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ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: LION HILL

ALTERNATE NAMES:

GLORY GROUP
RICO MINE
OSBORNE & BOTZUM
COMPRESSOR TUNNEL

LA PAZ COUNTY MILS NUMBER: 34

LOCATION: TOWNSHIP 10 N RANGE 19 W SECTION 25 QUARTER N2
LATITUDE: N 34DEG 10MIN 58SEC LONGITUDE: W 114DEG 11MIN 18SEC
TOPO MAP NAME: BLACK PEAK - 15 MIN

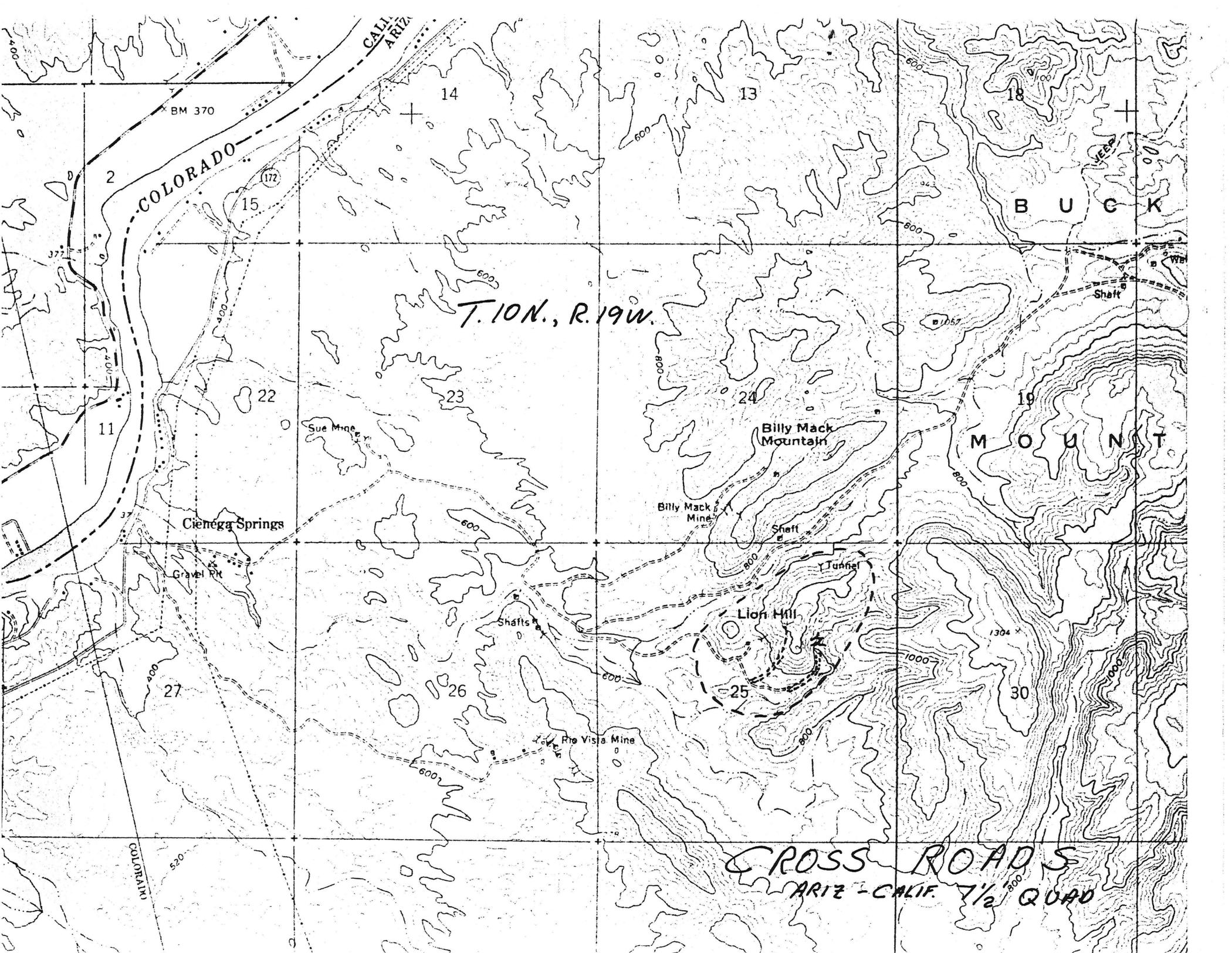
CURRENT STATUS: PAST PRODUCER

COMMODITY:

GOLD LODE
SILVER
COPPER

BIBLIOGRAPHY:

KEITH, S.B., 1978, AZBM BULL. 192, P. 142
ADMMR LION HILL FILE
MINES HANDBOOK 1920
AZBM BULL 137, P 126-127
AZBM BULL 140, P 104
AZBM BULL 129, P 87
ADMMR "U" FILE, Au35



COLORADO

CALIF. ARIZ.

B U C K

M O U N T A I N

T. 10N., R. 19W.

CROSS ROADS
ARIZ - CALIF. 7 1/2 QUAD

BM 370

14

13

18

15

23

24

19

11

22

Cienega Springs

Billy Mack Mountain

Gravel PK

Billy Mack Mine

Shaft

Shaft

Tunnel

Lion Hill

27

26

25

30

Shafts

Rio Vista Mine

COLORADO

520

1000

1304

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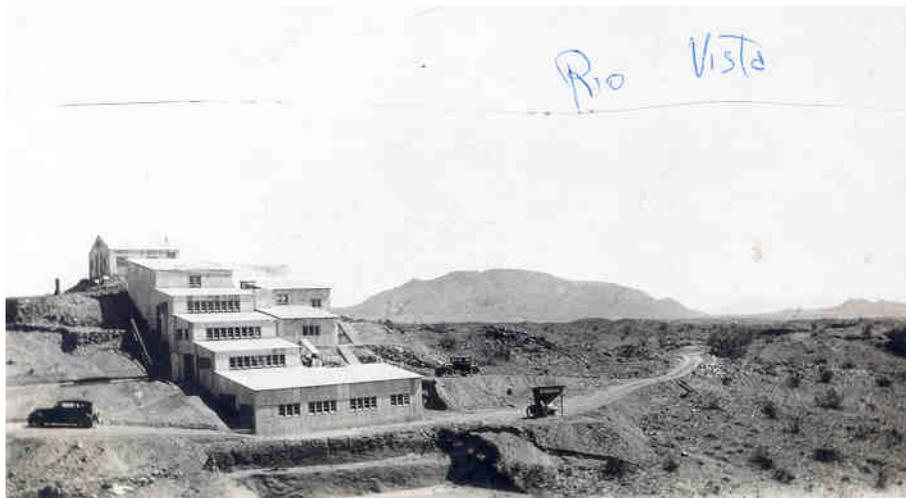
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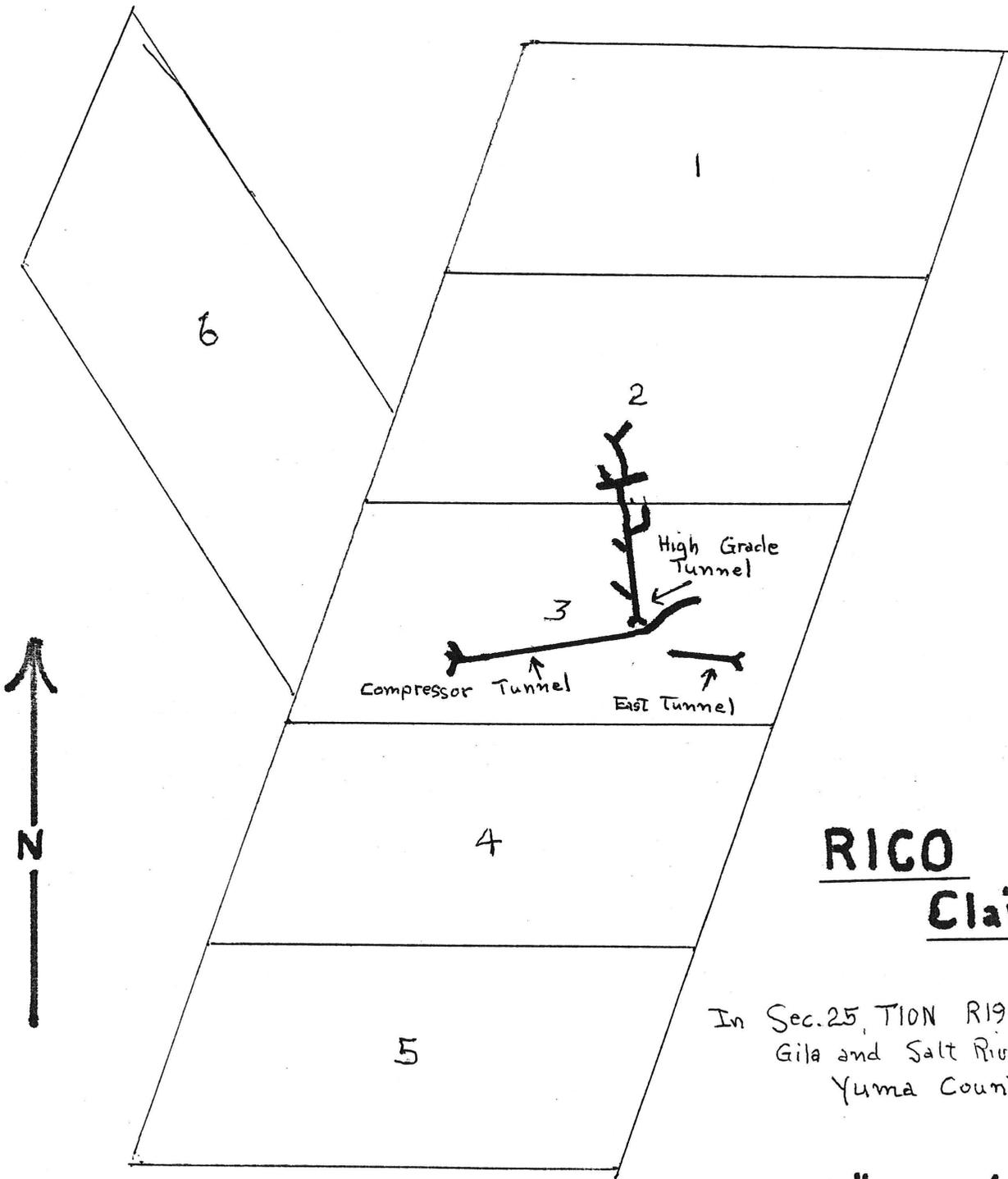
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Rio Vista





RICO
Claims

In Sec. 25, T10N R19W
Gila and Salt River Meridian
Yuma County

SCALE 1/2" = 200'

NAME OF MINE: LION HILL

COUNTY: YUMA W

DISTRICT:

METALS: CU, AU

OPERATOR AND ADDRESS:

MINE STATUS

DATE:

DATE:

Clara Osborne Botzum
✓ Harry Osborne
Box 1587
Parker, Arizona

3/1/44

Closed

LION HILL

Au, Ag

Yuma

14 - 1

T 10 N, R 19 W

Clara O. Botzum, Box 1587, Parker

'43

Don^D Joslyn- No. 20.

El Rancho Parker Motel

~~XXXXXXXXXX~~

PARKER • ARIZONA - 85344.

P. O. Box 2547



1/28/64

RICO MINE

YUMA COUNTY

ABM Bull. 137 p. 126

ABM Bull. 140 p. 104

ABM Bull. 129 p. 87

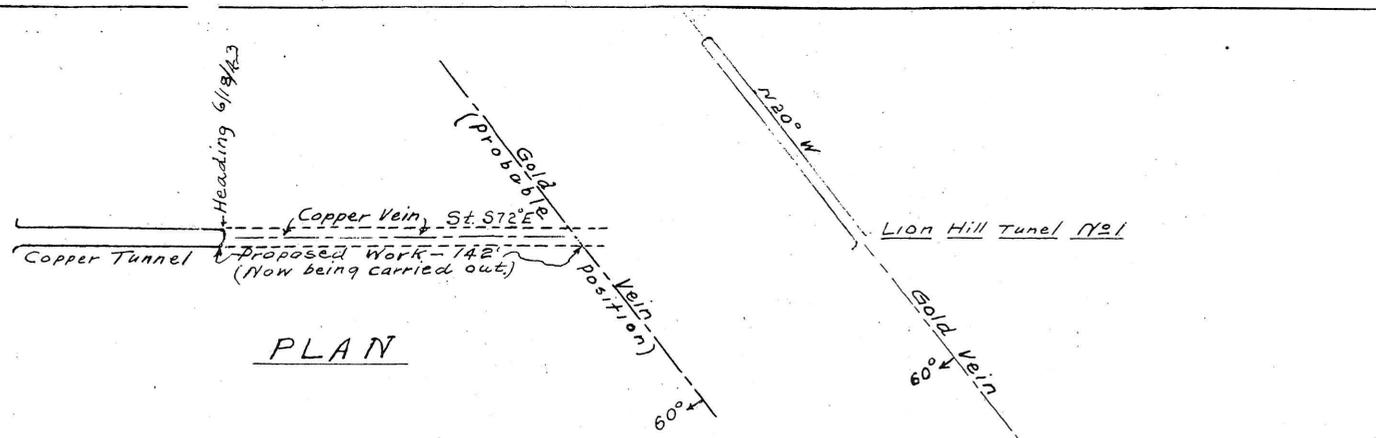
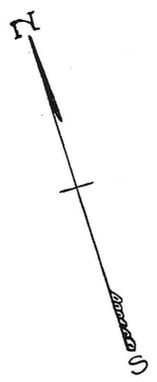
Lion Hill "U" file

BG&MT = Bulletin 192 - page 142

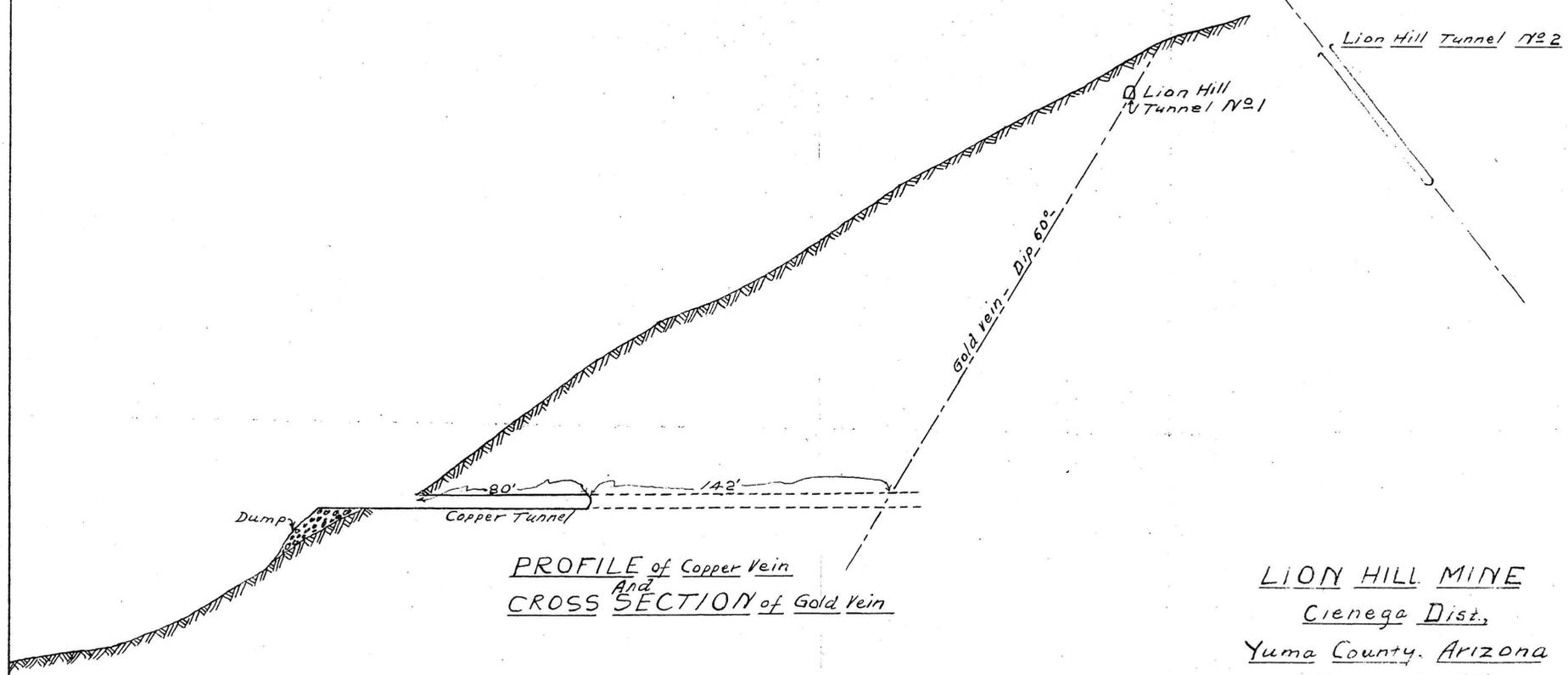
Mines Handbook 1920

MILS Sheet sequence number 0040270264

See: GJBX-213(82) Pg. 83



PLAN



PROFILE of Copper Vein
AND
CROSS SECTION of Gold Vein

LION HILL MINE
 Crenege Dist.,
 Yuma County, Arizona
 Scale: 1" = 50'
 E.B. Holt Sketch Map 7/17/43

RICO MINE, (formerly Lion Hill)

YUMA CO.

KP/WR 8/3/79 - Scott Sellers, General Delivery, Crown Point, New Mexico 87313, discussed his bid to extend the Compressor Tunnel at the Rico Mine 300 feet. He felt the cost would be about \$120 per foot for a 5x7 heading. The demand for small mining jobs was discussed.

RRB WR 4/30/82: In the company of Ken Phillips, visited the Compressor Tunnel, Rico Mine, Yuma County. Separate report has been written.

Interviewed Harry Osborne also Clara Botzum. They report that a Mr. Joslyn of Denver has taken an option on their properties (Sue, Mammon, Rico and Rio Vista) and will explore by drilling. TPL WR 10-15-60

November 28 Don D. Joslyn, 8799 W. Colfax, Denver, Colorado, visited re the Osborne properties - Rio Vista, Sue, etc. near Yuma. He and associates are planning to develop the properties. TPL WR 12-3-60

Interviewed Harry Osborne who said that his and Clara's properties - the Sue, Rio Vista, Mammon and Rico - were under lease and option to Anaconda Lead & Silver Mining Co. of Denver, Donald Joslyn, Pres. A geologic study and economic evaluation are being made. Diamond drilling is planned. Mr. Osborne also said his iron properties in the Swansea-Planet area - the Dome, El Molino and Mineral Zone - were under lease to Alexander Preston who hopes to ship to Japan. TPL WR 2-18-61

The property is under lease with option to purchase by Anaconda Lead & Silver Mining Co., Donald Joslyn, Pres. & Gen. Mgr., Box 2547, Parker, Arizona. The visit was made in Joslyn's car, round trip from Parker 15 miles.

Recent work by the company has advanced the Lower or Compressor Tunnel to within 60' of its primary objective which is the downward project of the vein developed and mined in the High Grade Tunnel at some 200' higher elevation. From the point of this intersection it is proposed to drift some 150 feet westerly and then raise to connect with a winze 90' deep in the floor of the above tunnel. During the course of the work he expects to cut some ore in parallel veins and in drifting upon the main vein.

Work was discontinued about a month ago because of failure of the principal in the venture to provide certain agreed upon funds. Mr. Joslyn is hopeful of making other financial arrangements in the near future. TPL Memo 10-12-61

Interviewed Don Joslyn at his office in the El Rancho Motel. Mr. Joslyn is president & general manager of the Anaconda Lead & Silver Mining Co. He expects to make financial arrangements in the near future where by he can start work on the Rico mine. EGW WR 6-14-63

Visited and went underground at the Rico Mine where 2 men were working driving a drift. The drift being driven on two shifts, two men on each shift. EGW WR 2-27-64

Mr. Smith says this property not active. 7-15-65

This mine was held by Frank Ewing and after 2 years he sold it to the Sloans (Henry & June) for \$30,000, they erected a small gravity mill with concentrating tables, and a pan-amalgamate plates. Production from this mill is not known. LAS Memo 10-14-65

Stopped at Melvin Jones house in Wickenburg to discuss his interview with Clara Botzum regard the Lion Hill gold mine. He said she accompanied him to the property and mentioned \$100,000 for a $\frac{1}{2}$ interest. He tried two of his clients but neither of them wanted it at that price. assumes she claims the property; however, he is convinced that no actual assessment work has been done on it for sometime. GW WR 5-9-73

Sheet 1 of 2

→ COMMODITIES Gold, Copper, Silver
 MILS ID No. # 34 Date April 29, 1982
 ENGINEER Ken Phillips - Richard Beard KAP
 INFORMATION FROM: Property visit on April 29, 1982

PROPERTY SUMMARY

→ I. MINE NAME Lion Hill OTHER POSSIBLE NAMES Compressor Tunnel
 INCLUDING ANY CLAIM NAMES NOTED

II. LOCATION: T 10N R 19W SEC(S) N.C. 25 MINE DISTRICT Cienega
 ELEV. 800' COUNTY Yuma TOPO QUAD. Cross Roads, AZ & Ca, 7 1/2'
 DIRECTIONS See attached map

MAP ATTACHED yes

III. OWNERSHIP: NAME _____ PHONE _____
 ADDRESS: _____
 COMPANY NAME IF ANY: _____
 PERTINENT PEOPLE _____

IV. PROPERTY AND HOLDINGS: _____

V. PAST PRODUCTION - NOTED, KNOWN, PROBABLE, UNKNOWN, NONE Yes, some pockets of very high grade gold ore.

IV. CURRENT STATUS: Idle. New roads have been cut in last 3 years.

IIV. WORKINGS: Numerous tunnels

** The compressor tunnel has been lengthened considerably since old reports. The
 ** compressor tunnel has also been surveyed by unknown parties.

IIV. GEOLOGY AND MINERALOGY: DEPOSIT TYPE: Limestone Contact
 LENGTH: _____ WIDTH: _____ VEIN STRIKE _____
 HOST ROCK: Limestone
 ECONOMIC MINERALS: Gold

COMMENTS: Mineralization occurs in altered limestone near contact with intrusives. Geologic setting along with past history of very high grade gold production makes this property an excellent target.

IX. EQUIPMENT ON SIGHT: None

X. SAMPLING: NOTE TYPE IF ANY, DRILLING? _____

XI. REFERENCES AND REMARKS This property warrants further investigation by the engineers.
More work and evaluation on this property should be encouraged.

Clara Botzum
Box 673

Mr. Yule

Parker, Ariz 85344

669-8693

1608 Pala Verde

Parker

L. A. CORNEJO, P. E.
REGISTERED: MINING ENGINEER,
LAND SURVEYOR AND U.S. MINERAL SURVEYOR
—
1221 EAGLE AVE. — TELEPHONE 669-2619
PARKER, ARIZONA 85344

MEMORANDUM

TO: Clara Osborne Botzum

FROM: L. A. Cornejo, P.E.

DATE: May 30, 1979

SUBJECT: Rico Mine Project

Leon Hill

The project consist of extending 200 ft. in a Easterly direction the existing exploratory drift called the Compressor Tunnel.

The Compressor Tunnel runs Easterly, 450 ft. from the portal to the face, about 5 ft. wide by 6.5 ft high. There are no rails nor pipe lines.

Rico Mine is characterized by abundant massive silicious limestone and Quartzsite, a firm type of rock. No timbering was required along the Compressor Tunnel and it is expected that the extension will follows same pattern.

The Rico Mine is located in Section 25, Township 10 North, Range 19 West, G.S.R.M., Yuma County, Arizona. Access is by a good graded road, about 3 miles off Highway 95, at a point 5 miles Northeast of Parker.

The mine is dry, water for drilling can be obtained from the Colorado River at the intersection of said graded road and Highway 95 or wells nearby. A water truck equiped with water pump is needed.

L. A. Cornejo
L. A. Cornejo, P.E.

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Sue & Rico

Date Sept. 29, 1958

District Cienega District - Yuma County

Engineer Travis P. Lane

Subject: Mine activity

Owners: Mrs. Clara Botzum and her brother Harry Osborne own the Sue mine; Harry Osborne owns the Rico mine. They reside in Parker.

Operator: Arnev, Inc.
Box 2013
Parker, Arizona

The shareholders of the corporation are: Evan Stephenson, pres.; Leland Tidwell, and Fred Law. Mr. Law directs the operation. This group formerly operated as the S.T.L. partnership.

The Sue property comprising 7 unpatented claims is located 6 miles northeast of Parker and the Rico property, also 7 unpatented claims, is east of the Sue and about 8 miles northeast of Parker. The Rico, formerly known as the "Lion Hill", is interesting for gold and copper values, as well as manganese. The vein width ranges from a few feet to a maximum of 30'.

The shareholders noted above, are all three performing development work at the properties. They propose to rehabilitate the small Osborne mill on the Colorado River, some 5 miles above the properties, to pilot test the ore with a view to installing a 200 tpd dry concentrator for the manganese ore; also to test gold ore.

Parker, Arizona
Aug.4, 1979

Mr. Glenn A. Miller and
Mr. Clifford J. Hicks
Department of Mineral Resources
Mineral Building, Fairgrounds
Phoenix, Arizona 95007

Dear Mr. Miller and Mr. Hicks:

I deeply appreciated your calling by my home July 17th and I thoughly enjoyed our visit. Let us hope the next time you visit Parker it will be cooler and I hope we have some new mining activity of interest.

At the present time we have heavy equipment extending a road on the Rico Mine for quite a distance through a rugges area to a mineralized area so they can getequip-ment in for a mining program.

I am very happy to have met both of you and value your information and advice.

I hope to be in Phoenix in September. If so, I will call by the office.

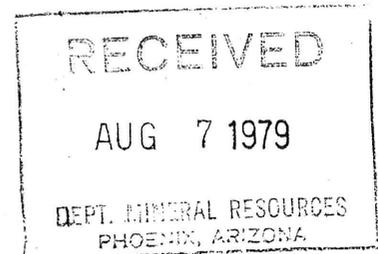
With kindest personal regards..

Sincerely

Clara Osborne Botzum
Clara Osborne Botzum

P.O.Box 675
Parker, AZ 85344

Cliff



Parker, Arizona
Aug.4, 1979

Mr. Ken A. Phillips
Department of Mineral Resources
Mineral Building, Fairgrounds
Phoenix, Arizona 85007

Dear Mr. Phillips:

Please forgive me in being so tardy in answering your kind letter of July 2.

I deeply appreciate your bringing to my attention the registration of my mining holdings with the U.S. Bureau of Land Management. However, I did this in 1978 but thank you for your thoughtfulness in my behalf.

We are extending a road on the Rico Mine for quite a distance through quite a rugged area to a mineralized area so they can get equipment in for a mining program.

I was very happy July 17th when Mr. Glenn Miller and Mr. Clifford Hicka of the Department of Mineral Resources called. We had a very pleasant visit and they told me Mr. Hicks would be the Field Engineer covering this district. I hope the next time Mr. Hicks visits Parker it will be cool and that we can show him some new mining activity.

Later I hope to get some data for your files.

Kindest regards.

Sincerely

Clara Osborne Botzum
Clara Osborne Botzum
P. O. Box 675
Parker, AZ. 85344

RECEIVED

AUG 7 1979

DEPT. MINERAL RESOURCES
PHOENIX, ARIZONA

BENJAMIN GALE
1851 CRESTVIEW DRIVE
PALM SPRINGS, CALIF.



Oct. 25, 1945,

Dear Mr. Manning -

The property I
am considering is the
Lion Hill Mine (or prospect)
Bieneva Dist. Yuma County, Ariz.
Any information you can give
me will be appreciated.

Sincerely,

R. J. Gale

21 Oakmont Mine

Los Angeles, 24
Calif.

Approved
by
Burch
10/29

December 28, 1943

Mrs. Clara O. Botzum
P. O. Box 1587
Parker, Arizona

Dear Clara:

I am enclosing two copies of the Holt report on Lion Hill together with two photostatic copies of the smelter returns and the maps as requested, and incidentally the bill for the photostats, which is \$7.72.

I am sending Holt a copy of his report, the smelter returns and the map for his files and will retain the originals in our file on the Lion Hill.

With best wishes for the New Year, I am

Yours very truly,

J. S. Coupal, Director

JSC:LP
Enc.

CC: Elgin B. Holt

Florence Haskell

December 27, 1943

Mrs. Clara O. Botzum
P. O. Box 1587
Parker, Arizona

Dear Clara:

I have just received your telegram regarding the dress and Florence Haskell advises that it will be in the mail by three o'clock today so that you should have it tomorrow, that is, on Tuesday, December 28.

I have just received Holt's report on your property together with the map and six settlement sheets, which are very much the worse for wear. As Holt states in his report that copies of the map and the settlement sheets are attached, I am having three photostats made of each item and will send two to you along with copies of Holt's report, and one to Holt for his files, and retain the originals here in the office for our files, unless otherwise instructed by you.

Due to the fact that we are working on a very short budget and to the fact that at the end of the first and second quarters of our fiscal year I have had to get authorization by the Governor to draw on our second and third quarterly allotments, respectively, the Department cannot stand the expense of photostatic copies for individual uses. Therefore, I have taken the liberty of having these photostats made and have asked the Phoenix Blue Print Company to bill you through the Department and I will forward the bill to you. I believe it is in the neighborhood of \$7.00.

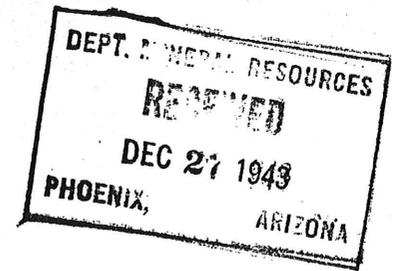
With best wishes for the New Year, I am

Yours very truly,

J. S. Coupal, Director

JSC:LP

Parker, Arizona,
Dec. 22, 1943.



MEMORANDUM

To: J. S. Coupal
From: Elgin B. Holt
Subject: Lion Hill Mine Report

I am herewith enclosing my report on the Lion Hill mine, which I have just completed.

Kindly have photostatic copies made of the attached map of this property by R. E. Tilden and mail one to me for my files. Also please mail a copy of this report, including a copy of said map, to Clara.

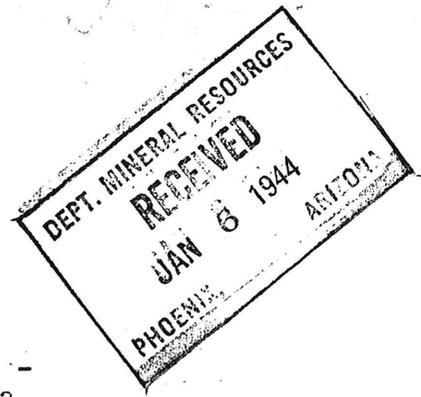
I note what you say in your letter about getting back to Kingman as soon as possible in order to save expenses. In this regard will leave for Kingman tomorrow morning.

Elgin B. Holt

January 4, 1943

MEMORANDUM

To: J. S. Coupal
From: Elgin B. Holt
Subject: My Report on the Lion Hill Mine -
Clara O. Botzum, Parker, Arizona.



I am herewith enclosing a letter from Clara Botzum, dated Dec. 30th, stating she had received two copies of my report, maps, etc., on the Lion Hill mine and calling attention to the fact that when my original report was copied in our Phoenix office pages 3 and 5 were left out.

Suggest that my original report be copied again, including the said missing pages, and that a copy of my complete report be mailed to Mrs. Botzum.

Elgin B. Holt.
Elgin B. Holt

cc - C. Osborne Botzum

*Report was rechecked
and copies were sent
to C.O. Botzum.*

IRON HILL

Several shipments of rather high grade ore have been made from this hill in the spring of 1916 by a leaser; this ore was all taken from kidneys in the lime, and just beneath the lime and iron capping.

It was at one time thought that beneath this iron capping there was a blanket of ore carrying both gold and copper; the very careful survey that has been made of this hill, however, has disclosed the presence of the many veins and fissures hereinafter mentioned, and a condition of mineralization that promised to make this one of the great gold and copper mines of the State.

Extending from the southeast corner of the Lion Hill are two large quartz veins, trending across the gulch, between the Lion and the Jack Rabbit hill and intersecting the El Dorado vein.

I believe that large ore bodies should be found beneath these quartz veins at their junction with the El Dorado.

The Seneca vein is found on the east side of the Lion Hill and shows strongly at a point about 150 feet above the deep gulch at that side. At this point a tunnel has been driven on the ore body for 30 feet in a northwesterly direction. The vein at this point is from 16 to 20 feet wide. Samples taken across the face at this point assayed 1 3/4% copper per ton.

Directly above this tunnel, a distance of 500 feet and nearly to the top of the Lion Hill at the east side, we have made a cut 25 feet deep, and have exposed a body of good copper ore 15 feet wide that assays 4 to 5% copper.

Proceeding in a northwesterly direction a distance of 300 feet, and following the vein all the way, we came to two openings near to each other, making a good showing of from 15 to 20 feet of ore. Continuing in the same direction, and along the vein at a point 75 feet distant are cuts on both sides of the vein showing up some very good copper ore. 75 feet further along are 3 openings all showing fine copper ore.

ARIZONA is the name we have given to a large vein starting at a point on the east side of the gulch of the Lion Hill; the vein is traceable straight up the steep side of the gulch 400 feet. At the edge of the hill at this point is a 30 foot shaft on the vein and showing good ore all the way down, and 3 feet wide. The dip of the vein is north; a fair sample taken at this point assayed 2 1/2% copper per ton.

About ten feet from this shaft a trench 10 feet deep has been dug along the vein for 25 feet and makes a fine showing of copper ore; some of the obviously rich or better ore assayed 16% copper per ton.

Proceeding 150 feet in a northwesterly direction and along the vein we came to an open cut exposing 4 feet of very fine copper ore.

At a point 150 feet still further along the vein and in the same general direction we came to three openings 10 feet apart, all in good ore.

OPTIMIST VEIN The point of discovery is at the break of the gulch on the east side of the south end of the Lion Hill; the first strong evidence of this vein is several hundred feet below the crest of the east slope, about 200 feet north of the deep cut in the Seneca vein. At the point of discovery the showing is a very strong one, although not opened up to any extent.

In a northwesterly direction and along the vein at 300 feet we came to a cut in the side of the hill exposing the vein and a good showing of copper ore. 200 feet further along the vein in the same direction is a cut 20 feet long and about 15 feet deep which exposes the vein along the north side of the cut. Quite a lot of very rich ore was shipped from this point by the leaser.

JIM CROW VEIN The most important showing on this vein is near the south end of the Lion Hill on its west side, about 200 feet below the crest. Here the vein is exposed by a cut 40 feet long and 14 feet deep, and shows 4 feet of good copper ore; several shipments of very rich ore came from this cut which was made by the leaser.

LION VEIN The point of discovery is about 150 feet east of the crest of the hill. At this point there is a cut 30 feet long, 13 feet deep and it shows up 6 feet of good ore; from this point some of the ore shipped by the leaser was taken. 35 feet northeast of this cut is a trench 50 feet long and 4 feet deep showing good ore; this trench is from the Glory Hole.

GLORY HOLE so called is a cut 25' x 25' in which a shaft has been sunk to a depth of 30 feet; this shaft went through the vein for 20 feet, the vein dipping to the north. Below the 20 feet no ore was found.

Next is an open cut 40 feet long, 12 feet wide, and 15 feet deep which cuts across a small vein of good copper ore, so far not named or traced. From this opening considerable high grade gold ore was shipped by the leaser in April 1916.

COMMODORE FISSURE VEIN The Lion vein, in connection with the Commodore fissure vein cuts the entire Lion Hill from south to north on its westerly side.

On the west side of the hill and about 350 feet below the crest we have started a 5' x 7' tunnel on this contact and have called it the Commodore Tunnel. This tunnel when driven through to a point under the crest of the hill will cut at least 6 of the fissure veins at depths of from 50 to 300 feet.

Drift tunnels may be driven on the veins as cut, and the ore taken out through the Commodore tunnel, as well as the ore from the Commodore vein. In driving of this tunnel we are following a sea of ore on the footwall of the contact, that not only carries good copper values but quantity and quality are increasing with every foot the tunnel is driven.

In my opinion it is highly probable that large bodies of ore will be encountered in the driving of this tunnel, and the values will be exceptionally high.

At the date of this report the tunnel has been driven 30 feet by open cut, and tunnel proper is in 22 feet, or 52 feet in all. Across the face of the tunnel is found gangue and ore together with 18 inches of good copper ore, which seems to be the top of the pay chute; samples from this average 13% copper per ton. Some of the better looking ore from the breast of the tunnel assayed 24.2% copper per ton.

The portable compressor owned by the company will be moved to the point nearest the portal of the Commodore tunnel in a few days and the driving of the tunnel prosecuted with two shifts.

GENERAL STATEMENT

I have seen many of the large copper mines of this country, but I have never seen as many veins and as large surface showings of copper in the same area, as are to be seen on the Lion Hill.

The Seneca vein, the largest is from 12 to 15 feet wide, but the Optimist on the west and the Arizona on the east are both large veins.

Starting at the bottom of the gulch, on the southerly side of the Lion Hill, is another large vein, the Carlisle, which has very little work done on it, but has been traced to the top of the hill on the east section. This Carlisle vein has magnificent possibilities.

Between the Carlisle and the Arizona are five distinct veins, varying in width from 12 to 36 inches, and they have been traced from 1000 to 2000 feet in length to the break of the hill, and there is no question but that they will extend under the valley until they reach and make a junction with the El Dorado.

Westerly from the Optimist are two other veins with good possibilities. All of these veins are true fissures and should extend down to great depth.

2. 31 14.

Phoenix, Arizona,

CHAS. A. DIEHL

Feb. 20 28

ARIZONA ASSAY OFFICE

Phone 3-4001

815 North First Street

P. O. Box 11

This Certifies That samples submitted for assay by

Lion Hill Gold Mining Co.

contain as follows per ton of 2000 l.

MARKS	SILVER		VALUE (Oz.)	GOLD		VALUE (Oz.)	TOTAL VALUE Of Gold and Silver	PERCENTAGE	
	Ounces	Tenths		Ounces	Hundths			%	%
No.1.	448.0		\$ 268.80						
No.1.				7802.84		\$156056.80	\$ 156325.60		
No.2.	524.0		\$ 314.40						
No.2.				8825.44		\$176508.80	\$176823.20		
No.3.	497.4		\$ 298.44						
No.3.				7419.56		\$148391.20	\$ 148689.64		

Charges \$ 3.75

Assayer ARIZONA ASSAY OFFICE.

CLASS OF SERVICE

This is a full-rate Telegram or Cablegram unless its deferred character is indicated by a suitable symbol above or preceding the address.

WESTERN UNION

1201

SYMBOLS

DL=Day Letter

NL=Night Letter

LC=Deferred Cable

NLT=Cable Night Letter

Ship Radiogram

A. N. WILLIAMS
PRESIDENT

NEWCOMB CARLTON
CHAIRMAN OF THE BOARD

J. C. WILLEVER
FIRST VICE-PRESIDENT

The filing time shown in the date line on telegrams and day letters is STANDARD TIME at point of origin. Time of receipt is STANDARD TIME at point of destination

19QR MH 11

PARKER ARIZ 1045A DEC 27 1943

J S COUPAL

413 HOME BLDRS BLDG PHNX

PLEASE GET MY BLUE DRESS FROM FLORENCE AND MAIL HERE. THANKS

CLARA O BOTZUM

1138A

THE COMPANY WILL APPRECIATE SUGGESTIONS FROM ITS PATRONS CONCERNING ITS SERVICE

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
OWNERS MINE REPORT

Date August 28, 1941

Mine Rio Vista Mine (South Side)

District - Cienega Mining District
Yuma County, Arizona
Former Name - Quartz King

Location - About five (5) miles
northeasterly of Parker,
Arizona

Owners - C. Osborne Botzum, E. S. Osborne Jr.
and H. M. Osborne

Address - Box 1587
Parker, Arizona

Operator - Owners

Address

President

Gen. Mgr.

Mine Supt.

Mill Supt.

Principal Metals - Gold and Copper

Men Employed

Production Rate

Mill: Type & Cap.

Power: Amt. & Type - Boulder Dam Power
available from U.S. I.S.

Operations: Present - Plans are in effect at this time to carry on a new
development and operation program.

Operations Planned

Number Claims, Title, etc. - Sixteen (16) unpatented lode mining claims. Held by
location and annual assessment work in accordance
with State and United States Mining Laws.

Description: Topography & Geography - Mine is located in west foothills of the Planet
Range of Mts. Foothills are rolling at mine and easy access
by truck and automobile. Country rock of this area is of
the pre-cambrian complex granite, gneiss and schist. On the
claims principal rock is granite gneiss which has been
intruded by diorite on east and westerly line while andesite
trends northeasterly and southwesterly.

Mine Workings: Amt. & Condition - Great amount of work has been done on property.
Main working is a double compartment shaft 287 ft. deep with drifts and
a series of tunnels and winze on the ore. Average width of ore in
various cuts, shallow shafts, tunnels, upraises from four ft. to unknown
width. No walls. Values vary as ore has been crushed and twisted by
intrusions rendering channel cuts hard to make on account of soft ore
running. Bottom of main double compartment shaft is changing in formation
evidently getting away from crushed zone. Vein is firm and strong. About
2,000 ft. of shaft and tunnel development as well as several hundred ft.
of surface workings.

Geology & Mineralization - Intrusion of diorite is evident cause of fissure and to its inclusion mineralization is due. Composition of the ore is almost ideal amalgamation and cyanidation treatment. Ore being of easily crushed quartz schist and andesite impregnated with oxides of iron. At points copper is in evidence but no mineral shows which would render ore difficult of complex in treatment. In such class of ore as now exposed a laboratory test is the only way (except mill test) to average tonnage and mill values.

Ore: Positive & Probable, Ore Dumps, Tailings - A great amount of ore can be mined in the development of crosscuts from shaft but at this time no width can be determined to estimate tonnage.

Mine, Mill Equipment & Flow Sheet - Mill building capacity 125 tons daily. All concrete reinforced, galvanized iron buildings. Laboratory connecting mill with bunkers main shaft. Machine shop. Mill and mine operation could be electrified with cheap power from the United States Indian Irrigation Service. This is Boulder Dam Power.

Road Conditions, Route - Between the mines and Parker very good automobile road.

Water Supply - Ample to supply water in excess for a large reduction from Colorado river about two miles from mine. Double compartment shaft has water in bottom but at present would not be sufficient for an operation but should develop plenty when shaft is sunk to greater depth.

Brief History - Originally known as the Quartz King Mine.

Special Problems, Reports Filed - Mr. C. C. A. Hammond, E.M. report on file. In this report Mr. Hammond states that the mining work has been fairly well done, enough workings to prove that the structure, fissure, dip and strike and gold values are there.

Remarks

If property for sale: Price, terms and address to negotiate

SIGNED - C. Osborne Botzum

MELVIN H. JONES

Mining Geologist

Box 1, Montello, Nevada 89830 Box 406, Wickenburg, Ariz.
85358.
5 April 1973.

Mea. Clara Botzum
1608 Palo Verde St
Parker, Arizona

Dear Madam:

Your recent letter received enclosing the \$1.00 bill, to return your papers on the Rice claims. I have not been in touch with Mr. Gable, but when I do, I will endeavor to get your reports and return them.

I do not know whether, or not, you have heard from Mr. Gerritsen in Salt Lake City. He has not contacted me. However, I will see him when I go up to Utah to examine another mining property later on this month.

In the meantime, I have been considering your Rice property and have grave doubts that you will find a buyer, or operator, based on your present data. The reports go back 30 years and more. Then, the legal status of the claims may be clouded. I have not checked the records in Yuma, but do you have adequate proof of the annual assessment labor, all of these years?

I am proposing to you (and your other associates, if any?), that for an interest in the claims, I will spend a week or so at Parker, and make a preliminary geology evaluation report, including the taking of many samples, and paying for the assays. If my studies show good results and indicate that a mineable body of ore remains, that could be tested by driving a drift, or drilling, then there is a splendid opportunity that some Mining outfit, with money, will take the property over.

In addition, my geology report may be used to cover this years annual assessment labor, and I can make another report next year, for the following years labor. (Under the law, annual assessment labor can be cover by reports of competent geologists, for two years).

For my proposed work, and help in promoting the property, I will want a one-quarter interest. If my studies do not come up with encouraging information, then I will not want an interest, and you will owe me nothing.

Yours sincerely,

Jones

Note - My offer turned down by Mrs. Botzum. Her reports were returned by mail. subsequently.

Parker, Arizona
March 26, 1973

Mr. Melvin H. Jones
Box 406,
Wickenburg, Arizona

Dear Mr. Jones:

Please be advised I have not heard from your party Mr. Gable. Therefore, I am enclosing \$1 for postage and I will deeply appreciate your mailing to me the data I gave to you.

Thanks for your interest and if you are down Parker way any time I will be glad to see you.

Very sincerely

Clara Osborne Botzum
Clara Osborne Botzum
Box 675
Parker, Arizona

Box 406
Wickenburg, Ariz. 85358
29 March 1973

Dear Ed:

Here are the reports on the Rico mine out of Parker, Arizona. It was formerly called Lion Hill mine.

Mrs. Clara Botzum, 1608 Palo Verde, Parker, Arizona (phone 669-8693) owns the property along with some relatives.

The Rico mine is composed of 6 claims, and they want \$100,000.00 for $\frac{1}{2}$ interest in same. Her proposition is that she wants \$50,000.00 down for $\frac{1}{4}$ interest, out of which she will spend \$35,000.00 for mine development. Following this, the partner, or partners, can buy another $\frac{1}{4}$ interest for \$50,000.00 (thusly making the $\frac{1}{2}$ interest for \$100,000.00). Mrs. Botzum wants action as she does not want to waste her time on proposed deals and long negotiations.

I told her about you and said that you have connections with the money to buy into the property. So she expects a call from you, or you can drive down and see her. There is no need for me to be present to introduce you.

Mrs. Botzum also has the Rio Vista mine that is near the Rico. Some work is being done on the Rio Vista now. The Rico mine is primarily a copper mine, but with the prices of gold going up, the main interest should be in gold. Her plan is to use the \$35,000.00 to run a drift from the compressor tunnel to a location under the High grade tunnel (where the high grade gold was taken out years ago). You will note that ore was shipped years ago that was valued from \$1124. to \$1974.00 a ton (at the old prices).

Yours sincerely,

Mr. Adrian Gerritson
Box 1776
Salt Lake City, Utah
84110

Melvin H Jones

cc Mrs. Clara Botzum

Phone.602-684-2767

Box 106

Wickenburg.Az. 85358

15 March 1973

Mr. Chas. Devoto
Box 390, Rte 7
Senior, N.C. 28645

Dear sir:

In answer to your inquiry of the other day, I am enclosing a copy of some information on the Rice mine out of Parker, Arizona. It is understood that you, and associates, are interested in buying a gold mine.

This old mine, formerly called Lion Hill, is primarily a copper mine, but with the price of gold going up, it is a potential producer.

The owner is willing to part with a one half interest, on the following basis. One quarter interest for \$50,000.00 of which she will expend \$35,000.00 of this sum on further exploration. Her plan is to drive a drift from the "compressor tunnel" over to and under the "high grade tunnel". The latter is where high value gold was found years ago. Then, after this is accomplished, she will sell another one-quarter interest for an additional \$50,000.00.

I have not examined this mine underground, but visited the same briefly (on surface) some time ago. The enclosed records are similar to others on file at the Arizona Dept. of Mineral Resources, Phoenix, Az.

If you are interested, I can make arrangements for you to meet the owner.

Yours sincerely,

1 Incl.
Report-Rice(Lion Hill)mine.

Jones

Box 406, Wickenburg, Az. 85358
28 Feb., 1973

Dear Howard:

Since making that trip to Parker vicinity for you, some time back, I have had several calls from Mrs. Clara Botzum, 1608 Palo Verde St., Parker. A few days ago, I saw Mrs. Botzum again and she gave me the attached reports on another mine, the "Rice", which she wanted me to pass on to you. Apparently she owns the Rio Vista mine and the Rice, which is close by. She tells me the former is under lease to some outfit who is going to drill it.

Mrs. Botzum showed me some rich gold samples that came out of the Rice. Some samples taken years ago assayed at \$176,823.00 a ton in Au. She says there is still good gold values in the mine. The price on gold in those days was \$20. per Oz. Now it is up around ninety dollars.

The Rice mine is composed of 6 claims. She wants \$100,000.00 for the mine ($\frac{1}{2}$ interest). Her proposition is she wants \$50,000. down for $\frac{1}{4}$ interest, out of which she will spend \$35,000. on mine development. Following this, her partner can buy another $\frac{1}{4}$ interest for an additional \$50,000. (thusly making the $\frac{1}{2}$ interest at \$100,000.00).

If you want to call her, the number is 669-8693.

Regards,

4 - Incls.

Melvin Jones

- A. Newspaper clipping (Mrs. Botzum)
- B. Mine report. J.B. Rossman
- C. Field Engrs. Rept. Ariz. Bur. of Mines.
- D. Map of claims (showing main adits)

Mr. Howard S. Gable
Box 946
Kansas City, Mo. 64141

26 March
Phone call to
Mrs. Botzum

(COPY)

March 12, 1943

MEMORANDUM

RIO VISTA

To: J. S. Coupal
From: Elgin B. Holt

CONFIDENTIAL

In your memorandum of March 7, I note you have told Clara that unless a good showing had been uncovered by the "C" loan, an additional loan would be hard to get. That you will try to get over and spend a full day on the property soon; but meantime you would like my confidential report about the same.

As to making two reports, one a formal report and the other a confidential report to you, as I have stated the exact facts in the formal report, I have nothing much to add in this confidential statement, except to say again, the spending of the "C" funds did not result in the uncovering of commercial ore in quantity, although one small stringer shows up where sample No. 1 was taken.

I hardly think RFC will gamble the money to sink to water level where enriched sulphide ore in quantity might be found. The mineralized zone is several hundred feet wide with numerous copper stained veins, and even veins of ore carrying fairly good copper values, are found. Also, this zone material on the 250-foot level shows extensive leaching action, so by and large sulphide ores of importance should be found deeper, at or near water level.

But, knowing RFC rules as I do; that RFC will spend money only on showings of commercial ore, I am afraid the handwriting is now visible on the wall - that no new loan will be granted.

I am inclosing a copy of my formal report on this property. I see no reason why you should not hand this to Clara for her files, as you will note I put the best face on the showings of ore, and the possibilities of finding ores, that I could possibly do. But an engineer cannot report on ore that is non-existent.

(Signed) E. B. H.
Elgin B. Holt,
Field Engineer.

(COPY)

March 12, 1943

PROGRESS REPORT
RIO VISTA MINE
C. O. Botzum, et al.,
Parker, Arizona

MEMORANDUM

To: J. S. Coupal
From: Elgin B. Holt

As per your memorandum of March 7, in company with Harry Osborne, I visited the Rio Vista mine on March 10th. This property has been reconditioned for sampling by means of an RFC loan in the sum of \$5000.

Harry Osborne has been in charge of the work. On my arrival at property, I found the main two-compartment shaft had been reconditioned to the 250-foot level, and the water, which originally stood just even with the floor of this level, had been bailed out to 8 feet below the said level. Here the water now stands and is not increasing, so no doubt the shaft was filled to the level mentioned by rain water, and hardly by seepage water.

Property is equipped with a head frame and 25-HP gas hoist, both being in good condition. Harry Osborne ran the hoist and I went down in the bucket with one of his miners. Although no ventilation had been provided, the air was good on the said level.

As you know, I made a report on this property during March, 1941; but have not a copy of this report before me. However, it is attached to the application by C. O. Botzum for the loan mentioned. Per this report, the country rock is composed of alternating bands of limestone, schist, or shale, and quartzite. This formation is traversed by a huge mineralized fault zone about 300, or more, feet wide, in which is found a stockwork of veins and veinlets, as well as deposits of oxidized copper ore carrying gold values. In all the workings of the property, the surface workings, which I inspected when I wrote the said report, no commercial bodies of copper-gold ore had ever been found, aside from small lenses of copper ore of no importance. While I was unable to inspect the shaft workings, I reported it was my firm opinion and belief that no commercial bodies of ore would be found until the permanent water level is reached, where I expected an enrichment of copper sulphide ores. I have no reason now to alter that statement.

When I got down to the 250-foot level, I found it was dry and open for inspection. This level runs S. W. 240 feet and N. E. 90 feet, across the mineralized zone. I first inspected the S. W. cross cut; but found no commercial ore in the same. Sixty feet S. W. of the shaft a cross-cut was run around 20 feet, N. W. of the said 240-ft. cross-cut where a small cross-vein about 12 inches wide was encountered showing bunches of oxidized copper ore. Here I cut sample No. 1. (See attached map.) At a point 105 feet S. W. of shaft, I found a well defined veinlet about 18 inches wide crossing the said 240-foot cross-cut. This vein was leached iron-stained material, showing stains of copper. Here I cut Sample No. 2. These samples were sent you by express yesterday and I suggest you have the same assayed and plotted on the sketch map attached hereto.

RIO VISTA

Referring to the cross-cut driven 90 feet N. E. from the shaft, on the said 250-foot level, this cross-cut penetrates an area of brecciated quartzite; but no commercial ore was encountered in this cross-cut.

All in all, the showings of copper ore on the 250-foot level, or in the workings of this level just described, are not so good as is found in the surface workings; but this is as it should be; because the rise and fall of the water level, through the ages, would naturally tend to leach out any copper values in this intermediate section of the ore zone mentioned. Hence, there is a good possibility for the migration of copper values downward. So again I say there is a splendid chance to pick up a zone of secondarily enriched copper sulphides at or near the permanent water level of this mine; and this permanent water level should be found about 400 feet below the collar of the main shaft. (See my report on this property.)

Be all this as it may, no commercial ore in quantity was found in the workings referred to on the 250-foot level of the Rio Vista mine. Hence, if and when the owners of this property should apply for a development loan, I would suggest that RFC consider the granting or refusal of such applications based on the geological features of this property only. In other words, will deeper sinking result in the uncovering of enriched sulphide ore reserves of importance, or has the bottom of the mine already been reached? My own opinion is already set forth in the report mentioned. As stated, I see no reason why I should now change this opinion.

At the time of visit, March 10, 1943, Mr. Harry Osborne was doing some stoping from a surface workings, known as the Blacksmith Tunnel. At that time he had piled on dump about 12 tons of oxidized copper ore which he stated averages about 17% copper and around \$1.50 gold per ton. This lot of ore was obtained from small lenses within the tunnel mentioned.

(Signed) ELGIN B. HOLT.
Field Engineer.

February 20th 1940

Phoenix, Ariz.

Mr. David S. Tait
521 Metropolitan Building
Vancouver, B.C.
CANADA

Dear Mr. Tait:

While here in Los Angeles I fortunately met Mrs. Botzum and Mr. Osborne of Parker, Arizona, and Mr. E. Butterworth, of Los Angeles, and had an opportunity to discuss with them the plans for sampling the Rio Vista Mine.

In a general way I am quite familiar with the ore occurrence at this property and know of the difficulties in attempting to get a proper sampling of a decimated ore body by the ordinary channel methods of sampling, such as used on lode properties. The ore at the Rio Vista occurs in a bracciated quartz site in a crushed shear zone and the gold values are irregularly distributed.

It has been our experience in Arizona that in ore bodies of this type the only fair method of sampling is by bulk sampling and semi-commercial pilot plant treatment of large sized samples. Where this is possible one is able to get a fair valuation of the property from sampling. Such sampling not only allows one to get a fair average, such as would be expected under operating conditions, but in addition, is able to determine the proper flow sheet to be used in larger scale operations.

I can cite an example of this method by mentioning the Rio Grande Mine at Wickenburg. This property has a large body of ore and the ordinary hand cut channel sampling failed to show the proper distribution of values. A pilot mill was installed and mill tests made on 25 to 50 ton sections of ore in the mine which showed the general average to be commercial.

There are many other properties which I might mention. One of the major ones is the Phelps Dodge operations at Morenci. This property has been known for many years and has been drilled and sampled a number of times. A pilot plant was installed and by its use the

Feb. 20, 1940

general average of the ore body and a proper flow sheet was determined which warranted the company in going ahead with a twenty-eight million dollar investment to put the property in operation on a 25,000 ton daily capacity.

In a general way in sampling these ore bodies where the values are irregular, but are widely distributed, large samples are absolutely necessary. In some instances these large bulk samples are shipped outside for mill run tests or are crushed and carefully sampled by smelter methods. In a number of instances, however, it has been found advisable to install local test plants of from 25 to 50 or 100 ton daily capacity. In this manner it is possible to open up the property and determine the general average of the mine through a proper development program.

Knowing the ore body at the Rio Vista, I would suggest that this method of sampling be given careful consideration.

The Department of Mineral Resources of the State of Arizona, was created to work on and assist in the solving of the economic problems of mining within the state. We have four engineers in the field to assist in such preliminary work and carry on other research work. Our services are always available when new capital is considering opening up any of the properties within the state. When time permits me to get away from the office I join with the Field Engineer in any particular district to assist on such work with him.

If we can be of any service to you and to the Rio Vista Mine in the plans for getting this property into operation, we will be only glad to tender our services to you.

Very truly yours,

J. S. Coupal
Director

JSC:fe

FEBRUARY 1965

RIO VISTA MINE

Clara Osborne Botzum - Owner
Box 1617
Parker, Arizona

The RIO VISTA mining group consists of twenty-six (26) lode claims (patent pending) located about six (6) miles northeast of Parker, Arizona, Cienega mining District, Yuma County, State of Arizona. Parker is served by the Santa Fe Railroad and is 270 miles from Los Angeles, California, and 165 miles from Phoenix, Arizona. The mine is situated in the west foothills of the Planet Range of mountains. These foothills are rolling at the mine. The mine is reached from Parker over four (4) miles on a paved state highway and two (2) miles of good dirt road maintained by the county.

There is plenty of electric power and water within a mile distance available to this mining property at an economical cost.

There is approximately a quarter of a million dollars in development work upon the Rio Vista Group. There is about 1,000 feet of vertical and incline shaft work and about 3,000 feet of tunnel and other workings. There is considerable surface work on these claims. The main workings are the 6x12 foot timbered vertical double compartment shaft with numerous tunnels and other mine workings on the quartz Hill and Copper Top claims and are known as the Rio Vista South Side workings. There is a 240 foot incline shaft and a 135 foot vertical shaft with number tunnels and other work upon the Quartz Hill No. 2 claim known as the Rio Vista North Side workings.

Quartzite and schist predominate in this mining property. The mineralized zone traversing the sedimentary ridge is from the north to the south. Starting at the North side workings and, ending beyond the main workings of the south side side, a distance of around 2,000 feet, is a huge mineralized fault zone, from 100 to 200 feet wide. Traversing the said mineralized zone are three major fissure veins, from four to around ten feet wide; these veins strike north and south, dip 80 degrees west from the horizontal.

Assay values. Many of the workings referred to expose reserves of low grade copper-gold ores. It is difficult to attempt to make a proper sampling of these disseminated ores by ordinary channel methods of sampling. However, several hundred individual assays are available of the owner. While these assays vary from traces to around \$90.00 gold per ton, the owner believes the average to be about \$3 to \$4 per ton in that metal. Also, per these assays, copper ranges from traces to about 30%; the higher grade copper ores occurring in smaller lenses. Average copper-gold values approximately \$20.00 per ton.

Los Angeles, California
March 8, 1917

Gentlemen:

At the request of your Vice-President, Mr. Higinbotham, I have made a careful and thorough examination of your property near Parker, Arizona. I have also carefully checked over the report by your engineer and geologist, Mr. J. B. Rossman, and find all the statements therein to be absolutely correct.

However, I believe Mr. Rossman has under-estimated the possibilities for ore in that part of your property known as the Lion Hill.

The average distance between each of the nine veins on this hill is less than seventy (70) feet and I found that the lime and quartz between these veins is leached and shows every indication of having been heavily mineralized before the leaching took place.

There is absolutely no doubt but that development of Lion Hill below the leached zone will prove this intervening lime and quartz to be your main ore body. I have only once or twice in my experience seen a more favorable indication of a big mine than you have in Lion Hill.

I decidedly endorse the report made by Mr. Rossman and advise that you discontinue developments at the Billy Mack shaft for the present and devote all your efforts to the development of the Lion Hill as recommended by Mr. Rossman.

Respectfully submitted,

S/ Henning E. Olund. E.M.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine LION HILL

Date December 21, 1943

District Cienega Dist., Yuma County, Ariz.

Engineer Elgin B. Holt

Subject:

R E P O R T

OWNER: Lion Hill Gold Mining Co., Inc., Oliver N. Long, President, 220 South 16th St., Philadelphia, Pa.

LESSEES: H. M. Osborne & C. Osborne Botzum, Box 1587, Parker, Ariz.

LOCATION: The Lion Hill mine is situated in the Cienega Mining District, Yuma County, Arizona, about 7 miles northeasterly from Parker, Arizona, on the Santa Fe Railroad, and about 2 miles easterly from the Colorado River. The property is connected with Parker by means of a county maintained dirt road. Other properties in the immediate vicinity of Lion Hill are: the Billy Mack, Rio Vista and Empire mines, with goodly records of production of copper-gold ores.

EXAMINATION: I visited this property on August 17 and again on December 20, 1943, in company with owners, on which dates I secured the following general information about the same:

GEOLOGY, VEINS, ETC: The basal rock is metamorphic gneiss, covered by a high ridge composed of silicious limestone and quartzite, cut by a number of fault fissures striking through the country in a northwest-southeasterly direction. These gave vent to ascending mineral solutions from underlying eruptives containing copper and gold and finding natural precipitants on coming in contact with the overlying limestone and quartzite beds. On the westerly side of the ridge the fault fissures generally dip about 60 degrees west, while on the east side of the ridge, starting at the "Hi Grade Tunnel", the said fissures dip at angles ranging from 45 to 80 degrees in an easterly direction.

MINE WORKINGS: Underground workings of this property aggregate about 1400 feet of tunnels, drifts, raises and cross-cuts, more or less as set forth on the attached mine map by R. E. Tilden, who surveyed property during December, 1928. Since this date, considerable new work has been done in the mine, which does not show on the map mentioned.

HISTORICAL: The Lion Hill mine was located by Frank Ewing & W. H. Manning, et al, a number of years ago; and around 1928 it was sold to Norman P. Sloan and associates of Philadelphia, Pa., who organized the Lion Hill Gold Mining Company, Inc., present owner.

PRODUCTION: The company above mentioned carried on active operations at property, under the management of Henry M. Sloan, until his death which occurred during 1941. During the said period considerable high grade ore was shipped from property and a limited amount was treated at the mine in a small mill. At the time of visit, the entire records of production were not available. However, Lessees furnished me with 5 liquidation sheets from the Magma Copper Company and one from the Western Ore Purchasing Company of Kingman, Arizona. Following is a tabulation of the said liquidation sheets, which are attached hereto:

<u>Date</u>	<u>Tons</u>	<u>Cu-%</u>	<u>Au-ozs</u>	<u>Ag-ozs</u>	<u>Net Returns</u>
1/19/28	1.0225	1.3	77.30	4.8	\$1374.13 *
2/7/28	1.4525	.65	76.21	3.60	1974.17 *
3/8/28	42.9045	.60	1.93	.17	1226.74 *
4/21/28	32.5710	.42	2.25	.15	1124.57 *
1/3/29	29.4320	.90	3.85	.15	1869.63*
3/12/28	1816 lbs.	--	72.53	3.17	1184.28 #
<i>Totals</i>	<i>108,2905</i>		<i>524,99315</i>	<i>avg. 4.848</i>	

* --- Shipped to Magma Copper Company

--- Shipped to Western Ore Purchasing Company

HIGH GRADE ORE: A remarkable condition found in this property in the course of its development was that pockets of exceedingly high grade gold ore, carrying goodly values in silver, were found from time to time. It will be noted in the above table that short lots of ore were shipped assaying 72.53, 76.21 and 77.30 ounces of gold per ton. Also, high grade specimens of ore were found, three of which were assayed on February 20, 1928, by the Arizona Assay Office, of Phoenix, Arizona, per the attached certificate, showing the following results per ton:

<u>No.</u>	<u>Ag-ozs.</u>	<u>Au-ozs.</u>	<u>Total Value per Ton</u>
1. -----	448.0 -----	7802.84 -----	\$156,325.60
2. -----	524.0 -----	8825.44 -----	176,823.20
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Again, the rich pockets of ore were found largely in a west-dipping fracture in the Hi Grade Tunnel in small bunches and lenses; but in this fracture there does not seem to be exposed any great amount of ore of shipping or milling grade.

On the other hand, the East-dipping fractures, or veins, above mentioned, in which a greater amount of copper is found-these veins carrying gold also-have all the earmarks of well-defined veins in which workable shoots of ore should be uncovered by further work.

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Referring again to the Hi Grade Tunnel which was driven around 225 feet No. 20 degrees West on the West-dipping gold-bearing fracture, in this tunnel at a point around 160 feet from its portal a crosscut was run East about 15 feet where a parallel vein was intersected dipping 54 degrees East from which considerable ore was mined and shipped, including some of the high grade lots mentioned. This vein is around 3 feet wide and carries copper and gold values. Owners cut two samples from the vein just mentioned across about two feet of vein material; assay results being as follows:

<u>No.</u>	<u>Au-oz</u>	<u>Cu-%</u>
1. -----	0.06 -----	3.75 -----
2. -----	0.10 -----	5.90 -----

OTHER ASSAYS: According to Josiah H. Trerise, who wrote a report on property some years ago: "Samples taken from surface workings scattered along the hillside from disconnected ore bodies assayed:

<u>Copper</u>	<u>Gold</u>
2.32%	0.14 oz.
4.40	0.28
8.30	0.14
12.08	0.22
4.20	0.76
10.40	0.05
7.30	0.02
4.00	0.06
7.08	0.32

and these samples were taken to represent ore in quantities available for mining."

From the above assays and from a personal inspection of property, I would say broadly that a considerable amount of shipping ore, carrying copper and gold values, could be obtained by surfacing the various vein outcroppings; and as this ore runs high in silica badly needed by the smelters a low smelting charge could be secured from either Hayden or Clarkdale.

However, the main problem at this mine is to finance the carrying out of a comprehensive plan of mine development work with the prime end in view of opening up an extensive underground supply of shipping and milling ore, which no doubt exists within the confines of this property.

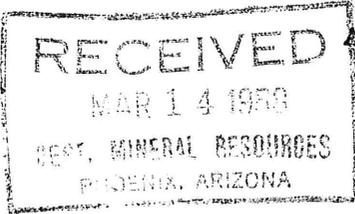
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left and raises should be run to the surface on these veins. In this way ample ore should be blocked out and then removed largely by gravity through the Compressor tunnel, as above set forth.

CONCLUSION: From the facts set forth herein, I believe the Lion Hill mine more than warrants a careful consideration by anyone who may be interested in spending some money in the development of a copper-gold property which has all the ear-marks of a profitable mine in the making.

/s/ Elgin B. Holt

cc - C. Osborne Botzum



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:

✓	✓
<u>Lion Hill</u>	<u>Copper Gold</u>
(Property)	(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 Above described mining property is now known as the Rico Mine. Present owners Harry M. Osborne and Clara Osborne Botzum, Box 1617, Parker, Arizona.

Clara Osborne Botzum
River View Development *Box 1617*
Parker

From Mining World Magazine - September 1950 issue.

FIVE ARIZONA MINES REACTIVATED

Development of copper-gold mines in the Cienega Mining District near Parker, Arizona, has been started by the Associated Mining Company. It has taken long-term leases on the Rio Vista, Billy Mack, Sue, Capilano, Mammon and Lion Hill mines, owned by the Osborne family of Parker and comprised of some 50 claims. The properties will be consolidated into one large operation directed by A. P. Lofquist, mining engineer. A. C. Burger of St. Louis, Missouri, heads Association. The initial development work will be concentrated on the Rio Vista and Lion Hill Mines. The picture (which was just above this write-up on the page) shows the mill building at the Rio Vista, which is the key property in the group. The building is capable of housing a 300-ton plant. Unwatering of the 287-foot double compartment shaft at the Rio Vista South mine has started, the headframe is being rebuilt, and the shaft repaired and retimbered. New cages, pump, ventilating equipment and air lines will be installed in the shaft and then exploration by core drilling on the 250 level will begin.

A new change room is to be constructed and all mine buildings will be modernized with cooling systems and other accommodations, as this camp will be headquarters for all of the company's operations in the district. At the Rio Vista North the 244-foot incline will be extended. At the Lion Hill mine the main adit is to be continued for about 600 feet with several hundred feet of drifts and cross-cuts. At the Capilano additional development work will be done in the 90-foot vertical shaft. At the Sue a new double-compartment shaft will be sunk to avoid flood waters in the old workings. At the Mammon core drilling is planned. A large quantity of machinery already has been moved to the camp; road building and power line installation are under way. These old mines once were good producers and the Rio Vista particularly has quite a history. However, there has been little activity in them since the beginning of the last war.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine LION HILL

Date December 21, 1943

District Cienega Dist., Yuma County, Ariz. Engineer Elgin B. Holt

Subject:

R E P O R T

OWNER: Lion Hill Gold Mining Co., Inc., Oliver N. Long, President,
220 South 16th St., Philadelphia, Pa.

LESSEES: H. M. Osborne & C. Osborne Botzum, Box 1587, Parker, Ariz.

LOCATION:

The Lion Hill mine is situated in the Cienega Mining District, Yuma County, Arizona, about 7 miles northeasterly from Parker, Arizona, on the Santa Fe Railroad, and about 2 miles easterly from the Colorado River. The property is connected with Parker by means of a county maintained dirt road. Other properties in the immediate vicinity of Lion Hill are: the Billy Mack, Rio Vista and Empire mines, with goodly records of production of copper-gold ores.

EXAMINATION:

I visited this property on August 17 and again on December 20, 1943, in company with owners, on which dates I secured the following general information about the same:

GEOLOGY, VEINS, ETC.:

The basal rock is metamorphic gneiss, covered by a high ridge composed of silicious limestone and quartzite, cut by a number of fault fissures striking through the country in a northwest-southeasterly direction. These gave vent to ascending mineral solutions from underlying eruptives containing copper and gold and finding natural precipitants on coming in contact with the overlying limestone and quartzite beds. On the westerly side of the ridge the fault fissures generally dip about 60 degrees west, while on the east side of the ridge, starting at the "Hi Grade Tunnel", the said fissures dip at

angles ranging from 45 to 80 degrees in an easterly direction.

MINE WORKINGS:

Underground workings of this property aggregate about 1400 feet of tunnels, drifts, raises and cross-cuts, more or less as set forth on the attached mine map by R. E. Tilden, who surveyed property during December, 1928. Since this date, considerable new work has been done in the mine, which does not show on the map mentioned.

HISTORICAL:

The Lion Hill mine was located by Frank Ewing & W. H. Manning, et al, a number of years ago; and around 1928 it was sold to Norman P. Sloan and associates of Philadelphia, Pa., who organized the Lion Hill Gold Mining Company, Inc., present owner.

PRODUCTION:

The company above mentioned carried on active operations at property, under the management of Henry M. Sloan, until his death which occurred during 1941. During the said period considerable high grade ore was shipped from property and a limited amount was treated at the mine in a small mill. At the time of visit, the entire records of production were not available. However, Lessees furnished me with 5 liquidation sheets from the Magma Copper Company and one from the Western Ore Purchasing Company of Kingman, Arizona. Following is a tabulation of the said liquidation sheets, which are attached hereto:

<u>Date</u>	<u>Tons</u>	<u>Cu-%</u>	<u>Au-ozs</u>	<u>Ag-ozs</u>	<u>Net Returns</u>
1/19/28	1.0225	1.3	77.30	4.8	\$1374.13 *
2/7/28	1.4525	.65	76.21	3.60	1974.17 *
3/8/28	42.9045	.60	1.93	.17	1226.74 *
4/21/28	32.5710	.42	2.25	.15	1124.57 *
1/3/29	29.4320	.90	3.85	.15	1869.63 *
3/12/28	1816 lbs.	--	72.53	3.17	1184.28#

* --- Shipped to Magma Copper Company.

--- Shipped to Western Ore Purchasing Company.

HIGH GRADE ORE:

A remarkable condition found in this property in the course of its development was that pockets of exceedingly high grade gold ore, carrying goodly values in silver, were found from time to time. It will be noted in the above table that short lots of ore were shipped assaying 72.53, 76.21 and 77.30 ounces of gold per ton. Also, high grade specimens of ore were found, three of which were assayed on February 20, 1928, by the Arizona Assay Office, of Phoenix, Arizona, per the attached certificate, showing the following results per ton:

<u>No.</u>	<u>Ag-ozs.</u>	<u>Au-ozs.</u>	<u>Total Value per Ton</u>
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REMARKS:

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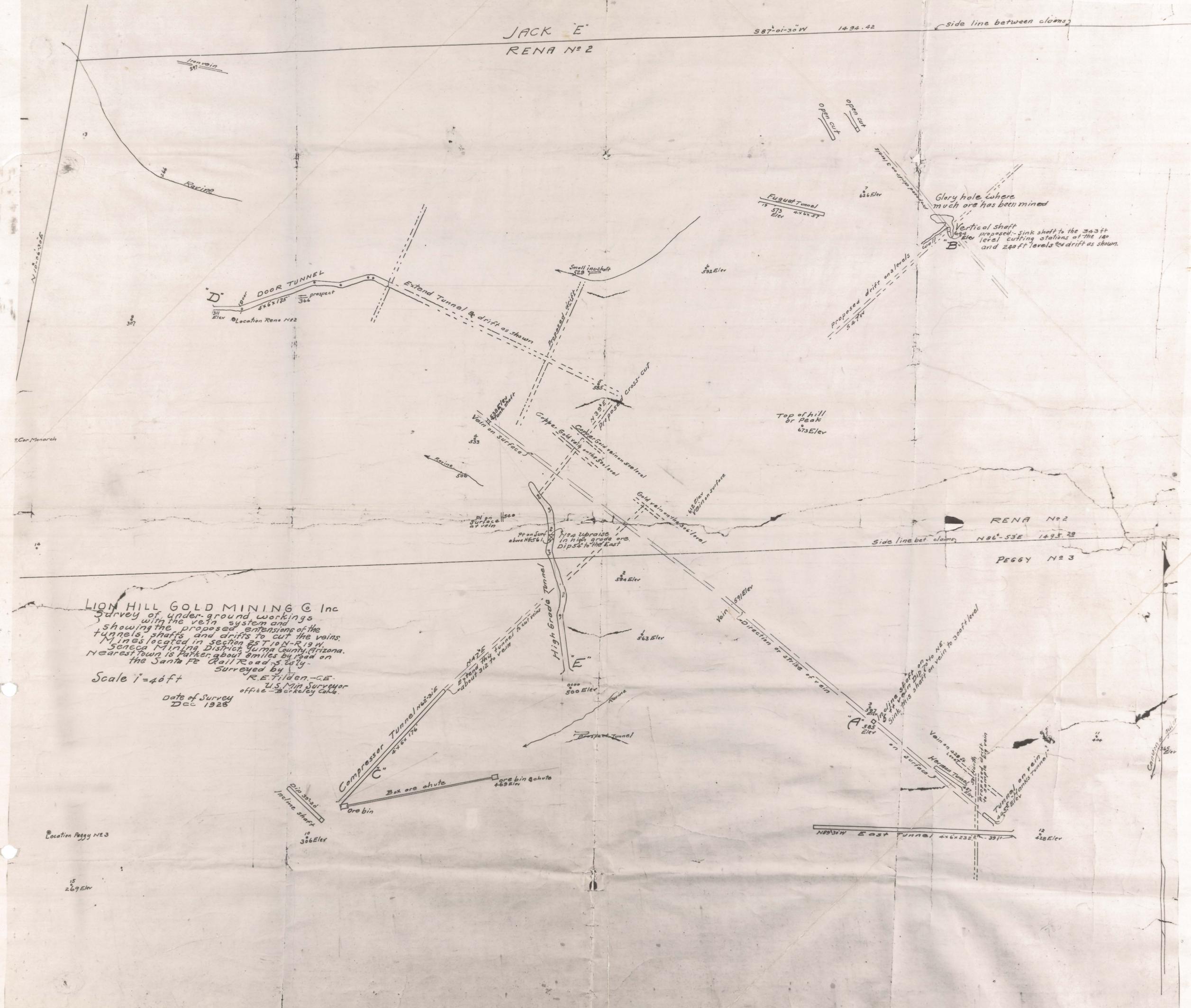
Elgin B. Holt.

cc - C. Osborne Botzum.

JACK E
RENA No 2

S87°01'30"W 1494.42

side line between claims



Glory hole where much ore has been mined

Vertical shaft proposed - sink shaft to the 343 ft level cutting stations at the 180 and 240 ft levels & drift as shown.

DOOR TUNNEL
4' x 6' x 175'
prospect 366

Location RENA No 2

Fugate Tunnel
18' x 6' x 37'
573 Elev

Top of hill or Peak
673 Elev

RENA No 2

PEGGY No 3

LION HILL GOLD MINING Co Inc
Survey of under-ground workings with the vein system and showing the proposed extensions of the tunnels, shafts and drifts to cut the veins.
Mines located in section 25 T10N-R19W Seneca Mining District, Yuma County, Arizona. Nearest town is Parker, about 8 miles by road on the Santa Fe Rail Road - S. 25th - Surveyed by R.E. Tilden, - C.E. U.S. Min Surveyor office - Berkeley, Cal. Date of Survey Dec 1928

Scale 1" = 40 ft

Location Peggy No 3

15
269 Elev

Note: This map is made on a large scale so it can be used as a working drawing.