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ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: LINE BOY MINE

ALTERNATE NAMES:

SANTA CRUZ COUNTY MILS NUMBER: 154

LOCATION: TOWNSHIP 24 S RANGE 16 E SECTION 22 QUARTER SE
LATITUDE: N 31DEG 20MIN 07SEC LONGITUDE: W 110DEG 41MIN 27SEC
TOPO MAP NAME: LOCHIEL - 15 MIN

CURRENT STATUS: PAST PRODUCER

COMMODITY:

COPPER SULFIDE
MOLYBDENUM SULFIDE
IRON
SILVER

BIBLIOGRAPHY:

USGS LOCHIEL QUAD
ADMMR "U" FILE CU 5
AZBM CARD FILE SANTA CRUZ CO.
ADMMR LINE BOY MINE FILE
USGS BULL. 582, P. 347
USGS BULL. 436, P. 161
AZBM BULL. 180, P. 235
USBM IC 8236, P. 93

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

March 10, 1958

To the Owner or Operator of the Arizona Mining Property named below:

Line Boy
(Property)

Copper
(ore)

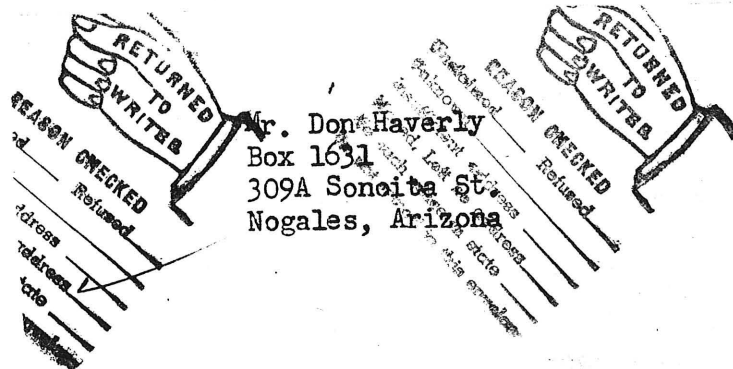
We have an old listing of the above property which we would like to have brought up to date.

Please fill out the enclosed Mine Owner's Report form with as complete detail as possible and attach copies of reports, maps, assay returns, shipment returns or other data which you have not sent us before and which might interest a prospective buyer in looking at the property.

Frank P. Knight

FRANK P. KNIGHT,
Director.

Enc: Mine Owner's Report



LINE BOY

Cu, Mo

Santa Cruz

12 - 1

T 24 S, R 17 E

Don W. Haverley, 309A Sonoita St., Nogales

45

NAME OF MINE: LINE BOY

OPERATOR AND ADDRESS:

DATE:

Don Haverley, Box 1631
309A Sonoita Street
Nogales, Arizona

MINE STATUS

DATE:

12/43

5/45

9/45

Quit

Developing

Idle

COUNTY:

DISTRICT: SANTA CRUZ S

METALS: Patagonia

CU

LINE BOY MINE

SANTA CRUZ COUNTY

USGS Bull. 582 p. 347
USGS Bull. 430 p. 161

ABM Bull. 180, p.235

IC 8236 p. 93

LINE BOY

No indication of any recent activity. Dump contains a large amount of pyrite including fragments of crystals greater than two inches on an edge. There has been some core drilling in the near vicinity of themine, but none for the last two years. The core sections discraded on the ground near the drill holes showed no metallic minerals. KAP Report dated 6/18/73

MG WR 2/12/82: The Line Boy patented claim in Sec. 22, T24S R16E, Santa Crus County, is owned by Mr. John Willey, 1656W. Escalon, Fresno, California 93705.

Feb. 24, 1943

MEMORANDUM

Line Boy Mine

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

Don. W. Haverly of 309 A Sonoita St., Nogales has leased 11 claims, one patented, located 6 miles southeast of Washington Camp in the Patagonia Mng. Dist., and lying along the Mexican border.

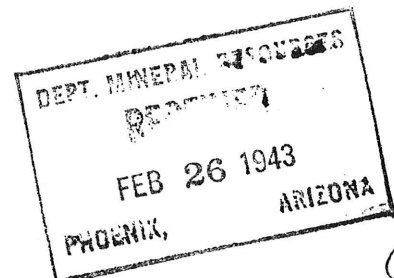
The ore, Chalcopryite running about 5% Cu, occurs in sericite masses of irregular size and pattern which are found in the granite and quartz monzonite of the area. Some 50 tons of this ore have been shipped to Hayden. Development consists of a tunnel about 120' to the ore body which has been stoped out about 25' around an old shaft some 40' to surface. There is little or no penetration in monzonite, the deposition being confined to pockets of soft and permeable sericitized matter. Insufficient work has been done to determine the extent of this particular mass, but similar surface showings indicate that it will be a matter of following irregular vein system to these pockets.

There is a shaft about 200' to the south, under water, but from the appearance of the dump, is in quartz containing molybdenite and chalcocite. Nothing is known of work in this shaft, about 100' deep. Any development of the property should include exploring this quartz vein no outcrop of which appears. Country is wooded and carries considerable overburden.

improvement

Some 3 miles of road/is required to make accessible. There is ample water, also oak timber on the property.

GA Ballam



BENTON MINE

The Benton mine, owned by Dennis Coughlin and partners, of Duquesne, is situated about three-fourths mile northeast of post 113 of the international boundary line, on open ground, at an elevation of about 5,200 feet. It is developed principally by a 155-foot tunnel. The country rock is granite, intruded by granite porphyry and aplitic granite. The granite porphyry contains the values of the mine, which consist of low-grade copper and gold ore. The ore occurs chiefly in a dike of this rock 60 feet wide, which is impregnated with pyrite, chalcopyrite, and a little flaky molybdenite. Its contact with the granite is marked by a sericitic zone a few feet in width.

LINE BOY PROSPECT

*SGSR 582
Map shows location
SE of Benton*

The Line Boy prospect, owned by Captain O'Connor, of Duquesne, is located just north of post 113 of the international boundary, about three-fourths mile south-west of the Benton mine, at an elevation of about 5,400 feet. It is developed to a depth of 80 feet by three shafts and a tunnel.

The country rock is gray granite, intruded by a north-south dike of granite porphyry 300 feet in width. The ore deposits are contained in the granite, which near the dike is impregnated with pyrite, chalcopyrite, molybdenite, and a little bornite. The metallic minerals are particularly abundant along the contact of the two rocks and are concentrated in joint planes and fissures, locally with a little associated quartz. In one place occurs a 3-foot band of fine-grained, friable, and relatively pure specularite.

The molybdenite occurs also unassociated with the other sulphides, in the form of comparatively pure lumps or crystals, in places one-eighth of an inch thick and more than half an inch in diameter, in a coarse siliceous, sericitic phase of the granite. It also, with quartz in about equal amount, forms veinlets of considerable continuity that traverse less acidic portions of the granite and range from microscopic width or one-sixteenth inch. It is also present in small amount in microscopic to a very small macroscopic veinlets or seams traversing a dense phase of the granite. The veinlets are parallel, ten or twelve being contained in a single thin section made for microscopic study. They contain and are associated with microscopic druses.

ORIGIN OF THE DEPOSITS

At all the localities here described the molybdenite, whether found in veins, as impregnations in the rock, or in other forms, occurs in granite or in quartz veins cutting the granite. All the deposits, besides being intimately associated with considerable quartz, are also more or less intimately associated with granitic intrusive rocks--aplite, granite porphyry and allied acidic rocks. From the constancy of these conditions it seems probable that some genetic relation exists between the deposits and the intrusive rocks, and that the deposits were probably formed by precipitation from thermal solutions whose circulation accompanied or followed the intrusions.

DEPARTMENT OF MINERAL RESOURCES

REPORT TO OPA ON ACTIVE MINING PROJECT

002

Filing Information

Date 4-5-45

Name of Mine Line Bay

Owner or Operator Don W. Haverly

Address Box 1631 Nogales Ariz

Mine Location 23 miles east Nogales

File System

File No.

This chart to be used for gallons of gasoline required per month.

PRESENT OPERATIONS: (check X)

Production ☒; Development; Financing; Sale of mine;

Experimental (sampling); Owner's occasional trip;

Other (specify)

PRODUCTION: Past and Future.

Approx. tons last 3 months

Approx. present rate per 3 months

Anticipated rate next 3 months

If in distant future check (X) here

EQUIPMENT OPERATED:

Type	Quantity or Horse Power	Miles or Hours Per Month	Gallons Required Per Month
Personal Cars			
Light or Service Trucks			
Ore Hauling Trucks	Ford 2 ton V8 1935		360 gal per mth
Compressors			
Other Mine or Mill Eqpt.			

PRODUCT PRODUCED OR CONTEMPLATED: Name metals or minerals.

Copper Molybdenum

REMARKS:

This is a duplicate recommendation to replace one lost somewhere in transit a few days ago. Sorry the delay was occasioned

ARIZONA DEPARTMENT OF MINERAL RESOURCES

By

George A. Hallen

DEPARTMENT OF MINERAL RESOURCES

REPORT TO OPA ON ACTIVE MINING PROJECT

Date March 31-1945
 Name of Mine Line Boy
 Owner or Operator Don W. Haverly
 Address Box 1631 Nogales Arizona
 Mine Location Patagonia District

Filing Information

File System.....

File No.....

This chart to be used for gallons of gasoline required per month.

PRESENT OPERATIONS: (check X)

Production ☒; Development.....; Financing.....; Sale of mine.....;

Experimental (sampling).....; Owner's occasional trip.....;

Other (specify).....

PRODUCTION: Past and Future.

Tons

Approx. tons last 3 months

Approx. present rate per 3 months

Anticipated rate next 3 months

If in distant future check (X) here

None
~~300~~
300

EQUIPMENT OPERATED:

Type	Quantity or Horse Power	Miles or Hours Per Month	Gallons Required Per Month
Personal Cars	<u>None</u>	<u>1200 miles</u>	<u>120</u>
Light or Service Trucks	<u>One</u>		
Ore Hauling Trucks	<u>None</u>		
Compressors	<u>None</u>		
Other Mine or Mill Eqpt.	<u>None</u>		

PRODUCT PRODUCED OR CONTEMPLATED: Name metals or minerals.

REMARKS:

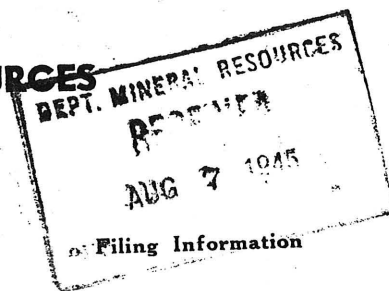
Will produce copper ore

ARIZONA DEPARTMENT OF MINERAL RESOURCES

By.....

DEPARTMENT OF MINERAL RESOURCES

REPORT TO OPA ON ACTIVE MINING PROJECT



Date Nov. 13, 1944

Name of Mine Leig Bay

Owner or Operator Don H. Haverly

Address Gen. Del. Nogales, Ariz

Mine Location Sierrita, Nogales, Ariz

File System.....

File No.....

This chart to be used for gallons of gasoline required per month.

PRESENT OPERATIONS: (check X)

Production ☒; Development.....; Financing.....; Sale of mine.....;

Experimental (sampling).....; Owner's occasional trip.....;

Other (specify).....

PRODUCTION: Past and Future.

Tons

Approx. tons last 3 months

None

Approx. present rate per 3 months

50 Tons

Anticipated rate next 3 months

50 Tons

If in distant future check (X) here

EQUIPMENT OPERATED:

Type	Quantity or Horse Power	Miles or Hours Per Month	Gallons Required Per Month
Personal Cars			
Light or Service Trucks	<u>1 Truck</u>	<u>500 miles</u>	<u>60 Gal.</u>
Ore Hauling Trucks	<u>None</u>		
Compressors	<u>None</u>		
Other Mine or Mill Eqpt.	<u>None</u>		

PRODUCT PRODUCED OR CONTEMPLATED: Name metals or minerals.

Copper, Molybdenum,

REMARKS:

ARIZONA DEPARTMENT OF MINERAL RESOURCES

By.....

FUTURE PROSPECTS OF THE DEPOSITS

The only one of the above-described localities at which molybdenite seems to be present in workable quantities is at Helvetia, notably in the Leader mine. However, as all the deposits occur under geologic conditions ~~favorable~~ favorable for molybdenite and are still in the prospect stage, it is possible that with development some others may prove to be of economic value. At the time of visit ~~with~~ the Madera Canyon prospects were being exploited for molybdenite. An important point in the selection of deposits for development is the absence of chalcopyrite, for this mineral is difficult to separate from molybdenite and thus reduces its market value.

GENERAL OCCURRENCE OF MOLYBDENITE

According to Crook, the molybdenite at fifty or more localities in different parts of the world which have been described occurs in a great variety of rocks, including practically all the main groups, but its occurrence with granite is by far the most usual and typical. Hillebrand also states that molybdenite accompanies the more acidic rocks and is a well-known constituent of some granites.

According to Crook, "the association with sulphides and oxides is that most characteristic of the occurrence of molybdenite in quantity in veins." In small quantities the mineral is not at all uncommon in the fissure veins of the Cordilleran States. The deposit at Crown Point, Washington, economically one of the most important in the United States, is a quartz vein in which molybdenite occurs in association with chalcopyrite.