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ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: HOMESTAKE

ALTERNATE NAMES:

JAGUAR
FARLEY

SANTA CRUZ COUNTY MILS NUMBER: 136A

LOCATION: TOWNSHIP 23 S RANGE 16 E SECTION 19 QUARTER NE
LATITUDE: N 31DEG 25MIN 15SEC LONGITUDE: W 110DEG 44MIN 32SEC
TOPO MAP NAME: HARSHAW - 7.5 MIN

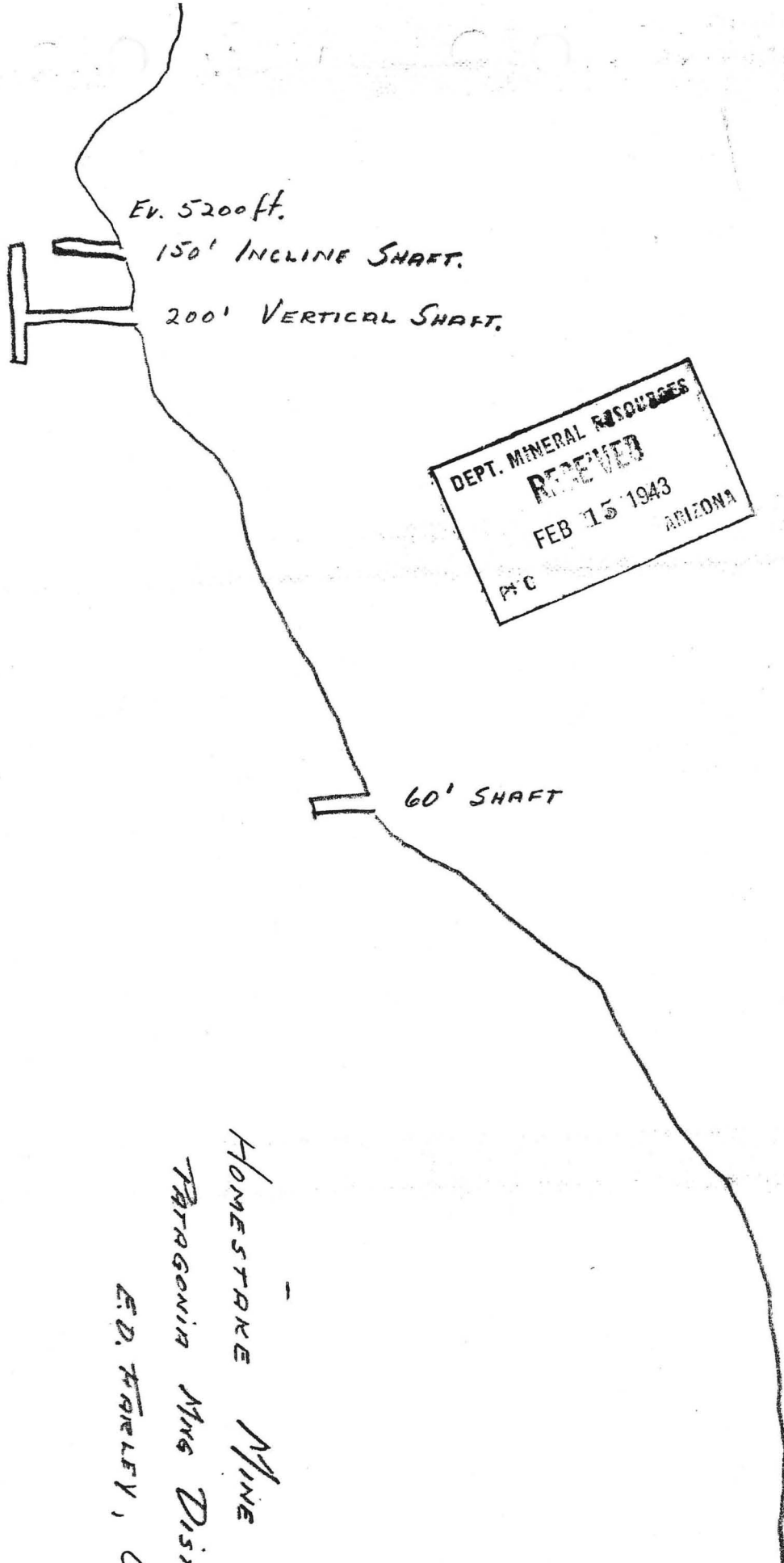
CURRENT STATUS: PAST PRODUCER

COMMODITY:

ZINC
LEAD
COPPER
SILVER
GOLD

BIBLIOGRAPHY:

USGS LOCHIEL QUAD
AZBM CARD FILE SANTA CRUZ CO.
USBM FIELD NOTES PB8
ADMMR MINEY DEV. CO. FILE
USGS HARSHAW QUAD
ADMMR HOMESTAKE FILE
RFC FILES



El. 5200ft.

150' INCLINE SHAFT.

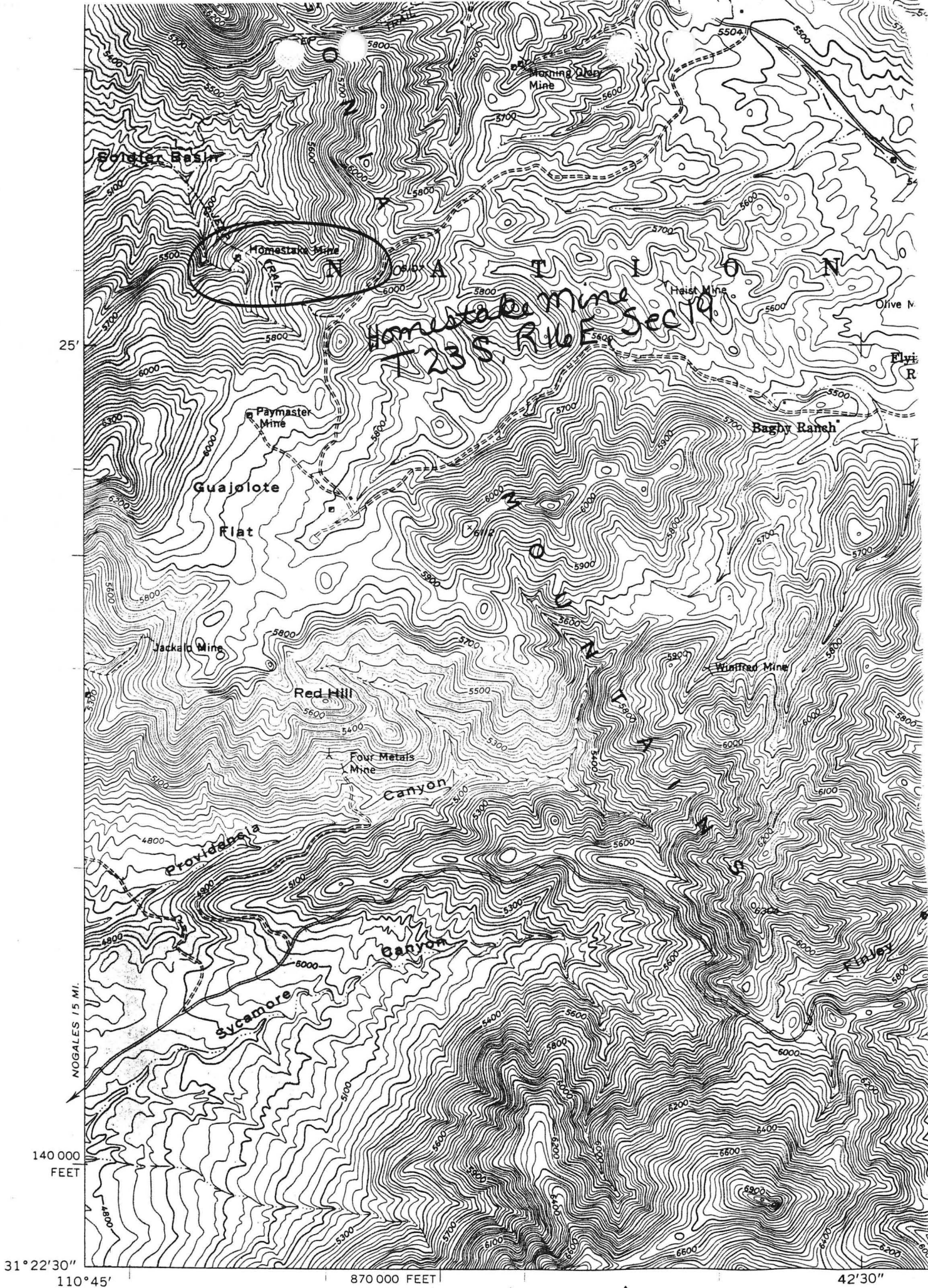
200' VERTICAL SHAFT.

DEPT. MINERAL RESOURCES
RECEIVED
FEB 15 1943
ARIZONA
P.C.

60' SHAFT

El. 6400ft.

HOMESTAKE Mine
PATAGONIA MNG DIST.
E.D. HARLEY, OWNER.



Mapped by the Army Map Service

Harsha, J. AZ mod

REFERENCE

HOMESTAKE MINE

Santa Cruz County
Patagonia District
T23S, R16E Sec 19

AKA: Jaguar

MILS Index # 136A

Harshaw, AZ Topo Map (included in file)

See also: Miney Dev. Co. file

FARLEY, E. D.
Patagonia, Ariz.

12-18-42

See HOMESTAKE MINE

Re - loan application and examination of property

See HOMESTAKE MINE - Re "C" loan application

12-18-42

HOMESTAKE

Cu, Pb, Zn

Santa Cruz

12 - 1

E. D. Farley, Patagonia

'42

REFERENCE 1	F1 < USBM- ARG! PRODUCTION FILE DATA
REFERENCE 2	F2 < USBM FILE DATA - CLUSTER # 27, HOMESTAKE MINE
REFERENCE 3	F3 < ADMR FILE DATA - HOMESTAKE MINE
REFERENCE 4	F4 < ABGNT CLIPPINGS FILE, HOMESTAKE MINE

F5< SIMONS, F.S. 1974. GEOLOGIC MAP AND SECTIONS OF THE NOGALES AND
LOCHIEL QUADRANGLES, SANTA CRUZ COUNTY, ARIZONA. MAP I-76a (1:48000) >
F16< ABGMT FILES, STANTON B. KEITH >

4110 < (1928), K.C. RICHMOND, J. WILLIAMS >

MILO < BASIN; ABOVE DESCRIBES MAIN HOMESTAKE VEIN >

N5 < ROCK IN FAULT FISSURES CUTTING DIORITE AND QUARTZ MONZONITE >
N70 < JACKALO VEIN (MAJOR NE-TRENDING FISSURE VEIN) >
N80 < PORPHYRY >

Mils 136A

RECORD IDENTIFICATION

RECORD NUMBER B10 < > RECORD TYPE B20 < X.M. > DEPOSIT NUMBER B40 < >
 REPORT DATE G1 < 22.03. > INFORMATION SOURCE B30 < 12. > FILE LINK IDENT. B50 < USAM-0040230223 >
 REPORTER(SUPERVISOR) G2 < LARABA PETER > < CALDER, SUSAN >
 (last, first, middle initial) (last, first, middle initial)
 REPORTER AFFILIATION G3 < ABGKT > SITE NAME A10 < HOME STAKE MINE >
 NYNOMS A11 < JAGUAR MINE >

LOCATION

MINING DISTRICT/AREA	A30	PATAGONIA DISTRICT			
COUNTY	A60	SANTA CRUZ	STATE A60	AZ	COUNTRY A40
PHYSIOGRAPHIC PROV	A63	LAZ			
DRAINAGE AREA	A62	1505030.1 Y. LOWER COLORADO	LAND STATUS	A64	4.1 Y. Y. (1979)
QUADRANGLE NAME	A90	HARSHAW, AZ	QUADRANGLE SCALE	A100	24000
SECOND QUAD NAME	A92	LOCHIEL	SECOND QUAD SCALE	A91	62500
ELEVATION	A107	5600 FT			

JTM

ORTHING A120 (34.7606.0)

ASTING A130 (52.456.0)

ONE NUMBER A110 (+1.2)

*ACCURACY

ACCURATE (ACC) (circle)

ESTIMATED EST _____

GEODETIC

*LATITUDE A70 (31-25-15.N)

*LONGITUDE A80 (110-44-32.W)

[illegible]

POSITION FROM NEAREST PROMINENT LOCALITY A#2 < 1 MILE NORTH OF GUATOLOTE FLAT
LOCATION COMMENTS A#3 < 1/2 MILE NORTH OF PAYMASTER MINE

ESSENTIAL INFORMATION
ESSENTIAL SOMETIMES OR HIGHLY RECOMMENDED

COMMODITIES PRESENT C10 CU, MAG, Pb, Zn, V

ORE MINERALS C30 UNKNOWN SLIDES, CERUSSITE, SPHALERITE, NA

COMMODITY SUBTYPES C41

GEN. ANALYTICAL DATA C43 EARLY 1900'S ORE VALUES AVERAGED 9% Pb, 3% Cu, 14% Zn, 10 OZ./TON Ag

COM. INFO. COMMENTS C50

SIGNIFICANCE		PRODUCER	
MAJOR PRODUCTS	MAJOR	(P.B.)	()
MINOR PRODUCTS	MINOR	(C.U.)	(A.G.)
POTENTIAL PRODUCTS	POTEN	()	()
OCCURRENCES	OCCUR	()	()

[illegible]

PRODUCTION YES (circle) PRODUCTION SIZE SML MED LGE (circle one)

PRODUCTION UND NO (circle one)

STATUS AND ACTIVITY A20<4>

STATUS AND ACTIVITY A20<1>

YEAR OF DISCOVERY L10 () NATURE OF DISCOVERY L30 (B) YEAR OF FIRST PRODUCTION L40 (1940) YEAR OF LAST PRODUCTION L45 (1940)
PRESENT/LAST OWNER A12 ()
PRESENT/LAST OWNER A13 (L.S. WILLIAMS (1940))
EXPL./DEV. COMMENTS L110 (11 UNPATENTED CLAIMS, CONTIGUOUS; ONLY ONE YEAR OF PRODUCTION.
REPORTED UNDER JAGUAR MINE. OWNERS AND OPERATORS INCLUDED ED FARLEY (1927) J. VROMAN

DEPOSIT TYPE(S) C40 VEIN / SHEAR ZONE

DEPOSIT FORM/SHAPE M10 TABULAR

DEPTH TO TOP M20 UNITS M21 MAXIMUM LENGTH M40 6300 UNITS M41 FT

DEPTH TO BOTTOM M30 UNITS M31 MAXIMUM WIDTH M60 6 UNITS M61 FT

DEPOSIT SIZE M15 SMALL M16 MEDIUM M18 LARGE (circle one) MAXIMUM THICKNESS M60 150 UNITS M61 FT

STRIKE M70 N35E DIP M80 70 SE

DIRECTION OF PLUNGE M100 PLUNGE M90

DER. DESC. COMMENTS M110 SULFIDES ENCOUNTERED AT ABOUT 50 FT. DEPTH - VEIN AVERAGES 16 FT WIDE AT BOTTOM OF SHAFT - VEIN OUTCROPS EXTEND ABOUT 6300 FT. TO SOUTH, BUT NOT TRACEABLE TO NORTH INTO

Workings are: SURFACE M120 UNDERGROUND M130 BOTH M140 (circle one) * OVERALL LENGTH M190 * UNITS M191
 DEPTH BELOW SURFACE M160 200 * UNITS M161 FT * OVERALL WIDTH M200 * UNITS M201
 LENGTH OF WORKINGS M170 800 * UNITS M171 FT * OVERALL AREA M210 * UNITS M211
 DESC. OF WORK. COM. M220 800 FEET OF DEVELOPMENT CONSISTS OF THREE SHAFTS (60, 200 AND 150 FT);
DRIFTS AND CROSSCUTS. THE 150 FT SHAFT IS INCLINED 30 DEGREES. 300 FT OF DRIFTS

* AGE OF HOST ROCK(S) K1T JERT. 58 ± 5 m.y. (SIMONS, F.S., 1974)

* HOST ROCK TYPE(S) K1A QUARTZ MONZONITE PORPHYRY

* AGE OF IGNEOUS ROCK(S) K2T JERT. 58 ± 5 m.y. (SIMONS, F.S., 1974)

* IGNEOUS ROCK TYPE(S) K2A BIOTITE-HORNBLÉNDÉ GRÁNDIÓRITÉ; DIÓRITÉ

* AGE OF MINERALIZATION K3T JERT.

* PERT. MINERALS (NOT ORE) K4T QUARTZ IRON-STAINED WITH CERUSSITE

* ORE CONTROL/LOCUS K5T NE-TRENDING QUARTZ VEIN CUTTING QUARTZ MONZONITE

* MAJ. REG. TRENDS/STRUCT. N6T E-W AND NE TRENDING QUARTZ VEINS AND ASSOCIATED BANDS OF CRUSHED MINERALIZED

* TECTONIC SETTING N16T

* SIGNIFICANT LOCAL STRUCT. N70T VEIN STRIKES INTO STEEP HILLSIDE OF MONZONITE; 1/2 MILE WEST OF PAYMASTER-

* SIGNIFICANT ALTERATION N75T SURFACE OXIDATION TO 50 FT DEPTH

* PROCESS OF CONC./ENRICH. N80T SURFACE LEACHING; MINERALIZATION ACCOMPANYING OR FOLLOWING INTRUSION OF

* FORMATION AGE N30T

* FORMATION NAME N30A

* SECOND FM AGE N35T

* SECOND FM NAME N35A

* IGNEOUS UNIT AGE N50T

* IGNEOUS UNIT NAME N50A

* SECOND IG. UNIT AGE N55T

* SECOND IG. UNIT NAME N55A

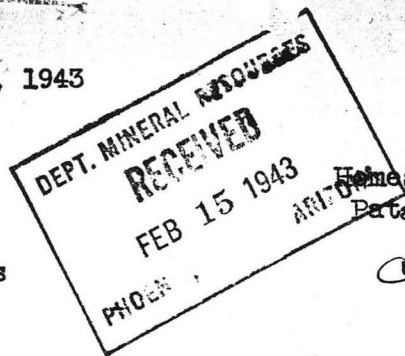
* GEOLOGY COMMENTS N85T UPPER PORTION OF VEIN IS RELATIVELY HIGHER IN COPPER, MIDDLE PORTION IN LEAD AND LOWER PART IN ZINC

GENERAL COMMENTS GEN<

Feb. 14, 1943

MEMORANDUM

To: Dept. Mineral Resources
From: George A. Ballam



Even though this loan is in process, Mr. Farley is leasing the property to Verdusco, Herrick and others. I went over it with them a few days ago. They were very bitter in their condemnation of the RFC for disapproving the previous application following alleged examination Sept. 23, 1942. They will testify that no examination was made. The country is very difficult, the property lying in a basin ~~over~~ one thousand feet below the mountains surrounding it. The upper claims, two in number, are near the top of the mountain. These were visited by the RFC examiner. The workings are a mile or so down in the basin, on the lower end of a group of three claims located along a very persistent quartz vein. This was not examined.

There are numerous openings in this vein which averages from three to five feet in width. The upper portion is relatively higher in copper, the middle lead, while the lower end where the 150' incline is runs higher in zinc. The lower holes are under water which stands at about 70' in the 200' vertical shaft. As will be noted on the map the north drift, about 150' is under the inclined workings which are 40' lower, hence there is not more than 10' to hole through.

Assays furnished by Farley are as follows:

150' Incline	Cu - 2.5%	Pb - 9%	Zn - 14%
200' Vertical	No assay but copper and lead claimed to be higher with lower zinc. Dump bears this out.		
60' shaft	Cu - 11.2% Au - .48 oz. Ag - 19.5 oz.		

This copper is largely chalcocite. Recent work by Farley showed considerable gray ore on dump.

The prospective leasors plan on mixing the ore from the 150' opening with the higher copper from above. Work down below was discontinued on account of high zinc which is very obvious from the dump where about 100 tons of excellent zincy ore can now be disposed of. It appears that this will be in the accessibility loan class, and will require \$3500 to handle. The application on file should be amended to this figure, including about \$400 for work on road out of the basin.

There is undoubtedly a lot of good mill ore here, and situated as it is only five or six miles from Duquesne mill of Callahan Zinc Lead Co., it could be made a profitable operation. The prospective leasor, Louis Verdusco, is an excellent miner. Kindly advise whether he will have to initiate another application, or can Farley transfer if approved?

GA Ballam

December 18, 1942



MEMORANDUM

TO: George A. Ballam

FROM: Earl F. Hastings

E. D. Farley, Patagonia, Arizona, has made an application for a Preliminary Development loan on his Homestake property.

He ^{had previously} made application for a "B" loan which, following an RFC examination on September 23, was declined. The information attached to his application is quite incomplete and insufficient to warrant recommendation of this loan. I am enclosing a copy of the information and a sketch of the property for your guidance.

Mr. Farley has been in close contact with all of the work performed on the property to date and should be able to add considerable information to the docket. You will note in the attached that only one reference to ore in place is made in which he states, "This ore averaged from two to five feet in width and assayed copper 2.5%, lead 9%, zinc 14%". This reference is to the 150' incline shaft, somewhere below the 60' level. This is not the shaft which it is proposed to dewater. No reference is made to any of the values in the shaft which is to be dewatered; although it is stated that some 300' of drifting has been accomplished along the vein. ~~The~~ reference is made to a 60' shaft. However, whether ore was encountered or not is not stated.

Please get from him all the information which he might be able to supply and give us your opinion of the general appearance of the property.

EXHIBIT B

Technical Data



A. Reports:

In an 150 foot incline shaft, located 150 feet from the 200 foot vertical shaft, sulphide ore was encountered 60 feet below the surface. This ore averaged from 2' to 5' in width, and assayed copper 2.5%, lead 9%, zinc 14%. This ore shoot was sampled by Julius Krutchnich, for the American Smelting & Refining Company. One car of selected ore was shipped running copper 3.5%, lead 17%, zinc 16%. Map of workings attached hereto.

B. Geology & Topography:

The main Homestake vein is a fissure vein, from 4' to 6' in width, cutting quartz-monzonite porphyry, with a strike north 35 degrees east, and dip 80 degrees east. The vein traverses the property for a distance of 6300 feet within the boundaries of the claims, and rises from an elevation of 5200 feet to 6400 feet.

C. Existing Development:

1. About 800 feet of development work consists of three shafts, drifts and crosscuts.

Shaft No. 1 is an incline shaft, 150 feet in depth, in which the ore hereinbefore mentioned was encountered. Shaft No. 2 is a vertical shaft, 200 feet in depth, well timbered, from which crosscuts were run at the 100' and 200' levels, and about 300' of drifts - 150' northerly and 150' southerly. Shaft No. 3 is a 60' incline shaft about the center of the property.

3. Owing to the favorable topography of the ground, the mine can be developed by tunnel on the vein to a maximum depth of 1200 feet; but for the purposes of this application, the immediate development work will be through the 200' vertical shaft, to open up the ore shoot that was encountered in the 150' incline shaft. When the 200' vertical shaft is unwatered, the drift to the north, 150 feet will need timbering.

4. Equipment consists of a small hoist.

D. Proposed Preliminary Development of Existing Mine Workings:

1. The water stands in the 200' vertical shaft at about 50' from the surface. The present work consists of unwatering this shaft and about 300' of drifts, after which timbering will be required on a 150' drift, in order to examine and further develop the ore encountered in the adjacent 150' incline shaft. The total cost of this work will approximate \$5000.00.