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Arizona Department of Mines and Mineral Resources Mining Collection

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07/15/91

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES FILE DATA

PRIMARY NAME: GLOVE

ALTERNATE NAMES:

SHEEHY-O'DONNELL GROUP
O.K.
ROVER
FESTIAGO
FRANKLIN

SANTA CRUZ COUNTY MILS NUMBER: 121

LOCATION: TOWNSHIP 20 S RANGE 14 E SECTION 30 QUARTER SE
LATITUDE: N 31DEG 39MIN 35SEC LONGITUDE: W 110DEG 56MIN 46SEC
TOPO MAP NAME: MOUNT WRIGHTSON - 15 MIN

CURRENT STATUS: PAST PRODUCER

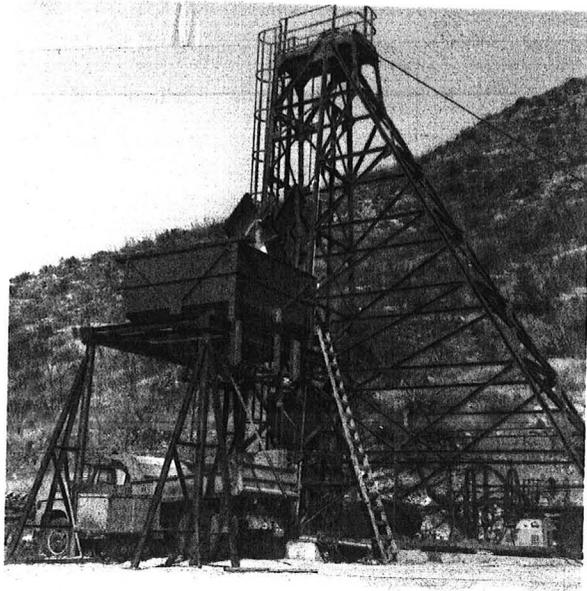
COMMODITY:

LEAD
ZINC
SILVER
COPPER
GOLD
MOLYBDENUM

BIBLIOGRAPHY:

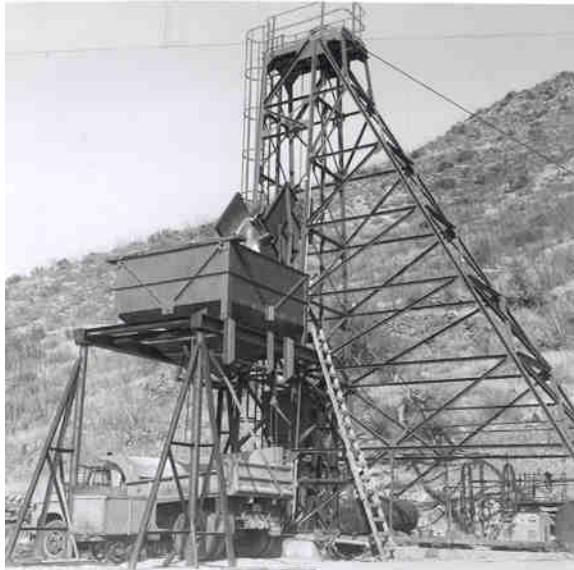
KEITH, S.B., 1975 AZBM INDEX OF MINING PROP.
IN SANTA CRUZ CO.
AZBM CARD FILE SANTA CRUZ CO.
ADMMR GLOVE FILE

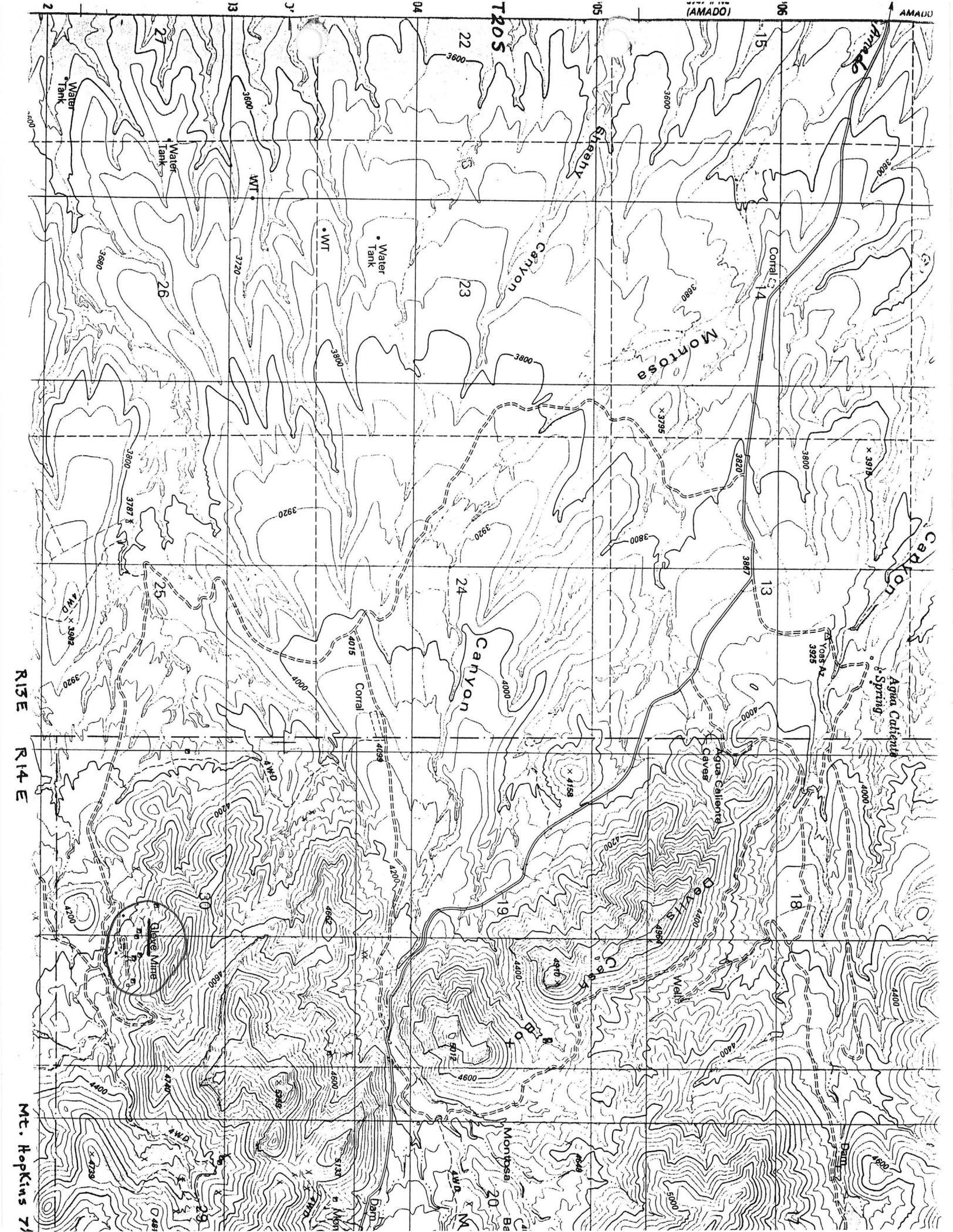
REPORT + MAPS IN "WRIGHTSON" ADMMR FILE



12
ADN

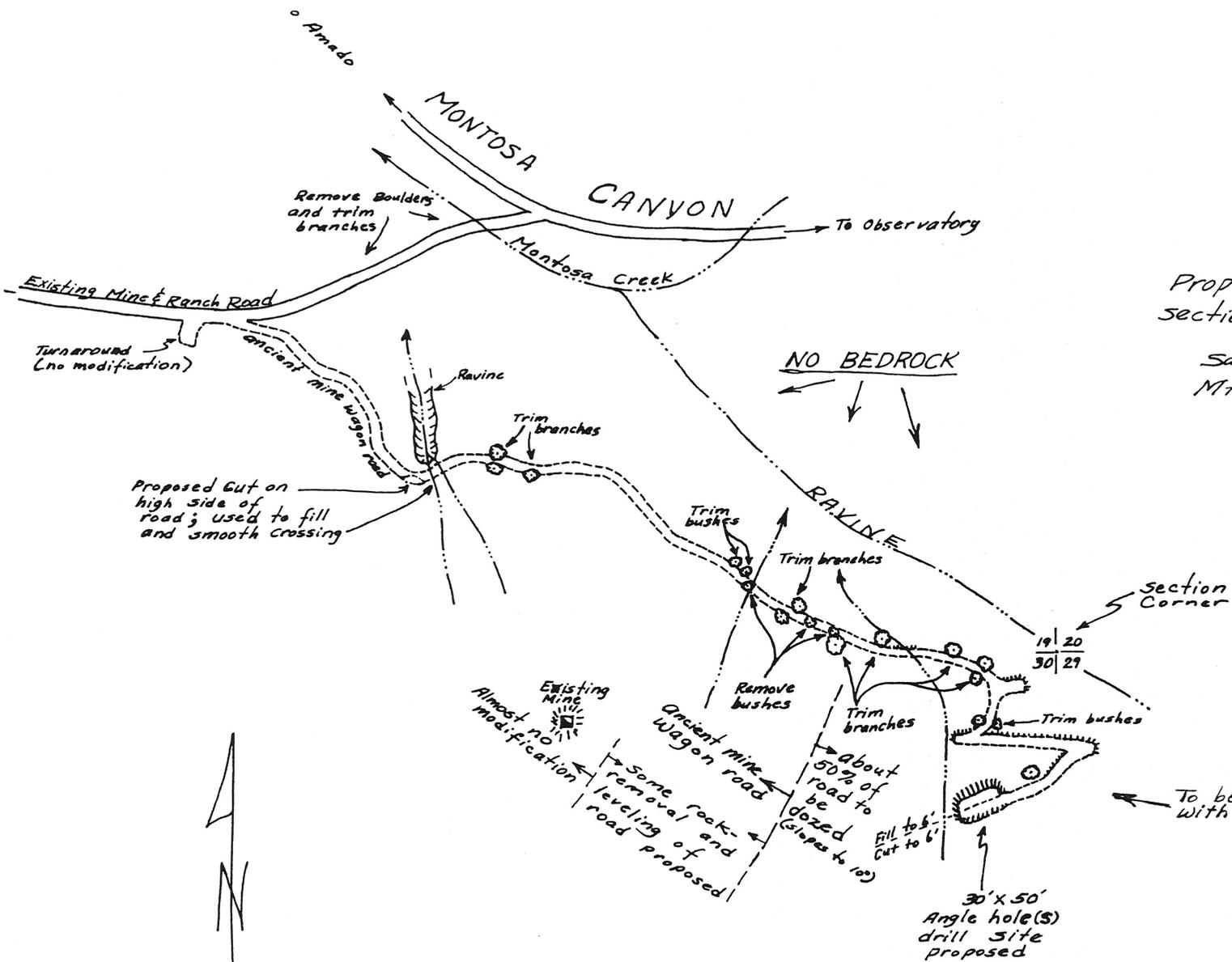
GLOVE MINE





R13E
R14E

Mt. Hopkins 71'



Continental Materials Corporation

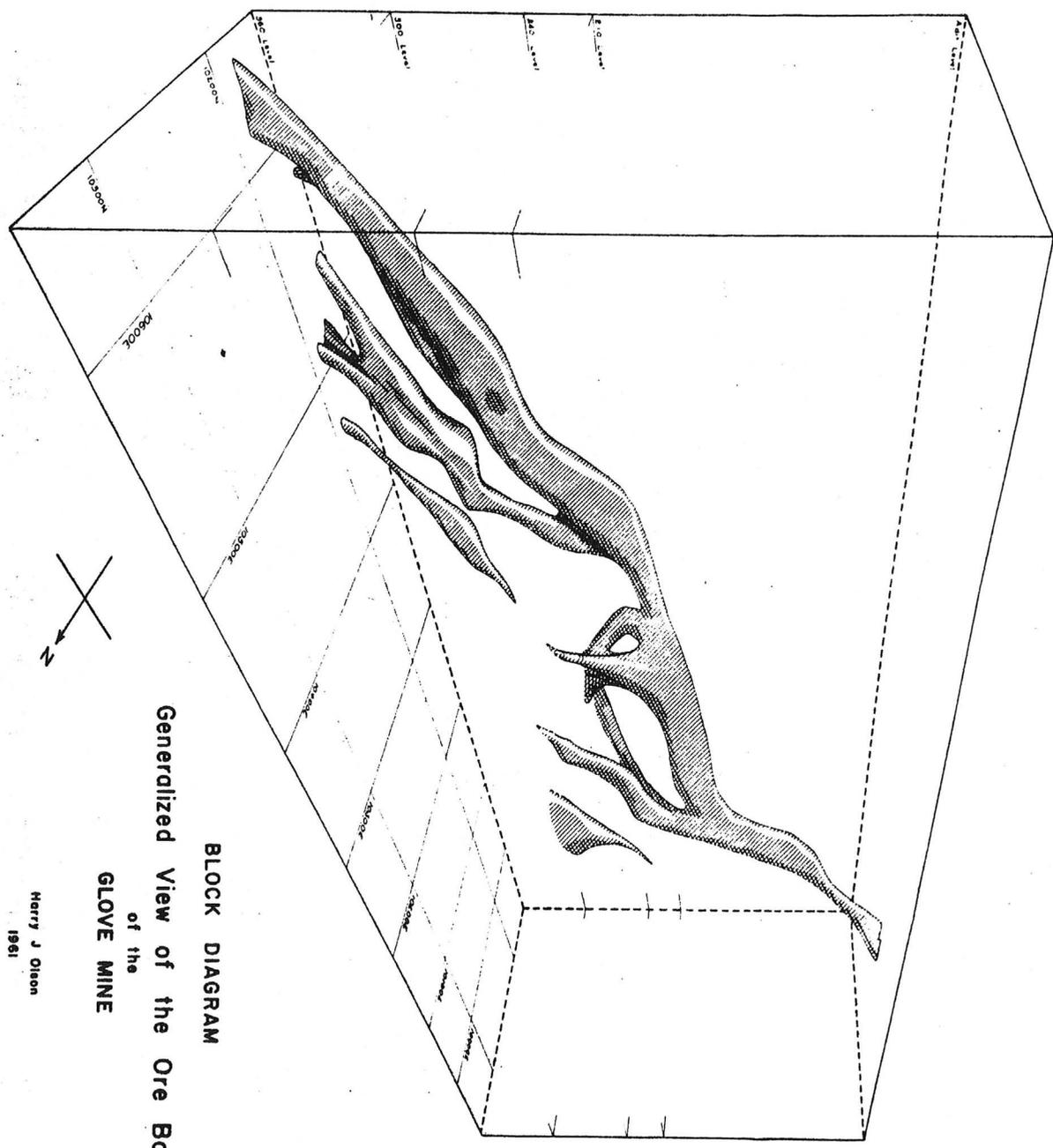
Proposed drill site and drill road sections 19 & 30, T20S, R14E (Cato Claim group) Santa Cruz Co, Arizona Mt. Wrightson 15' Quad.

December, 1977 by C.J. Orback

1" = 200'



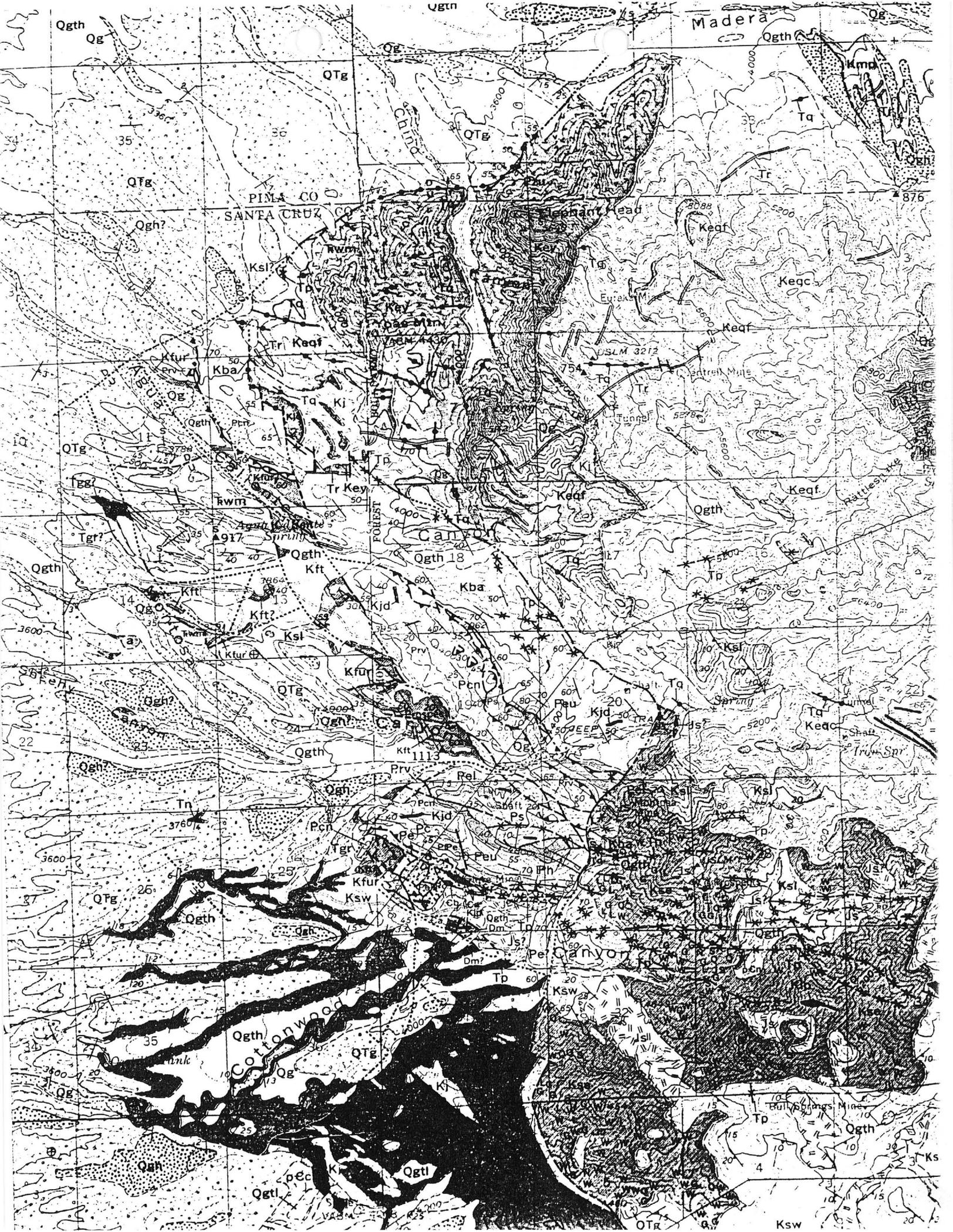
Re: Olson, H.T., 1961, The Geology of the Glove Mine, Santa Cruz Co., Ariz.; U.S. Ariz. M. Sc.



BLOCK DIAGRAM
 of the
Generalized View of the Ore Body
GLOVE MINE

Harry J Olson
 1961

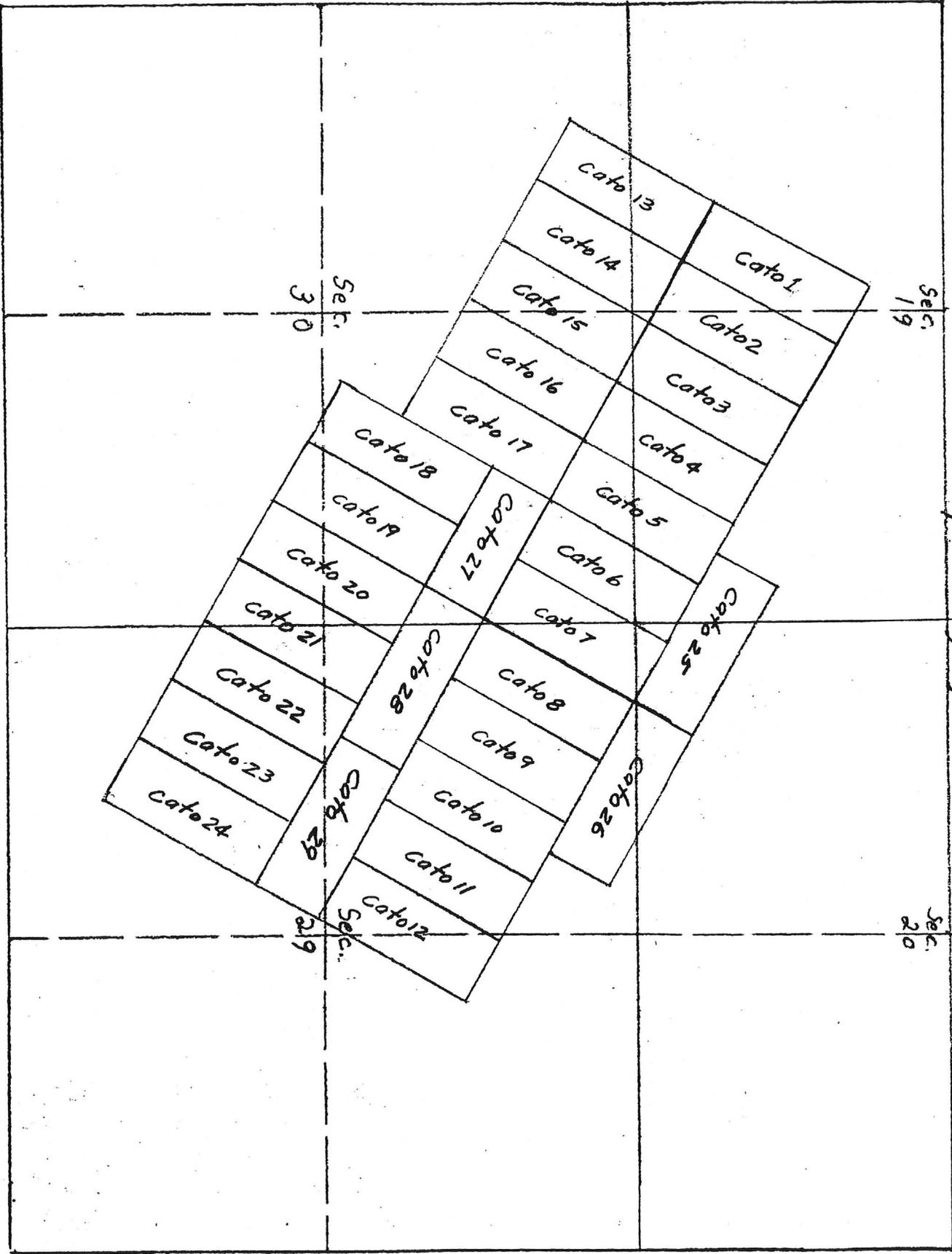
PLATE 23



Continental Materials Corp.
Cato claim group
Santa Cruz Co., Ariz.

Twp. 20 S., Rge. 14 E.

Scale: 1" = 1200'



Sec.
19

Sec.
20

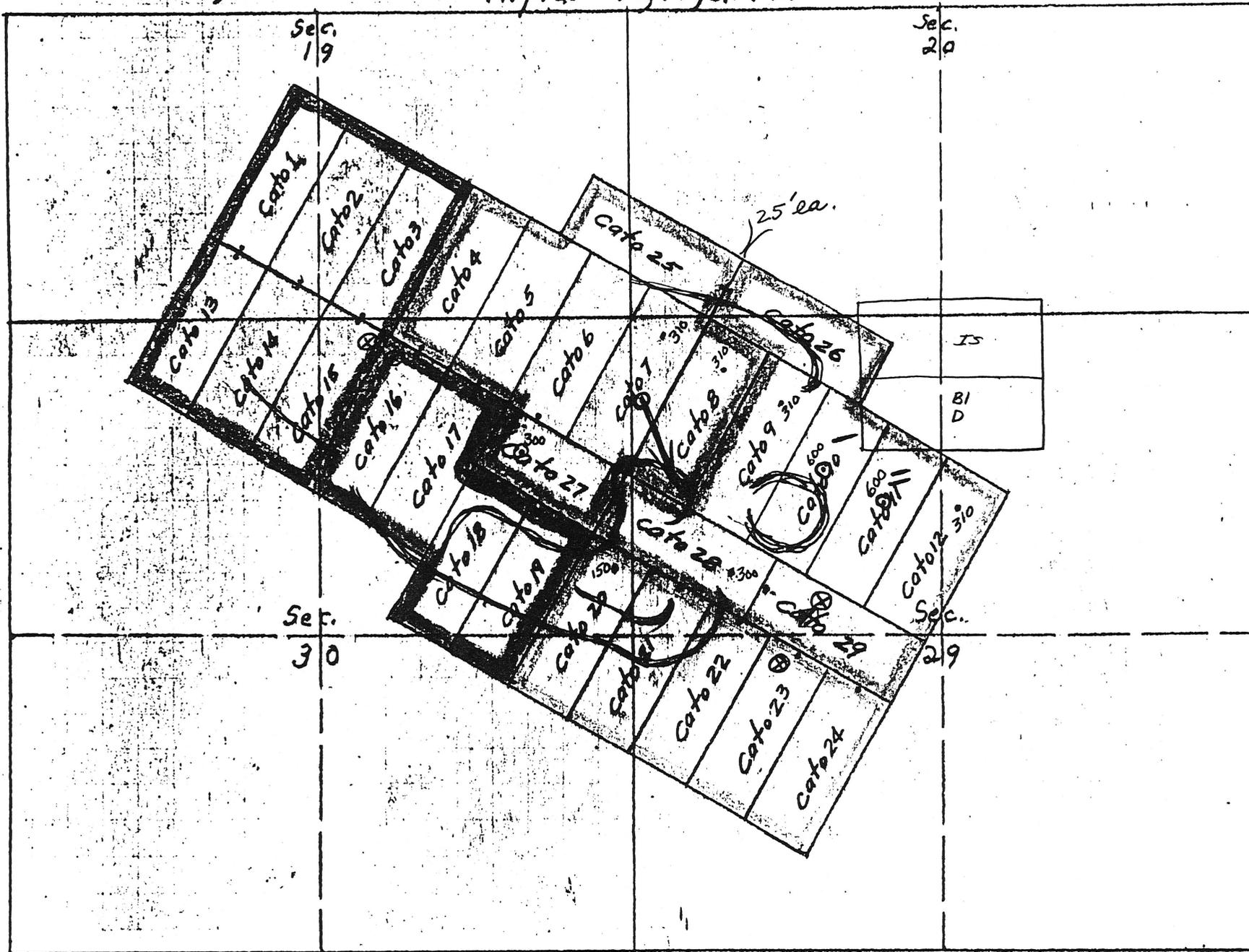
Sec.
30

Sec.
29

Continental Materials Corp.
Cato claim group
Santa Cruz Co., Ariz.

Twp. 20 S., Rge. 14 E.

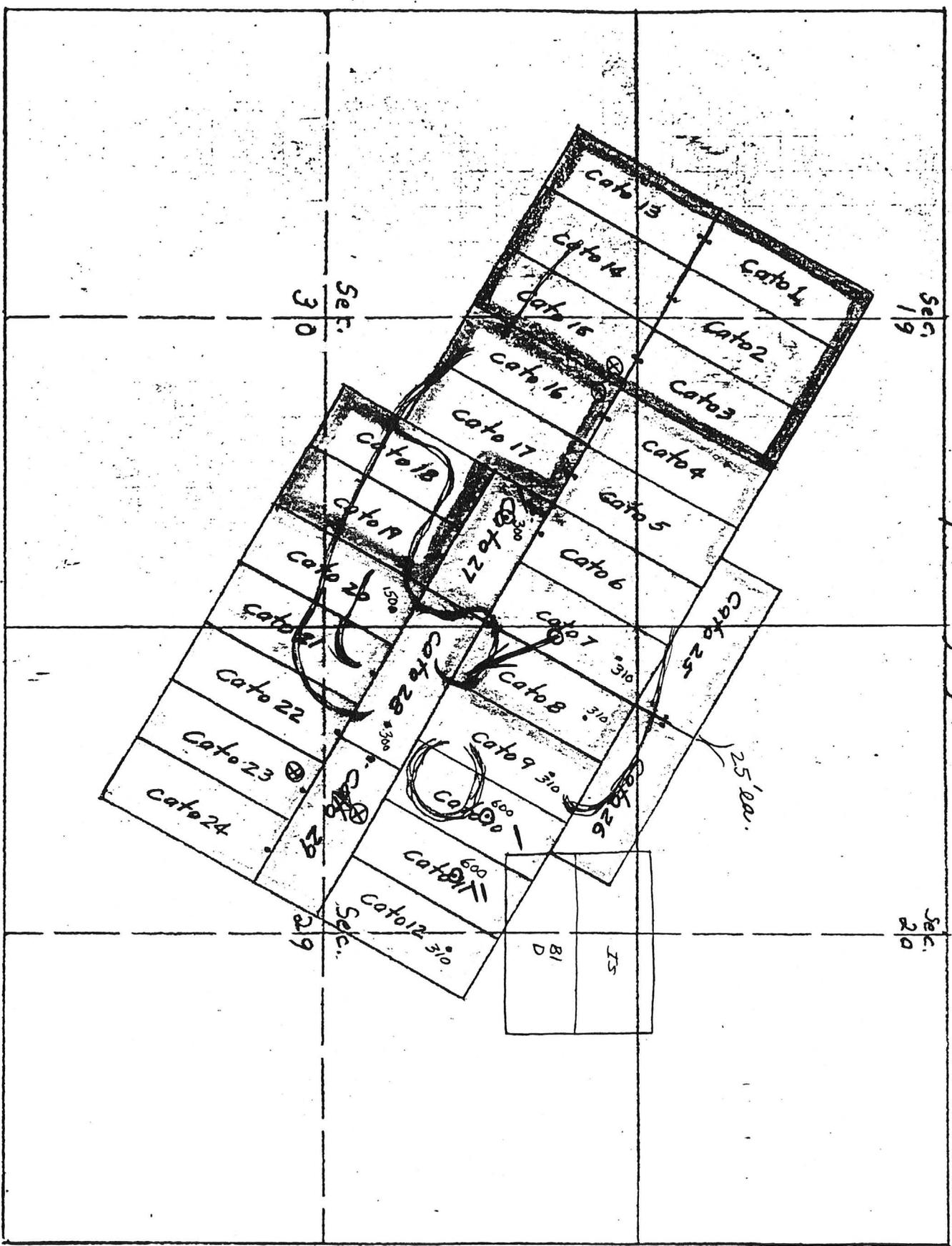
Scale: 1" = 1200'



Continental Materials Corp.
Cato claim group
Santa Cruz Co., Ariz.

Twp. 20 S., Rge. 14 E.

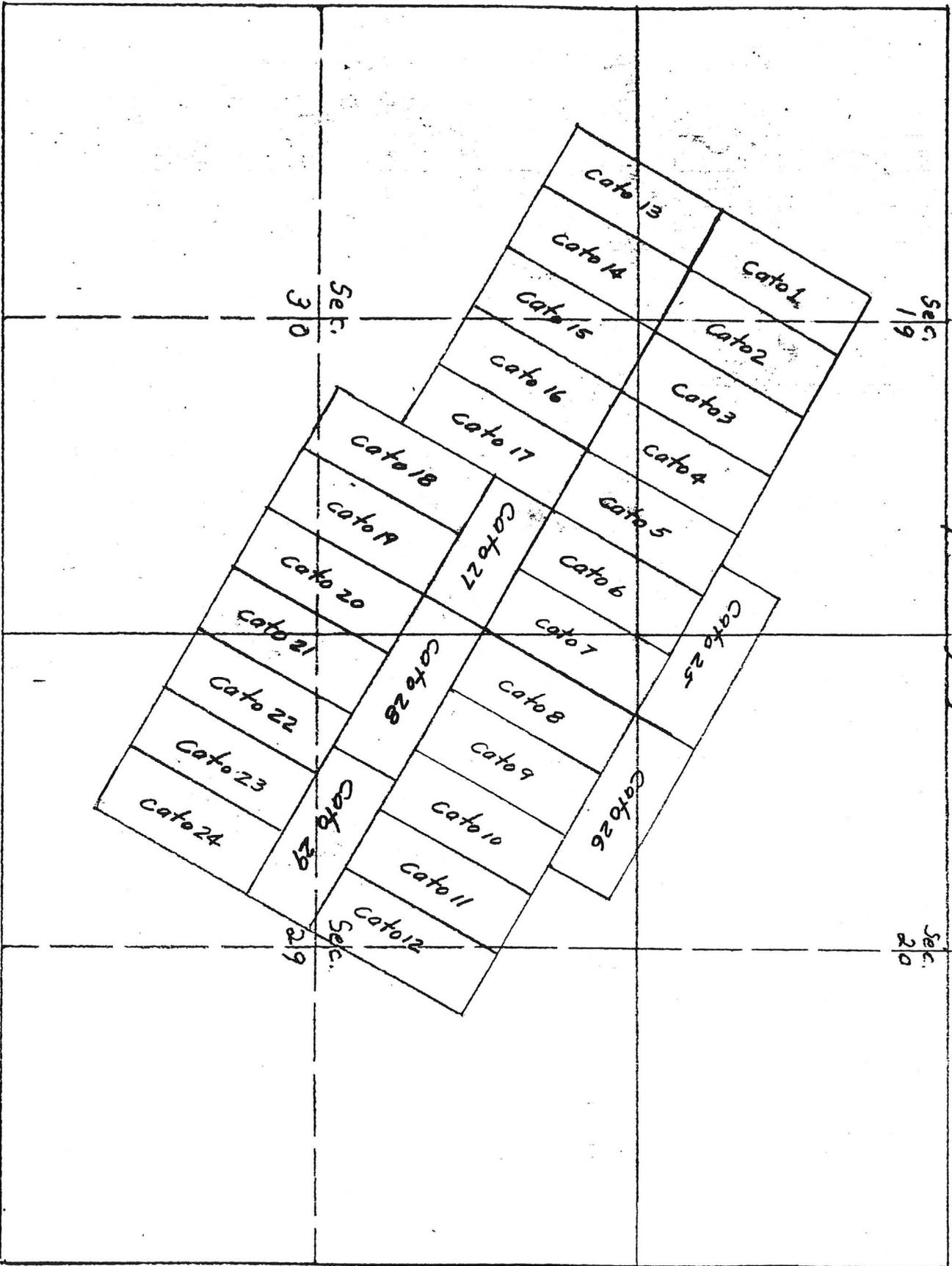
Scale: 1" = 1200'



Continental Materials Corp.
Cato claim group
Santa Cruz Co., Ariz.

Twp. 20 S., Rge. 14 E.

Scale: 1" = 1200'



(3)
THE GROVE GROUP

4/1/36

The location, geology etc., of these claims has been very ably discussed by several engineers, copies of these reports are to be found in the files of the Eagle-Richer Mining & Smelting Company.

The writer was rather impressed with the possibilities for ore deposition in such a structure. In the short time available for examination little could be learned of the structural geology of the district. Due, however, to the high relief in which the structure stands such a study could be made in a minimum of time. The extent of the deposits will be a function of the depth of the limestone blocks and their contacts. The most difficult problem will be that of determining the relative vertical position of that portion of the vein which has escaped erosion, that is, the veins as now seen may be but the basal portion of a once extensive zone of mineralization, wherein such a condition exists as that to be seen in the Ruf & Reedy and Ruf & Reedy No. 1.

1. The Grove Group

2. Santa Cruz County, Arizona
3. Sheehy Brothers
4. F. R. Jones
5. December 27, 1948
6. Lead

7. "This property has little if any merit, as it does not give any indication that even a moderate tonnage of ore could be produced, even after considerable development."
8. _____

Addendum by G. J. Duff - May 21, 1951: Currently leased to a hotel man by the name of O'Brien, Dallas, Texas.

* * * * *

Handwritten notes:
The Grove
Trade by Mineral to Lead
1956-7-8-20
See in file

Glove Group, Sheehys, owners

4/8/38

This property is considerably better than most of the lead silver properties. It lies about 10.5 miles southeast of Amado.

The veins strike nearly east-west and traverse Paleozoic limestone. The limestone is intruded by granite in large masses, one of which parallels the vein at a distance of a few hundred feet. The contact of granite and limestone is steep and is not parallel to the bedding of the limestone, which dips north at 50 to 60 degrees. It may follow the big thrust fault in depth however; this thrust brings the Paleozoic limestone on Mesozoic shales.

The veins are developed by several shafts, one of which connects with a crosscut tunnel ~~XXX~~ at the bottom and has two intervening levels. A crosscut on the main level 20 feet above the tunnel level, shows two lead veins that carry from 6" to 30" of good lead ore. This ore occurs on two slips in places within each vein and it would be necessary to mine both slips together and sort to obtain complete extraction. In other places, the values are mainly on one slip. The veins may be readily traced on the surface for 6- or 700 feet. A composite of samples from 6 faces taken by Gregory assayed as follows: Au-0.02, Ag-9.40, Pb-8.6%, Zn-9.5%.

Gregory estimated that limestone would go to a depth of 500 feet to intrusive granite. This depth appears reasonable to the writer. If the granite does not intrude

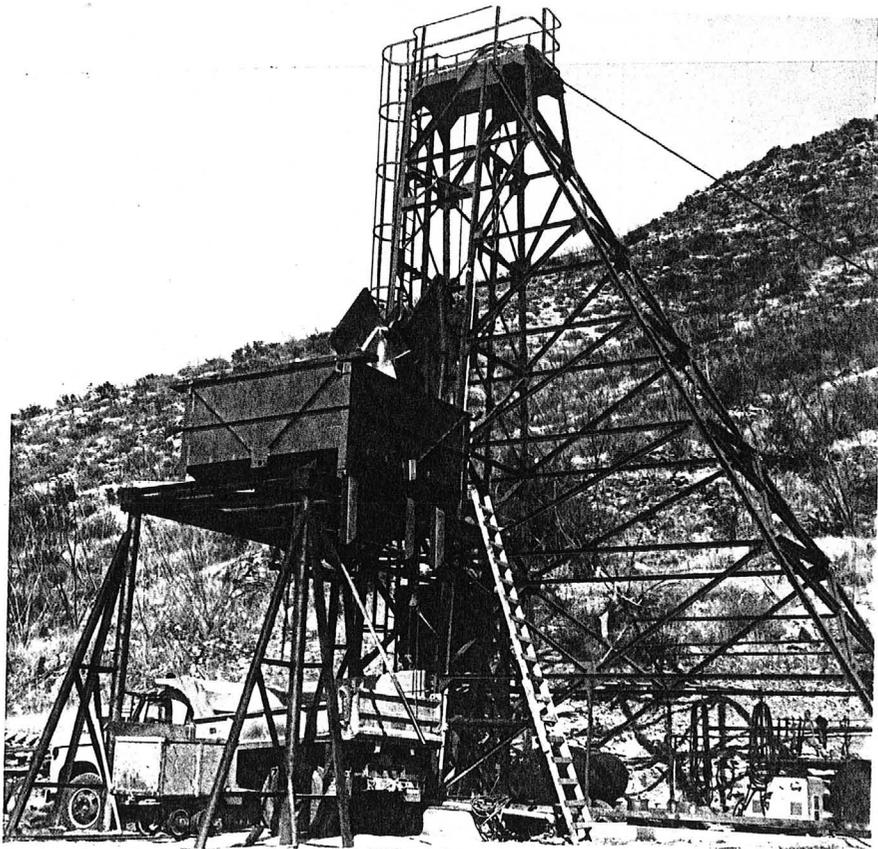
on the thrust plane, the veins will probably tighten upon encountering the Mesozoic shales beneath the thrust. The depth to the thrust is difficult to determine in this region because of intrusive and extrusives. However, it is estimated to be between 500 and 1000 feet below the surface at the Glove mine. It is dangerous to project Arizona thrust planes very far down the dip because of warping of the thrusts themselves and the presence of cross-faults of later date.

This property could be mined profitably in a small way. Each vein may be expected to pinch and swell so that the pay streak varies from 6" to 30" along the strike. It is doubtful that pinching and swelling would be as prominent down the dip of the veins for the movement on the slips is mostly lateral.

It would be necessary to repair three miles of very poor road near the mine; this could be done for \$1500. The haul to Amado is over fair road for the remaining 7.5 miles.

Estimation of tonnage is very difficult. It seems reasonable from present information, that 10,000 tons of ore could be developed over 600 feet of vein for each 100 feet of depth. Stopping widths would be the narrowest possible at most points along the vein.

Looks like a good thing for a lesser or small operator, if zinc can be handled

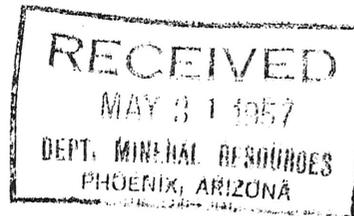


NOV 71

GLOVE MINE

Note: Will release this FOR PUBLICATION, as soon and if permission is granted for same by G. W. Irvin, General Manager.

Edward A. Mack, Box 52, Amado, Ariz. stated that he wanted to sell his 45% interest in the Glove Mine 146½ shares at \$300 per share or a total amt. of \$43,950, with one half cash and the balance in 2 or 3 years. - ALJ - WR- 7-29-57



GLOVE MINE

SANTA CRUZ COUNTY

Metal Mining and Processing March 1965 p. 34

Economic Geology Vol 61 June-July 1966 p. 731-743

ABM Bull. 180, p. 236

See map in brown map cabinet, Section 2

McFarland - Hullinger file

Arizona Mineral Commodity Update, dated 11-3-77, by D. D. Rabb, Bureau of Geology and Mineral Technology. (Filed in Zinc commodity file)

PAY VIRT 7/1969

Information from MINE INSPECTOR'S OFFICE - August 15, 1957

✓
GLOVE MINE, Amado, Ariz. 45 Claims Tyndall Dist., SANTA CRUZ CO. 3-5-57

✓
Owner - SUNRISE MINING CO., 708 Simons Bldg., Dallas, Texas
Operator - " " "
Pres - A. P. Simons " "
Sec - A. E. Mack, Box 53, Amado, Ariz.
Supt - F. G. Mack " " "

✓
Pb - Ag - 400 tons mo. Room - Pillar - 19 men working

L.A.S.

thin cover - minor cy float

100' windmill
MOEN

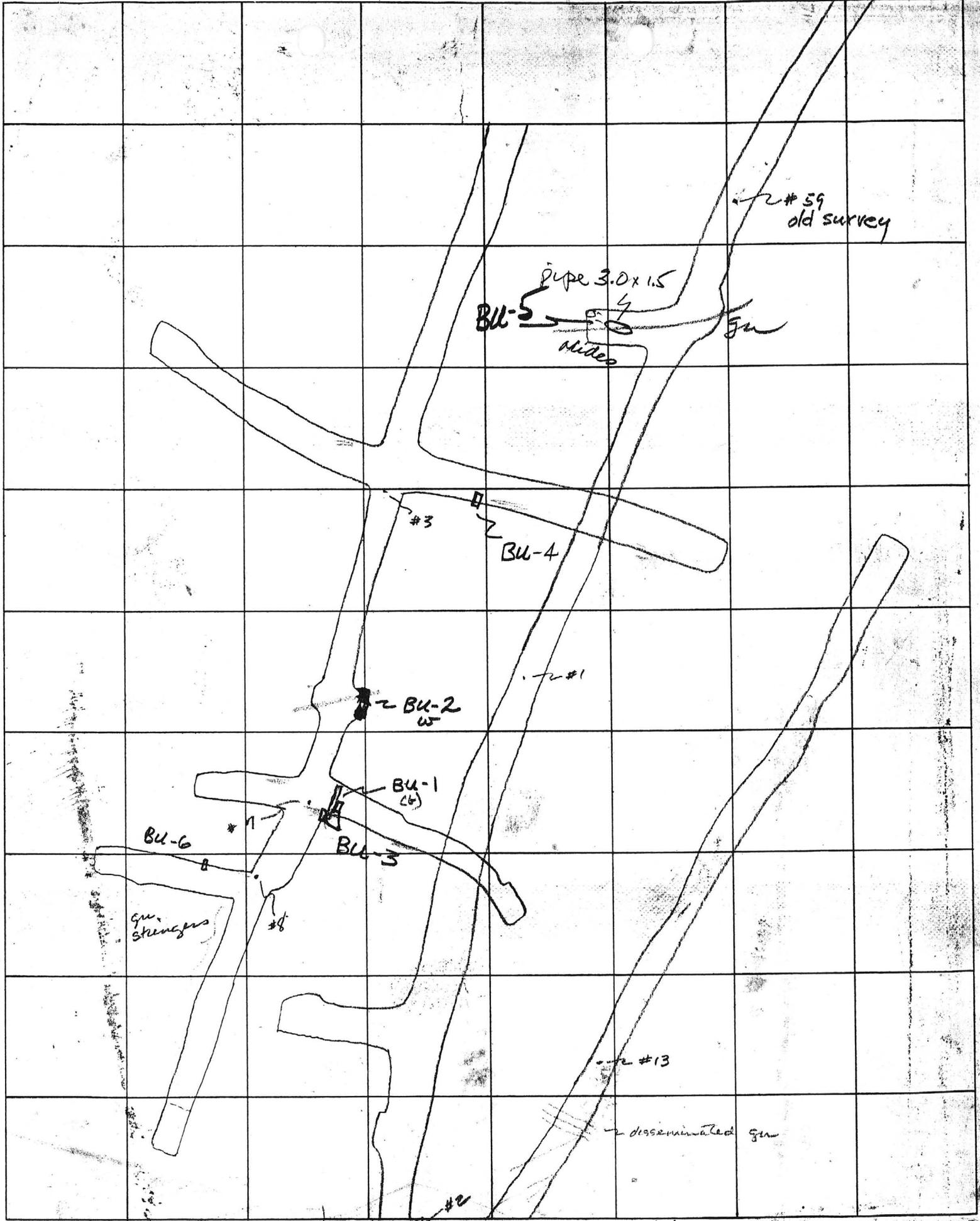
approximate
E side line

location
notice -
Esmeralda #1

location notice
Kella #1



MINE Esmeralda #1 Pros. LOCATION _____ LEVEL Surface
GEOLOGY BY RL SURVEY RL DATE 10 May 1958 SCALE 50
N _____ E _____ EL. _____



MINE Glove LOCATION Blacksmith LEVEL Upper
 GEOLOGY BY _____ SURVEY Assey DATE 23 July 58 SCALE 20
 N _____ E _____ EL. _____

COPY

GLOVE MINE ASSAY CERTIFICATE

Assayer: Ralph Peterson
Sahuarita Mill

6 May 1957

<u>Assay Number</u>	<u>Description</u>	<u>Ag</u>	<u>Pb</u>	<u>Zn</u>
1	Ex 240 Level	20.4	39.0	6.7
2		6.7	34.5	10.4
3		0.1	1.3	24.4
4		4.7	21.9	7.1
5		0.9	7.0	6.7
6		1.1	11.6	4.1
7		0.1	3.7	3.7
8			6.3	1.1
9		0.4	4.7	1.4
10		1.6	2.3	2.4
11		0.4	6.4	6.4
12		25.5	57.6	0.6
13		0.2	8.0	1.3
14		0.6	4.7	1.6
15		1.8	15.0	1.5
16		1.8	15.2	1.8
17		4.2	32.1	1.7
18		3.1	28.5	1.1
19		4.6	22.0	5.6
20		5.0	52.3	0.6
21		3.9	21.6	2.1

<u>Assay Number</u>	<u>Description</u>	<u>Ag</u>	<u>Pb</u>	<u>Zn</u>
1	L 4" W 4'	9.0	18.1	17.1
2	etc.	5.3	16.2	18.3
3		6.4	59.6	2.8
4		15.9	53.7	4.8
5		27.7	45.2	9.0
6		9.1	37.8	3.7
7*		22.5	38.3	4.1
8		2.5	39.3	3.1
9		12.7	59.0	5.9
10		1.6	10.0	16.8
11		5.0	6.2	2.0
12		1.7	22.2	5.5
13		0.4	3.1	3.3
14		8.5	49.4	1.0
15		2.7	23.5	4.3
16		10.8	35.8	1.8
17		6.5	14.2	2.9
18		3.3	44.9	3.7
19		2.9	30.1	

13 APRIL 1957

* Note: #7 as carbonate (cerussite) 35.8
sulfate (anglesite) 1.9

<u>Assay Number</u>	<u>Description</u>	<u>Ag</u>	<u>Pb</u>	<u>Zn</u>
21	L 4" W 2'	12.9	38.4	2.9
22	etc.	7.6	22.1	2.0
23		4.0	3.7	2.3
24		0.1	2.3	1.3
25		0.2	4.6	1.4
26		0.1	5.5	2.5
27		2.1	13.9	3.1
28		3.6	4.2	1.7
29		11.4	20.8	15.6
30		15.4	44.3	4.4
31		5.6	39.7	4.9
32		0.5	3.6	2.4
33		0.8	5.2	4.1
34		7.6	34.4	2.6
35		7.0	37.1	2.3
36		1.3	7.4	5.3
37		0.5	9.3	6.3
38		2.5	22.7	1.8
39		2.8	21.4	2.9
40		8.0	46.9	3.2

GLOVE MINE

SANTA CRUZ COUNTY

MG WR 5/3/85: Mr. E. A. McVey (c) reports that Sierrita Mining and Ranching will drill a hematite cap at the Glove mine (Santa Cruz Co.) in 1985. This hematite deposit occurs chiefly on the ~~Jerry~~ ^{Jerry} Claim. An attempt will be made to evaluate the tonnage and grade of the hematite to determine its suitability as a source of supply of iron oxide to the Arizona Portland Cement Co. operation at Rillito, Az.

CJH WR 5/3/85: Phone call: From Walter Fordham, Metals Economic Group, 1722 14th Street, Boulder, Colorado. 80302, phone (303) 442-7501. Wanted to determine status of activity at the Glove Mine, Tyndall district, Santa Cruz County and the Whitcomb mine, Pima District, Pima County. Both are dormant.

MG WR 8/9/85: For the record, the head frame at the C.F. & I. shaft at the Glove mine (Santa Cruz County) was purchased by Phelps Dodge and installed at the Edith shaft on the United Verde Extension property (Yavapai County) for PD's exploration program in 1982.

MG WR 8/9/85: Visited the Glove mine (Santa Cruz Co). Other than occasional mining and screening of the dump for road metal at the old Glove adit there is no regular activity. The Glove adit and the C.F. & I. (eastern) shaft were filled in and covered by Sierrita Mining & Ranching to discourage specimen hunters. On the upper road, toward the C.F. & I. shaft, is a series of percussion holes drilled in early August, 1985, by Sierrita. These holes were drilled to test a hematite deposit. The dirt road into the property from Amado was in good condition at the time of my visit; distance is about 10.7 miles.

NJN WR 8/23/85: Mr. E. A. McVey (c) reports that the drilling during August 1985, at the Glove (Santa Cruz Co) consisted of 12 to 14 holes, totaling about 1,000 feet. Each hole was 120 to 130 feet deep. Some holes were in hematite their entire length.

Do Not Reproduce

Mine visit - McFarland & Hullinger headquarters in Mammoth. They are still doing explomation work at the Glove mine. GWI WR 6/22/76

Mine visit, Glove Mine near Amado. Employing 6 men and driving a drift towards the orebody on the bottom level. GWI WR 9/1/76

Mine visit - Glove Mine. W.D. Nelson reports that they are drifting on the lower level and employ 7 men. GWI WR 11/18/76

WR GI - 7-18-77 - Art Still reported that McFarland and Hullinger are giving up their lease.

CJH WR 12/25/81: Visitor: E. A. McVey, Partner, Sierrita Mining and Ranching Co., Sasabe Star Rte., Box 25A, Tucson, AZ 85736. Tel: 791-2890. He researched the Glove Mine file, Santa Cruz County. He is an old friend and associate of Gerry Irvin.

MG WR 1/15/82: The Glove mine in Santa Cruz County is now owned by the Sierrita Mining and Ranching Co., Sasabe Star Route, Box 25-0, Tucson, AZ 85736, phone 625-1204. The property consisting of 42 multi-named lode claims was quit-claimed to the company by Abe Kalaf of Venture Drilling in Tucson who, in turn, had it quit-claimed to him by the Sunrise Mining Co., Simons Bldg, Dallas, Tx. 85201. Mr. E. A. McVey of Sierrita Mining informed me that the company will do some geologic evaluation and surface drilling on the property in 1982.

MG WR 5/13/83: Mr. E. A. McVey of the Sierrita Mining and Ranching Co. reports he is looking for a company to lease the Glove Mine. Sierrita still plans to do some drilling there, from the surface, this summer.

CJH WR 3/9/84: Visitor: Joe Smith, P.O. Box 69, Austin, Nevada 89310. Researched some land and mines in the Duquesne district, Santa Cruz County. He reported that the Glove Mine dump, Tyndall district, Santa Cruz County, is being screened and used as road metal.

CJH WR 3/23/84: Letter: Joe Smith (c) formerly with Bur. of Mines, Denver, reported that he visited the Glove Mine, Tyndall District, Santa Cruz County and there was no activity despite what he had reported (CJH WR 3/9/84). No activity in Washington Camp, Santa Cruz County either.

Do Not Copy

Mine visit at Glove mine, operating and shipping 50 tons per day to the Tonto Basin mill. coming from the 4th level but they hope to start on the 6th level soon. GI WR 3-29-74

The Glove mine is producing and shipping to the Tonto Basin mill. GWI AR 73-74

Mine visit at Glove mine. Talked to Wolf and Dan Huckins, was informed that Pollard Simons had died in November, but they were still operating. GWI WR 12/20/74

Jim Brooks came in to report that Glove mine maps had been mailed to the Sunrise Mining Company in Dallas, Texas. GWI WR 1/10/75

PAY DIRT for January 27, 1975

Western Prospector &
Miner, June, 1975

Regarding Irvin Wolfe's accident: He rode a runaway front end loader down a dump slope at the Glove mine and was thrown off resulting in broken arm, punctured lung, fractured skull, internal injuries, broken ribs and numerous cuts and abrasions. His condition has been unchanged for three days. VBD WR 6/5/75

Mine visit to Glove mine, Amado, too late to go underground; talked to Irwin Wolfe. Shipping to Tonto mill. Looked at mine geology maps and proposed drilling project. GWI WR 8/25/75

It is reported that McFarland & Hullinger are operating the Glove mine in Santa Cruz Count. They are sinking a shaft and plan a six month exploration program. VBD WR 2/24/76

GLOVE MINE

Do not copy

Irwin Wolfe of Sunrise Mining Company, Glove Mine, called regarding operations. They could not sell their hi-grade mixed ore. GWI WR 3/30/73

At Jim Brook's (C.F.I. Steel Corp.) invitation, I accompanied him to the Glove Mine, Tyndall Mining District, Santa Cruz Co., Arizona. We visited the 250' level in the oxidized portion of the mine and the 5th level in the massive sulfide ore zone. This visit enabled me to familiarize myself with the mining methods, type of mineralization, and the ore controls. Samples of lead and zinc ore were collected for dispensing to visitors at the Mineral Museum in Phoenix. A second trip included a brief field visit to the area Southeast of the Glove Mine where C.F.I. are conducting exploration by drilling. These two visits will be written up as separate mine visit reports. REL WR 8/15/73

Do Not Copy

Tel. Call. Mr. Ed Frohling wanted information on the Glove Mine, as his organization is interested in taking it over and operating. Explained some of the problems involved
GWI WR 8/16/72

Telephone call. Mt. States Engineering wanted information on the Glove Mine, Cottonwood Canyon, Tyndall district, Santa Cruz County. GWI WR 8/22/72

Telephone call. Mr. J. Brooks of CF&I regarding Glove mine and option on adjoining property. GWI WR 9/1/72

CF&I are continuing production from their Glove Mine with shipments of lead zinc ore to the ASARCO Deming mill. Production is all coming from a stope on the lower level. They are planning on doing some drilling on optioned property to the east as soon as title is assured. The geophysical work indicates an interesting anomaly. GWI 4 1/2 '72

Tel. Call. Mr. Jim Brooks regarding the Glove Mine. Want to drill option to the east as soon as a reasonable title can be secured. Do not have the mine leased but hope to do so soon. GWI WR 9/11/72

Office call. Mr. Jim Brooks to explain in more detail the problems at the Glove mine. GWI WR 9/12/72

O. C. Mr. Jim Brooks of CF&I Steel Corp. reported that the Glove Mine was being turned back to the owner, Mr. Pollard Simons (Sunrise Mining Co.) of Dallas, Texas. GWI WR 10/16/72

Santa Cruz County has approximately 400 tons of ore ready to ship. Grade reported to be 20 lead, 30 zinc. Cannot ship to mill and is not high enough to ship to a lead smelter. 5 men employed. Wolf is supt. operating company, Sunrise Mining Company, Dallas, Texas. A. Pollard Simons, President. The main shaft is 480 feet deep, the incline has been sunk from this level to 150' on a 60 degree incline. The east draft from this level is in a zone of crushed rock with heavy ground. GWI FT 3/6/73

Mine visit to Glove Mine. Irwin Wolf, Supt. 5 men working. Have approximately 400 tons ore stockpiled 20PB-30ZN. No place to ship to. GWI WR 3/6/73

Mine visit. Visited the Glove mine with Jerry Irvin and Phil Jenney. Mr. Jenney has been hired by Rosario Exploration Company to study the Glove mine. The mine was shut down for the Good Friday holiday. Mine superintendent, Irwin Wolfe, is living at the property. Mr. Wolfe stated that the mine owner, A. Pollard Simons, has instructed him to show the property to and assist any possible lessee. KAP Report 4/19,20/73

Do Not Copy

Mine visit - Glove mine. GWI WR 5-10-71

Mine visit - Glove Mine of CF&I Steel Corp. GWI WR 5-24-71

Mine visit - The Glove mine. GWI WR 7/3/71

Memo - 7-26-71 - CF&I in hi-grade at the Glove. 75HP hoist will not pull loaded skip so are having to put false bottom in ekip to lighten load and allow skip to also dump in the scroll

Mine visit - Glove Mine, talked with Mine foreman, Irwin Wolfe. GWI WR 9/9/71

Mine visit - Glove Mine, sinking winze from lower level. Note: Many Hippies and Hunters in Oro Blanco area. GWI WR 11/9/71

The Glove Mine in the Tyndall district being explored by CF&I has shipped some hi-grade ore to the ASARCO mill at Deming. A little more development work is planned. GWI QR 9/71

The Glove Mine started shipping a couple of cars of lead zinc ore weekly to the Groundhog N.M. mill of ASARCO. Most of this is from development work. GWI QR Oct-Dec '71

Glove Mine, 13 men sinking incline below bottom level. GWI WR 1/25/72

Mine visit. Glove mine with Mr. J. Brooks & Don Howe of Tonto Fluorspar. GWI WR 6/1/72

Jim Brooks, geologist for C. F. & I. was in to say they wished to dispose of their lease on the Glove mine east of Amado. He says the ore they have had milled at the AS&R plant in Deming, New Mexico has averaged 19% P^b, 25% Zn and 5-9 oz. Ag/ton. The deposits vary from 2-18 feet in width in limestone. The shaft is 450 ft. deep with a 75 HP electric single drum hoist on a 2 ton skip. GW 5/31/72

The Glove mine of CF&I produced during the period and a 60 degree incline was started dipping east on the bottom level. The ore was being shipped from the old Esperanza Ramp to the Ground Hog mill at Deming. GWI QR Jan.-March'72

Telephone call. Mr. Jim Brooks of CF&I regarding information on three companies that are interested in leasing the Glove mine from CF&I. GWI WR 7/5/72

Office call. Mr. Jim Brooks of CF&I Steel Corp. reports that the Glove mine has produced approx. 5,000 tons of ore that ran 18% lead, 28% zinc and 7 ounces of silver per ton to the Deming mill. The value of this is approximately \$775,000. To date this would give the Glove mine a recorded production of \$1,775,000 total. (estimate by GWI) He discussed a proposed drilling program to the east of the ore bodies. GWI WR 7/12/72

Do Not Copy

The CF&I finished the first phase of their drilling program at the Glove Mine. The shaft was then dewatered so that the lower level could be surveyed and geologically mapped. GWI QR 9-1969

CF&I Steel Corp. pumped out the Glove Mine for a Survey and geological mapping of the bottom level. Drilling is expected to resume in the near future. GWI QR 2-27-70

Active Mine List May 1970 - Expl. - James R. Brooks - CF&I
Active Mine List Oct.1969 - Expl. - " " " "
Active Mine List Oct. 1970 - 5 men - Jack D. Gillespie, Foreman, CF&I

Mine visit to Glove Mine - shaft down 60'. GWI WR 11-14-70

Phone call from Jim Brooks, CF&I that Glove shaft broke thru to raise. GWI WR 12-26-70

CF&I Steel Corp. have completed the connection and repair work in the vertical shaft at the Glove mine and will start development. GWI QR 4-1-71

GLOVE MINE

SANTA CRUZ COUNTY

Do Not Copy

Visit to Glove Mine. Mr. Harry Lehman, Mgr., says that they were doing development work at the present time. GWI WR 3-5-66

Mine visit to Glove Mine near Amado - still operating. GWI WR 9-10-66

Active Mine List April 1967 - 5 men working

Shut down November 1967

The Glove mine has not operated during this time. The ore bin is full of ore and no place to ship. GWI QR 4-1968

It is reported that Arivaca Mining Co. had left Glove. GWI WR 6-30-68

Mine visit to Glove Mine - Sec. 30, R14E, T20S. Not operating at present. Arivaca Mining Co. appears to have moved. GWI WR 9-14-68

Taken over by CF&I - 2-1969

The Glove mine was idle. Arivaca Mining Co. (License revoked by Corp. Comm.) gave up their lease. GWI QR 12-1968

CF&I drilled one 2000' hole that bottomed in Permian. Another hole will be started immediately. GWI QR 3-1969

Active Mine List April 1969 - Expl. - James Brooks, geol. - CF&I Steel Corp.

J. R. Brooks called re drilling at Glove - gave him maps on property. GWI WR 5-19-69

GLOVE MINE

SANTA CRUZ COUNTY

G. W. Irvin said that the Glove Mine was now under lease to Arivaca Mining Co.
ALJ WR 12-12-64

RECNO D000342
REC_TYPE S
USER_FIELD *U94/4
REP_DATE 83 05
FIL_LINK USBM 004 023 0199, PMR CIMRI
REP PETERSON, JOCELYN A.
REP_AFF USGS
SYN SHEEHY-O'DONNELL MINE, ROVER CLAIM, ZOMBIE & ZECO CLAIMS,
BLACKSMITH ADIT, O.K. MINE, FESTIAGO-FRANKLIN
DIST TYNDALL DISTRICT
COUNTY SANTA CRUZ
STATE_CODE AZ
CTRY_CODE US
PHYS 12 BASIN AND RANGE
DRAIN 15
LAND_ST 41
ELEV 4300 FT
UTM_N 3502500
UTM_E 505100
UTM_Z +12
ACC A UNKNOWN PRECISION
TOWNSHIP 020S
RANGE 014E
SECTION 30
SECT_FRACT CENTER & SW/4 OF SE/4
MERIDIAN GILA AND SALT RIVER
POSITION 0.5 MI N OF COTTONWOOD CANYON; 6.5 MI SE OF MT WRIGHTSON.
LOCATION INFO FROM LAND.ST :(1979)
SITE GLOVE MINE GROUP
LAT 31.6597
LONG -110.9464
CTRY_NAME UNITED STATES
COMMOD PB ZN AG CU AU MO MN
ORE_MAT ARGENTIFEROUS GALENA, SPHALERITE, WULFENITE, PYRITE,
CHALCOPYRITE, CERUSSITE, ANGLITESITE, SMITHSONITE, COVELLITE,
VANADINITE, MIMETITE
MAJOR PB ZN AG
MINOR CU
CLH_USE 94/07/28
TRACE AU MO MN
PROD S
LOC_STRUCT ABUNDANT BEDDING PLANE FAULTS; MAJOR FAULTS N60-75W, DIP 60
NE, N60E, DIP 60S, GLOVE FAULT
STATUS 6
DISC DAN J. SHEEHY, EDWARD T. SHEEHY, JERRY SHEEHY, PAT J.
SHEEHY, AND A. O'DONNELL
YR_DISC 1907
NAT_DISC B
YRFST_PROD 1911
YRLST_PROD 1976
OPER COLORADO FUEL AND IRON STEEL CORP (1972)
EXPL_COM PREVIOUS OWNERS INCLUDE SUNRISE MINING CO (1951-59) SANTA
CRUZ SILVER-LEAD CO. (1917), ARIVACA MINING CORP (1965-67),
COLORADO FUEL AND IRON STEEL CORP, E.A. MEEK(1954), SHEEHY
BROS(1911-16), E.J. SIKES (1 949), FESTIAGO (1928), HARPER
(1942); 55 CLAIMS IN GROUP IN 1957
DEP_TYPE FISSURE FILLING, REPLACEMENT
DEP_SIZE S
DDESC_COM ARGENTIFEROUS GALENA, SPHALERITE, AND SMALL AMOUNTS OF
PYRITE, CHALCOPYRITE, AND QUARTZ WERE DEPOSITED IN PERMEABLE

USGS - MROS

PRINTED 1/98

ZONES AT THE INTERSECTION OF A BEDDING PLANE FAULT AND FAVORABLE BEDS IN PENN-PERM NACO LIMESTONE. EXTENSIVE SOLUTION OF THE LIMESTONE AND DEEP OXIDATION CONCENTRATED CERUSSITE, ANGLSITE, WULFENITE, AND SMITHSONITE IN THE LEACHED CAVERNS AS SAND CARBONATE ORES.

QUAD250 NOGALES
DEPTH_WK 360
D_W_U FT
LEN_WK 5000
L_W_U FT
DWORK_COM 5 SHAFTS & ADIT OPERATIONS; 2 OLD 75' SHAFTS, 1 SHAFT 360 FT DEEP, 500 & 600 FT TUNNELS, 66 FT WINZE.
MIN_AGE LCRET
NORE_MINS QUARTZ, CHLORITE, LIMONITE, SPECULARITE, WAD, CALCITE, GYPSUM
ORE_CNTL PERMEABLE FAULT ZONES, BRECCIATION AT FAULT INTERSECTIONS, CONTACT OF LATITE PORPHYRY & LIMESTONE
ADMIN_AREA CORONADO NATIONAL FOREST
TECT_SET BASIN AND RANGE
ALTER OXIDATION, SILICIFICATION, SERICITIZATION, KAOLINIZATION, RECRYSTALLIZATION OF LIMESTONE
CONC DEEP OXIDATION
HRU_AGE PENN-PERM
HRU_NAME NACO LIMESTONE
ARU_AGE |CRET
ARU_NAME |SALERO FM
CONT_CODE NA
GEOL_COM QUARTZ MONZONITE IS CORRELATED WITH SQUAW GULCH GRANITE.
GEN_COM THIS REPORT REPRESENTS A MERGER OF ORIGINAL RECORD D000342 WITH RECORD M030408 OF JAN WILT IN MOLYBDENUM FILE, CONTACT PERSON T.G. THEOD ORE, USGS ; INFO.SRC : 1 PUB LIT; 2 UNPUB REPT
REF OLSON, 1966, ECONOMIC GEOLOGY, V. 61, NO. 4, P. 731-743. |SEE, 1964, MS THESIS, UNIV OF AZ. |DREWES, 1971, USGS MAP I-614. |ABGMT FILE DATA, STANTON B. KEITH. |KEITH, 1975, ABM BULL 191. |USGS BULL 582, P. 185. |ABGMT-USBM FILE DATA |USBM FILES, GLOVE MINE GROUP. |TENNEY, 1927-29, HISTORY OF MINING IN AZ, ABM, P. 319. |SAWYER, M.B., GURMENDI, A.C., DALEY, M.R., AND HOWELL, S.B., 1992, PRINCIPAL DEPOSITS OF STRATEGIC AND CRITICAL MINERALS IN ARIZONA: U.S. BUREAU OF MINES SPECIAL PUBLICATION, 334 P.
CONT_NAME NORTH AMERICA
STATE_NAME ARIZONA
WORK_TYPE U
CP_ITEM ORE
CP_ACC ACC
CP_AMT 29.260
CP_U TONS
CP_YEAR 1911-1972
CP_GRADE 7 OZ/T AG, 22% PB, 9% ZN, 0.3% CU, MINOR AU
AP_SOURCE KEITH, 1975.
ENV_COM HYDROLOGIC UNIT CODE CALCULATED 3-94 USING GIS OVERLAY ANALYSIS WITH 1:1000000(EST) SCALE FEDERAL OWNERSHIP BOUNDARIES.
UPD_DATE 82 04
UPDATER CALDER, SUSAN R.
COMMOD_TYP M
QUAD6250 MT. WRIGHTSON
DATE_ISSUE 95/5/18
UPD_AFF ABGMT

PROF_ID 100
PROF_LOC 100
PF_COMMOD 100
PROF_EXPL 100
PFDESC_DEP 25
PFDESC_WRK 100
PROF_GEOL 100
PROF_REF 100
PPROD_RESV 20
PROF_ALL 82
HR_AGE_MV PENN - PERM
HR_TYPE_MV LIMESTONE
HR_NUMBER 1
AR_AGE_MV JUR|CRET
AR_TYPE_MV QUARTZ MONZONITE|RHYODACITE WELDED TUFF
AR_NUMBER 1|2
DEP_CODE 11100
HUC 15050301

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES

INFORMATION FROM MINE CARDS IN MUSEUM

ARIZONA

SANTA CRUZ CO.

Santa Rita Mts.

Tyndall District

Cottonwood Canyon

Glove Mine

MM 1347	Wulfenite
MM 1745	Wulfenite
MM 8563	Wulfenite
MM 8564	Wulfenite
K 664	Wulfenite
MM K 879	Wulfenite

MILS # 121

5-AKA's

Glove mine (full)

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES

INFORMATION FROM MINE CARDS IN MUSEUM

USA Arizona, Santa Cruz Co.
Cotton Canyon
Glove mine

MM M 122 Wulfenite
M 128 "

4 MILS #121

5-AKA₂

Glove mine (old)

Mine Office - Sahuarita, Ariz.

Phoenix, Arizona
October 4, 1957

TO: ARIZONA LEAD-ZINC PRODUCERS

The Emergency Lead-Zinc Committee filed a formal petition with the Tariff Commission on September 27th and it needs the support of all producers of these metals.

Mr. C. E. Schwab, Chairman of this industry committee has requested the information listed on the questionnaire below, which we ask you to fill in and return to us as soon as possible. Your very prompt answer is urged because the information must be assembled and forwarded for use within the next few weeks.

We thank you for your immediate attention.

Yours very truly,

Frank P. Knight
FRANK P. KNIGHT, Director

LEAD-ZINC QUESTIONNAIRE

October 6 1957.

Do you approve of the Emergency Lead-Zinc Committee's seeking relief for the lead-zinc industry and has it your authorization to speak for you? _____

What Arizona Mines and Mills in the lead-zinc class do you control?

(1) GLOVE

(2) _____

Which ones are operating? (1) GLOVE (2) _____

If not operating, when shut down? (1) _____ (2) _____

Number employed, prior to shut-down, in mine, mill or sections thereof producing lead or zinc ores? (1) 15 (2) _____

Number so employed on January 1, 1957? (1) 20 (2) _____

Number so employed on October 1, 1957? (1) 15 (2) _____

Remarks _____

Sunrise Mining Co
Company

By: *G. L. Jones*
Signature

Please fill in NOW, tear off, and mail to:

Arizona Department of Mineral Resources
Mineral Building, Fairgrounds
Phoenix, Arizona

ARIZONA DEPARTMENT OF MINERAL RESOURCES
Mineral Building, Fairgrounds
Phoenix, Arizona

1. Information from: Jack Gillispie & Jim Brooks
Address: Green Valley
2. Mine: Glove 3. No. of Claims - Patented 0
Unpatented _____
4. Location: Cotton Canyon Santa Cruz Co.
5. Sec _____ Tp _____ Range _____ 6. Mining District: Tyndall
7. Owner: Sunrise Mining Co.
8. Address: Dallas Tex.
9. Operating Co.: C F & I Steel Corp.
10. Address: Scottsdale
11. President: _____ 12. Gen. Mgr.: Jack Gillispie
13. Principal Metals: _____ 14. No. Employed: 7
15. Mill, Type & Capacity: _____
16. Present Operations: (a) Down (b) Assessment work (c) Exploration
(d) Production (e) Rate _____ tpd.
17. New Work Planned: _____
Starting Drift on Bottom level
Shaft complete with steel headframe, Ore bin
18. Miscl. Notes: Skip & Cage

Date: 5-21-71

Herb
(Signature)

(Field Engineer)

ARIZONA DEPARTMENT OF MINER RESOURCES
Mineral Building, Fairgrounds
Phoenix, Arizona

1. Information from: Personal Visit
Address: _____
2. Mine: Glove 3. No. of Claims - Patented None
Unpatented _____
4. Location: Cottonwood Canyon
5. Sec 30 Tp 20S Range 14E 6. Mining District Tyndall
7. Owner: Sunrise Mining Co.
8. Address: Dallas, Texas
9. Operating Co.: CF&I Steel Corp.
10. Address: Scottsdale, Arizona
11. President: _____ 12. Gen. Mgr.: _____
13. Principal Metals: _____ 14. No. Employed: _____
15. Mill, Type & Capacity: _____
16. Present Operations: (a) Down (b) Assessment work (c) Exploration
(d) Production (e) Rate _____ tpd.
17. New Work Planned: _____

18. Miscl. Notes: The drill hole from the surface to the vertical shaft raise has been completed and sinking is scheduled to commence shortly. The distance was 128 ft. and was drilled with a percussion drill. The rock was too hard to ream. No one was around at the time of the visit. A truckload of mine timber was on the mine dump having been dumped last Thursday.

Date: 7-7-70

(Signature)

G.W. Irvin
(Field Engineer)

ARIZONA DEPARTMENT OF MINERAL RESOURCES
Mineral Building, Fairgrounds
Phoenix, Arizona

1. Information from: Mine visit
Address: _____
2. Mine: GLOVE 3. No. of Claims - Patented NONE
Unpatented _____
4. Location: COTTONWOOD CANYON SANTA RITA MTS.
5. Sec 30 Tp 20S Range 14E 6. Mining District TYNDAL
7. Owner: SUNRISE MINING COMPANY
8. Address: DALLAS TEXAS
9. Operating Co.: CF&I STEEL CORP.
10. Address: 7503 EAST OSBORN RD. SCOTTSDALE ARIZONA
11. President: _____ 12. Gen. Mgr.: _____
13. Principal Metals: LEAD SILVER ZINC 14. No. Employed: EXPLORATION
15. Mill, Type & Capacity: _____
16. Present Operations: (a) Down (b) Assessment work (c) Exploration
(d) Production (e) Rate _____ tpd.
17. New Work Planned: To complete underground main shaft to the surface to
eliminate double hoisting, development of drilled ore intersections, to
mine same and ship to the ASARCO mill in Deming
18. Misl. Notes: _____

Date: 5-5-70


(Signature)

(Field Engineer)

ARIZONA DEPARTMENT OF MINERAL SOURCES
Mineral Building, Fairgrounds
Phoenix, Arizona

1. Information from: Jim Brooks & Personal Visit
Address: Scottsdale, Arizona
2. Mine: Glove 3. No. of Claims - Patented None
Unpatented 10+
4. Location: Cottonwood Canyon
5. Sec 30 Tp 20S Range 14E 6. Mining District Tyndall
7. Owner: Sunrise Mining Co.
8. Address: Dallas, Texas
9. Operating Co.: CF&I Steel
10. Address: Scottsdale, Arizona
11. President: _____ 12. Gen. Mgr.: _____
13. Principal Metals: Pb - Ag 14. No. Employed: _____
15. Mill, Type & Capacity: None
16. Present Operations: (a) Down (b) Assessment work (c) Exploration
(d) Production (e) Rate _____ tpd.
17. New Work Planned: 2 more holes

18. Misc. Notes: _____
Drilling a second hole as of this date.

Date: 5-6-69

G.W. Irvin
(Signature) (Field Engineer)

ARIZONA DEPARTMENT OF MINERAL RESOURCES

Mineral Building, Fairgrounds

Phoenix, Arizona

1. Information from: Engineers visit
Address: _____
2. Mine: Glove 3. No. of Claims - Patented none
Unpatented 10 plus
4. Location: Cotton wood canyon,
5. Sec. 30 Tp. ~~14N~~ 20S Range 14E 6. Mining District Tyndall
7. Owner: Sunrise Mining Co.
8. Address: Dallas Texas
9. Operating Co.: CF&I Steel Corp
10. Address: Scottsdale Arizona
11. President: _____ 12. Gen. Mgr.: _____
13. Principal Metals: Pb-Ag 14. No. Employed: Exploration
15. Mill, Type & Capacity: None
16. Present Operations: (a) Down (b) Assessment work (c) Exploration
(d) Production (e) Rate _____ tpd.
17. New Work Planned: Have put in drill sites. For drill holes.
18. Misc. Notes: At present are deepening drill hole that was drilled
a few years ago. (not for publication at this time)

3-26-69

Date: _____


(Signature)

(Field Engineer)

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine ✓ Glove

Date September 3, 1959

District Tyndall, Santa Cruz County

Engineer Axel L. Johnson

Subject: Present Status -- Information from W. G. Irvin

Reference: Report of February 26, 1959.

Present Mining Activity: Development work consists of drifting, raising, crosscutting and long hole drilling. No stoping at present and no ore shipments. 7 men working, 5 underground and 2 on the surface.

Mr. Irvin reports property closing down. FPK 9-29-59

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

FIELD ENGINEERS REPORT

Mine Glove Mine

Date March 13, 1958

District Tyndall District, Santa Cruz Co.

Engineer Axel L. Johnson

Subject: Present Status. Personal visit and information from G.W. Irvin, General Manager

References Reports of May 16, 1957, June 26, 1957 and previous reports

Location Sec. 29 -- T 20 S -- R 14 E. About 8 miles E. of Amado.

Number of Claims 65 unpatented claims.

Owners Sunrise Mining Co., Simons Bldg., Dallas, Texas.

Most of the stock is owned by Pollard Simons of the above address.

G.W. Irvin, P.O. Box 512, Sahuarita, Arizona is General Manager of the mining operations.

Alfred M. Durazo is Mine Foreman.

Principal Minerals Lead ores -- mixed sulphides and carbonates

Present Mining Activity Production of lead ore, shipping same to the A.S. & R. Smelter at El Paso, Texas. Production now about 25 tons per day or 600 tons per month. 15 men working on a 1 shift operation. In addition, some exploration work is also being done.

Geology and Mineralization See report of Dec. 3, 1954.

Additional -- Mr. Irvin reports that the quartz monzonite porphyry dyke, which intrudes through the limestone is from 5 to 25 feet wide, averaging about 15 feet in width. Also that this dyke strikes E. & W, dips about 55 degrees to the N. and pitches 25 degrees to the E.

Ore Values Lead 20 to 22%; Silver 4 to 6 oz.; Zinc 2 to 8%

Ore in Sight and Probable Not reported.

Milling and Marketing Facilities No mill on the property. Ore is trucked to Amado (8 miles), and shipped from there to the A.S. & R smelter at El Paso.

Past History See report of May 16, 1957.

Mine Workings

- (1) Two old shafts, each about 75 ft. deep.
- (2) Old Tunnel --- 500 ft. long, with 200 ft. of cross cuts and 200 ft. of raising, with a number of worked out stopes. Mostly milling ore with high zinc content.
- (3) New Tunnel --- 600 ft. long, with 600 ft. of cross cuts, 300 ft. of raising, and a 210 ft. inclined winze (incl. 57 deg.) below same.
- (4) Main shaft --- 360 ft. deep (incl. 57 deg. to N.), intersecting the New Tunnel at a depth of 110 ft., with an ore bin above the New Tunnel, and gallows frame at surface.
- (5) Worked out stopes above the 210 ft. level (210 ft. below the New Tunnel)
- (6) 700 ft. of drifting on the 240 ft. level.
- (7) 1 winze below the 240 ft. level --- 66 ft. deep.
- (8) 140 ft. of drifting on the 300 ft. level

Glove Mine (continued)

ore skip. The ore is then hoisted up the incline shaft and dumped into the ore pocket above the adit level and from there drawn into ore cars and hand trammed about 600 ft. on this level, and dumped into the surface ore bin.

From the surface ore bin, it is drawn into trucks for haulage to Amado, from where it is shipped to the smelter at El Paso.

Proposed Plans: To obviate the necessity of so much hand tramping (now over 1200 ft.) and transfer of the ore into a skip and then back into ore cars, a new hoisting shaft is planned.

As soon as the shaft raise, now being put up, is completed to the surface, this will be enlarged and timbered to shaft dimensions (about 7' x 9'), providing a vertical hoisting shaft from the surface to the 360 ft. level. A surface ore bin will be constructed next to the shaft, and truck access roads leading to same.

However, as the various ore pipes pitch about 50 degrees to the east, and the shaft will be vertical, there will still be a considerable amount of hand tram, increasing as the shaft is extended to additional depths.

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

FIELD ENGINEERS REPORT

Mine Glove Mine

Date March 13, 1958.

District Tyndall District, Santa Cruz Co.(continued) Engineer Axel L. Johnson

Subject: Present Status. Personal visit and information from G.W. Irvin, General Manager

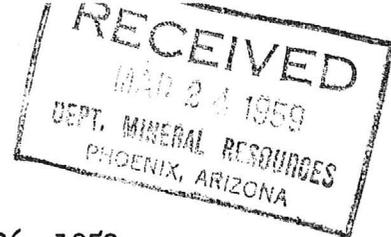
Present Mining Operations Mining operations at the present time, are conducted by stoping on and above the 240 ft. level. Ore is trammed to the main shaft, hoisted and dumped in an ore pocket above the New Tunnel, from where it is dropped into ore cars and hand trammed for 550 ft. through the New Tunnel and dumped into the surface ore bin. From this ore bin, it is dumped into trucks for haulage to Amado. Exploration and development has consisted of the sinking of a 66 ft. winze below the 240 ft. level and drifting on the 300 ft. level.

Proposed Plans Operators plan on putting in a new vertical shaft from the 300 ft. level to the surface. The present 66 ft. winze will be used for the bottom 66 ft. of the shaft. The remainder of the shaft will be constructed by raising above the winze, starting on the 240 ft. level.

Surface roads to the top of the shaft will be constructed so that the ore trucks can load the ore at the shaft, for haulage to Amado.

This will save hand tramping the ore a distance of 550 ft. from the ore pocket to the surface ore bin.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT



Mine Glove Mine Date February 26, 1959
District Tyndall District, Santa Cruz Co. Engineer Axel L. Johnson
Subject: Present Status. Personal visit & information from Alfred M. Durazo, Mine Supt.

References: Report of March 13, 1958 and previous reports.

Location: Sec. 29, T. 20 S., R. 14 ~~E~~ -- About 8 miles east of Amado.

No. of Claims: About 40 unpatented claims. Several claims, previously located, have been dropped.

Owners & Operators: Sunrise Mining Co., Simons Bldg., Dallas, Texas. Most of the stock is owned by Pollard Simons of the above address. G. W. Irvin, P.O. Box 512, Sahuarita, Arizona, is General Manager of the mining operations. Alfred M. Durazo is Mine Superintendent.

Principal Minerals: Lead ores -- mixed sulphides and carbonates.

Present Mining Activity: Production of lead ore, hauling ore to Amado for shipment to the A. S. & R. smelter at El Paso, Texas. The ore hauling is contracted for to Rudy Soto, 125 Cordwell St., Nogales, Arizona.

Production now averages about 20 tons per day or 450 tons per month. 13 men are working on a 1 shift operation, 11 of these on production.

In addition to the ore production, a raise is being put up to the surface to be converted to a shaft later on. 2 men working in the raise.

Ore Values: Reported by Mr. Durazo as about 24% lead and 15 oz. of silver.

Mine Workings: See report of March 13, 1958. Since this report, the following additional mine developments have been made:

- (1) The winze below the 240 ft. level has been extended to a depth of 126 ft.
- (2) 160 ft. additional drifting on the 300 ft. level now totaling 300 ft.
- (3) 350 ft. of drifting on the 360 ft. level.
- (4) Shaft raise above the 240 ft. level is now up 110 ft. above this level. This is directly above the winze described in (1), and will be extended to the surface and ~~connected~~ ^{converted} into a hoisting shaft later on.

Present Mining Operations: One stope is being worked at present. This is a 6 ft. diameter pipe, pitching about 50 degrees to the east.

A second stope will be ready for operations in a few days. This is a 10 ft. diameter pipe, also pitching about 50 degrees to the east.

The ore is scraped down the 50 degree incline of the stope to the 360 ft. level, and loaded into ore cars with a mucking machine.

The ore cars are hand trammed about 200 to 300 ft. on the 360 ft. level, hoisted up the winze to the 240 ft. level, hand trammed about 400 ft. on this level, and dumped in the

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Glove Mine

Date May 16, 1957

District Tyndall District, Santa Cruz Co.

Engineer Axel L. Johnson

Subject: Present Status. Personal Visit & information from the operators.

Location Sec. 29 -- T 20 S -- R 14 E. About 8 miles E. of Amado.

Number of Claims 65 claims, as reported by Alfred Durazo, Mine foreman. 6 of these have been located since Mar. 28, 1957.

Owners Sunrise Mining Co., Simons Bldg., Dallas, Texas. Most of the stock is owned by Pollard Simons, Simons Bldg., Dallas, Texas, and Edward A. Mack, Box 52, Amado, Ariz. G. W. Irvin, P. O. Box 512, Sahuarita, Ariz. is the General Manager. Alfred Durazo, 817 W. Iowa, Tucson, Ariz. is the Mine Foreman.

Principal Minerals Principally lead, with some silver. Mostly lead carbonates.

Present Mining Activity Production of lead ore, shipping to A. S. & R. smelter, El Paso Production is 20 to 25 tons per day, or about 500 to 600 tons per month. 15 men working.

Geology See my report of this property under date of Dec. 3, 1954.

Ore Values Approximately the same as shown in my report of Dec. 3, 1954.

Ore in Sight & Probable No report of same, as yet, available from the operators.

Mine Workings (1) Old Tunnel --- 500 ft. long, with 200 ft. of cross cuts and 200 ft. of raising, with a number of worked out stopes. Mostly milling ore with high zinc content
(2) New Tunnel --- 600 ft. long, with 600 ft. of cross cuts, 300 ft. of raising, and a 210 ft. inclined winze (incl. 57 deg.) below same.
(3) Main shaft --- 360 ft. deep (incl. 57 deg. to N.), intersecting the New Tunnel at a depth of 110 ft., with an ore bin above the New Tunnel, and gallows frame at surface. (reported on Nov. 16, 1956 report as Winze # 1)
(4) Two old shaft, each about 75 ft. deep.
(5) Worked out stopes above the 210 ft. level.
(6) 600 ft. of drifting on the 210 ft. level (210 ft. below the New Tunnel)
(7) 240 ft. of drifting on the 240 ft. level, this connecting up with the Main shaft.

Present Mining Operations Mining operations are conducted by stoping on and above the 240 ft. level at the present time. One large stope (15 ft. wide from footwall to hanging wall) is now being worked, besides 2 relatively narrow fissures. A cross cut is also being driven from the 240 ft. level going SE. Ore dumped in ore bin on the New Tunnel and hand trammed into surface ore bin. Mine now being surveyed and mapped.

Past History (1) Mine operated by Edw. T. Sheehey intermittently & with leases 1908-51.
(2) Sunrise Mining Co. leased the property from Mr. Sheehey in 1951. Ross Barclay operated the mine for Sunrise Mining Co. on a contract basis from 1951 to Jan. 1, 1954.
(3) Sunrise Mining Co. operated the property, with Edw. A. Mack in charge of operations, for which he received a certain amount of company stock (reported as about 40%) from Jan. 1, 1954 to March, 1957.

(4) Company reorganized, with more stock issued, and with G. W. Irvin appointed as General Manager in charge of operations --- March, 1957. Alfred Durazo employed as Mine Foreman on Mar. 28, 1957.

(5) Mar. 28 to Apr. 23, mine shut down for repairs and retimbering. Ore production resumed on Apr. 24, 1957.

Proposed Plans Planning to sink a new shaft in E. part of ore body. This shaft will start as a winze below the 240 ft. level.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine **Glove Mine**

Date **June 26, 1957**

District **Tyndall District, Santa Cruz County.**

Engineer **Axel L. Johnson**

Subject: **Present Status. Information from G. W. Irvin, General Manager. No visit.**

References Report of May 16, 1957.

Changes from report of May 16, 1957

Present Mining Activity Production of lead ore, shipping to the A. S. & R. smelter at El Paso. Production now increased to about 180 tons per week, or 750 tons per mo. Mine working one shift, with 12 men working underground. About 16 men in all.

Ore Values Lead -- 21 %; Silver -- 4 oz.; Zinc -- 2 % (not paid for)

Proposed plans

- (1) To sink a new shaft in the east part of the ore body. This shaft will be started as a winze below the 240 ft. level.
- (2) Present plans are to maintain present production rate, with hopes for a slight increase.
- (3) Mr. Irvin, General Manager, expressed interest in a D. M. E. A. loan for ~~the~~ exploring part of the property.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Glove Mine

Date Nov. 16, 1956

District Tyndall District, Santa Cruz Co.

Engineer Axel L. Johnson

Subject: Present Status. Personal Visit & Information from the owners.

Location Sec. 29 -- T 20 S. -- R 14 E. About 8 miles east of Amado.

Number of Claims 17 unpatented claims.

Owners Sunrise Mining Co., Simons Bldg., Dallas, Texas. This company is composed of the following individuals: (1) Pollard Simons, Simons Bldg., Dallas, Texas. (2) Edward A. Mack, Box 52, Amado, Ariz. The lease, with option to buy, from the former owner, Edward T. Sheehy, was paid up in full last summer.

Operators Same as above.

Principal Minerals Principally Lead, with some Silver.

Number of Men Employed 20 men. Two shifts, working 6 days per week.

Production Rate About 9 carloads, or about 450 tons per month. Operators expect to increase production considerably, after the completion of the new hoisting arrangement.

Geology See report of Dec. 3, 1954.

Ore Values Ore approx. the same as reported in the report of Dec. 3, 1954.

Milling and Marketing Facilities No mill on the property. Ore is trucked to Amado, 8 miles, and then shipped to the A. S. & R. smelter at El Paso, Texas.

Mine Workings (1) Old Tunnel -- 500 ft. long, with 200 ft. of drifting & 200 ft. of raising, as described in the report of Dec. 3, 1954.

(2) New Tunnel -- 600 ft. long, with 600 ft. of drifting & 300 ft. of raising, approximately as described in the report of Dec. 3, 1954.

(3) Two old shafts, each about 75 ft. deep.

(4) Winze # 1 -- 250 ft. deep below the New Tunnel, with a Raise above same up to the surface, a distance of about 110 ft., with an ore bin above the New Tunnel, and a gallows frame at the surface. Winze is at a 57 degree incline to the N.

(5) Winze # 2 -- 210 ft. deep, extending from the New Tunnel to the 210 ft. level. Inclined winze about 57 degrees.

(6) 150 ft. of drifting on the 87 ft. level (87' below the New Tunnel)

(7) 600 ft. of drifting on the 210 ft. level (210' below New Tunnel)

(8) 120 ft. of drifting on the 240 ft. level (240' below New Tunnel)

This drift connects up with the Winze # 1, and all the ore hoisted is now dumped down into this drift, then trammed to the Winze and hoisted. ^{mined}

Present Operations Mining operations are conducted from the 210 ft. level at the present time. The ore mined is dumped down to the 240 ft. level, trammed to the Winze, and then hoisted ~~up to the New Tunnel level~~ and dumped into an ore bin above the New Tunnel level. From this ore bin, the ore is drawn into ore cars, and trammed to the surface ore bin, through the New Tunnel. Ore is then trucked to Amado, about 8 miles for shipment to the El Paso smelter.

Proposed Plans Operators contemplate making an application for a D. M. E. A. loan, on an area adjacent to the area now being operated. Application almost ready for submission. Operators stated they wish to confer with Mr. Sturm in a very few days.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine **Glove Mine** Date **May 10, 1955.**
District **Tyndall Mining Dist., Santa Cruz County.** Engineer **Axel L. Johnson**
Subject: **Present Status. Information from Edward A. Mack, Sub-Lessee. Not Visited.**

References For complete report, see my report of Dec. 3, 1954.

Recent Changes and Additions are as follows:

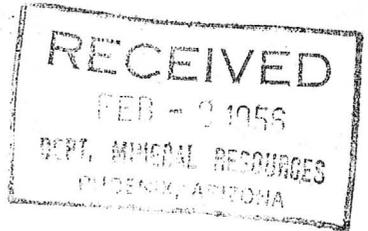
Number of Men Employed 16 men (working 3 shifts, and 7 days per week)

Production Rate About 6 carloads, or 300 tons per month.

Ore Values Mr. Mack, sub-lessee reports that the average of the ore mined recently has been approximately ----- Lead -- 34 %; Zinc -- 13 %; Silver 8 oz. The ore is chiefly carbonates, with some galena. This is much higher grade ore than was mined about 5 months ago, due to the opening up of a high grade stope.

Future Plans Mr. Mack, sub-lessee is planning to get a diamond drill and to do diamond drilling on the property to develop more high grade ore for future operations.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT



Mine Glove ✓ Mine

Date Jan. 12, 1956

District Tyndall District ---- Santa Cruz Co.

Engineer Axel L. Johnson

Subject: Present Status. Personal Visit and information from Edward A. Mack, Lessee.

Location Sec. 29 -- T 20 S -- R 14 E. About 8 miles east of Amado.

Number of Claims 17 unpatented claims.

Owners Edward T. Sheehey, Nogales, Arizona, et. al.

Lessees and Operators Sunrise Mining Co., Dallas, Texas, with following individual owners in same: ---- Edward A. Mack, Box 52, Amado, Ariz. Pollard Simons, Dallas, Texas.

Officers R Edward A. Mack, Box 52, Amado, Ariz. ----- Manager.

Principal Minerals Principally lead, with some Silver and Zinc.

Number of Men Employed 20 men, with 6 to 7 men on each shift (3 shifts)

Production Rate About 9 carloads, or about 450 tons per month. Operators expect to increase production to 15 carloads per month shortly.

Geology See my report of Dec. 3, 1954

Ore Values Mr. Mack reports that the grade of ore produced and shipped recently averages about as follows: Lead 26 %; Zinc 5 %; Silver 4 oz. Gold none. The ore is chiefly carbonates, with a small amount of galena and wulfenite.

Ore in Sight and Probable Mine foreman reported that about 1500 tons of ore is blocked out, or about 3 months production. Probable ore uncertain and hard to ascertain, as the depth of the ore body is not known.

Milling and Marketing Facilities See my report of Dec. 3, 1954.

Present Mine Workings See my report of Dec. 3, 1954. Since that time, operators have done about 300 ft. of drifting and cross cutting, and several raises and winzes.

Past History See my report of Dec. 3, 1954.

Remarks Mr. Edward Mack reports that Pollard Simons and himself bought out the interests of the Sunrise Mining Co., and that they will have the balance of the purchase price paid off to the owner, Edward T. Sheehey in about 6 months, from the 20 % royalty payments to Mr. Sheehey.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Glove Mine

Date June 26, 1957

District Tyndall District, Santa Cruz County.

Engineer Axel L. Johnson

Subject: Present Status. Information from G. W. Irvin, General Manager. No visit.

References Report of May 16, 1957.

Changes from report of May 16, 1957

Present Mining Activity Production of lead ore, shipping to the A. S. & R. smelter at El Paso. Production now increased to about 180 tons per week, or 750 tons per mo. Mine working one shift, with 12 men working underground. About 16 men in all.

Ore Values Lead -- 21 %; Silver -- 4 oz.; Zinc -- 2 % (not paid for)

Proposed plans

- (1) To sink a new shaft in the east part of the ore body. This shaft will be started as a winze below the 240 ft. level.
- (2) Present plans are to maintain present production rate, with hopes for a slight increase.
- (3) Mr. Irvin, General Manager, expressed interest in a D. M. E. A. loan for ~~the~~ exploring part of the property.

ARIZONA DEPARTMENT OF MINERAL RESOURCES
Mineral Building, Fairgrounds
Phoenix, Arizona

1. Information from: R. E. Lehner (Personal visit & operators)
Address: Dept. Mineral Resources - Tucson, Arizona
2. Mine: Glove Mine 3. No. of Claims - Patented _____
Unpatented 42
4. Location: Cottonwood Canyon, Santa Rita Mtns., Santa Cruz Co., Ariz.
24, 25 20S 13E
5. Sec. 29, 30, 31, 32 20S Range 14E 6. Mining District Tyndall
7. Owner: Sunrise Mining Co.; Pollard Simons (Pres.), Irwin Wolf (Mine Super.)
8. Address: Simons Bldg., Dallas, Texas
9. Operating Co.: Sunrise Mining Co.
10. Address: Pollard Simons, Dallas, Texas
11. President: above 12. Gen. Mgr.: above
13. Principal Metals: Lead-Zinc, Ag. [#] 14. No. Employed: 5
15. Mill, Type & Capacity: none
16. Present Operations: (a) Down (b) Assessment work (c) Exploration Development
(d) Production (e) Rate _____ tpd.
17. New Work Planned: Drifting and cross-cutting to S.E. on 5th and 6th levels
where projection of ore should occur
18. Misc. Notes: Trip was taken underground at the Glove Mine to familiarize self
with mining methods, type of mineralization, and ore controls. The ore consists
of zinc (sphalerite) and lead (galena) with some silver values. The ore occurs
mostly in zones where fractures or structures intersect. The ore occurs as
massive sulfide bodies (pipes, fingers, veins) which plunge steeply to the
southeast. Ore bodies have been delineated through development work and are
ready for mining. However, the mills at present do not want lead ore with zinc.
Therefore, development work is continuing on until the conditions change at the
mills. No market at present for mixed lead-zinc ore.

Date: Aug. 18, 1973

(Signature)

(Field Engineer)

SUNRISE MINING CO.

A. POLLARD SIMONS, President

SIMONS BUILDING — DALLAS, TEXAS

TELEPHONE Riverside 1-1731

January 17, 1974

*led
Glen
&
Kerr*

Mr. G. W. Irvin
Department of Mineral Resources
Room 208, State Office Building
415 West Congress
Tucson, Arizona 85701

Dear Jerry;

I just returned to the city to receive your letter, and I greatly appreciate your sending me the information regarding the proposed new rules affecting mining and national forests. I will certainly write to them as well as my senator and congressman and solicit their help.

Jerry, we have now proved up about 15,000 tons of good ore at the Glove Mine, and from all indications, we probably have another 15,000 tons by sinking the shaft a few hundred feet. My only trouble is selling it. As you know, some of this ore is extremely high grade, as much as 30% zinc, 15% lead, and 8 to 10 ounces of silver per ton, and on today's market that makes this pretty valuable. I am willing to mine the ore, lift it and sell it at the mine or at the railhead at a price that someone can take it and mill it and make some money. If there is anyone that you might mention this to who might be interested, I would greatly appreciate it.

I hope that 1974 will be a good year for you and will bring you and your family much joy and happiness.

With warm regards for now,

Sincerely,

Pollard Simons

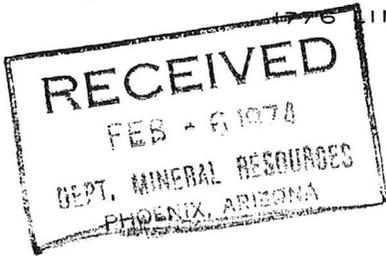
Pollard Simons

PS;bpt

DENISON MINES (U. S.) INCORPORATED



1776 LINCOLN STREET · DENVER, COLORADO 80203 303/255-7053



February 4, 1974

Mr. John H. Jett
Department of Mineral Resources
Mineral Building, Fairgrounds
Phoenix, Arizona 85007

Re: Glove Mine

Dear John:

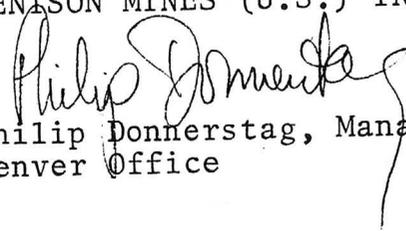
Thank you very much for your recent letter and the attached communication from the owner of the Glove mine.

I don't believe that our program in Arizona, if we ever get it off the ground, encompasses rehabilitating the Antler mill before we have developed sufficient ore underground in the Antler mine to justify the capital expenditures required to put the mill back into commission. It is very possible that if we do make a deal with Standard, and get the mill running, we would then be agreeable to mill custom ore such as that produced from the Glove mine.

Thank you for your interest, and we shall let you know if we decide to go back and do some more work on the Antler.

Very truly yours,

DENISON MINES (U.S.) INC.


Philip Donnerstag, Manager
Denver Office

PD:jer

STATE OF ARIZONA
DEPARTMENT OF MINERAL RESOURCES
MINERAL BUILDING, FAIRGROUNDS
PHOENIX, ARIZONA 85007

January 24, 1974

C
O
P
Y

Philip Donnerstay, Manager
Denison Mines (U.S.) Incorporated
1776 Lincoln Street
Denver, Colorado 80203

Dear Mr. Donnerstay:

Enclosed is a copy of a letter discussing the Glove mine. I thought perhaps it might be of some interest. Perhaps it can feed a mill for a little cash flow while development work is going on at other mines.

I know transportation is tough but the grade is good. Our records indicate the last six railroad cars shipped averaged about 35% combined.

The mine is about 30 miles south of Tucson.

Very truly yours,

JOHN H. JETT,
Director.

JHJ:p
Enc
cc: Tucson

Tucson, Arizona
5 June 1958

RJ

To: G. W. Irvin
General Manager
Glove Mine *file* xR
Sunrise Mining Co.

RECEIVED
Jun 24, 1958
DEPARTMENT OF MINERAL RESOURCES
DEPARTMENT OF MINERAL RESOURCES

Subject: Examination of the Esmeralda #1 Prospect

CONCLUSIONS:

The Esmeralda #1 claim shows insufficient mineralization or possibility of mineralization to warrant further consideration.

LOCATION:

The Esmeralda #1 claim is recorded as being in the SE $\frac{1}{4}$, S12, T18S, R10E, in the Papago Mining District. Section 12 is government land and is open to location. However, examination of the Palo Alto Ranch, Arizona quadrangle indicates that the claim is probably in section 12 which is state owned land.

The claim is located about 40 miles southwest of Tucson. Access to the claim is by way of seven miles of dirt road and trails, several sections of which are barely passable.

CLAIM STATUS:

The Esmeralda #1 claim was claimed by John P. Eppley on 9 March 1958. Valid discovery of mineral in place has been made on this claim. A location monument has been erected, and a proper notice of location posted. The claim is recorded in the Pima County, Arizona courthouse. No other monuments have been erected, and the location work has not been completed. If the location pit is not dug by 9 June 1958 the claim will become invalid.

Doubt exists as to whether the claim is on government or state land. Further work will be needed to determine its exact location.

A series of pits lie approximately 300 feet to the southeast of the prospect pit on the Esmeralda #1 claim. These pits lie along a mineralized fracture zone which cuts the Kella #1 claim. This claim is one of a group of eight claims which were located on 8 July 1951, and 30 June 1956. Labor affidavits have been filed on these claims up to the present. These claims are clearly prior to the Esmeralda #1 claim, and any overlap would be lost to them. The exact location of this group of claims was not determined. Since the validity of the Esmeralda #1 claim rests upon the location of these claims, the area must be surveyed to determine their exact location.

GEOLOGY:

Mineralization of chalcocite and chrysocolla occurs in the

File

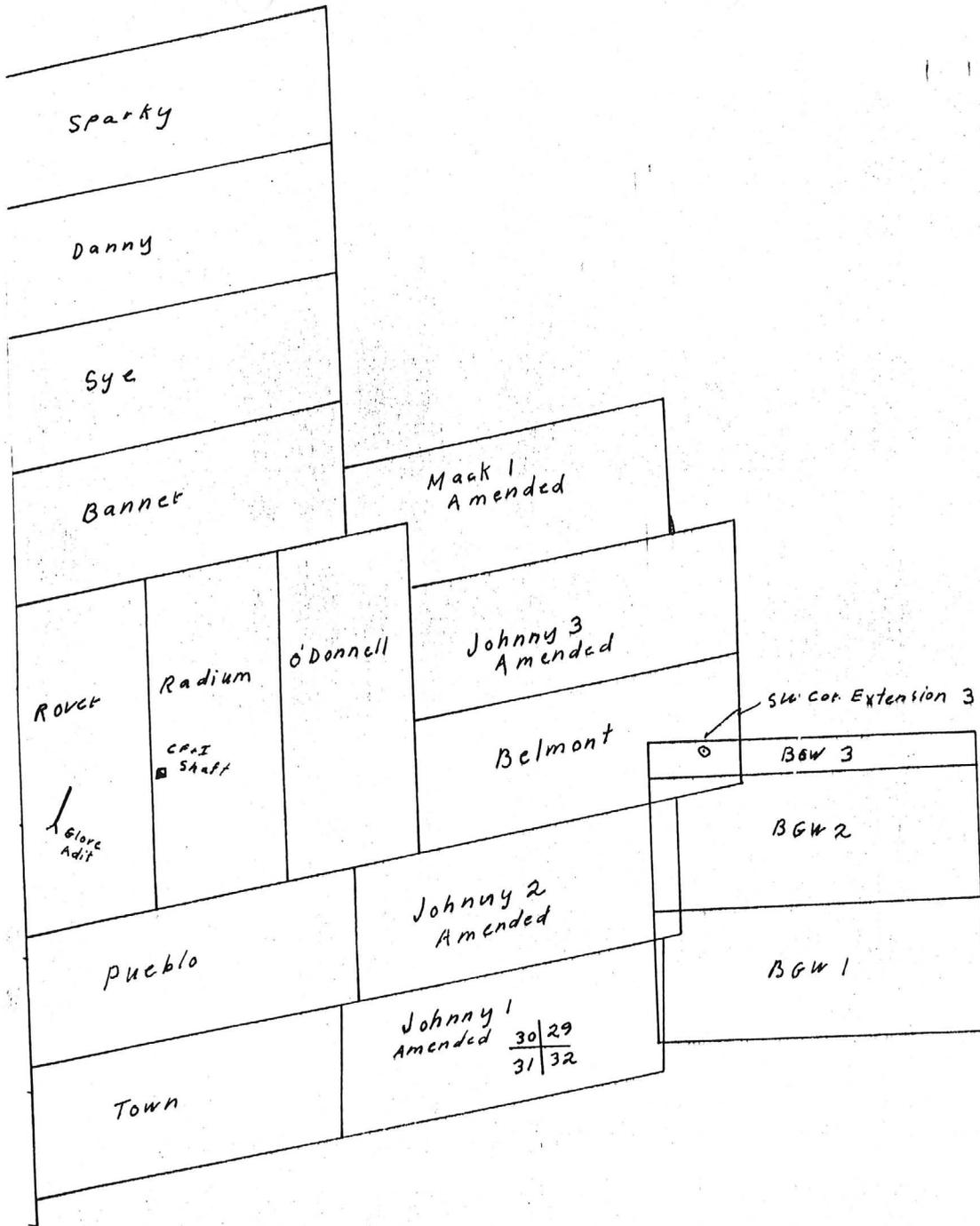
→ GLOVE MINE - HISTORICAL PRODUCTION
VALUE

A.R. STILL - JULY 1977

YEAR	DRY TONS	% Ag	% Pb	% Zn	NET MILLING OR SMELTING	NET TO MINE	MINE # NET / TON	SOURCE OF DATA
1911-1949	682.3	-	-	-	14,902.6*	9985.53	14.64	M.S. THESIS BY HARRY J. OLSON (U.O.F.A. 1961)
1951-52	884.7	-	-	-	47,191.61	32,333.38	36.60	
1953	996.7	-	-	-	42,294.22	27,701.25	27.79	
1954	921.5	-	-	-	38,394.27	25,630.36	27.81	
1955	2086.0	-	-	-	131,609.87	87,196.02	41.80	
1956-1960	15519.8 (73.4%)	7.7	25.7	4.1	742,488.26	521,530.83	33.60	MINE MAINLY IDLE, BUT SOME PRODUCTION 360 L. TO 4L FOR WHICH THERE ARE NO RECORDS
500 TOTAL (oxide) = 21,091.0 (100%)					1,016,800.23	704,427.37	33.40	
1960-68								
1967-72	3153.34	5.867	14.19	23.43	172,933.44	128,286.15	40.68	C.F. & I. CUSTOM. MILL SHEETS (ALL PRODUCTION DURING 1972)
1973		NO PRODUCTION						
1974-76	5745.23	4.84	11.86	25.45	1,068,086.45	695,596.08	121.07	SUNRISE MING Co. MILL & SMELTER SHEETS (Tonto MING & MILLING Co.) McFARLAND & HULLINGER - LOT G-77-01, NSARC Co DEMING, N.M. 1961.
1976-77	182.04	7.04	17.70	28.18	22,219.80	18,396.63	101.05	
500 TOTAL SULFIDE	9,080.61	5.24	12.79	24.80	1,263,239.49	842,218.91	92.76	
TOTALS:								
OXIDE	21091.00							
SULFIDE	9080.61							
	30,171.61				2,280,039.92	1,546,766.28	\$51.26	
					\$75.57/ton			
					100.7.	67.8%		
H&MCF 6-7L	1980.0							18 cars shipped but no return yet, plus 4 more to ship
	32,151							
<p>AT PRESENT PRICES TOTAL PRODUCTION WOULD HAVE A "NET TO MINE" WORTH OF APPROX 32,000 x \$100 = \$3,200,000 w/o MILL ON PROPERTY.</p>								
<p>(*) Estimate based on net to mine being 67%</p>								

RECEIVED
 JUL 21 1977
 DEPT. MINERAL RESOURCES
 PHOENIX, ARIZONA

Rose 7	Lock Jaw	Tamayo	spa
$\begin{array}{r l} 24 & 30 \\ \hline 25 & \end{array}$	Harpo	Hey Balls	Dan
Rose 6	Maggie Igo	Jim Blaine	Sy
Rose 5	Andrew Jackson	sheehy	Bo
Rose 4	Nellie Farrell	Glove	Rover
Rose 3	Alexander Hamilton	Jerry	Blacksmith Adit
Rose 2	Don	Zombie	Glove Adit
Rose 1	Bombo	Zeko	
Rose	Jalopy		



GLOVE GROUP CLAIMS

1" = 600 FT.

Sec. 24, 25 T20S R13E

Sec. 29, 30, 31, 32 T20S R14E

6-19-72

J.R.B.

Edwin A. Stone 6-8-38

Re- Glove Group

A later visit to this property with more time available established several very unsatisfactory habits of the vein. Veins of specularite found at the time of the first visit appeared to be always separate from the lead-zinc veins but while moiling samples at the second visit, the vein was found to vary along the strike into high iron veins with practically no lead-zinc values. At intervals along the vein, the values are excellent but these lenses end abruptly by lensing out both underground and on the surface, or in places give place to specularite.

These two factors, eg. rapid lensing out of the good values, and the appearance of high percentages of specularite destroy the apparent attractiveness of the small veins. No tonnage could be developed of consequence in any one block and total tonnage would be small. Development costs and footage per ton ore would be very high. Previous conclusions wrong- forget this property.

Information from Robert Lenon,
Patagonia.
DEPARTMENT OF MINERAL RESOURCES

News Items

Date Sept. 6, 1951Mine Glove MineLocation 10 mi. E. of Amado.Owner Ed. T. Sheehy et al.Address Nogales, Ariz.Operating Co. Sunrise Mining Co.Address Bx 525, Patagonia, Ariz.

Pres.

Genl. Mgr. Frank Jessen

Mine Supt.

Mill Supt.

Principal Metals Lead & Zinc.Men Employed 2 men on ContractProduction Rate Expl. Work DrivingMill, Type & Capacity Tunnels

Power, Amt. & Type

Signed

April L. Johnson

(Over)

XXXXXXXXXX
March 22, 1958

Mr. George C. Heikes
18335 Lexington Drive
Los Gatos, California

Dear George:

Enclosed are reports covering the Ostrich, Monitor and Glove properties for your consideration.

I have examined the Helvetia property, which has 19,938,758 tons of 0.798 copper ore reserves drilled out, according to Mr. Harrison A. Schmitt's calculations. A report on the property will be mailed to you when completed.

I am hopeful one of these mines will fulfill the company's request and would like for you to stop by soon to give them your personal attention.

Sincerely,

Gerald Weathers

Encl.
GW:hrw

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Glove Mine

Date Nov. 16, 1956

District Tyndall District, Santa Cruz Co.

Engineer Axel L. Johnson

Subject: Present Status. Personal Visit & Information from the owners.

Location Sec. 29 -- T 20 S. -- R 14 E. About 8 miles east of Amado.

Number of Claims 17 unpatented claims.

Owners Sunrise Mining Co., Simons Bldg., Dallas, Texas. This company is composed of the following individuals: (1) Pollard Simons, Simons Bldg., Dallas, Texas. (2) Edward A. Mack, Box 52, Amado, Ariz. The lease, with option to buy, from the former owner, Edward T. Sheehey, was paid up in full last summer.

Operators Same as above.

Principal Minerals Principally Lead, with some Silver.

Number of Men Employed 20 men. Two shifts, working 6 days per week.

Production Rate About 9 carloads, or about 450 tons per month. Operators expect to increase production considerably, after the completion of the new hoisting arrangement.

Geology See report of Dec. 3, 1954.

Ore Values Ore approx. the same as reported in the report of Dec. 3, 1954.

Milling and Marketing Facilities No mill on the property. Ore is trucked to Amado, 8 miles, and then shipped to the A. S. & R. smelter at El Paso, Texas.

Mine Workings (1) Old Tunnel -- 500 ft. long, with 200 ft. of drifting & 200 ft. of raising, as described in the report of Dec. 3, 1954.
(2) New Tunnel -- 600 ft. long, with 600 ft. of drifting & 300 ft. of raising, approximately as described in the report of Dec. 3, 1954.
(3) Two old shafts, each about 75 ft. deep.
(4) Winze # 1 -- 250 ft. deep below the New Tunnel, with a Raise above same up to the surface, a distance of about 110 ft., with an ore bin above the New Tunnel, and a gallows frame at the surface. Winze is at a 57 degree incline to the N.
(5) Winze # 2 -- 210 ft. deep, extending from the New Tunnel to the 210 ft. level. Inclined winze about 57 degrees.
(6) 150 ft. of drifting on the 87 ft. level (87' below the New Tunnel)
(7) 600 ft. of drifting on the 210 ft. level (210' below New Tunnel)
(8) 120 ft. of drifting on the 240 ft. level (240' below New Tunnel)

This drift connects up with ~~the~~ Winze # 1, and all the ore hoisted ^{mined} is now dumped down into this drift, then trammed to the Winze and hoisted.

Present Operations Mining operations are conducted from the 210 ft. level at the present time. The ore mined is dumped down to the 240 ft. level, trammed to the Winze, and then hoisted ~~up to the New Tunnel level~~ and dumped into an ore bin above the New Tunnel level. From this ore bin, the ore is drawn into ore cars, and trammed to the surface ore bin, through the New Tunnel. Ore is then trucked to Amado, about 8 miles for shipment to the El Paso smelter.

Proposed Plans Operators contemplate making an application for a D. M. E. A. loan, on an area adjacent to the area now being operated. Application almost ready for submission. Operators stated they wish to confer with Mr. Sturm in a very few days.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Glove Mine

Date May 10, 1955.

District Tyndall Mining Dist., Santa Cruz County. Engineer Axel L. Johnson

Subject: Present Status. Information from Edward A. Mack, Sub-Lessee. Not Visited.

References For complete report, see my report of Dec. 3, 1954.

Recent Changes and Additions are as follows:

Number of Men Employed 16 men (working 3 shifts, and 7 days per week)

Production Rate About 6 carloads, or 300 tons per month.

Ore Values Mr. Mack, sub-lessee reports that the average of the ore mined recently has been approximately ----- Lead \checkmark 34 %; Zinc -- 13 %; Silver 8 oz. The ore is chiefly carbonates, with some galena. This is much higher grade ore than was mined about 5 months ago, due to the opening up of a high grade stope.

Future Plans Mr. Mack, sub-lessee is planning to get a diamond drill and to do diamond drilling on the property to develop more high grade ore for future operations.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Glove Mine

Date Dec. 3, 1954

District Tyndall Mining District, Santa Cruz Co. Engineer Axel L. Johnson

Subject: Field Engineers Report

Location Sec. 29 -- T 20 S --- R 14 E. 8 1/2 miles east of Amado.

Number of Claims 17 unpatented claims.

Owners Edward T. Sheehey, Nogales, Ariz. and 4 others.

Lessees Sunrise Mining Co., Box 291, Austin, Texas. Has lease with option to buy at \$90,000 with 20 % royalty, the royalties to be applied on the purchase price.

Sub-Lessee Edward A. Mack, Box 52, Amado, Arizona. Has lease with option to buy at \$107,500 with 40 % royalty, the royalties to be applied on the purchase price.

Principal Minerals and metals. Lead, Zinc and Silver ores.

Number of Men employed 8 men (6 days 1 shift) (1 more shift of 6 men to be put on soon.)

Production Rate About 3 carloads (150 tons) per month. Intend to increase production.

Geology Quartz monzonite porphyry intrusion in limestone formation evidently caused the deposition of the ore. The quartz monzonite intrusion is parallel to the limestone bedding planes, which strike east and west and dips about 70 degrees to the north. The ore is found as a replacement in the limestone next to the quartz monzonite porphyry. Most of the ore is found on the footwall of the limestone ~~contact~~, but some ore is also found on the other side of the porphyry, in the hanging wall of the limestone. Ore occurs in narrow mineralized seams along the contact, which occasionally widen out into fairly large irregular pockets in the limestone. Largest of these pockets or ore stopes is reported to have been 30 ft. high, 30 ft. wide and 100 ft. in length. A number of ore shoots have been found which are about 8ft. x 8 ft. x 100 ft. long, and this might be considered aver. The ores are mostly carbonates, with a mixture of sulphides. Ores found are cerussite, anglesite, smithsonite, galena, sphalerite, wulfenite, and mimetite.

Ore Values Mr. Mack reports that the average of the ore mined is approximately Lead --22 %; Zinc -- 8 %; Copper 0.4 %; Silver -- 5 1/2 oz.; Gold -- 0.1 oz. The ore, according to Mr. Mack yields approx. \$60 in net smelter returns, with \$36 net after payment of the 40 % royalty.

Ore in Sight and Probable Operator now working in two faces of ore ---- one in a stope, and the other one in a drift at the bottom of a winze. No ore, however, is actually blocked out. No drilling has been done on which to base any figures as to the amount of ore available for future production. As the workings up to date have been shallow and over a small area, it is reasonable to expect that a considerable amount of ore will be found before the workings are exhausted.

Milling and Marketing Facilities No mill on the property. Ore might not be very amenable to milling, as it contains principally a mixture of lead and zinc carbonates, with smaller amounts of sulphides. The ore is trucked to Amado, and from there, shipped to the A. S.& R. smelter at El Paso, Texas.

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

FIELD ENGINEERS REPORT

Page 2.

Mine Glove Mine

Date Dec. 3, 1954

District Tyndall Mining Dist., Santa Cruz Co.

Engineer Axel L. Johnson

Subject: Field Engineers Report. (continued)

Present Mine Workings

(1) Old Tunnel --- 500 ft. long, with 200 ft. of drifting, 200 ft. of raising, and some old worked out stopes. Tunnel still in good shape. This part of the mine needs additional exploration to prove up additional ore. Operator, Mr. Mack, believes it has good possibilities, but is saving it for future milling ore, as it has a higher zinc content than the part of the mine that is now being worked.

(2) New Tunnel --- 600 ft. long, with 600 ft. of drifting, 300 ft. of raising, and 146 ft. of winze. Several stopes worked out. 3 new stopes now being worked.

(3) 1 old shaft --- 75 ft. deep.

(4) 1 old shaft --- 75 ft. deep.

Past History

(1) Edward T. Sheehey operated the mine intermittently himself and with leasers from 1908 to 1951.

(2) Sunrise Mining Co. leased the mine from Sheehey in 1951. Ross Barclay of Patagonia, Ariz. operated the mine for the Sunrise Mining Co. from 1951 to Jan. 1, 1954 on a contract basis.

(3) Sunrise Mining Co. sub-leased the mine to Edward A. Mack in Feb. 1954, who started mining operations shortly afterwards.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Glove Mine

Date Dec. 3, 1954

District Tyndall Mining District, Santa Cruz Co. Engineer Axel L. Johnson

Subject: Field Engineers Report

Location Sec. 29 -- T 20 S --- R 14 E. 8 1/2 miles east of Amado.

Number of Claims 17 unpatented claims.

Owners Edward T. Sheehy, Nogales, Ariz. and 4 others.

Lessees Sunrise Mining Co., Box 291, Austin, Texas. Has lease with option to buy at \$90,000 with 20 % royalty, the royalties to be applied on the purchase price.

Sub-Lessee Edward A. Mack, Box 52, Amado, Arizona. Has lease with option to buy at \$107,500 with 40 % royalty, the royalties to be applied on the purchase price.

Principal Minerals and metals. Lead, Zinc and Silver ores.

Number of Men employed 8 men (6 days 1 shift) (1 more shift of 6 men to be put on soon.)

Production Rate About 3 carloads (150 tons) per month. Intend to increase production.

Geology Quartz monzonite porphyry intrusion in limestone formation evidently caused the deposition of the ore. The quartz monzonite intrusion is parallel to the limestone bedding planes, which strike east and west and dips about 70 degrees to the north. The ore is found as a replacement in the limestone next to the quartz monzonite porphyry. Most of the ore is found on the footwall of the limestone ~~contact~~, but some ore is also found on the other side of the porphyry, in the hanging wall of the limestone. Ore occurs in narrow mineralized seams along the contact, which occassinally widen out into fairly large irregular pockets in the limestone. Largest of these pockets or ore stopes is reported to have been 30 ft. high, 30 ft. wide and 100 ft. in length. A number of ore shoots have been found which are about 8ft. x 8 ft. x 100 ft. long, and this might be considered aver. The ores are mostly carbonates, with a mixture of sulphides. Ores found are cerussite, anglesite, smithsonite, galena, sphalerite, wulfenite, and mimetite.

Ore Values Mr. Mack reports that the average of the ore mined is approximately Lead -- 22 %; Zinc -- 8 %; Copper 0.4 %; Silver -- 5 1/2 oz.; Gold -- 0.1 oz. The ore, according to Mr. Mack yields approx. \$60 in net smelter returns, with \$36 net after payment of the 40 % royalty.

Ore in Sight and Probable Operator now working in two faces of ore ---- one in a stope, and the other one in a drift at the bottom of a winze. No ore, however, is actually blocked out. No drilling has been done on which to base any figures as to the amount of ore available for future production. As the workings up to date have been shallow and over a small area, it is reasonable to expect that a considerable amount of ore will be found before the workings are exhausted.

Milling and Marketing Facilities No mill on the property. Ore might not be very amenable to milling, as it contains principally a mixture of lead and zinc carbonates, with smaller amounts of sulphides. The ore is trucked to Amado, and from there, shipped to the A. S. & S. smelter at El Paso, Texas.

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

FIELD ENGINEERS REPORT

Page 2.

Mine Glove Mine

Date Dec. 3, 1954

District Tyndall Mining Dist., Santa Cruz Co.

Engineer Axel L. Johnson

Subject: Field Engineers Report. (continued)

Present Mine Workings

(1) Old Tunnel --- 500 ft. long, with 200 ft. of drifting, 200 ft. of raising, and some old worked out stopes. Tunnel still in good shape. This part of the mine needs additional exploration to prove up additional ore. Operator, Mr. Mack, believes it has good possibilities, but is saving it for future milling ore, as it has a higher zinc content than the part of the mine that is now being worked.

(2) New Tunnel --- 600 ft. long, with 600 ft. of drifting, 300 ft. of raising, and 146 ft. of winze. Several stopes worked out. 3 new stopes now being worked.

(3) 1 old shaft --- 75 ft. deep.

(4) 1 old shaft --- 75 ft. deep.

Past History

(1) Edward T. Sheehey operated the mine intermittently himself and with leasers from 1908 to 1951.

(2) Sunrise Mining Co. leased the mine from Sheehey in 1951. Ross Barclay of Patagonia, Ariz. operated the mine for the Sunrise Mining Co. from 1951 to Jan. 1, 1954 on a contract basis.

(3) Sunrise Mining Co. sub-leased the mine to Edward A. Mack in Feb. 1954, who started mining operations shortly afterwards.

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

~~FIELD ENGINEERS REPORT~~

NEWS ITEM

Mine Glove Mine

Date Feb. 5, 1952.

District Tyndall Mining Dist., Santa Cruz Co.

Engineer Axel L. Johnson.

Subject: News Item --- Source of Information --- Joseph G. O'Brien.

Location Ten miles east of Amado, Ariz. Road in good shape.

Number of Claims 14 unpatented claims.

Owners Sunshine Mining Co., Austin, Texas. --- 5 yr. lease to Ross Barclay, Patagonia.

Officers Mr. McCallum, President.

Former Owner Pat Sheehy, Nogales, Ariz.

Metals Found Lead, Zinc, and Silver.

Men Employed About 6 men are employed. The work is done by contract. Mr. Barkley of Patagonia has the contract to mine and ship the ore.

Production Rate Getting out about 15 tons per day driving a tunnel into the mountain. Expect to get a higher rate of production when stoping operations begin.

Milling Facilities No milling facilities yet, but understand that a mill is being considered to mill the low grade ore, of which there is a considerable amount.

Geology and Mineralization The ore occurs as replacements in limestone rock, and there is no other kind of rock near by. A series of fissures is found in the limestone rock, the fissure or vein into which the tunnel is being driven is quite wide, with ore values which are shipping grade.

Ore Values Some of the ore is of high grade, containing up to about 16 % Lead, 14 % Zinc, and some Silver values. Most of the ore, however, is of much lower grade, averaging possibly \$25 to \$30 per ton in values.

Past Production Several carloads of ore were mined and shipped during the First World War.

Present Operations Driving a tunnel (5' x 7 1/2') into the mountain on the most promising ore vein or fissure exposed.

Marketing The ore taken out from this tunnel is shipped to the A. S. & R. Co. at El Paso, Texas. Three carloads of ore have been shipped already.

Proposed Plans Plans call for continuing the tunnel into the mountain--- then to start stoping operations above this tunnel. Ore will be shipped direct to the smelter for awhile at least. Milling facilities may be provided later.

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

~~FIELD ENGINEERS REPORT~~

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