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James Doyle Sell Mining Collection

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a Liles Aa-3.3.1A & Tiges Au, da Report hy SP Ogryglo 4/3/50 sampling at Paricy Cook (Sec. 21 127, 7 175, R 30 E). Aa. 3.3. 1B agay Ind. no part John Ree. s. D - Man 1, 1916 Gened: Elma Wiene regard not la BEF 6/13/72. Us Boar now dielling (4/1/75)(!). See ac -3, 4,5 Aa 3.3.14 Nepper aroup. (1916-1918) Scanland 6 and.

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SOUTHERN ARIZONA REALTY Led to relative who accesses it's a bourga. The essent thing for us is to face it on to upon. Ton Edward WLK COULD Be Worth the R.E. JDS- one interest? Only into on Ajap Mine - literature files.

PATENTED MINING CLAIMS

LOCATION: About 10 miles Northwest of Portal, Cochise County. Arizona(California Mining District) in CHIRICAHUA MOUNTAINS. Good County Road to the property, only about 20 miles Southeast to Highway 80.

LEGAL DESCRIPTION, to-wit: MONTE CRISTO, MONTE CRISTO #1-2-3 and 4, MARGARET B, NIPPER, AJAX, MANHATTAN, BLOWOUT, and NEW YORK #1:all in Section 30; T.16 S.; K.31 E.; containing about 220.6 acres.

DATA: The above mentioned (11) eleven patented claims; one contains the FAMOUS AJAX MINE which years ago was producing silver, copper, lead and gold. The owners at that time were forced to discontinue mining operation(were flooded out by water at 160 feet depth), high grade ore reported at that level. With the modern pumping equipment, water would pose no problem.

Years ago this property was purchased by the Noland family for cattle grazing, with no desire to mine, their sole interest is cattle ranching.

Four Geologists from Nevada and Utah have inspected subject property in January and February 1975, all recommended it highly, each stated that high potential for a large operation is very evident.

ACTIVITY: The property is situated in the heart of Halo or Cone of the present activity(in the HILLTOP AND EL TEGRE MINES)which E TUTER DEVE are at present being re-activated.

TOTAL PRICE \$60,000.00 (CASH)

UNPATENTED MINING CLAIMS

LOCATION: This group of (39) claims partly encircles and are contiguous to the above mentioned patented claims. These claims show good ore in place, needs some tractor work to develop.

TOTAL PRICE \$11,700.00 CASH.

NOTE: All information has been secured from sources deemed reliable, but, no responsibility is assumed by agent, subject to prior sale or changes.

NOTES ON PRELIMINARY EXAMINATION of the AJAX GROUP OF CLAIMS, CALIFORNIA MINING DISTRICT, Near Paradise City, Cochise County, Arizona.

The Ajax Group consists of seventeen (17) unpatented claims, situated about five miles due north of Paradise Mining Camp, in the Chiricahua Mountains. The Group is located on the hills that flank the south side of San Simon Valley, at an elevation of 5500 feet. They are about twenty-one miles from the Station of San Simon, on the Southern Pacific Railroad, and about eighteen miles from the Station of Rodeo, on the El Paso & Southwestern Railroad. Thru the San Simon Valley, a fair road is available. Freighting to either station on small lots of ore costs \$4.00 per ton.

The Group is owned by Doran and Gallagher, of Paradise, Arizona.

These men are old prospectors that have, off and on, worked on this Group for many years. About 1000 feet of development work has been done on the Group by the owners and others working on bonds and leases.

The outcropping rocks on the area covered by these claims is about equally divided between limestone and igneous rocks. The limestone has been tilted and the beds strike about east and west and dip about S. 45 deg. The mineralization shown by the development done on these claims is confined to the igneous rocks adjacent to and in contact with the limestone. They vary from a rhyolitic to an andesitic character.

With the exception of a small shaft, said to be forty feet down, no prospecting has been done along the contact of the lime and igneous rocks. This shaft is caved and not available for inspection, but an examination of the dump did not show any mineralization.

The accompanying sketch shows the tunnel workings on the group. They are connected by the tunnel and two shafts with the surface. One of the shafts

is forty feet from the surface to tunnel level; the other is sixty feet from cropping to tunnel level. The first shaft is also said to have been driven eighty feet below the tunnel and to have about fifty feet of drifting done at this lowest level. This had filled with water to within about thirty feet of the tunnel level, and was not available for inspection.

The mineralization shown in the tunnel workings occurs in the andesitic rock along a shattered zone, have an almost E. and W. strike and standing vertical. The width varies from a few inches to about ten feet, and along a length of 140 feet. The mineralization is predominately pyrite, with chalcopyrite, bornite, chalcocite, sphalerite, and galena; and appears to be an impregnation and replacement in the igneous rock. Ore on the dump, said to be from the lower workings, has more spalerite and galena and less pyrite. Three tons of dump ore are said to have been run thru the mill of the Paradise M. and M. Company for a test some years ago, for which the owners say they received \$9.00 per ton. Altho a few shipments have been made by some leasers of the property, no returns from the ore are in possession of the owners. No stoping has been done in the tunnel workings. The surface has been trenched in one place for a distance of about thirty-five feet and about twenty feet deep.

From an econimic standpoint, the group does not present any attractive features. The small amount of ore exposed is a mixture of lead, zinc, copper and iron sulphides, not very desirable unless separated. Altho showing indications of secondary enrichment of the copper contents, the ore does not look as if it would run over 3% to 4% copper in the richest parts. The lack of any contact metamorphic phenomena at the contact of the lime and igneous rock is not encouraging for prospecting the contact.

E. F. Epley, of Rodeo, N. M., has bond and lease on the property, which he submits to the company on the following terms: Price \$45,000.00 in three

equal payments of \$15,000.00. First payment due January 1, 1917.

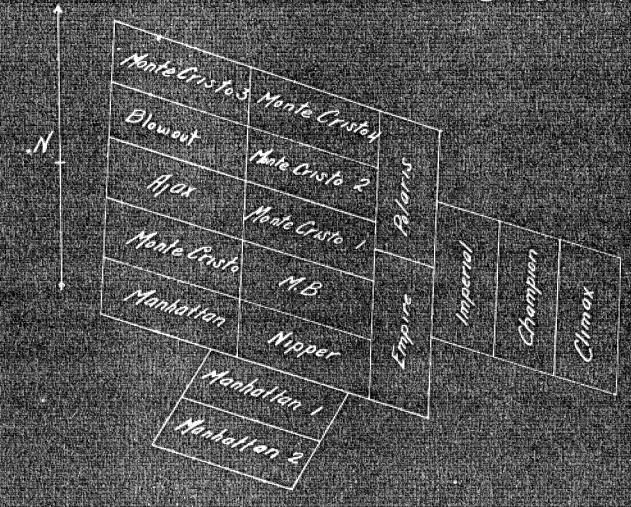
Examination by John Russell.

Tucson, Arizona, March 1, 1916.

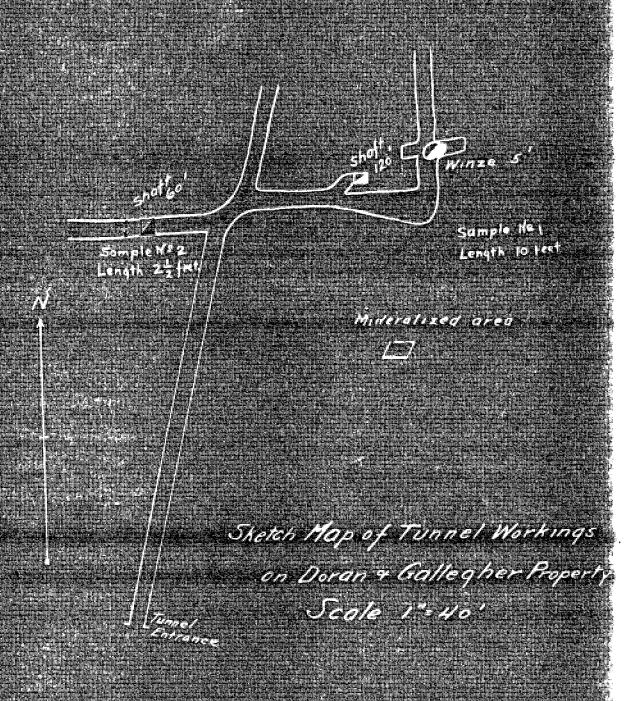
Max Group of Claims Paradise, N.M.

Owned by Doran & Gallagher

Scale lin =1000ff



Faradise, NM.



No. 2. Contraras Canyon. SE 1/4, Sa. 20, RSE, TISS. 21 miles Awal Oter Ranch. Bobogunais Peak Guart. approx. 20 miles 5 of Robles Jet to Otero Ranch cut off. hence 5 miles westerly to O ten Rouch, here 5 mile by road to point in Contraras Caryon. No. 11115 chise No. 3. S. Perilla mtm. O 5E 1/4 Sea 11, R 28 E, T 245, Co. @ SE 4, Sec. 14, RZ9E, 7245. Colley Peaks Qual It I is 6 miles t of Worslas & '4 mile Sof Gerenino Fraid was i Pt 2 is 3 1/2 mils fulle to road young soull to several shafts ste, area about "4 mil s of shaft (3/4 mil Sof Geronino Trail. Production 11135 No. 7. The negger of W side of Blue nitn. E 1/2 sec. 24, NE 1/4, See 25 R30 E, T145. Vanar qual. Typor 3 miles & of san Samon turn south on the Portal-Pandie road; hence. 17 miles & (take w fork loward Paradias); hence westerly 2 miles being Sof The Hyppers, Cat about I mil w of the San Sinon - Parcialia Rd jet is a read to the Goy Mine which might get in closes & Steen City 1711 No. 8. West of Steins Miles. SE'ly Sec. G, RZIW, 7245 Vanar Quad. Approx 1 miles Eof San Sumon ("14 mile & of Aring - N man border) road to noths for 1 4 miles to area Rel is straight alord; folis to left a right of by mile are to prospect digging. Same GG, AMS 70.12. Wolsefield (comp. Sec. 30, RZOE, 7235, Summepid Qual. Prob. hast reached ma dig . 92 going 15 miles South of Leina Vist, hence 3 t miles son blackton; then turn to west

5) Wassen Peak, (cont'd)

Mayhew drill was drilling and a small shovel was mining some copper stained schist. We landed across the canyon near Luke's hoist and found quartz veins with boxworks after galena and chalcopyrite. Wassen Peak appears to be a younger intrusive stock but tall timber prevented helicopter landing for ground check.

6) Glen Oaks (Kirkland), Yavapai County
Located on Kirkland Quad., stops 5, 6, 10/18/66

"In the Glen Oaks area just north of Quartz Mt., several rounded hills are clustered in a red altered zone. Some of these hills look to be breccia from the air, but (we) could not land due to topography. Several roads have been built around the hills, and some look as if they were built for drill sites." WGH

Third Order Targets:

The Nippers (San Simon), Cochise County Located on Vanar Quad., stop 5, 2/9/67

"An area of possible interest was checked during the day's flight. An area due north of the Nippers in the pre Laramide, Silver Bell type andesite (is weakly altered with pyrite and chalcopyrite disseminated locally in the rock.) The mineralization does seem to be weak, but there (do) seem to be pervasive sulfides over a fairly large area. This area might be the one described by Anderson in 1917 and reported in the Company files." BJD

8) West Peloncillo Mts. (San Simon) (New Mexico) Located on Vanar Quad., stop 5, 2/12/67

Water well drill cuttings show pyrite in pre? Laramide andesite. Cu, Mo geochem sample 212-5 (34 ppm Cu, 5 ppm Mo) should indicate whether more work should be done here.

9) Old Deer Creek (Arivaipa), Graham County Located on Klondyke Quad., stop 2, 11/13/66

Float check in Old Deer Creek at the mouth of Horse Canyon in Sec. 32, T5S, R19E. We found one piece of copper stained altered andesite and several well rounded garnetized and epidotized rock. Checking further up Old Deer Creek we found no more copper bearing float but more garnet. We did not locate the source of the garnet.

10) Troy Basin (Ray), Pinal-Gila Counties

Located on Sonora Quad., stops 4, 5, 11/10/66

Two small hills on the north side of Troy basin show evidence of hydrothermal mineralization and alteration. In this area, a few small outcrops of pervasively altered porphyry crop out in the bottom of a wash

AMERICAN SMELTING AND REFINING COMPANY Tucson Arizona

February 24, 1967

TO: J. H. COURTRIGHT

FROM: B. J. DEVERE

PARADISE PROSPECT CHIRICAHUA MOUNTAINS COCHISE COUNTY, ARIZONA

Introduction

Mr. Juan Munoz, a prospector, brought to the company's attention a copper prospect in the Chiricahua Mountains, in Cochise County, Arizona. The preliminary examination, in November 1966, indicated the property to be one of interest. Before a more detailed examination could be completed Superior Oil Company optioned the property from Mr. Munoz.

Summary and Recommendations

Spotty copper mineralization in the form of malachite, melaconite and chalcopyrite is evident in an area approximately 3500 feet long by 600 feet wide, narrowing at both ends. The copper mineralization is found in a series of altered Paleozoic sediments along the contact of a pyritized quartz monzonite; specifically, these sediments are altered to tactites, hornfels, and magnetites. Large zones of gossan occur at the outcrop.

As the property seems to hold some potential, a close watch of Superior Oil's activities in the area may prove beneficial.

General

The Paradise Prospect is located in the Chiricahua Mountains, California Mining District, Cochise County, Arizona. The exact location is shown on the attached index map A.

The topography is quite steep and vegetation quite dense throughout the area of interest. Outcrops are poor and roads to the property non-existant--all of which makes the evaluation of the area more time-consuming then normal.

Considerable development work had been done on the property prior to 1910. Two deep shafts were put down as part of the development and exploration. These are the Planet Shaft (400 feet deep) and the Mars Shaft (250 feet deep). Additional adits and workings have partially exploted the mineralized area to the southwest of the Mars Shaft. The locations of the shafts and other workings are shown on the attached geologic sketch map B.

In 1918, Mr. G. G. Anderson examined the property for the company. At the time of his visit, all work had ceased. Mr. Anderson felt the area to be one of widespread mineralization but too low grade to be of interest at that time.

Samples taken from the Mars Shaft and assayed by Anderson gave the following results:

50	feet	below	the	surface,	Mars	Shaft	0.84 %	Cu.
60	11	11	11	11	11,	11	1.56 "	ţī
130	- 11	17	. 11	11	11		1.20 "	11
140	11	11 .	H .	11 .	11	11	1.08 "	71
160	11	11	17	11	11	п	0.60 "	11
170	11	11	11	11	i II	11	1.44 "	11
200	,11	tt í	11	II .	11	11	0.84 "	11
250	11	11	11	11	11	11	0.24 "	n

The Planet Shaft was caved and could not be visited by Anderson, but examination of the dump indicated that the shaft never did hit any mineralization.

None of the other workings were mapped or sampled by Anderson.

In my preliminary examination 7 dump samples were taken from workings throughout the mineralized area. These sample results are shown on the attached geologic sketch map B; they averaged 1.60% Cu.

The Lower Mars adit was mapped and sampled. The attached geologic underground map C and accompanying sample map D shows the general grade of the material, .35% cu. average with some lead and zinc, still within the leached zone of the altered and mineralized sediments. There is no area open for inspection at the present time which shows the character and/or grade of the sulfides in altered sediments.

The area has been mapped in a reconnaissance fashion on l" = 2000' photographic base (see attachment B).

The quartz monzonite porphyry stock contains disseminated pyrite which I believed to be hydrothermal metallization, but there does not seem to be any pervasive hydrothermal alteration. The weak alteration that is present is probably super-

gene, due to natural weathering.

There are several undetermined features: (1) There is the possibility that the mineralized tactite and hornfels represent only erosional remnants above the intrusive stock. The stock appears to dip under the sediments and thus could limit the mineralization to a thin scab of tactite, hornfels and gossan. (2) But in the same light there could be extensive mineralization in favorable limestone horizons along the contact of the intrusive.

One of the most important questions is whether the weakly mineralized tactite represents one bed in the Paleozoic sequence and the strongly mire ralized hornfels another. The large gossan zones could represent a replacement of a favorable bed or could be caused by structural weaknesses.

There was sufficient pyrite to neuteralized the calcium carbonate of the hornfels secondarily enrich a zone in the pyrite rich intrusive beneath the sediments.

All these theories are very much in question, and considerable work will have to be done before any or all of them could be proven true or false.

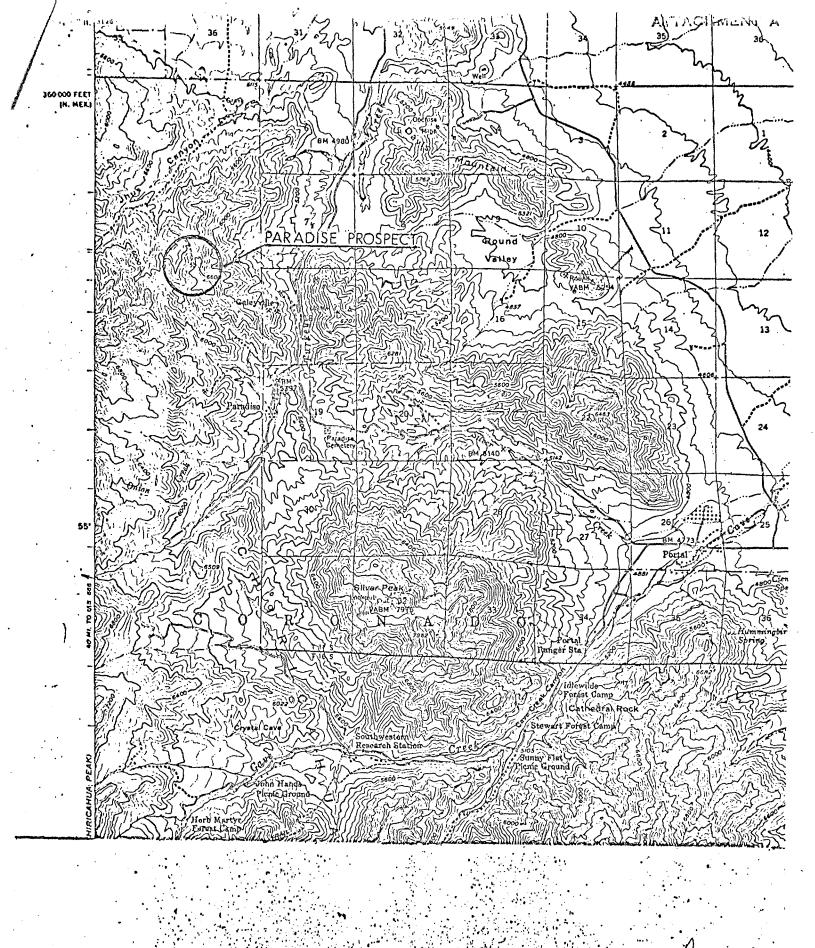
Superior Oil, who now holds an option on the ground, should be testing the area in the near future. Any work they do in the area (road building, etc.), would be a very great help in evaluation of the property at some future date. Aerial photographs of the region at a l" = 2000' scale and l" = 400' blow ups of the area of interest are enclosed in the files with this report.

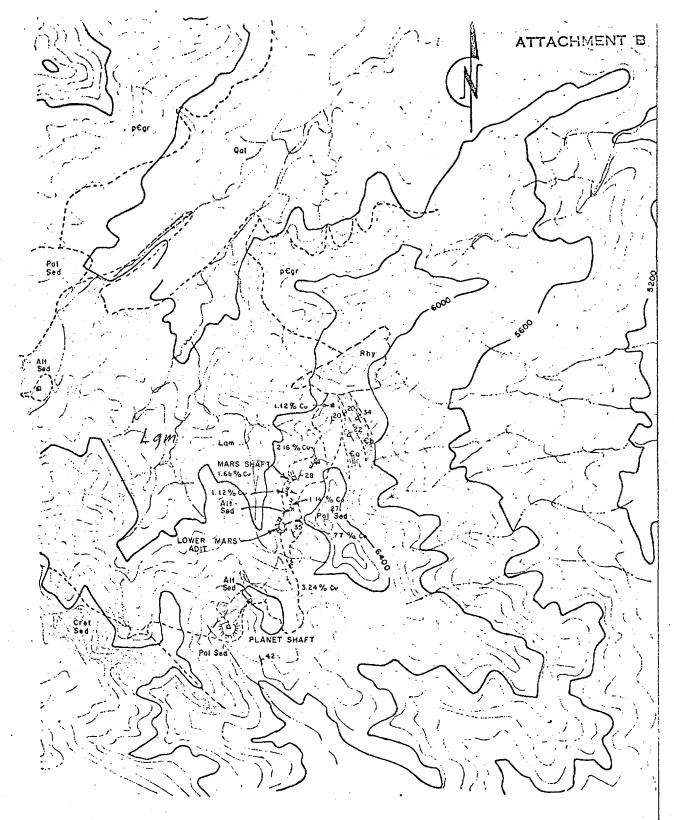
If the opportunity presents itself Asarco should take another close look at the Paradise Prospect area.

The general region north of the Paradise Prospect area should be examined in a reconnaissance fashion as time permits. The northeast slope of the Central Chiricahua Mountains is a region of extensive pre-laramide rocks and some mineral production. This general region has not received the in tense exploration pressure as has most of southern Arizona largely due to the remoteness and lack of roads into the region.

Burton Meners, for BURTON DEVERE, JR. by My

BD/mg Attachements





Tactite - Green

Ea Dark Blue

Eb Purple

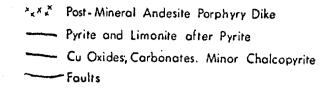
Pal Sed. Light Blue

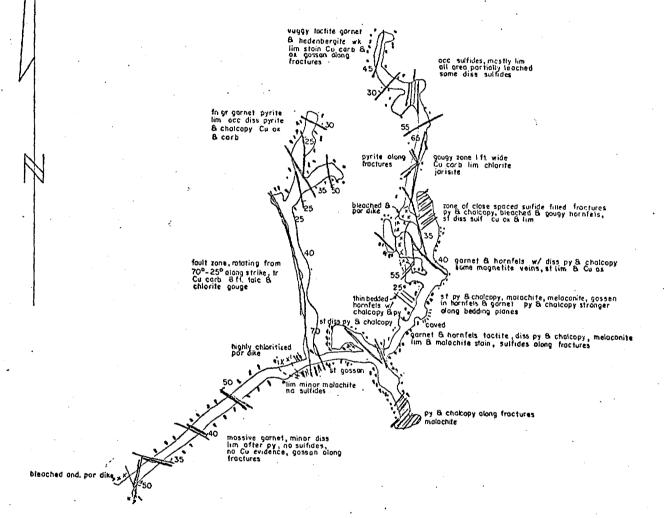
Cref Sed Brown

Geologic Sketch Map
PARADISE PROSPECT
CHIRICAHUA MT, COCHISE COUNTY, ARIZONA
SCALE I" = 2000' Approx.

B.J.D.

Jenuary, 1967





PARADISE PROSPECT

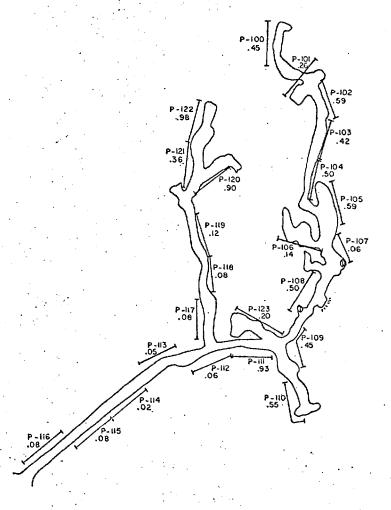
MARS SHAFT LOWER ADIT

Brunton and Tape Survey

1" = 50' 11/29/66

BJD





LEGEND

		% Pb	<u>%Zn</u>
,	P-100-104	.27	1.28
•	105-109	.09	2.29
COMPOSITES	110-114	.03	0.36
•	115 - 119	.02	0.54
·	120-123	.01	0.89

P-120 .90 Somple No. % Cu PARADISE PROSPECT

SAMPLE MAP

MARS SHAFT LOWER ADIT
Brunton and Tape Survey

I" = 50' II/2

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11/29/66

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Name(s) of Property or		~~				ountry		r Province
AJAX, Cochise	County					U.S.A. Co. or Map Sheet ANAR 15 Qu	ad. ^{⑤ File or} Aa-	zona Gore No. 3.3.1B
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Section II Sources	of Information			! -				
③ References Author	Date	Title				Publ	ications	Vol. No.
John Russell, 191	6. Notes on	Prelimir	ary l	Exam	_	Ajax; ASARC		
S.B.Keith, 1973.	Index, Co p. 42 & 5	chise Co	bunty	, Ari	zon	a; Bull. 187.		J.J.,
					1.54			
Section III Appraisa								
(4) Recommendations	(B)					(6) Production	_	
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Section IV Geologi	c Data						·	
© Commodity or Contai	ned Metals Cu, P	b, Zn					•	
Ore Minerals - Major	Galena					Minor Sphal	<u>erite</u> Ch	alcopyrite
😉 Host Rocks - Major	Silver Bell volc	anic con	glome	erate		Minor		
❷ Age of Host Rocks	early Laramide				·			
Nature of Exposures	Excellent, soil-	alluviun	n in g	gulch	nes.	0xidation	to ±50 fe	et in
vein structures	. Low to moderat	e topogr	aphi	c rel	ief	•		
[™] Alteration General	bleaching to gra	y-greens	, si	licif	fica	tion in she	ar and vei	n
structures, some	carbonate filling	<u>. ^{©9 то}</u>	tal Ext	ent (000 See	ft. by 150 sketch)	0 ft.	
Structure Shear s	tructures at N25°	W with v	vein a	at E-	-W t	o N65°W. C	ross fract	ures at
N55°W and N35°E.	Centering on mai	n shaft	area	•				
3) Ore Occurrence Ve	in filling with m	inor occ	urre	nce a	alon	g NE fractu	res adjace	nt to vein .
	And the second s		of M	inerali	zatio	n Late Lara	mide to Mi	d-Tertiary
3 Conclusions and Rec	ommendations Mai	n E-W ve	in o	ffset	:s q	<u>tz latite d</u>	ike which	is
similar to Mid-Te	rtiary intrusive	of Jhus	Canyo	on (±	30	m.y.). No	apparent a	lteration
or mineralization	in adjacent lime	stones e	хсер	t sil	ica	breccias d	eveloped a	long NW
fault structures.	Nearly a dozen	small hi	gh gi	rade,	, ma	inly in lim	estone, de	posits
of similar minera	lization occur ar	ound the	bas	in to	th.	e east and	south. Co	ntinued
reconnaissance of	area recommended	1.						

(For additional space use extra sheets)

AMERICAN ANALYTICAL and RESEARCH LABORATORIES

ASSAYERS - CHEMISTS - METALLURGISTS

TUCSON, ARIZONA 85714

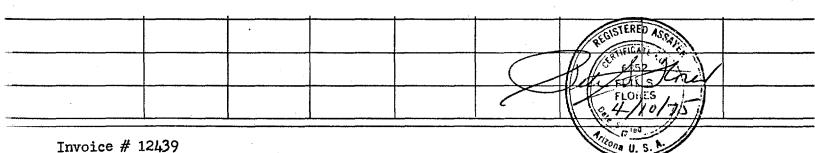
SAMPLE SUBMITTED BY American Smelting & Refining Company

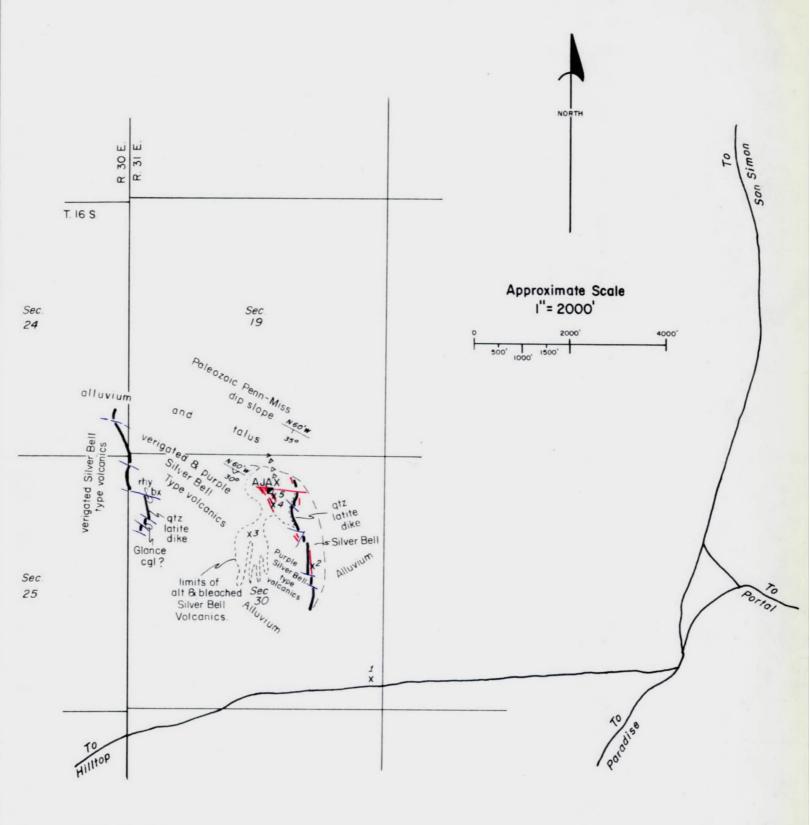
DATE April 10, 1975

SAMPLE MARKED	GOLD OZ./TON	SILVER OZ./TON	PPM COPPER	PPM LEAD	PPM zinc	PPM MOLYBDENUM	PERCENT IRON	
AM - 1	.002	0.16	94	230	78	7		
2	.002	0.17	61	103	62	9		
3	.002	0.04	106	98	69	6		
L.	.001	0,10	38	62	54	4		
5	•003	0.62	0.23% 2000+	0,91% 2000+	1.16% 2000+	10		
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- AM-1 Sludge cuttings from recent well, cuttings of Precambrian granite, altered volcanics, and late volcanics. (Alluvial material)
- altered volcanics, and late volcanics. (Alluvial material)

 AM-2 Sheeted "vein", 2-3 ft. wide, vertical, NIO°W. Quartz, minor carbonate veinlets with strong iron stain and films, fine disseminated pseudomorphs after pyrite. Epidote in volcanics on both sides of adjacent quartz latite dike.
- AM-3 Altered area in SB volcanics of general bleaching with epidote and iron addition. Capped on east and west by essentially unaltered purple SB volcanics. Zone dips southward at ±30°.
- AM-4 Iron-stained shear zone, N25°W with cross-fractures at N55°W, some 10-15 feet wide. Minor epidote, spotty bleaching. Pinches rapidly to southeast. Projects into and west of Ajax shaft.
- AM-5 Dump from stoped vein, N70°W, 80° dip to North, I-1/2 to 2 feet wide of breccia of quartz and carbonate(?). Some leached pyrite left, oxide copper, lead-zinc mineralization.





EXPLANATION

Outline of bleaching
Qtz Latite dike
Mineralized Structure
Fault Structure
Breccia Structure

TO ACCOMPANY ASABCO
Exploration Record Sheet
DATED 4/2-3/75
BY J.D Sell

AJAX MINE AREA

Vanar Quad. (15') Cochise County, Arizona

MAPPING ON COOPER-PARADISE PHOTO 2-7

JDS

5/6/75

2 Sample Site & Number