11/11/1957	1988	
			SW	25		78214*	LD	GREY MARE #1	BAR BM LIVESTOCK LAYTON D C LAYTON PRISCILLA	78211	1252;150	10/01/1979	1988	
			SW	25		78215*	LD	GREY MARE #2	BAR BM LIVESTOCK LAYTON D C LAYTON PRISCILLA	78211	1252;152	10/01/1979	1988	
			SW	25		78225*	LD	SKY HIGH #4	BAR BM LIVESTOCK	78211	977;43	8/01/1975	1988	

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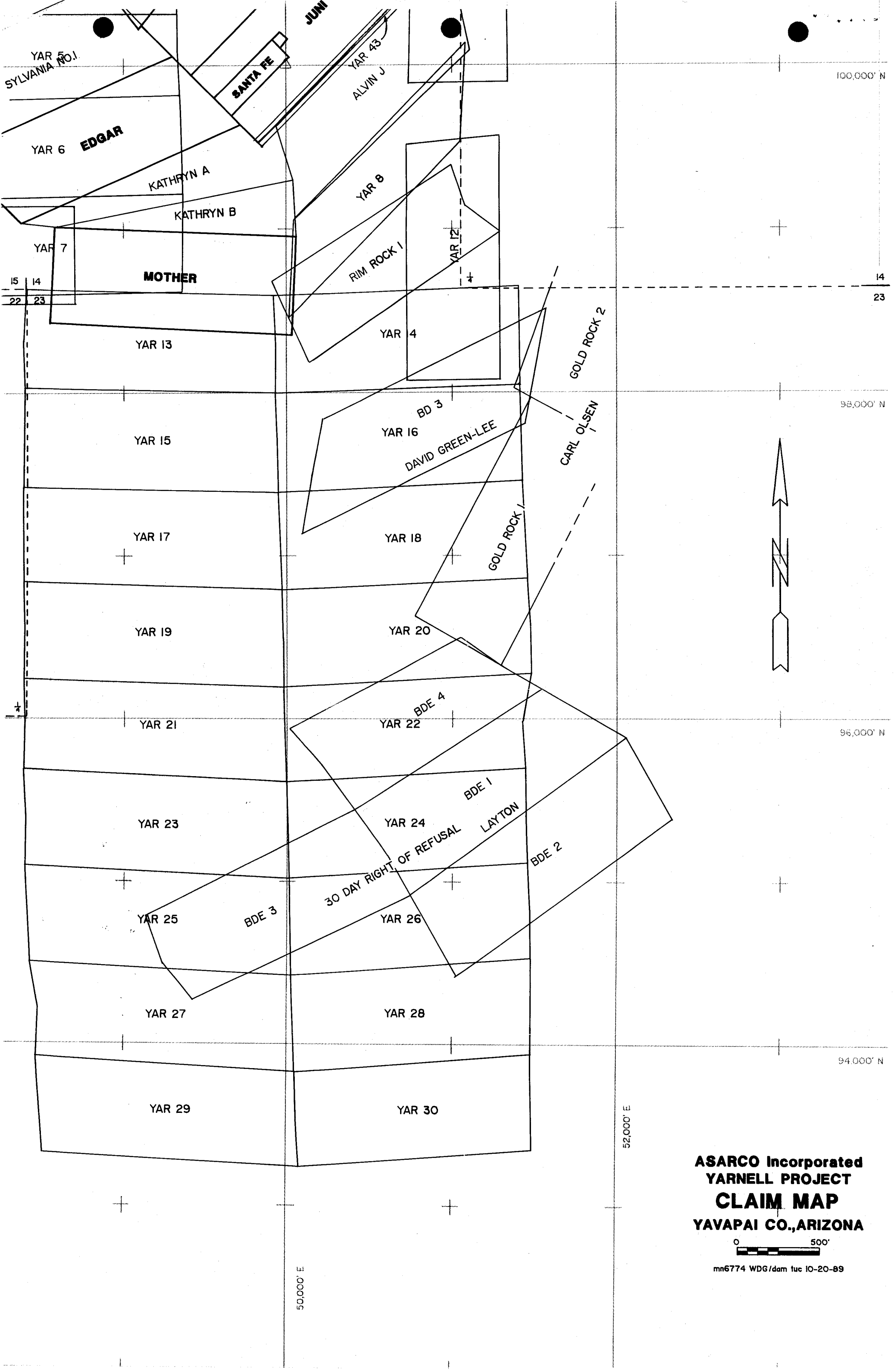
1 N 5 W 23 SW E- 1

REPORT DATE: JUL 11, 1989 UNITED STATES DEPARTMENT OF THE INTERIOR PAGE NO: 4560
ADMINISTRATIVE STATE: ARIZONA BUREAU OF LAND MANAGEMENT PCN: LT892PP1

GEOGRAPHIC INDEX MERIDIAN: GILA-SALT R.
ALL CLAIMS

LEGAL DESCRIPTION TWNSHP	RANGE	SEC	SUBDV	GEO CTY	BLM DIST	SERIAL CASE NO.	TYPE	CLAIM NAME/NUMBER	CLAIMANT(S)	LEAD FILE	COUNTY BOOK;PAGE	LOCATION DATE	LATEST ASSMT-YR	CASE CLOSED
10 N	5 W	23	SW		2	78225*	LD	SKY HIGH #4	LAYTON D C	78211	977;43	8/01/1975	1988	
			NE		25	78227*	LD	THUNDER HILL	LAYTON PRISCILLA BAR BM LIVESTOCK LAYTON D C	78211	941;750	11/22/1974	1988	
			NW		25	82449*	PL	RIM ROCK NO 1	LAYTON PRISCILLA BAR BM LIVESTOCK LAYTON PRISCILLA		154;550	7/07/1948	1988	
			SE		25	101990*	LD	CRAZY HORSE O.K.	LAYTON D C BAR BM LIVESTOCK LAYTON PRISCILLA		1290;244	3/27/1980	1988	
			S2		25	101991*	LD	CRAZYHORSE TOKAY	LAYTON D C BAR BM LIVESTOCK LAYTON PRISCILLA	101990	1290;551	3/29/1980	1988	
			E2		25	118942	LD	BLACK DIKE EXTEN #5	LAYTON D C BAR BM LIVESTOCK LAYTON PRISCILLA		1339;56	11/01/1980	1988	
			N2		25	132393	LD	BLACK DIKE #1	LAYTON D C GOLD DEPOSITORY	132371		4/15/1981	0000	6/22/1983
			N2		25	132394	LD	BLACK DIKE #2		132371		4/15/1981	0000	6/22/1983
			NE		25	132395	LD	BLACK DIKE #4		132371		4/15/1981	0000	6/22/1983
			S2		25	132396	LD	BLACK DIKE EXT #1		132371		4/15/1981	0000	6/22/1983
			S2		25	132397	LD	BLACK DIKE EXT #2		132371		4/15/1981	0000	6/22/1983
			SW		25	132398	LD	BLACK DIKE EXT #3		132371		4/15/1981	0000	6/22/1983
			W2		25	132399	LD	BLACK DIKE EXT #4		132371		4/15/1981	0000	6/22/1983
			NW		25	134010	LD	RIM ROCK #1		133239		4/12/1981	0000	12/06/1985
			NW		25	134011	LD	RIM ROCK #2		133239		4/12/1981	1982	12/06/1985
			NW		25	137270	LD	RIM ROCK #1		137185		5/20/1981	0000	8/16/1985
			NW		25	137271	LD	RIM ROCK #2		137185		5/20/1981	0000	8/16/1985
			SE		25	223428*	LD	GOLD RIDGE #2	GREEN-LEE DAVID			6/25/1984	1988	
WERE BDW 2			N2		25	232182*	LD	GOLD ROCK #1	OLSEN CARL		1670;858	10/18/1984	1988	
& BD#1			NE		25	232183*	LD	GOLD ROCK #2		232182	1670;860	10/18/1984	1988	
			NE		25	234624*	MS	GOLD ROCK			1703;719	3/07/1985	1988	
			N2		25	288941*	LD	SUN #1	NORGOLD RESOURCES	288934	2079;0476	8/09/1988	0000	
			N2		25	288942*	LD	SUN #2		288934	2079;0478	9/09/1988	0000	
			NW		25	288943*	LD	SUN 3B		288934	2079;0480	9/09/1988	0000	
			NW		25	288944*	LD	SUN #4		288934	2079;0482	9/09/1988	0000	11/01/1988
			NW		25	288946*	LD	SUN 6B		288934	2079;0486	9/09/1988	0000	
			NW		25	288947*	LD	SUN 7B		288934	2079;0488	9/09/1988	0000	
			NW		25	288948*	LD	SUN 8B		288934	2079;0490	9/09/1988	0000	
			NW		25	288949*	LD	SUN #9		288934	2079;0492	9/09/1988	0000	
			NW		25	288950*	LD	SUN #10		288934	2079;0494	9/09/1988	0000	
			N2,SW		25	288951*	LD	SUN #11		288934	2079;0496	9/09/1988	0000	
			ALL		25	288952*	LD	SUN #12		288934	2079;0498	9/09/1988	0000	
			NE,S2		25	288953*	LD	SUN #13		288934	2079;0500	9/09/1988	0000	

* * 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.


JUNI
SANTA FE
YAR 5
SYLVANIA NO.1
YAR 43
ALVIN J
100,000' N
YAR 6
EDGAR
KATHRYN A
KATHRYN B
YAR 8
YAR 7
MOTHER
RIM ROCK 1
YAR 12
15
14
22
23
14
23
YAR 13
YAR 14
GOLD ROCK 2
BD 3
YAR 16
DAVID GREEN-LEE
CARL OLSEN
98,000' N
YAR 15
YAR 17
YAR 18
GOLD ROCK 1
YAR 19
YAR 20
BDE 4
YAR 21
YAR 22
96,000' N
BDE 1
YAR 23
YAR 24
LAYTON
30 DAY RIGHT OF REFUSAL
BDE 2
YAR 25
BDE 3
YAR 26
YAR 27
YAR 28
94,000' N
YAR 29
YAR 30
52,000' E
50,000' E
ASARCO Incorporated
YARNELL PROJECT
CLAIM MAP
YAVAPAI CO.,ARIZONA
0
500'
mn6774 WDG/dam tuc 10-20-89

ASARCO

Southwestern Exploration Division

JDS

November 1, 1989

W.D. Gay

Green-Lee & Olsen Claims
Yarnell Project
Yavapai County, Arizona

Mr. S.L. Lakosky has stated that he believes that the three claims -- BD-3, Gold Rock 1 and Gold Rock 2 -- may be impacted by mining operations and should be in the packet of available land to Asarco.

M.A. Miller will initially contact both Green-Lee and Olsen to determine what their interest is in an option-sale of their claims.

No further input needs to be implemented at this time until Miller reports back with his information.

James D. Sell

JDS:mek

James D. Sell

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

JDS/WLK FILE

ASARCO

Mineral Beneficiation Department

RECEIVED
NOV 1 1989
EXPLORATION DEPARTMENT

November 1, 1989

Mr. S. L. Lakosky
Mine Superintendent
MISSION UNIT

Specific Gravity Determination
on Yarnell Samples

Attached are the results of specific gravity determinations by McClelland Laboratories on Yarnell grab samples (see memo by M. Miller dated September 8, 1989) plus determinations by Metcon on diamond drill hole No. YDDH-1 (see M. Miller's memo dated October 6, 1989).

The Torbal balance values reported by Metcon are probably the most accurate and average 2.66 gm/cm^3. This compares with an average of 2.55 gm/cm^3 for the McClelland results.

These figures translate into bulk volumes of 12.05 ft^3/ton for 2.66 gm/cm^3 and 12.56 ft^3/ton for 2.55 gm/cm^3.

D. E. Crowell

DEC:brw

Attachment

cc: T. E. Scartaccini w/att.
J. D. Sell/W. L. Kurtz "
M. A. Miller "

Table 1. - Bulk Density Measurements, Yarnell Core Samples

Sample	Specific Density	Bulk Density, lb/ft³	Bulk Volume, ft³/ton
YSG-1	2.61	162.9	12.28
YSG-2	2.60	162.3	12.33
YSG-3	2.57	160.4	12.47
YSG-4	2.55	159.1	12.57))
YSG-5	2.58	161.0	12.42
YSG-6	2.60	162.3	12.33
YSG-7	2.36	147.3	13.58
YSG-8	2.46	153.5	13.03
YSG-9	2.45	152.9	13.08
YSG-10	2.57	162.0	12.47
YSG-11	2.62	163.5	12.23
YSG-12	2.59	161.6	12.37

$\frac{30.56}{12} = 2.55$

METCON Research Inc.

1844 W. Grant Road, Suite 106
Tucson, Arizona 85745

Tel: (602) 623-1327
Telex 284623 KDE UR

16 October 1989
EI-071-89

MINERAL
1989
BENEFICIATION DEPT.

ASARCO
1150 N. 7th Ave.
Tucson, AZ 85703

Attention: Mr. Don Crowell

Subject: Density Determination on Drill Core Samples

Dear Don:

On 9 October, 1989 a suite of 3 drill core samples labeled with the prefix YDDH-1 were delivered to Metcon Research Inc. by ASARCO representatives. Apparent density determinations were conducted on prepared specimens by two different methods. The results obtained and the procedures employed are outlined in this letter report.

The results obtained from this study are tabulated below. The method employed, the density range and statistics are given for each sample tested.

TABLE 1 ORE DENSITY

Interval Sample Description	Method	Density Range (gram/cm^3)	Avg.	Std. Dev.
YDDH-1				
114.3 - 115	Torbal balance	2.64 - 2.70	2.67	0.0250
	Graduated cylinder	2.54 - 2.71	2.64	0.0709
YDDH-1				
257 - 257.5	Torbal balance	2.58 - 2.62	2.60	0.0191
	Graduated cylinder	2.36 - 2.65	2.50	0.167
YDDH-1				
301 - 301.65	Torbal balance	2.68 - 2.75	2.70	0.0311
	Graduated cylinder	2.49 - 2.67	2.58	0.104

The results obtained indicate that the samples tested showed densities ranging from 2.5 to 2.7 grams/cm^3. The standard deviation indicates that the torbal balance method provided more accurate and consistent results.

The tabulated data includes determinations conducted in duplicate on wax coated and uncoated specimens. All the density determinations were done by volume displacement using two different methods. The experimental data is attached hereto as Table 2.

We await your comments on this report and should you have any questions regarding the information contained herein, please do not hesitate to contact us.

Very truly yours,

Eugenio Iasillo

Eugenio Iasillo
Process Engineer

EI:rs

TABLE 2 ORE DENSITY DETERMINATIONS

Trial	Sample Description	W (gram)	P (gram)	S (gram)	V_1(ml)	V_2(ml)	V(ml)	B(g/ml)
1	1A	122.17					45.00	2.71
	1Wax	66.43	68.13		27.00	1.92	25.08	2.65
	2A	132.65					50.00	2.65
	2Wax	62.21	63.64		28.00	1.62	26.38	2.36
	3A	146.69					55.00	2.67
	3Wax	71.04	72.33		30.00	1.46	28.54	2.49
2	1B	94.24		59.40			34.84	2.70
	1Wax	66.43	68.13	41.25	26.88	1.92	24.96	2.66
	2B	97.22		60.05			37.17	2.62
	2Wax	62.21	63.64	38.10	25.54	1.62	23.92	2.60
	3B	115.05		72.50			42.55	2.70
	3Wax	71.04	72.33	44.55	27.78	1.46	26.32	2.75
3	1A	122.17					48.00	2.54
	1Wax	66.43	68.13		27.00	1.92	25.08	2.65
	2A	132.65					50.00	2.65
	2Wax	62.21	63.64		28.00	1.62	26.38	2.36
	3A	146.69					55.00	2.67
	3Wax	71.04	72.33		30.00	1.46	28.54	2.49
4	1B	94.24		59.01			35.23	2.67
	1Wax	66.43	68.13	41.10	27.03	1.92	25.11	2.64
	2B	97.22		60.12			37.10	2.62
	2Wax	62.21	63.64	37.94	25.70	1.62	24.08	2.58
	3B	115.05		72.31			42.74	2.69
	3Wax	71.04	72.33	44.41	27.92	1.46	26.46	2.68

K = density of wax (g/ml) = 0.885
W = Initial wt. (g)
P = Wax coated wt. (g)
S = Suspended wt. (g)
V = Vol. (ml) = V_1-V_2
V_1= Vol. including wax (ml) = P-S
V_2= Vol. wax = (P-W)/K
B = Bulk density = W/V

Notes:
1. All A samples were conducted by the graduated cylinder method. B samples were done by the balance method.
2. Trials 1 and 2 were conducted on 10-9-89. Trials 3 and 4 were conducted on 10-10-89.
3. Samples 1, 2 and 3 correspond to 100, 200, 300 interval samples respectively.

ASARCO

Mineral Beneficiation Department

EDS/WLK

FILE

Copy to N.Y.

RECEIVED

NOV 1 1989

EXPLORATION DEPARTMENT

November 1, 1989

Mr. S. L. Lakosky
Mine Superintendent
MISSION UNIT

Yarnell Project Testwork

I visited McClelland Laboratories on October 26, 1989, in order to evaluate the present status of the tests and to initiate the low grade testwork. The present status of the three column leach tests is shown below.

We have received the assay screen analyses of the heads for the 6-inch and 3/8-inch size columns (copies attached) and the calculated heads for these columns are somewhat lower (0.059 and 0.053 opt respectively) than the overall head assay of 0.063 opt; so, based on these numbers, the indicated recoveries have increased somewhat from previously reported recoveries. It is felt that the assay screen analyses are more accurate than the initial head assay but the true recoveries obtained in these columns will not be known until we have the assay screen analyses of the tailing.

CURRENT COLUMN STATUS

6-inch Size

This column has been under leach for 66 days and will continue for one or two more weeks. Indicated recovery to date is 45%.

2-inch Size

This column has been under leach for 56 days and will continue for one or two more weeks. We have not yet received the head assay screen analyses for this column but, based on the average of the other two columns' head assay screen analyses, the indicated recovery is 55%.

3/8-inch Size

This column has been under leach for 56 days and will be terminated at day 60. The pregnant solution grade from this column has fallen far below economic levels. Indicated recovery to date is 68%.

This column will undergo an extended wash cycle to obtain environmental information (see below) so we will not be able to obtain tailing assay screen analyses for another month.

The environmental testwork on the 3/8-inch column is described below. This entire procedure will not be necessary for all columns but is being done at this time to obtain as much information as possible to point out any possible problem areas.

Environmental Work

1. Wash for 15 days (or longer if wash solution still shows measurable cyanide) and assay each day's wash solution for total, free, and weak acid dissociable (WAD) cyanide.

2. Assay washed tailing for total and WAD cyanide.

3. Perform EP toxicity test on tailing for total threshold limit concentration and soluble threshold limit concentration.

The underground low grade testwork was initiated. This consists of the following:

1. One column at 3/8-inch size to determine expected recovery from this material if treated the same as normal ore.

2. One "simulated coarse column" at 6-inch size. This is done on a 700-pound sample in a 55-gallon plastic drum. Leaching is accomplished by alternately flooding and draining the ore. Although not as accurate as a column, this test will give us some indication of the leachability of the low grade at a coarse size.

It is absolutely necessary that we obtain some data on leaching this low grade as soon as possible since we must assume some method of dealing with this material for the pre-feasibility study.

D. E. Crowell

DEC:brw
Attachment
cc: R. J. Kupsch w/o att.
T. E. Scartaccini " "
J. D. Sell/W. L. Kurtz w/att.
M. A. Miller "
P. J. Maley w/o att.

TABLE . - HEAD SCREEN ANALYSIS, H.G./L.G. BULK ORE COMPOSITE, YARNELL 6 INCH FEED

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	0.039	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, H.G./L.G. BULK ORE COMPOSITE, YARNELL 3/8 INCH FEED
* SAME HEADINGS *

+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	

All Silver assays < 0.10 opt Ag

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,

William D. Gay

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

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

INDEXED &
MICROFILMED

AFFIDAVIT OF LABOR PERFORMED AND IMPROVEMENTS MADE

STATE OF ARIZONA)
) ss
County of Pima)

Bk Map Pg

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	

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

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, 1992

BOOK 2192 PAGE 86

ASARCO

Southwestern Exploration Division

JDS

November 4, 1989

J.D. Sell

Dave Green-Lee Unpatented Claim
BD-3, Section 22, T10N, R5W
Yarnell Project
Yavapai County, Arizona

As requested, I approached Dave Green-Lee about selling his claim BD-3. He has agreed to sell it for $5000. I told him we would buy it for that price and to gather the necessary papers (assessment, chain of title, legal description, etc.) and I would talk with him upon my return from Reno.

M.A. Miller /mek

MAM:mek

Mark A. Miller
Project Geologist

P.S. I have not yet had an opportunity to talk with Carl Olsen.

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

ASARCO

Southwestern Exploration Division

JDS

November 6, 1989

FILE MEMORANDUM

Tons Ore Removed from
Main Zone Mineralization (Est.)
Yarnell Project
Yavapai County, Arizona

On rereading my memo of October 31, 1989, on the above subject, where I stated that an estimated 250,000 tons of 0.051 opt gold has been removed, I should state that the 0.051 opt gold is not the historic grade removed, but is what I will use as the grade in my calculations.

This figure of 0.051 opt gold was calculated as follows:

a.) In each drill hole, the stope space was assigned the average of the remaining values within the zone. If 50 feet of section ran 0.061 and an additional 25 feet had been stoped in the interval, then I used 75 feet of 0.061 in calculating the tonnage-grade within the zone. Thus each drill hole was calculated.

b.) All the drill holes within the stoped area contained a weighted average of 0.051 opt gold.

c.) As I have calculated, the entire main or "B" zone as to tonnage-grade, to include the stoped area as stated in item a.) above, then when I calculate the remaining tonnage-grade in the main zone, it will only be necessary to subtract the weighted tonnage-grade which was estimated by the same method, to arrive at the present tonnage-grade available.

James D. Sell

James D. Sell

JDS:mek

cc: W.L. Kurtz
R.L. Brown
F.T. Graybeal
L.J. Jansen
S.L. Lakosky
M.A. Miller
W.D. Gay

ASARCO Southwestern Exploration Division

JDS

November 6, 1989

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James D. Sell

James D. Sell

JDS:mek

cc: W.L. Kurtz
R.L. Brown
F.T. Graybeal
L.J. Jansen
S.L. Lakosky
M.A. Miller
W.D. Gay

ASARCO Southwestern Exploration Division

JDS

October 10, 1989

J.D. Sell

Open Stope Tabulation
Yarnell Project
Yavapai County, AZ

At my request J. Malusa has tabulated the open stopes/questionable muck samples for all the drill holes to date (thru YM-94).

	Hole #	No Sample	Stope	Muck or Questionable Sample
20	YM-1 x	100 - 120		120 - 125
40	YM-2 x	200 - 240		240 - 255
15	YM-3 x	147 - 150		150 - 160
35	YM-5 x	295 - 330		
10	YM-7 x	220 - 228		220 - 230
5	YM-9 x	40 - 42.5		
15	YM-12 ✓ x	183 - 190		190 - 195
30	~~YM-16~~ ✓ x	55 - 70		70 - 85
10	YM-24 ✓ x	65 - 75		
15	YM-55 x	150 - 158		158 - 165
15	YM-57 x	47 - 60		60 - 63
15	YM-61 x	175 - 180		180 - 190
40	YM-62 x	246 - 285		285 - 293
	~~YM-63~~ x			180 - 190 — why are these?
15	YM-76	75 - 90	75 - 83	83 - 95
15	YM-77	107 - 120		107 - 125
20	YM-83	205 - 225	205 - 210	210 - 225
60?	YM-91	105 - 125	105 - 120	120 - 125
		130 - 140	130 - 140	all are suspect!
		150 - 155	150 - 155*	
30	YM-94	127 - 135	127 - 129	129 - 140

* Stope may extend to a greater depth; however, hole abandoned due to risk of losing pipe and bit.

x report of Sept 5, 1988, MAM
✓ report of July 11, 1989, MAM

Mark A. Miller

MAM:mek

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

10-30-89
W.W.D.

STOPE TONNAGE

STOPE OUTLINE METHOD

1851 (Vellum)
1843 (Plan View)

1847 → $\frac{102}{1847} = \frac{10,000}{X}$

$X = \frac{181,078 \times 23}{12} = 347,067 \times .75 =$ 4,144,794

= 260,300 TONS

18" = 203,700 TONS

BY SQUARES

1924 Vellum
1941 X-sect
1933

→ $\frac{102}{1933} = \frac{10000}{X} =$

$X = \frac{1895098 \times 23}{12}$ 4,358,730

363,227 x .75

= 272,420 TONS

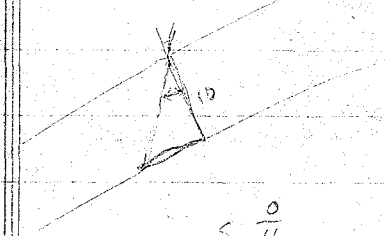
18" = 213,200 TONS

Planimeter

4,370,

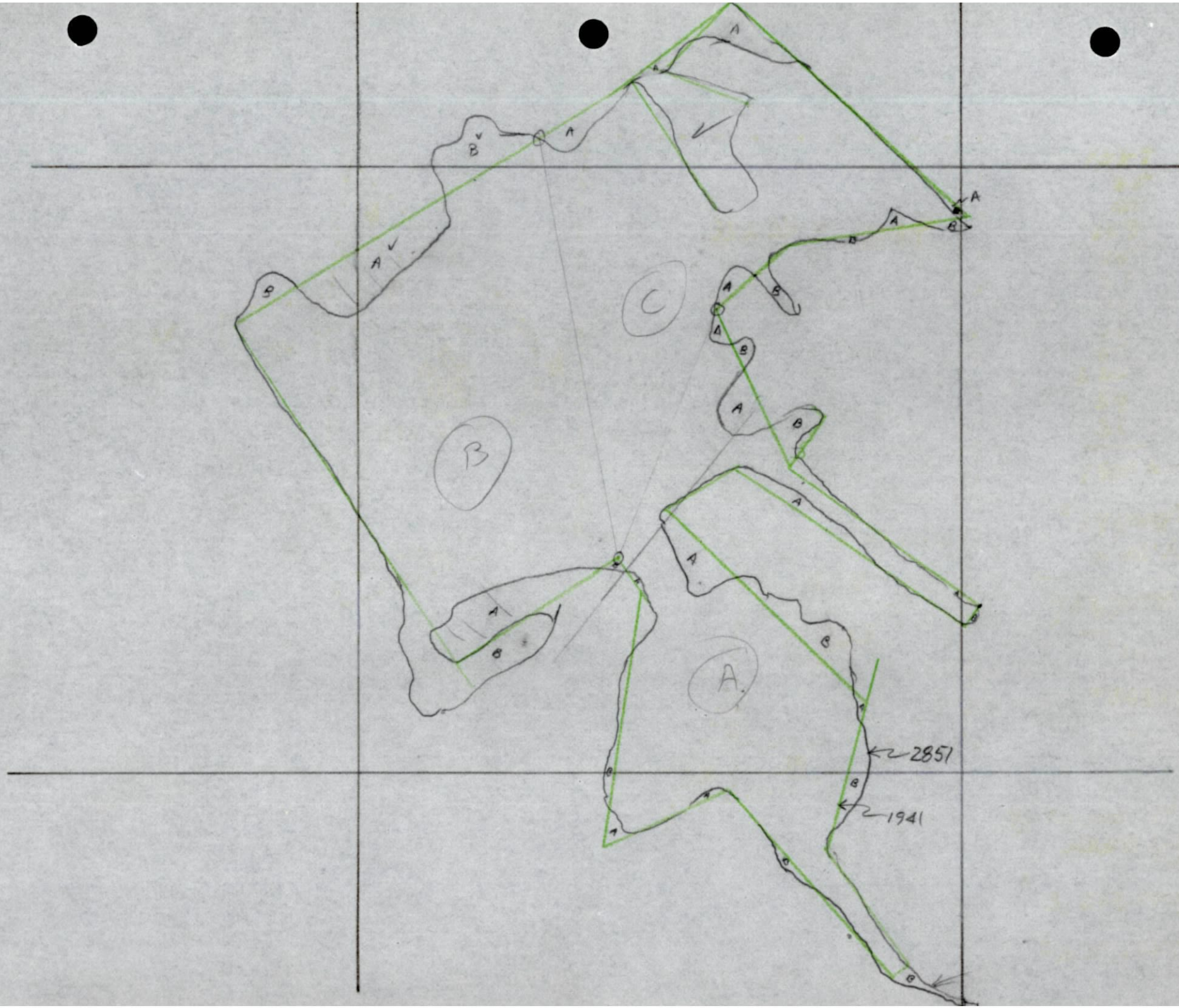
USE 250,000 TONS

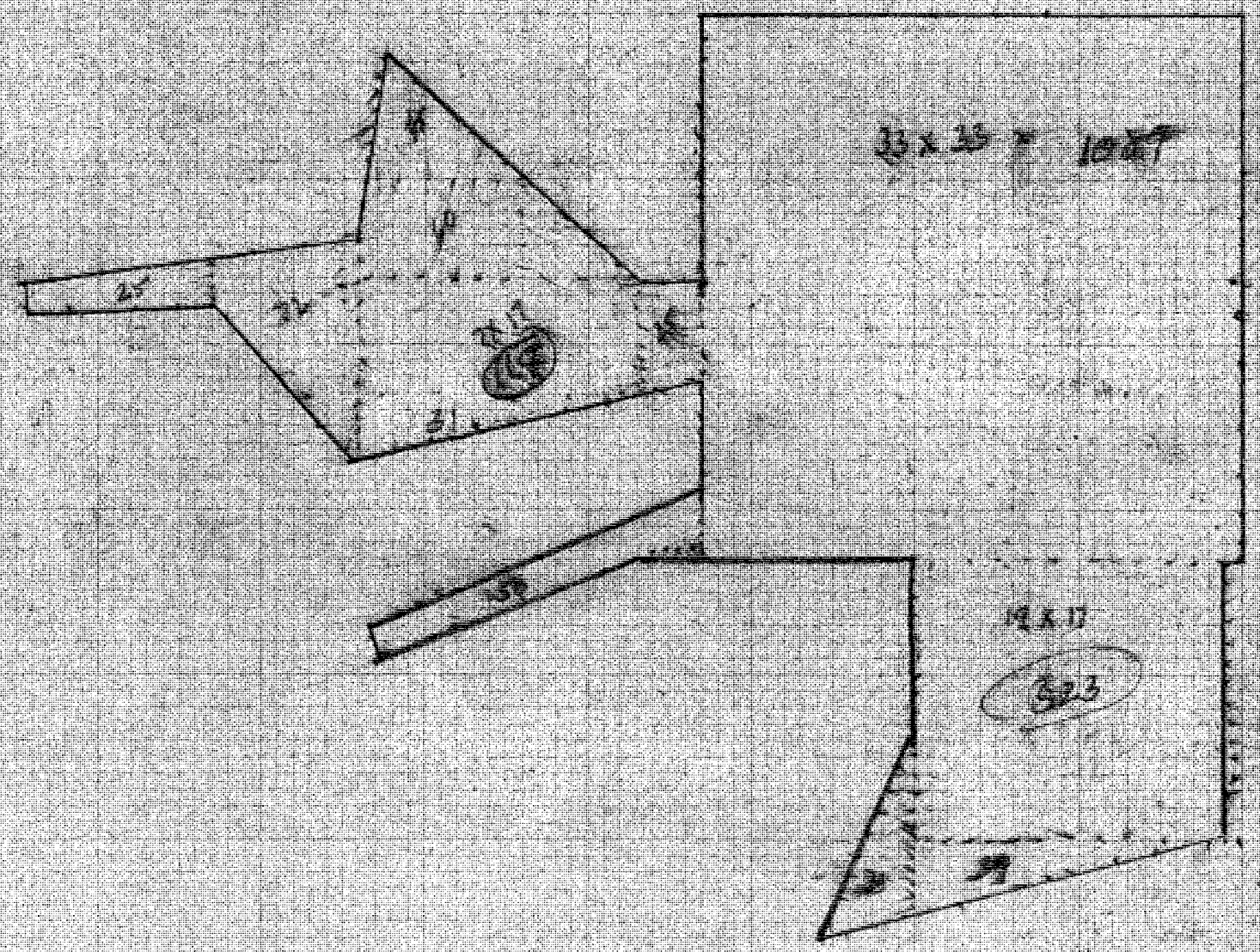
190,000
181,000
189,510



S 0/11
C
7

22x
400,00 lber.
20'


A
B
C
2851
1941



1089
35
60
109
25
21
72
25
60
25
39
21

1800 x 10 ft

= 18,000 ft²

× 28' h'

= 504,000 ft³

÷ 12

= 42,147 ton

4,370,000 ft³

(4,000,000 ft³ + 370,000)

= 3,277,500 ÷ 12

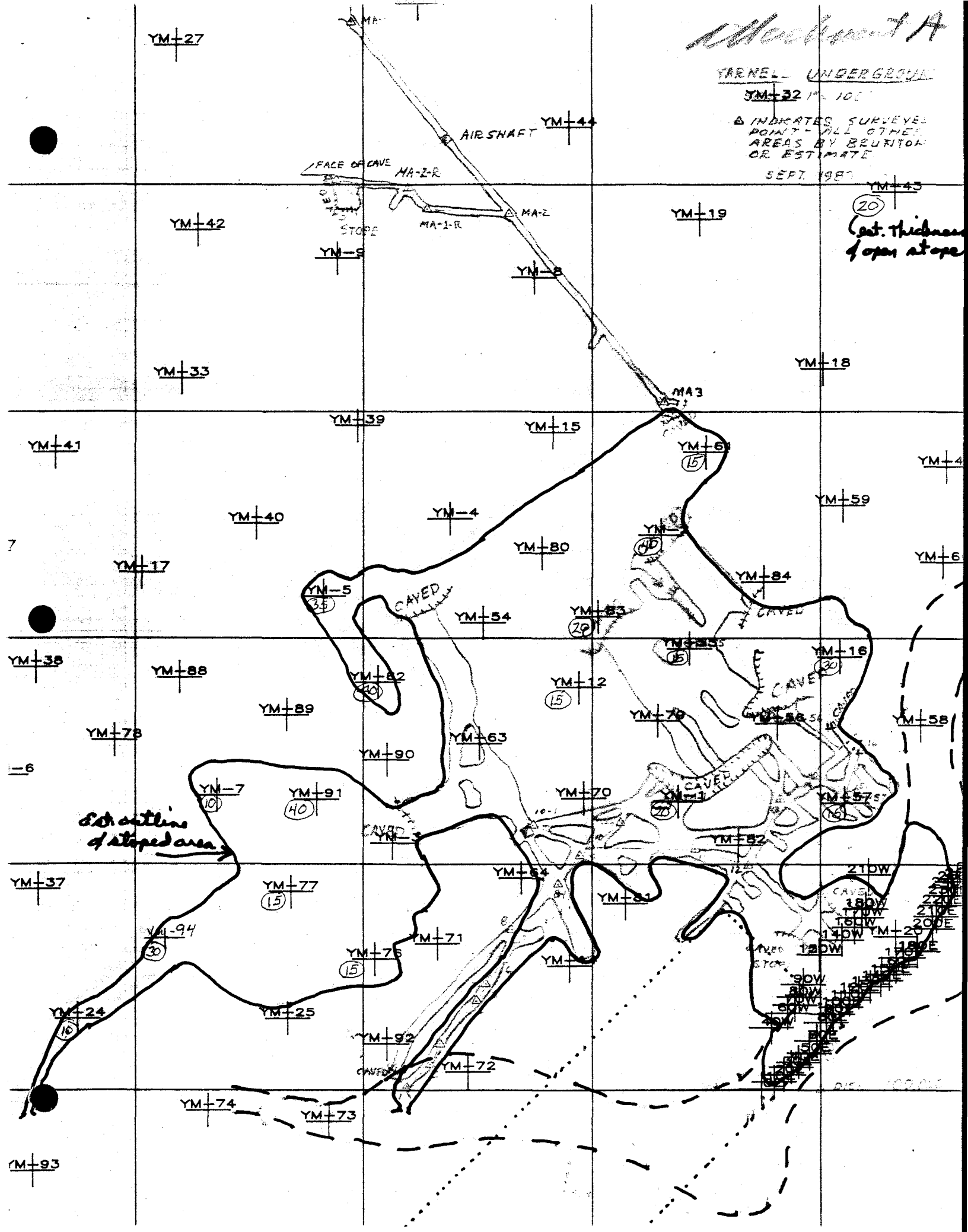
= 273,125 ton

Attachment A

YARNELL UNDERGROUND

△ INDICATES SURVEYED POINT - ALL OTHER AREAS BY BEARINGS OR ESTIMATE

SEPT. 1987

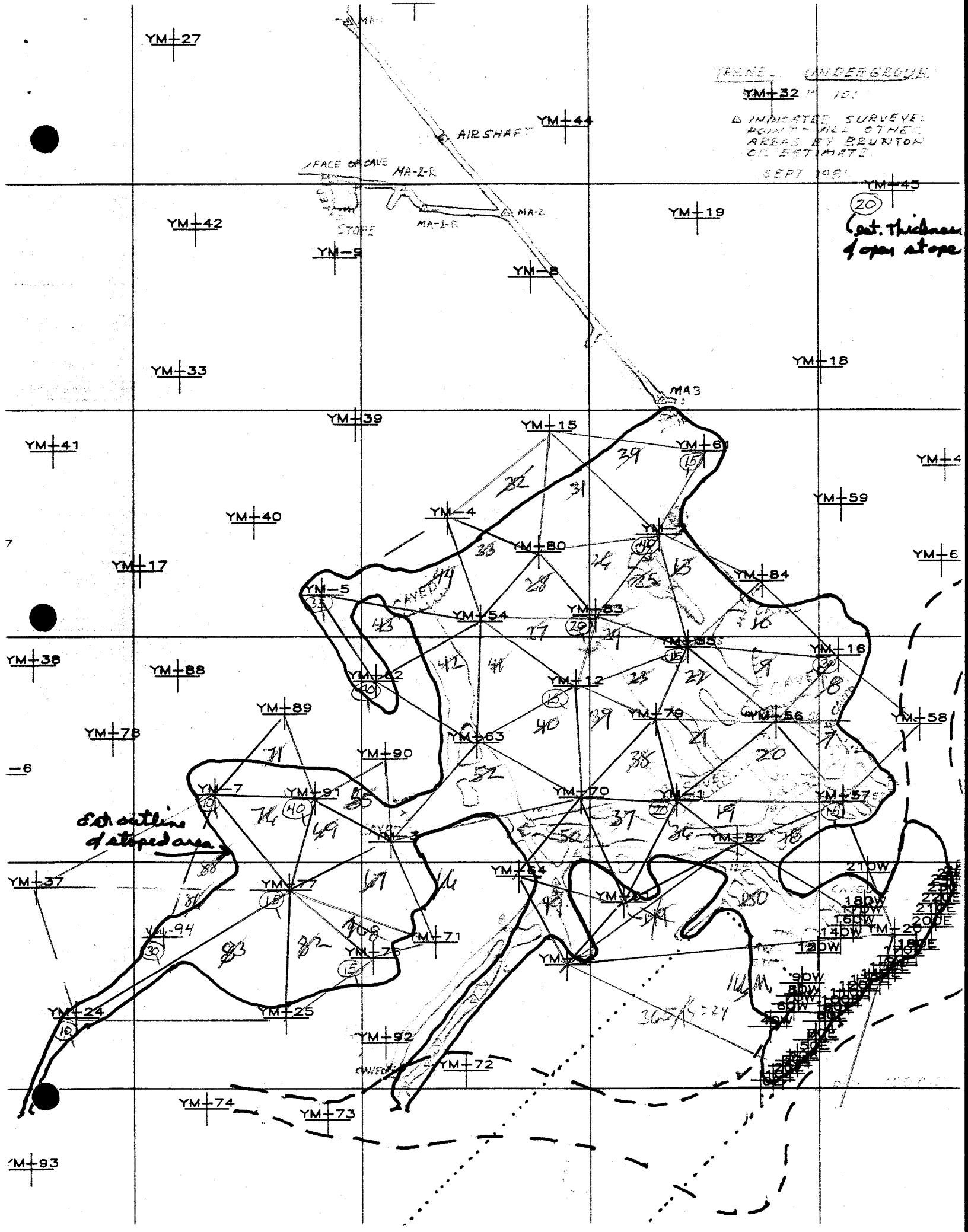


at 12.5

Δ#	Δ#	tons x grade		
~~29~~	~~½~~ 7	11,935-.051	43	44,103-044
~~31~~	½ 8	9576-.054	44	42,840-045
½ 32	9	18,575-.054	49	11,553-049
~~33~~	10	17,450-050	50	11,010-049
	13	24,674-051	52	33,154-064
	18	23,910-051	55	14,925-058
	19	13,526-047	67	27,224-078
			68	9,929-075
	20	20,440-054	69	19,643-053
	21	15,241-057	71	21,245-050
	22	16,474-055	76	17,084-047
	23	14,938-045	82	14,490-049
	24	20,550-044	83	44057-047
	25	29,896-048	½ 84	31,008-056
	26	23,208-045	½ 88	25,730-044
	27	22,459-046	~~½ 150m~~	
	28	18,560-047	½ 150	30,047-049
	29	53,366-039	½ 166M	34,104-049
	31	44,584-040		
	32	27,152-036		
	33	14,423-047		
	34	15,048-054		
	37	15070-050		
	38	12,387-045		
	39	14,444-039		
	40	26,544-056		
	41	35,081-059		
	42	37,983-058		

1,037,900 Tons at 0.051

two Oz 52,725 @ 062


YM-27
YM-44
YM-32
YM-43
YM-42
YM-19
YM-9
YM-8
YM-33
YM-18
YM-39
YM-15
YM-61
YM-41
YM-4
YM-59
YM-40
YM-80
YM-84
YM-17
YM-6
YM-5
YM-54
YM-83
YM-16
YM-38
YM-88
YM-12
YM-79
YM-56
YM-58
YM-89
YM-78
YM-63
YM-90
YM-7
YM-91
YM-70
YM-57
YM-37
YM-77
YM-64
YM-94
YM-71
YM-76
YM-24
YM-25
YM-92
YM-72
YM-74
YM-73
YM-93
AIR SHAFT
FACE OF CAVE
MA-2-R
MA-2
MA-1-R
STOPE
MA3
INDICATED SURVEYED POINTS ALL OTHER AREAS BY BRUNTON OR ESTIMATE
SEPT 1981
(20)
Est. thickness of open stope
Est. outline of stoped area
CAVED
210W
180W
170W
160W
140W
120W
90W
80W
60W
40W
150E
200E

ASARCO

Exploration Department
Southwestern United States Division

November 6, 1989

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

Yarnell Project
Yavapai Co., AZ

Dear Jerry:

Enclosed is a copy of the affidavit of labor we discussed last week. If you agree, it will be sent out as soon as we hear from you.

Sincerely yours,

William D. Gay

William D. Gay
Land Engineer, SWED

WDG:mek
Enc.

cc: W.L. Kurtz
J.D. Sell

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 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 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 mining claims for the assessment year ending at 12:00 o'clock Meridian, September 1, 1989.

ASARCO Incorporated

By_____
Agent

STATE OF ARIZONA)
) ss
County of Pima)

On the _____ day of _____, 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.

_____
Notary Public

My Commission Expires:

_____

JDS

ASARCO

Southwestern Exploration Division

VIA FAX

November 7, 1989

R.L. Brown
New York

Yarnell Project EA-0444
Yavapai County, Arizona

Estimated Expenses thru Dec. 31, 1989

Total Authorization (EA-0444-03)		$570,000
Expenses thru September 1989		505,544
Unexpended Balance		$ 64,456

Expenses to be paid:

1.	Drilling, Rotary & Core	$ 95,000	
2.	Assaying	15,000	
3.	Site preparation, clean-up	14,000	
4.	Metallurgy	25,000	
5.	Asarco Supervision, et al	53,000	
6.	Payment, Norgold (1/1/90)	20,000	
7.	Payment, Western Bldg (mo. + 1/1/90)	103,000	
8.	Payment, Heintzelman (12/30/89)	5,000	
9.	Payment, Harper-Hoyt	1,500	
10.	Purchase claims, Green-Lee	5,000	
11.	Legal fees, taxes, etc.	28,000	
			(364,500)
Request on SEA			$300,000

James D. Sell

JDS:mek

James D. Sell

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

11-7-89

Yarnell Project

12.0 cu ft/ton factor

Total Waste above "B" = 12.67 mill tons

"A" Zone above "B" = 2.76 mill tons at 0.017

9.91 mill tons

"B" Zone 4.28 mill at 0.051

− .25 mill at 0.051

4.03 million at 0.051

Waste/Ore ratio not using "A" = 12.67/4.03 = 3.14 w/o

Waste/Ore ratio Using "A" as ore = 9.91/4.03 + 2.76 = 1.46 w/o
6.79

Ave height of "B" Zone ⊥ to dip is 50'.

revised

11-7-89

Total Drilling

8,220
7,390
5,370

1	220	29	280	57	120	85	100
2	350	30	315	58	90	86	155
3	250	31	440	59	180	87	380
4	440	32	260	60	110	88	400
5	355	33	410	61	250	89	390
6	400	34	150	62	320	90	320
7	295	35	100	63	240	91	150
8	350	36	180	64	200	92	160
9	350	37	230	65	135	93	100
10	300	38	340	66	60	94	195
11	260	39	360	67	90	95	420
12	240	40	400	68	130	96	575
13	280	41	450	69	400		24,325
14	160	42	410	70	190	ave depth	253.4'
15	350	43	140	71	160	DDH 1	350
16	150	44	310	72	150	2	400
17	450	45	120	73	90	3	325
18	250	46	300	74	160	4	220
19	300	47	320	75	220		1,295
20	200	48	220	76	175		ave 323.75'
21	200	49	220	77	215		
22	300	50	85	78	350		
23	140	51	240	79	220		
24	150	52	200	80	320		
25	160	53	150	81	170		
26	450	54	340	82	140		
27	440	55	220	83	285		
28	350	56	180	84	200		
	8,220		7,390		5370		

Expenses thru September 1989 505,544

Total Authorized (0444-03) 570,000

Unexpended Balance 64,456

Drilling Rotary

Drilling Core

Metallurgy

Geology - reports 20K + 3K + 4 1/2K + 10K SBS =

Land: Western Building (3 mo @ 1,000 ?? + 100,000 Jan 1) 103,000 ✓

~~+5,000 Oct 1 1989~~ pd.

Norgold 20,000 Jan 1 1990

Heinemann 5,000, (Jan 1, 1990) ✓

to buy: Green-Lee (Black Hills, unpat) 5,000 ✓

Harper (Hoyt & Greenbur Norgold) (payment to-) 1,500 ✓ (all to move to)

Boyles Brothers:	DH-1	drilling	9024
Sent to Acct 10/20	DH-1	supplies	1883
10/25	DH-2	drilling	4148
"	"	supplies	835
"	DH-2b3	drilling	6103
"	DH-2b3	supplies	2625
11/6	DH-4	drilling	3710
"	"	supplies	1538
			29,896 ✓

Assaying (Triad)

9/21	703
"	700
"	710
9/29	773
"	796
"	823
"	820
"	357
"	623
"	936
10/2	803
"	97
"	237
"	623
10/6	1425
10/18	440
10/25	74
	10,840

DSCo drilling services	10/3	(8-24/9-23)	27,633	
"	10/23	(9-11/10-9)	33,628	
				61,261 ✓

30
42/43

YOU	9/29	Terex etc.	2520	
"	10/10	"	3230	
"	10/18	"	2305	
				8055 ✓ + 6000
Melton	10/4	density	400	
				400

15,000

McClelland	10/27		5710	
"	10/31 (Thru Sept)		13,060	
				18,770 + 7 = 25K ✓

Original 25K + (7K? extra) + 13,000 yet to be billed →

CGS	supplies	9/29	574	
		10/13	4,638	
		10/11	33	
				5,245 ✓
W D Gray	10/12	Services	750	
				750
Western Air Maps	10/19	extra strip	4290	
				4290
Cipher Cipher Hassenfeldt Hunts	10/20		4869	
				4869 + Sam = 10K

Yarnell Gas	122	
Telephone	361	(5K)
Water	700	
		1183

Farnell EA # 0444

SOUTHWESTERN EXPLORATION DIVISION

26th _____ thru
25th Oct., 1989

MONTHLY COST SUMMARY

_____ Project, _____ (County), _____ (State)

A. DIRECT DRILLING (Acct. 521-)

CONTRACTORS' CHARGES

Invoiced during month covering prior month's work

Contractors' Services

(Invoice Amt.) _____
(Prior month's estimate) _____ _____

(Invoice Amt.) _____
(Prior month's estimate) _____ _____

Invoiced during month covering current month's work

Contractors' Services	Statement Amt.	
Boyles Bros. Drilling	24 617.25	
Drilling Services	61 260.82	
YOU	5750.—	91,628.—

Estimated balance of contractors' charges covering work through 25th of current month

Contractors' Services	Statement Amt.	

Supplies and Freight

_____ _____
_____ _____ _____

Field Trailer Rental _____ _____

Water Purchases (Drilling) _____ _____

Surveying of Drill Holes _____ _____

B. SITE PREPARATION (Acct. 580-)

CONTRACTORS' CHARGES

Invoiced during month covering prior month's work

Contractor's Services

(Invoice Amt.) _____
(Prior month's estimate) _____ _____

Invoiced during month covering current month's work

Contractor's Services	Statement Amt.	

Estimated balance of contractor's charges covering work through end of current month

Contractor's Services	Estimated Cost	

Supplies and Freight

_____ _____
_____ _____ _____

1b rev. 1/06/81

0444

C. FIELD ADMINISTRATION (Accts. 530-, 540-, 550-, 570-, 610-)

Salaries

Name		No. Days Allocated to Project During Month (show as ratio to total working days in month, i.e., 24/26)	
MAM	24 days	4041.-	
JJM	21 days	2555.-	
			6596.-

Wages

Name	No. of Straight Time Hours During Month	No. of Overtime Hours During Month	
Keehner	1875.-		
			1875.

Traveling and Living Expenses - ASARCO Salaried Personnel

Name	Estimated or Actual Traveling Expenses Incurred During Month	
JJM	1600.-	
MAM	1235.-	
		2835.-

Supplies - Itemize individual purchases of $25.00 or more - group small purchases under Misc.

Item	Cost	
CGS INC	642.75	
		643.

Assaying

Assayer	Charge or Estimated Expense for Assaying Performed During Month	
McCLELLAND LABS	5710.-	
Triad	8727.-	
		14437.-

Freight

Carrier	Charge	

0444

C. FIELD ADMINISTRATION - Continued

Field Administration Expenses

Item	Cost	
Office or Core Shed Rental		
Electrical Service	100.—	
Gas Service		
Water Service	100.—	
Telephone Service	500	700.—

D. GENERAL ADMINISTRATION (Accts. 620-, 641-)

Salaries

Name	No. Days Allocated To Project During Month (show as ratio to total working days in month, i.e., 24/26)	
JDS 12 days	3108	3108.—

Transportation - Company Vehicles

Vehicle License	Miles Driven Chargeable to Project During Month	
JDS	150.—	150.—

Drafting Dept. Expense

Salaries & Wages DAM 17 days	2703.—	2703.—
Supplies		

E. MINERAL PROPERTY (Accts. 501- thru 507-)
Includes legal fees & taxes; claim staking & validation; State Land rental payments

Description	Amount	
apker Apker	4869.30	
Western Air Maps	4290.—	
WD Gay - rent Rental Equip	750.—	
TAX Payments - West Bldg.	896.94	
" " Heinrichs	366.95	12221.—
AJ Roman West Bldg payment	1000.—	
Assess Alvin Claims Rec/BLM	34.—	
" Green Rock Rec.	14.—	
TOTAL		136,896.—

Form completed by: _____

JDS

ASARCO

Southwestern Mining Department

ASARCO Incorporate

NOV 9 1989

SW Exploration

November 9, 1989

MEMORANDUM

TO: T. E. Scartaccini

FROM: S. L. Lakosky

RE: Yarnell Project Activity Chart - October, 1989

Attached is the Yarnell Project Activity Chart showing progress through October, 1989.

Expenditures prior to delivery of the completed feasibility study will be limited to those necessary to obtain; an adequate land position, a sufficient understanding of the ore deposit and its metallurgy, and reasonable estimates of capital and operating costs. The estimated completion date of the feasibility study is March 1, 1990.

Recently, we gained a better understanding of the new permitting regulations and procedures required to place a new project such as Yarnell into operation. The Aquifer Protection Permit (APP) application can only be submitted after a detailed hydrogeologic characterization study has been completed, and after detailed engineering and designing have been completed for all portions of the project which might conceivably affect surface or groundwater quality. The Ray Unit recently spent $300,000, excluding legal fees, on a hydrogeologic characterization study and engineering design work for a new tailings impoundment. Therefore, similar studies and tasks will not be undertaken for the Yarnell Project until after the final feasibility study (if positive) is completed.

Assuming the hydrogeologic study and detailed engineering and designing will take a minimum of two months to complete, the earliest commercial production would be May, 1991. This "best case" start-up scenario assumes that no public hearings will be held and that an Environmental Impact Statement will not be required. Public hearings could delay start-up by up to three months, and an Environmental Impact Statement could delay start-up by up to two to three years.

As of this writing, the Norgold Agreements are still in the "Final Draft" stage.

Recovery rates from ongoing Yarnell column leach testing at McClelland Laboratories in Reno, Nevada indicate a recovery of 68% for the 3/8 inch crushed material. Absolute recovery from this column won't be known until an environmental wash cycle is complete (in late November) and an assay screen analysis of the tail is determined. Column testing of low grade material (approximately 0.015 Opt Au) will begin in November. The results, which will be available in early January, 1990, should indicate whether this low grade material can be economically leached in run-of-mine form.

Tentative site locations for the waste dump and heap leach area have been selected. During November, haul profiles for waste and ore will be estimated and budgetary contract mining, crushing and placement costs will be firmed up.

Sampling and characterization of on-site tailings material from previous operations will commence in November and should indicate if this material contains sufficient gold to warrant heap leaching, or if the gold value is too low, whether this material is suitable for use as bedding material for any required liner.

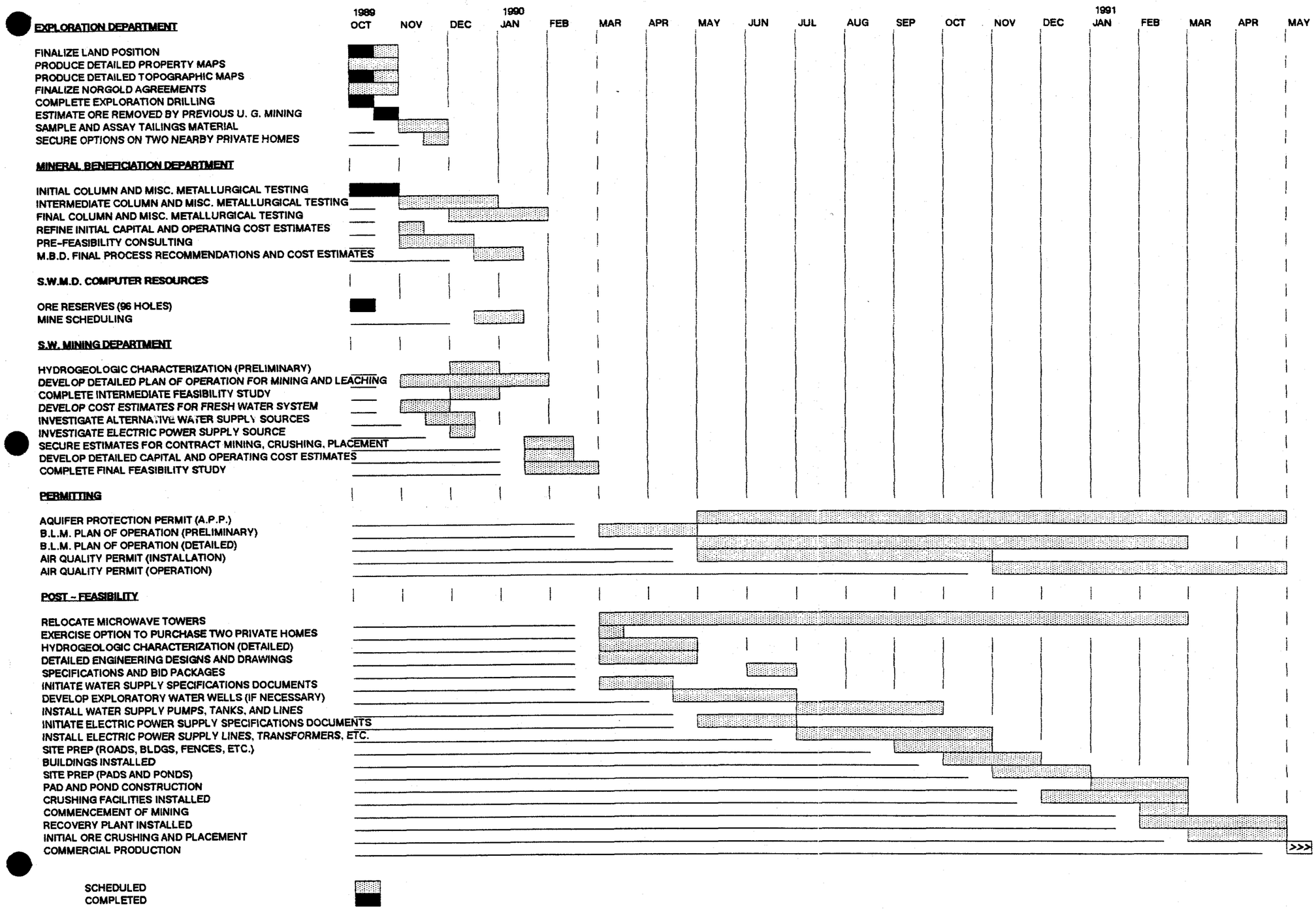
The activity chart will be updated on a monthly basis.

S. L. Lakosky
S. L. Lakosky
Yarnell Project Manager

SLL/kh
cc: RJKupsch -w/attach.
RLBrown " "
WLKurtz " "
JDSell " "
DECrowell " "
PJMaley " "

YARNELL PROJECT ACTIVITY CHART

PROGRESS THRU OCT. 1989



SCHEDULED
COMPLETED

JDS

ASARCO

Mineral Beneficiation Department

November 9, 1989

ASARCO Incorporated

NOV 9 1989

SW Exploration

FILE MEMORANDUM - MISC. 36

Flotation and Fine Grind/Cyanide Leach Tests on Yarnell Ore

For the record, flotation and fine grind/cyanide leach tests have been run by the undersigned on a general composite of the Yarnell orebody. The ore sample tested was a composite sent to us from McClelland Laboratories designated "Yarnell Composite 1378". A head sample cut from the approximately 35 lbs. of sample received assayed 0.031 opt Au and 2.35% Fe.

Grinding tests were run on 1,000-gram charges of 10-mesh ore for 12 and 16 minutes. The resulting grinds were:

	12 Minutes	16 Minutes
	% Passing	
+100 Mesh	10.3	2.9
-200 Mesh	56.3	67.1

One flotation test and one fine grind/cyanide leach test were run at each of these two grinds.

Flotation Tests

The flotation tests were run on 2,000-gram charges of ore at natural pH (8.3) using potassium amyl xanthate/AF208 collector mixture. Part of the collector was added to the grind and the rest stage-added to the second and third stages of rougher flotation. The rougher concentrate was cleaned once.

Rougher Flotation Time	12 minutes
Reagent Dosages	
Z-6	0.09 lbs/ton
AF208	0.09 lbs/ton
MIBC	0.06 lbs/ton
pH	8.3
Cleaner Flotation Time	4 minutes
Reagent Dosages	
MIBC	0.06 lbs/ton

Results were as follows:

	Test F-3	Test F-4
Grind % -200	56.3	67.1
Product Assays		
Conc., opt Au	20.95	14.78
Cleaner Tail, opt Au	0.227	0.317
Rougher Tail, opt Au	0.006	0.006
(Calc Head)	0.0302	0.0286
R/C	906	689
Au Recoveries, %		
Final Conc.	76.1	74.8
Rougher Conc.	80.1	79.0

Fine Grind/Cyanide Leach Tests

The leaches were run in agitated bottles at 48% solids using initial cyanide strengths of 2.76 and 2.79 lbs NaCN per ton of solution for Tests L-1 and L-2 respectively. Leaching was done for a total of 45 hours, with samples of pregnant solution taken at the end of 22 hours of leaching to determine Au, NaCN, and CaO concentration in the solution.

The initial lime solution strengths were 2.76 and 2.79 lbs CaO per ton leach solution. It was necessary to add an additional 0.5 gram lime (0.7 lbs CaO per ton solution) to each bottle after 22 hours of leaching.

Results of the leach tests were as follows:

	Test L-1	Test L-2
Grind % -200	56.3	67.1
Product Assays		
Final Preg Solution, opt Au	0.034	0.034
Leach Tails	0.001	0.001
(Calc Heads)	0.038	0.038
Percent Gold Extraction		
22 hours	97.4	97.3
45 hours	97.4	100.1*
Reagent Consumptions		
NaCN lbs/ton ore	0.22	0.20
CaO lbs/ton ore	3.27	3.27

* Not significant; analytical difference between 0.035 opt in pregnant solution @ 22 hours and 0.034 opt @ 45 hours.

Summary

Flotation consisting of roughing and one cleaning achieved recoveries of 75% with concentrate grades of 15-21 opt Au and ratios of concentration of 600-900.

Fine grind/cyanide leach recoveries were very high (97.4%), and the leaching was complete in 22 hours at both grinds. The cyanide consumptions in both tests were quite low (0.22 lb per ton ore) and lime consumption were 3.3 lbs CaO per ton ore.

T. D. Henderson, Jr.

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TDH:brw

cc: R. J. Kupsch
T. E. Scartaccini
S. L. Lakosky
J. D. Sell
DEC/File

Fax to: J.D. Sell
W.L. Kurtz
S.L. Lakosky

Santa Fe

NOV 21 1989

R.L.B.

November 9, 1989

File: 11014405-49

Mr. Christopher Moatt, President
Morgold Resources, Inc.
2380 Harbor Centre
P. O. Box 12122
555 West Hastings Street
Vancouver, B. C. V6B-4N6

R. L. B.

NOV 21 1989

Subject: Proposed site for mineral exploration at Yarnell, Arizona

Dear Mr. Moatt:

This letter will serve to acknowledge receipt of your FAXCOM of your letter dated October 24, 1989.

The items as outlined will be incorporated in appropriate documents to be prepared by our Contract Department in Topeka, Kansas. Our entire file regarding the subject transaction will be forwarded to:

Mr. T. J. Nelson - Director of Contracts
(Attention: Mr. E. R. Spangler)
A. T. & S. F. Ry. Co.
P. O. Box 1738
Topeka, Kansas 66601

Future inquiries and correspondence regarding the subject should be directed to the above address. Mr. Spangler's telephone number if (913) 357-2227.

Sincerely,

Original Signed
by Mr. Flenniken

D. H. Miller
Regional Manager

bcc: Messrs. A. H. Rees - Chicago
T. J. Fitzgerald - Chicago
T. J. Nelson (Attn: E. R. Spangler) - Topeka
E. R. Wagner - SFP Minerals - Albuquerque

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