



CONTACT INFORMATION

Mining Records Curator
Arizona Geological Survey
1520 West Adams St.
Phoenix, AZ 85007
602-771-1601
<http://www.azgs.az.gov>
inquiries@azgs.az.gov

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08/02/88

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES FILE DATA

PRIMARY NAME: FRONTIER

ALTERNATE NAMES:

BLANKET VEIN
CABIN SHAFT
HORSESHOE
JAMES THORN

MOHAVE COUNTY MILS NUMBER: 92C

LOCATION: TOWNSHIP 22 N RANGE 17 W SECTION 18 QUARTER NW
LATITUDE: N 35DEG 18MIN 04SEC LONGITUDE: W 114DEG 08MIN 18SEC
TOPO MAP NAME: CERBAT- 7.5 MIN

CURRENT STATUS: PAST PRODUCER

COMMODITY:

GOLD
LEAD
IRON HEMATITE
ZINC
URANIUM

BIBLIOGRAPHY:

ADMMR MOHAVE CARD FILE
ADMMR MOHAVE CUSTOM MILL PROJECT
SCHRADER, F.C. "MIN. DPSTS OF CRBT RNGE, BLCK
MTNS, GRND WSH CLFS,AZ" USGS BULL 397, P 106
A.E.C. PRELIM. RECONN. RPT. 172-485, P. 66
ADMMR FRONTIER FILE

T22N R17W S18

May 27, 1957

HORSE SHOE MINE

MOHAVE COUNTY

No information on this property.

MARK GEMMILL

See: CABIN MINE (file) Mohave Co.

OWNERS

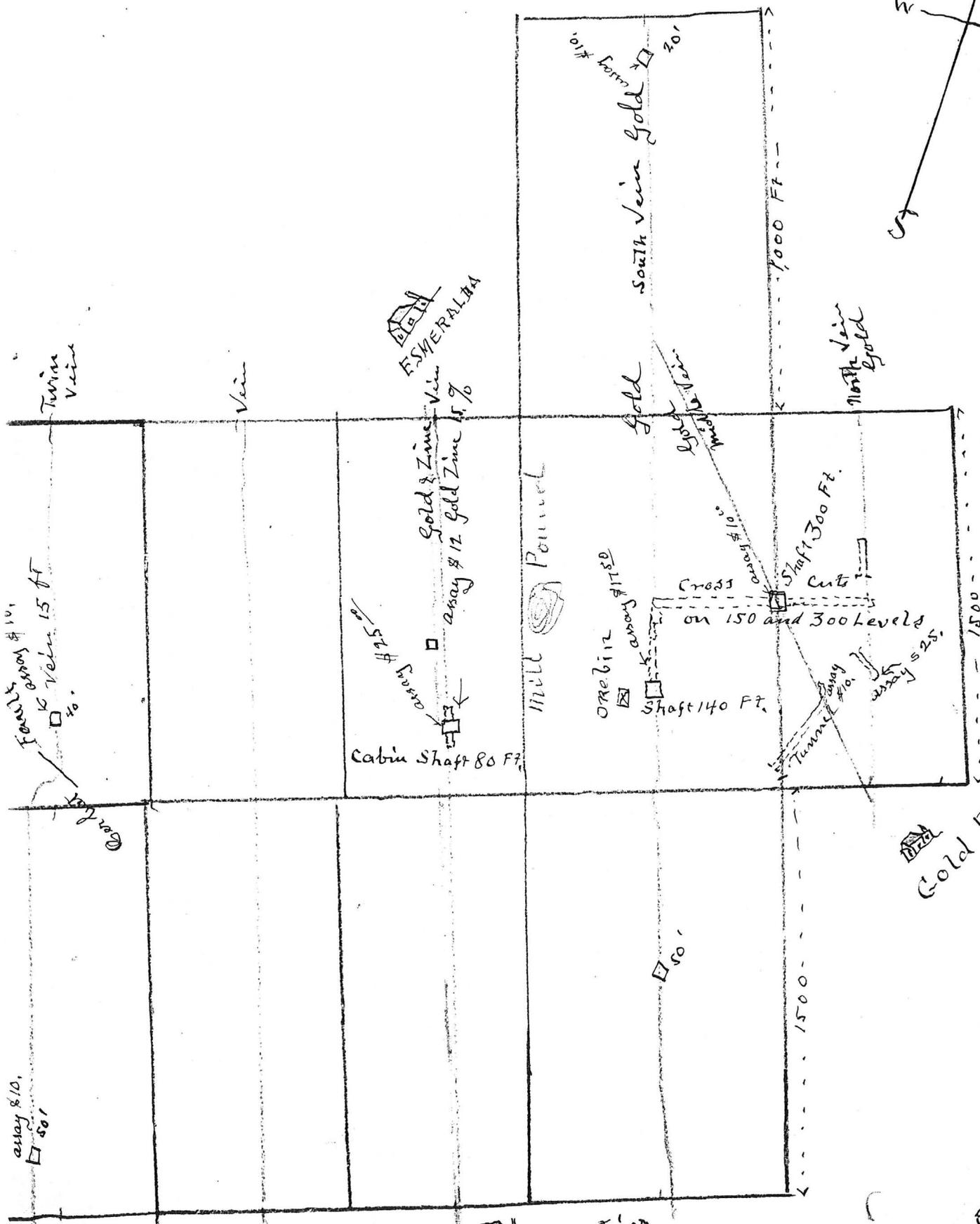
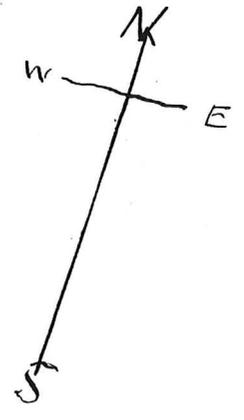
CALIF-SPRAY CHEMICAL CO.,
Richmond,
California (Operating Co.)

MINE

HORSE-SHOE MINE
SIGNAL-McCRACKEN PROPERTY
Mohave County

Carl J. Krook, Kingman - Agent for Signal-McCracken Property

Horse Shoe PLAN



assay #10
vein 15 ft

ESMERALDA
Gold & Zinc Vein
assay #12 Gold Zinc 15%
assay #25
Cabin Shaft 80 Ft.

Mill Pond

Ore bin
assay #1150
Shaft 140 Ft.

Shaft 300 Ft.
Cuts
Cross on 150 and 300 Levels

Tunnel
assay #25
assay #25

assay #10
50'

Twin

Frontier

Gold Bar

GEM. MILL
assay ore
ore
Gold

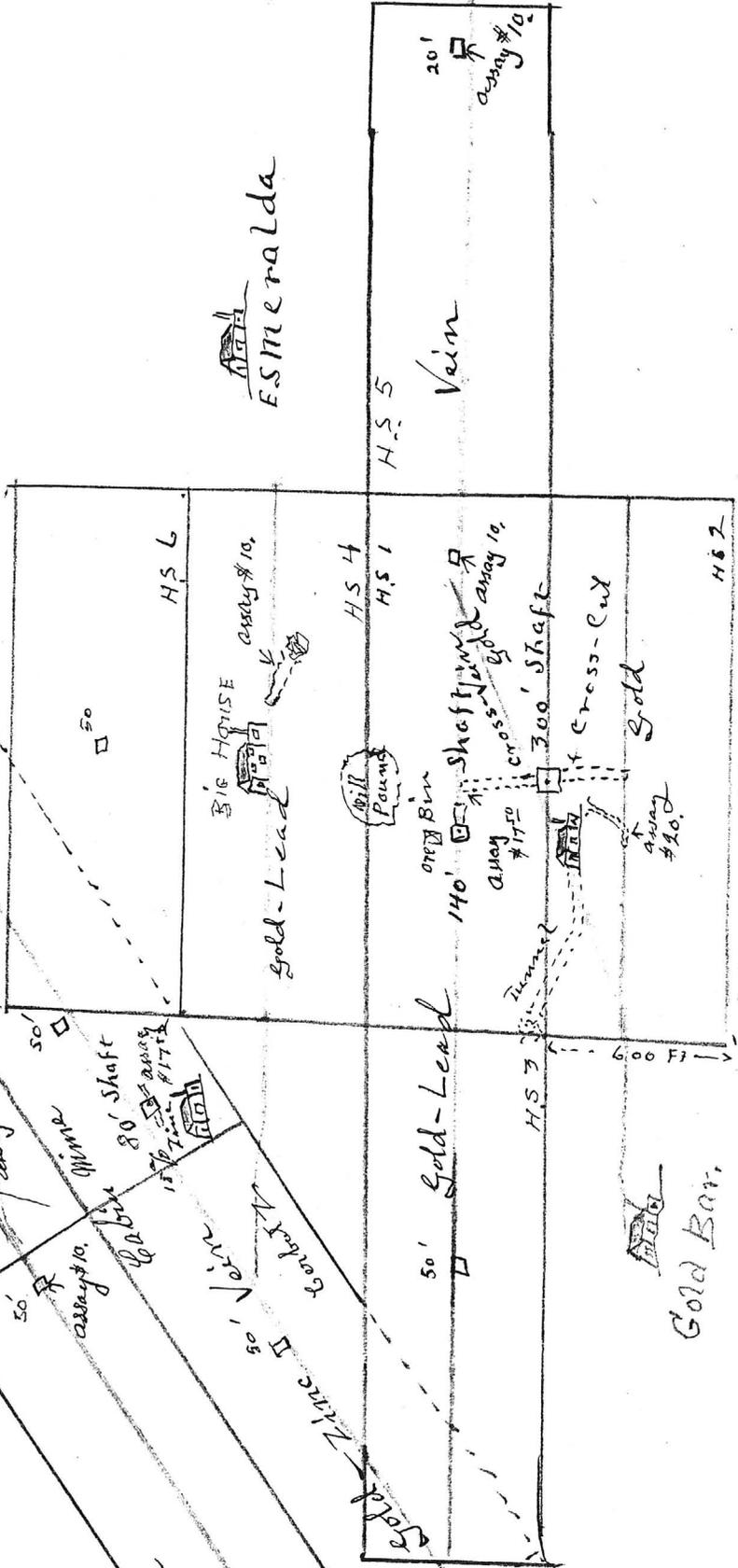
FootHills

ESMERALDA

Vein

W HORSE SHOE MINE

Flores



Valley

Gold Reef

50' R

80' Shaft

150' Shaft

140' Shaft

20' away #10

20' away #10

300' Shaft

Cross-Cut

Gold

Gold Bar

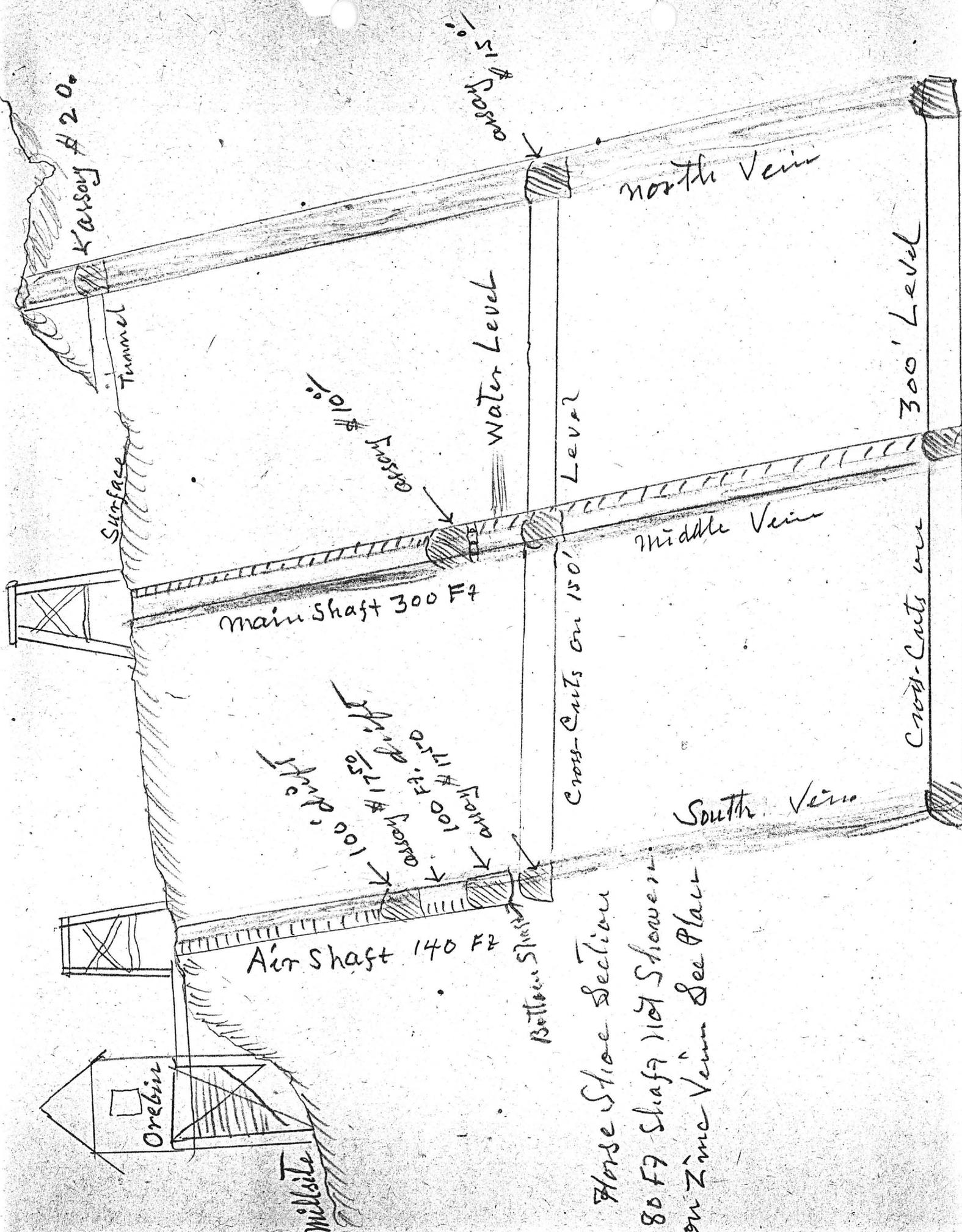
600 FT

1,500 FT

TWEN

O'BRIEN

Golden Gem



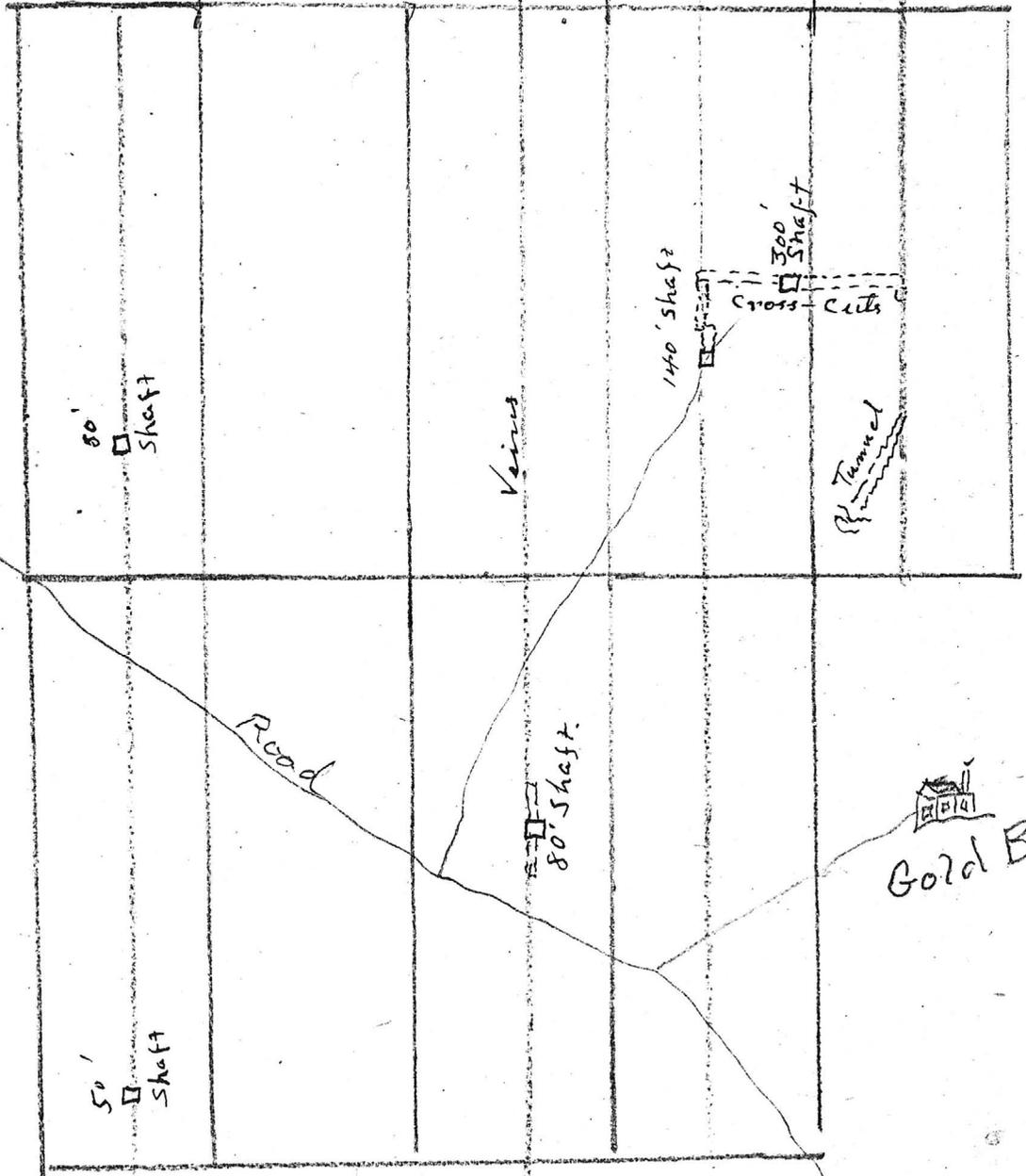
Horse Shoe Section
 80 Ft Shaft 1107 Showers
 on Zinc Vein See Plan

ESMERALDA



Horse Shoe
10₂
Claims

Valley



Gold Bar

GEM MILL

E. Hedberg

ME-5 HORSE SHO E. Hedburg Kingman, Arizona.

Copy of Mine Owners Report covering property listed with the
Department of Mineral Resources has been furnished to -

Chas. E. Lees, 240 N. Cliffwood Ave., Los Angeles, Calif.

DEPARTMENT OF MINERAL RESOURCES
J. S. Coupal, Director

PH

DEPARTMENT C MINERAL RESOURCES.

News Items

Date 8/1/39

Mine Cabin - 2 claims.

Location in Gerbat Camp.

Owner Ed Hedberg,

Address Boulder Dam Rd.,

Kingman, Ariz.

Operating Co.

Address

Pres.

Shaft 80' deep on

Genl. Mgr.

A vein & 100' drift

Mine Supt.

at bottom. Average

Mill Supt.

tenor of ore, per

Principal Metals

owner, 45/100 oz.

Men Employed

20 & 15% zinc

Production Rate

Mill, Type & Capacity

Power, Amt. & Type

Signed

E. B. Holt.

(Over)

DEPARTMENT OF MINERAL RESOURCES

News Items

Date 9/1/39

Mine Horse-shoe - 6 claims

Location Cerbat Camp, Mo.

Owner Hove Co.

Address Ed. Hedberg,
Boulder Dam Rt., Kingman

Operating Co. —

Address Main shaft 300'
2000' x-cuts & drifts.

Pres. 2 veins, from 4' to 5'

Genl. Mgr. wide. av. value -

Mine Supt. Au 1/2 oz. & nozn

Mill Supt. or Pb. - ore oxidized

Principal Metals material.

Men Employed Mine produces

Production Rate 30 gals. water per

Mill, Type & Capacity minute, used
in Horse-shoe testing mill,

Power, Amt. & Type belonging to
Calif-Spray Chemical Co.

Signed Hott

(Over)

GOLD NE A LEASE & OPTION.

A group of 10 Mining Claims (200 acre) situated in the Boulder Dam power district, Kingman, Arizona. Development consists of three shafts as 75, QR 140 and 300 feet in dept. 2,000 feet drifts-cross-cuts and Tunnels.

There are three ore-veins each four feet wide in Pre-Cambrian granibescists and Porphyry country rock. Ore is quartz carrying one-half ounce gold and up. One of the veins carry 15 % Zinc with the gold values.

1,000 tons of Dump Carry \$10. in values per ton. Mine makes 30 gallons of water per minute night & day.

Equipments consists of two orebins, two headframes, a small gas hoist Pump pump and engine. A fine camp, with three Bungalows (12 rooms) one tool house and ons assay office. A lot of Tools & equipments -fine roads in the low foothills, near paved highway.

Mine adjoining now operating a mill on the same and similar class ore. Public custom Mills near by.

Price & terms for Immediate possession \$ 15,000. payable out of 10 % royalty on the production, Minimum payments \$100. per Month as rent. all to apply on the purchase Price. Term of Lease 10 years.

Address E. Hedburg Owner.

Kingman, Arizona.

15 April 1940

Mr. E. Hedburg,
Kingman,
Arizona.

Dear Mr. Hedburg:

I am enclosing herewith a blank Mine Owners Report, which I should suggest that you fill out in detail covering your group of 10 mining claims (200 acres) situated in the Boulder Dam Power District, Kingman, Arizona.

I should suggest that you return this report as soon as possible so that we may have the information in our files in case we have a call for a property such as yours.

With best wishes, I am

Yours very truly,

J. S. Coupal
Director

JSC-jrf

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Frontier and Frontier #2

Date February 2, 1953.

District Wallapai (Cerbat)

Engineer George F. Reed

Subject: General Description

Location, Ownership & General Conditions:

These two unpatented claims are held by Edwin White, P.O. Box 226, Kingman, Arizona. The two claims endline each other on the South side of Cerbat Canyon South-West from the Golden Gem Mill, near the mouth of the canyon. They appear to be in the NW $\frac{1}{4}$ of Sec. 18, Twp. 22N, Range 17W. The mine is reached from Kingman via Boulder Dam Road (highway 93) to Cerbat Canyon turnoff and thence about three miles to the mine, total distance about 13 miles. Water is available from wells & shafts in Cerbat Canyon. Power would have to be brought possibly 3 miles.

Geology & Topography:

The mine is located on a fairly steep hillside which forms part of a spur on the South Side of the canyon. The two veins which have been worked have a general strike of N45 to N65 West. Dips are to NE and from 60-80 degrees. The country rock is Pre-Cambrian Schist and Gneiss with some intruded dikes of Rhyolite and Pegmatite and some bodies of medium to basic intrusive rocks of granitic texture. The schistosity is almost parallel to the veins. The veins contain a little gouge and generally one to three streaks of oxidized iron (after pyrite) which are usually an inch to several inches wide. In the aggregate, the vein zone is usually one to four feet wide. The heavy iron oxidized material often puts the geiger counter over to a count of .05 to .15MR/ Hr. Occasionally a little galena or oxidized lead mineral is visible. Apparently, the veins have been mined chiefly for their gold content. Some small piles of ore from the lowest workings contain sulphides of iron, the rest of the visible vein material is well oxidized.

Workings & History:

No production history is available. There is a small tailing pile and mill foundations below the lowest adit. The veins have been opened by at least four short cross-cut adits with drifts, usually 100 feet long or so along the vein. In one upper adit, the most extensive stoping was seen. This was a stope just below surface about 70 feet long by three feet wide, by 15 to 25 feet up dip. The ground was dry and standing well with random stulls. Below the lowest adit, a shaft coming through from surface goes below water level. Depth is not known. Elevations are near 4000 feet and vary about 300 feet on the hillside where the mine is located. Mr. White did not seem to have any assays of typical ore or any idea what it might assay. Surface enrichment of gold may have been what made the limited amount of ore so far mined.

I visited the property at Mr. White's request to check for radio-activity.

George F. Reed

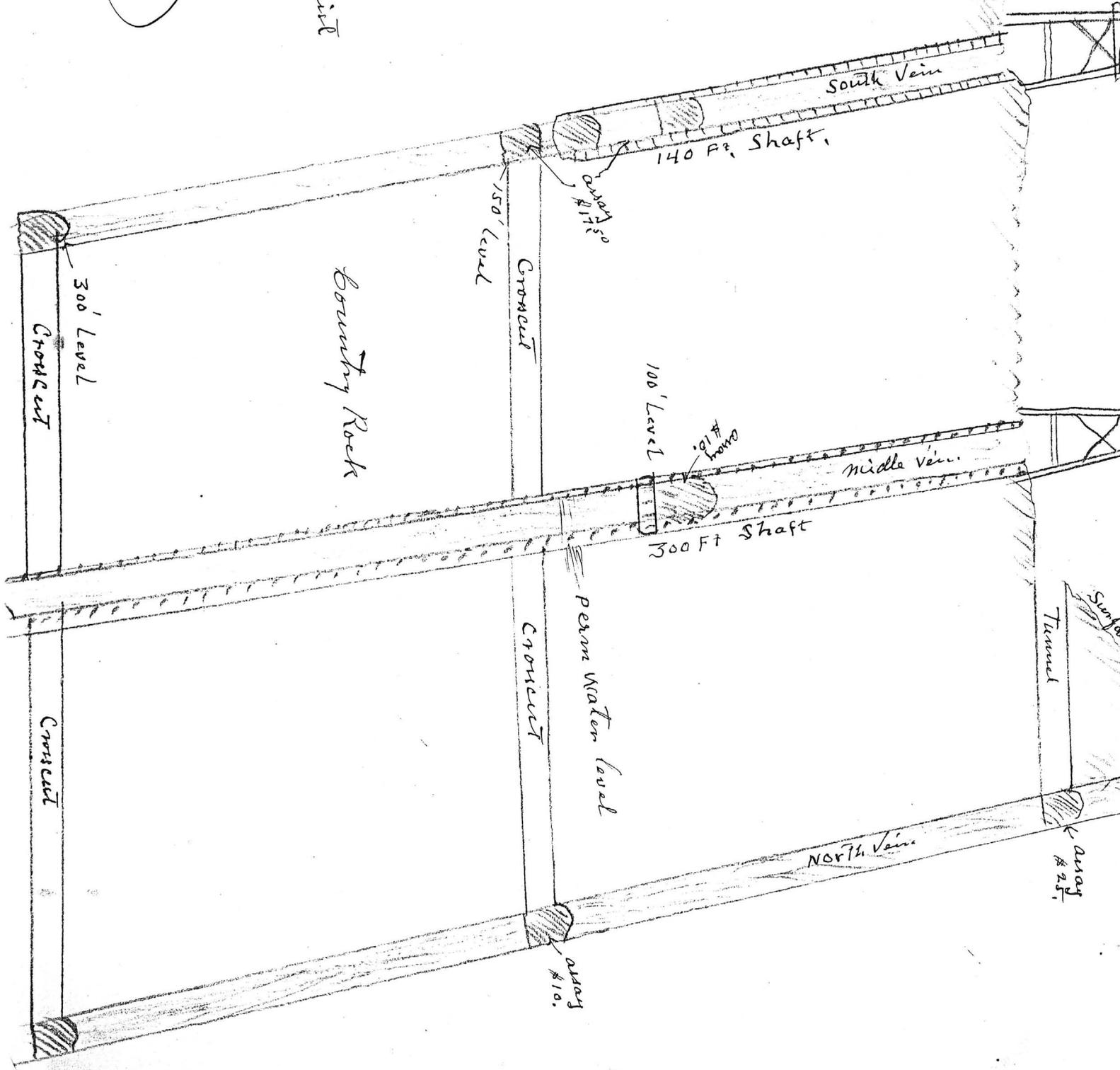
SECT. SHOW
MORSE SHAFT

ORE BIN



OVER

granite - Schist



South Vein

140 Ft Shaft

150' Level

Crosscut

assay #115

100' Level

assay #10

Middle Vein

300 Ft Shaft

Perm Water level

Crosscut

North Vein

assay #10

Surface Tunnel

assay #25

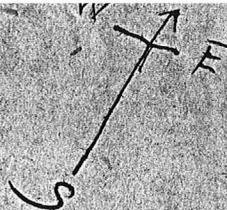
300' Level

Crosscut

Crosscut

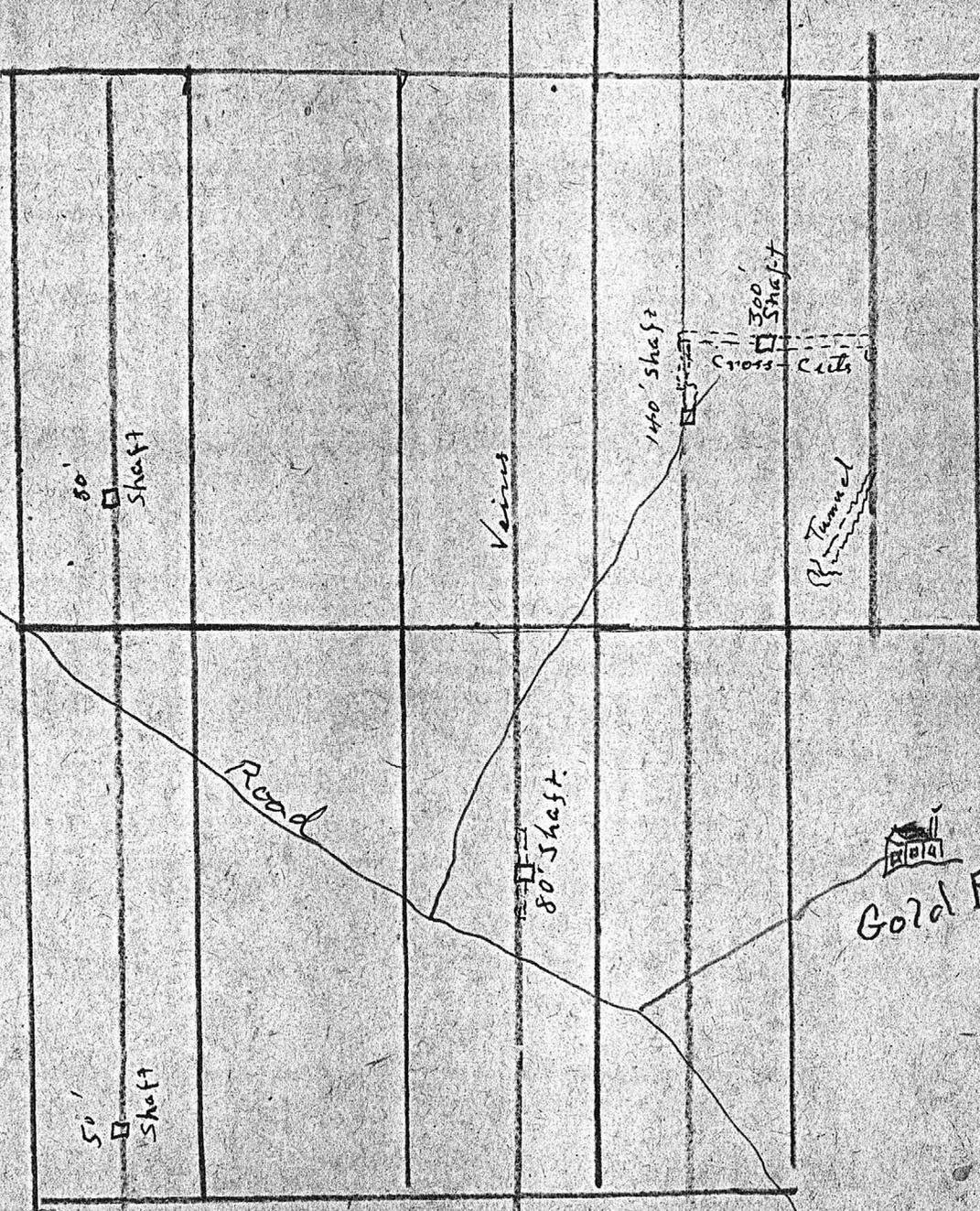
Bourby Rock

ESMERALDA



Horse Shoe
10
Claims

Valley



Gold Bar

GEM MILL

E. Hedberg

LOCATION

The Horse Shoe gold mine situated in the Wallapai Mining District Mohave County Arizona. Located in the western foothills of the Cerbat range, at Cerbat Camp, four miles east from the Boulder Dam highway, and twelve miles west of Kingman.

History

Mine were located and discovered in 1906 by one James Little a prospector whom sold the one-claim discovery to Thorne & Wilson in 1909, whom developed the mine situated on two claims. In 1915 at the beginning of the wrld war the mine and two claims were abandoned, and in the year of 1918 the present owner relocated the two abandoned claims with all improvements there on, and have ince added eight more additional claims to the original and further have developed the claims into a workable mine.

Title

There are 10 claims in the Horse Shoe group all held under the United States Mining Code of 1872, whereby requirments calls for \$100. per claim of annual assessment work and improvement is required in order to hold the ground title intact. This annual work and improvement have been accomplished every year by the present owner and is of record at the Kingman, county recorder office.

Develop

On the 10 claims group, there are several shafts, one 300, one 140, one 80, and 4 are 50 feet each in dept. Also about 1,000 ft, drifts, cross-cuts and tunnels. The main shafts have cross-cuts to the north vein ^{and south vein} and also to the middle vein, at the 150 foot level, and the 300 foot level . Several surface tunnels and open-cuts are on the property.

Geology

The Cerbat range of mountain is composed of Pre-Cambrian granite-schist, granite-porphry and diobase rock formation. Have been intruded by Rhoyalite dikes, (Minette) where at the contacts the ore-bearing veins are occuring and are from three to six feet in in width between walls or contacts, ore is generally quartz, that carry the gold and silver values in its free condition for milling.

100-2

Ore-Veins There are five veins on the Horse Shoe property and are 3 to 6 ft, wide between walls, that strike northwest and southeast for distance of 4,000 feet on the property. Ore is quartz and porphyry, talk and hematite Iron. Four veins carry Gold & Silver and some lead, to the extent of 1/2 ounce gold, some silver and a small amount lead. One vein in the 80 foot shaft carry 1/2 ounce gold and 15% Zinc. Ore is generally oxidized down to permanent water level at 100 ft, deep, sulphide from there on deeper. Values are the same as above.

Product The first carload of ore taken out by leasers from the North vein in a surface tunnel are now sent to the custom mill and it assays \$28. in gold per ton, The leasers contract expires on Nov, 10, 1940 all other ore are stored on the dumps, that ever came out of mine.

Dumps There are about 1,000 tons ore on the dumps, taken out in developm about one half of this are tailings in the pound made by a company small milling plant, whom leased the Horse Shoe water to mill with, and had the ore hauled there from their mine three miles away, All dump ore and tailings will average \$10. a ton, and may be retreated.

Water This country is a semidesert and the only water for milling is the Horse Shoe 300 foot shaft, which makes 30 gallon water per minute, night & day ample for a 50 ton mill when one is erected. Our domestic water is hauled from a well across the wash one-half mile away.

Equipment There are now on the property Two Headframes, two new orebins, one small gasoline hoist, dito pump and a lot of hand tools.

Camp Here are four dwellings comprising 14 rooms. All partly furnished and recently remodeled and put in shape for family occupation, all of them now occupied.

Roads First class roads leads from the paved Boulder Dam highway up to the mine, and is kept up by Mohave County. up to Cerbat Camp and old town Mines & Mills.

Mines & Mills. Onn the east and adjoining Horse Shoe are Golden Gem Mine, Mining & milling one ounce gold ore. One Idaho Mine erecting Mill. O'Brien mine on the south contemplating building a mill.

Flores mine on the North are now erecting Hoisting -Compressure Plan
On the west the Esmeralda mine are producing gold concentrates.

Powerline The United States Boulder Dam Power passes along the Highway to
Kingman, only four miles from the Horse Shoe Mine, and an local line
from Kingman to Chloride mines passes above in the hills, one and a
half mile ^r North of the Horse Shoe. This is the cheapest power in the
western Mining Country. At the present time we make use of Diesel and
Gasoline power which cost from 8 c, to 13 c, per gallon for gas.

Recommend. The water in the mine is not now being pumped at present and is
now up to standard level 130 feet from the surface. so all samp-
ling must be done in srface tunnels, and at 100 ft, in the 300 ft,
shaft, also 125 ft, level in the 140 ft, air shaft. The 80 ft shaft
being much lower on the hillside must be dewatered, but there are
plenty of average ore on top and in the bin to form a good idea.

This shaft should be sunk to 150 ft, ore now in the bottom of the
shaft and short drift shows four feet of solid ore. One Carload was
shipped out during developments it returned \$40. per ton, and there
is now 16 tons in the bin. In the 300 ft, shaft, at 100 ft level
we have put in a bulkhead and aim to start a station on the middle
vein there. At the 125 ft, level in the 140 ft, air shaft we can
start stoping ore.

Mill We need a 50 ton Mill of the Flotation kind to be erected at the
new 50 ton orebin now at the airshaft. This mill would be very
busy on the Ores we mine besides a lot of Custum ore derived in
the imedeate vecinity. Approximate a 50 ton flotation Mill may be
erected here for \$12,500. or say \$250. per ton capacity.

Kingman, Arizona, May 6 th, 1940.

E. Hedburg

Title & Price & Terms

Horse Shoe Mine 10 unpatented Mining Claims are Recorded as follows:

Horse Shoe	#	Book		Page	
Horse Shoe	# 1	3 D		64	
Horse Shoe	# 2	" 3 C		415	
Horse Shoe	# 3	" Z Z		770	
Horse Shoe	# 4	" V V		654	
Horse Shoe	# 5	" 3 D		65	
Horse Shoe	# 6	" 3 S		602	
Celia		" Q Q		544	
Cerbat Zinc		" W W		166	
Gold Reef		" 3 S		295	
Eurika		" 3 S		601	

All on record in the Mohave Court House Kingman, Arizona.

Price of the Mine is \$ 20,000. Payable 10 % per annum or pay Monthly. payments terms are 10 years.

No royalty, on Production. First Payment on signing the Contract, and Monthly payments are \$ 166.75 in advance each and every Month. All moneys to be deposited in the Valley National Bank Kingman, Ariz. to the credit of E. Hedburg, and receipted for.

Assessment work were done for year 1938-1939 by California Chemical spray Corporation, and recorded in Book Micel, page 532 - 533 Assessments for year 1939- 1940 were done by J. S. Leavitt, Joe Reynolds and Frank Howell, driving cross-cut tunnel 100 feet, Not Recorded.

E. Hedburg, *owner*

Immediate Possession

Kingman Arizona July 9 - 40

Mr. J S. Coupal

Department of Mineral Resources

Phoenix Ariz.

Dear Sir:

Enclosed find scetch made from the Horse Shoe Mine Survey. It will enable you to form a better idea of the workings and values of the mine. Put these scetches with my H, S. application blanks, already in your hands.

It seems so we ought to make a turn of this property, at those easy terms, if there are any buyers at all remaining in the country.

If you want scetches of the Silver Mountain Mine, let me know. Our aim here is to start working the midle vein at the 100 ft level (bulkhead is in,) and to take out 400 tons ore, also bring up the tailings out of the Pound that would bring \$ 14,000. to use in building a 50 ton Flotation Mill.

The six room house is ready to occupy when ever we find one to take over the mine.

This Cerbat Camp is doing very well, The Gem Mine is operating on one ounce ore handling 10 tons per day, making two tons concentrat per week, that goes 66 ounces gold, they can't handle more dirt as water is very scarce. The Idaho Mine has put in a Mill, and Mrs O'Brien is doing something. Flores Mine produze 50 tons a week of \$15. ore which goes to Producers Mill at Pilgrim.

Well here luck

Yours Truly.

E. Hedburg

Cerbat Camp, Kingman Ariz. July 7 - 40

Mr. J. S. Coupal,

Phoenix Arizona.

Dear Sir:

Have revised and brought up to date the applications that you sent the other day. I am so pleased that you remember me. I have been trying to lease out my holdings here as I am getting up in years now past 81 years, but sofar have had no success. Last I sent full report and maps to ad in Pay Birt Box D C 2 on the Horse Shoe Mine, But have not eaven an answer. Have been bothered with high blood pressure for sometime and are not so pertu at anytime.

I do hope that you may be able to make a turn in disposing some of Mines as a matter of fact its a hard proposition nowadays.

The horse Shoe & the Cabin Mines are joined in one solid group and offered on lease & Bond for \$ 20,000. payable at the rate of 10 % Royalty with minimum royalty of \$ 150. per month.

These Mines are ready to produce at once.

The Silver Mountain Mine I prefer to lease out at 10 % royalty. possession are given to either mines at once.

Yours Truly.

E. Hedberg

MH-5

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
OWNERS MINE REPORT

Date 4-17-40

Corrected 7-1-40 (8-26-40)

1. Mine The Horse Shoe & Cabin Mines in a group
2. Mining District & County Wallapai District
Mohave County
3. Former name James Thorn
4. Location Cerbat, Arizona.
5. Owner Eric Hedburg
6. Address (Owner) Kingman, Arizona
7. Operator same
8. Address (Operator) " "
9. President
10. Gen. Mgr.
11. Mine Supt.
12. Mill Supt.
13. Principal Metals Gold, Lead and Zinc
14. Men Employed
15. Production Rate
16. Mill: Type & Cap.
17. Power: Amt. & Type Gasoline or Boulder Dam power
18. Operations: Present Leases on surface ore. Produced and shipped a carload May 18th.
Ran \$28.80 per ton Gold. We need 10 H.P. Hoist, compressor and some drills to start at once to produce ore from the 100 ft. level. Ore runs \$10.00 a ton 10 ft. vein and is above water level, will take out 400 tons and then build a mill.
19. Operations Planned Want a 50 ton flotation mill. Ore bin all ready set -up.
Want to haul up 10,000 tons tailings out of the water. Pound to have ready for mill.
Tailings assay \$10. per ton.
20. Number Claims, Title, etc. Ten (10) claims in a group unpatented. All assessment done - up to date.
21. Description: Topography & Geography Elevation 3,600 ft. low is 3,400 ft. in the foothills of the Cerbat Range Western Slope.
22. Mine Workings: Amt. & Condition Shafts, cross-cuts and drifts in good condition. Three working shafts as 300, 140 and 80 feet deep. Cross-cuts on 180' level to south vein. 250 ft. and to north vein 250 ft. also cross-cuts on the 300 ft. level same distance. 100 ft. drift on the veins, no stoping, 500 ft. of surface tunnels open-cuts. The 80 ft. shaft has 100 ft. drift. There is 2 headframes, 2 ore bins, small gas hoist and pump.

23. Geology & Mineralization Pre-cambrian schists, granite, porphyry and rhyolite dikes vein is quartz, then are 4 veins each 4 feet wide between walls.
24. Ore: Positive & Probable, Ore Dumps, Tailings 1000 ton on dump average \$10.00 per ton, gold and lead. Ore not blocked out, veins are each 4 feet wide, ore oxide down to water level 140 ft. and average \$13 per ton in gold. The 80 ft. shaft carry 13% zinc blend and \$12 gold in 4 foot vein.
- 24-A Vein Width, Length, Value, etc. North vein, 4 ft. wide, length 1,500 ft. Middle vein width 15. ft length, 4,000 ft. South vein width 4 ft. length, 4,000 ft. Averages \$10 to \$17.50 per ton gold. Cabin Vein 4 ft. wide, 3,000 feet long, average \$10. gold 15% zinc.
25. Mine, Mill Equipment & Flow Sheet Need a 50 ton flotation mill, ore bin already up.
26. Road Conditions, Route All boulevards, and in good condition. Boulder Dam Highway U. S. #93.
27. Water Supply Mine makes 30 gallon per minute, night and days.
28. Brief History Mr. Jack Little, prospector, discoverer in 1906 sold out to Thorn and Wilson in 1909, both died in 1914. Property was relocated by present owner 1916, 1918 and 1920. That is, added more claims to the group.
29. Special Problems, Reports Filed E. M. Lamoutz, M.E. report on hand. Examined 1912. Covering the 150 ft. level only.
30. Remarks There are three houses on the ground (12 rooms). One assay office, one tool house. Possession given at once of mine and buildings UPON THE signature of lease and bond.
31. If property for sale: Price, terms and address to negotiate. Lease and bond, price \$20,000.00, payable out of production at the rate of 10% royalty. Minimum royalty \$150. per month. 10% commission.
32. Signed Eric Hedburg
33. Use additional sheets if necessary.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
OWNERS MINE REPORT

Date June 16 - 1930

Mine Horse Shoe

District Cerbat, Wallapai Mining District, Location Kingman Ariz.

Former name XXXXXXXXXXXX

Owner E. Hedburg,

Address Kingman Ariz.

Operator California Spray-Chemical Co.

Address Richmond, Calif.

President XXXXXXXXXXXX

Gen. Mgr. Marvin.

Mine Supt. C. J. Artero Address Kingman

Mill Supt. Wilson,

Principal Metals Lead & Gold Ariz.

Men Employed 25

Production Rate 25 tons per day

Mill: Type & Cap. Gravity Concentrator

Power: Amt. & Type Diesel 100 H. P.

Operations: Present 3 eight hour shifts at both mine & Mill

Operations Planned Planed 100 ton mill after testing out the water-flow.

Number Claims, Title, etc. 6 Unpatented Claims in a Group. Located by E. Hedburg and leased & Bonded to the California Pray-Chemical Co. of Richmond Calif. for a term of 10 years at 12 1/2 % royalty on the production Pluss \$100, per month Rent.

Description: Topog. & Geog. Located in the foot hills on the west slope of the Cerbat Range in Mohave County Arizona. 12 Miles North of Kingman, Ariz.

Mine Workings: Amt. & Condition 2 shafts as 150 and 300 feet deep, 2,000 feet drifts all in good condition.

Geology & Mineralization Precambrian schista and Granite-Porphry intersected with Minette Dikes, 3 veins from 5 to 10 feet wide. Carrying Gold only 1/2 Ounce per ton.

Ore: Positive & Probable, Ore Dumps, Tailings slogged out 1.000 tons so far.
Lead Concentrated derived from Custom ores is sent to Richmond, Calif. to be manufactured into Ethyl gas.

Mine, Mill Equipment & Flow Sheet Crusher & Rolls & 3 Concentrating tables.

Road Conditions, Route Fine Four Miles from the U. S. 93

Water Supply Mine makes now 30 Gl a Minute,

Brief History Located & Developed by E. Hedburg in 1916

Special Problems, Reports Filed XXXXXXXXXXXX

Remarks The company now operating started in February 10 1930 and they are transporting lead ores from the Jim Kane Mine 3 Miles away to mill while they are pumping the mine out at horse Shoe is now down to 280 feet, and have yet the lower level to drain.

If property for sale: Price, terms and address to negotiate. The income title can be bought, subject to the bond & lease Price 12,000. dollars payable \$10 down, 10 % per annum till paid, income is now One per cent per month, which will soon increase to 3 % as soon as the mine starts on the gold mining.

Signed.....

E. Hedburg
Kingman, Ariz.

Use additional sheets if necessary.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
OWNERS MINE REPORT

Date April 17, 1940

1. Mine The Horse Shoe
2. Mining District & County Wallapai District
Mohave County
3. Former name James Thorn
4. Location At Cerbat, Arizona.
5. Owner Eric Hedbrug
6. Address (Owner) Kingman, Ariz.
7. Operator " "
8. Address (Operator) " "
9. President
10. Gen. Mgr.
11. Mine Supt.
12. Mill Supt.
13. Principal Metals Gold and Lead
14. Men Employed None
15. Production Rate
16. Mill: Type & Cap.
17. Power: Amt. & Type Gasoline or Boulder Dam
18. Operations: Present ^{power} Leases on surface ore.
19. Operations Planned Want a 50 ton flotation mill.
20. Number Claims, Title, etc. 10 claims in a group unpatented.
21. Description: Topography & Geography Elevation 3,600 ft., low is 3,400 ft. in the foothills of the Cerbat Range Western Slope.
22. Mine Workings: Amt. & Condition Shafts, cross-cuts and drifts in good condition. Three working shafts as 300, 140 and 80 feet deep. Cross-cuts on 150' level to South Vein 250 ft. and to North Vein 250 ft. also cross-cuts on the 300 ft. level same distance. 100 ft. drift on the Veins, no stoping, 500 ft. of surface tunnels open-cuts. The 80 ft. shaft has 100 ft. drift. There is 2 headframes, 2 ore bins, small gas hoist and pump.

23. Geology & Mineralization Pre-Cambrian Schists, granite, porphyry and rhyolite dikes vein is quartz then are 4 veins each 4 feet wide between walls.
24. Ore: Positive & Probable, Ore Dumps, Tailings 1000 ton on dump average \$10.00 per ton, gold and lead.
 Ore not blocked out, veins are each 4 feet wide, ore oxide down to water level 140 ft. and average \$12 per ton in gold. The 80 ft. shaft carry 15% zinc blend and \$12 gold in 4 foot vein.
 24-A Vein Width, Length, Value, etc.
25. Mine, Mill Equipment & Flow Sheet
26. Road Conditions, Route All boulevards and in good condition. Boulder Dam Highway U. S. 93.
27. Water Supply Mine makes 30 gal. per minute nights and days.
28. Brief History Mr. Jack Little , Prospector discoverer in 1906 sold out to Thorn and Wilson in 1909 both died in 1914. Property were relocated by present owner 1916, 1918 and 1920. That is, added more claims to the group.
29. Special Problems, Reports Filed E. M. Lamouts M. E. Report on hand.
 Examined 1912
30. Remarks There are three houses on the ground(12 room) One assay office, one tool house. Possession given at once of mine and buildings upon the signature of lease and bond.
31. If property for sale: Price, terms and address to negotiate. Lease and Bond price \$15,000.00 payable out of production at the rate of 10% royalty. Minimum royalty \$100 per month.
32. Signed Eric Hedburg
33. Use additional sheets if necessary.

MC-1

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
OWNERS MINE REPORT

Date June 15, 1939

Mine Cabin Mine

District Cerbat, Wallapai Mining District

Location Mohave County, Ariz.

Former name -----

Owners E. Hedberg & Mrs. Frances Kerr ✓

Address E. Hedberg
Kingman, Ariz.

Operator none

Address

President None

Gen. Mgr.

Mine Supt. None

Mill Supt.

Principal Metals Gold & Zinc

Men Employed usually 3-4

Production Rate 2 carloads per month

Mill: Type & Cap. none

Power: Amt. & Type Gas hoist & pump

Operations: Present waiting to raise capital

Operations Planned will sink the shaft 50 ft., deeper in ore,
then drift, and stope, on the 4 ft. vein.

Number Claims, Title, etc. Two unpatented claims cover 3,000 ft. on vein.

Description: Topog. & Geog. in the Cerbat Foothills, on level ground, country is
Granite-schist. Pre-Cambrian with Rhyolite dikes
intersecting.

Mine Workings: Amt. & Condition Not working at present - closed Nov. 10 last -
are trying to raise money to start - Mine is in
condition to start at any time.

Geology & Mineralization Mine is located on the Esmeralda Vein. The ore is 15% Zinc and 1/2 ounce Gold, general average

Ore: Positive & Probable, Ore Dumps, Tailings One carload in the ore-bin - no ore blocked out - no tailings. Have marketed 35 tons @ \$40. per ton. 100 ton on the dump

Mine, Mill Equipment & Flow Sheet No flowsheet - One 20 H.P. gas hoist. One well pump a 3 H.P. engine. New headframe toolhouse & tools
One 3 room cabin

Road Conditions, Route 4 miles east of U.S. 93 Boulder Dam Rt. The Cerbat Branch in fine shape up to the mine

Water Supply Mine makes now at 80 feet 2,000 gal. per diem

Brief History Claims located by the owner in year 1915

Special Problems, Reports Filed No reports

Remarks There is some ore in the workings that assays \$50 a ton Gold. Cabin Mine adjoins the Gem Mine on the east. Esmeralda on West, Standard Oil Cos Horse Shoe on the North, and the Valley on South

If property for sale: Price, terms and address to negotiate. Sale price 7,000 dollars payable as 10% down and 10% per annum till paid. 10% Commission for selling.
Address E. Hedburg, Boulder Dam St., Kingman, Ariz.

Signed.....E. Hedburg.....

Use additional sheets if necessary.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
MINE OWNER'S REPORT

U.S. Geological Survey & Mineralization

Date April 17-1940

1. Mine *The Horse Shoe*
2. Location *at Cerbat ariz.*
3. Mining District & County *Wallapai Dist Mohave County*
4. Former name *Jamies Thorn*
5. Owner *Eric Hedburg*
6. Address (Owner) *Kingman, Ariz*
7. Operator *" "*
8. Address (Operator) *" "*
9. ~~President, Owning Co.~~
- 9A. ~~President, Operating Co.~~
10. ~~Gen. Mgr.~~
14. Principal Minerals *Gold & Lead*
11. ~~Mine Supt.~~
15. Production Rate *_____*
12. ~~Mill Supt.~~
16. Mill: Type & Cap. *_____*
13. Men Employed *none*
17. Power: Amt. & Type *Gasoline or Boulder Dam power*
8. Operations: Present *Leasers on surface ore*
9. Operations: Planned *Want a 50 ton flotation mill*
10. Number Claims, Title, etc. *10 claims in a group unpatented*

1. Description: Topography & Geography *Elv 3,600 ft low is 3,400 ft in the foothills of the Cerbat Range Western slope*

2. Mine Workings: Amt. & Condition *shafts - cross-cuts and drifts in good condition*
Three working shafts as 300, 140, and 80 feet deep. cross-cuts on
50' level to south vein 250 ft and to north vein 250 ft, also cross-cuts on
the 300 ft level same distance 100 feet drift on the veins, no stopping
100 ft of surface tunnels open - ^(over) cuts - The 80 ft shaft has 100 ft drift,
one is 2 headframes - 2 ore bins - Small gas hoist & Pump

3. Geology & Mineralization *Ore - Cambrian Schist Granite - porphyry of
and Rhaglite & Veins - is quartz, there are 4 veins
each 4 feet wide between walls.*

4. Ore: Positive & Probable, Ore Dumps, Tailings *1000 ton on dump average #10.⁰⁰
per ton - Gold and Lead*

4A. Dimensions and Value of Ore body *ore not blocked out - veins are each
7 ft wide ore - Oxide down to water level 140 ft and
average #12.⁰⁰ per ton in gold - The 80 ft shaft carry 15%
free blende and #12.⁰⁰ gold in the 4 foot vein*

5. ~~Mine, Mill Equipment & Flow Sheet~~

6. Road Conditions, Route *all Bullwards and in good condition
Boulder Dam Highway U.S. 93.*

7. Water Supply *Mine makes 30 gallons per minute nights & days*

8. Brief History *Mr. Jack Little prospector discoverer in 1906, sold out to
Thorn and Wilson in 1909 both died in 1914 property
were relocated by present owner 1916, 1918 and 1920.
that is, added more claims to the group.*

9. Special Problems, Reports Filed *E. M. Lamonts M.E. Report on hand.
Examined 1912 -*

10. Remarks *There are three houses on the ground (12, Room
one assay office one tool house, possession given
at once - of mine and buildings in fact the
signature of Lease & Bond -*

11. If property for sale: Price, terms and address to negotiate. *Lease & Bond Price \$15,000.⁰⁰
payable out of production at the rate of 10% royalty,
minimum royalty \$100.⁰⁰ per month.*

12. Signature *Eric Hedberg*

13. Use additional sheets if necessary. *See sketch*

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
OWNERS MINE REPORT

17H-5

Date June 16, 1939

Mine Horse Shoe

District Cerbat, Wallapai Mining District

Location Kingman, Ariz.

Former name

Owner E. Hedburg

Address Kingman, Ariz.

Operator California Spray-Chemical Co.

Address Richmond, Calif.

President

Gen. Mgr. Marvin

Mine Supt. C. J. Artero Address Kingman, Ariz.

Mill Supt. Wilson

Principal Metals Lead & Gold

Men Employed 25

Production Rate 25 tons per day

Mill: Type & Cap. Gravity Concentrator

Power: Amt. & Type Diesel 100 H.P.

Operations: Present 3 eight hour shifts at both mine & mill

Operations Planned Planned 100 ton mill after testing out the water flow

Number Claims, Title, etc. 6 unpatented claims in a group. Located by E. Hedburg and leased & bonded to the California Spray-Chemical Co. of Richmond, Calif. for a term of 10 years at 12 1/2% royalty on the production plus \$100 per month rent.

Description: Topog. & Geog. Located in the foothills on the west slope of the Cerbat Range in Mohave County, Arizona. 12 miles north of Kingman, Ariz.

Mine Workings: Amt. & Condition 2 shafts as 150 and 300 feet deep, 2,000 feet drifts all in good condition.

Geology & Mineralization PreCambrian schista and granite-prophyry intersected with Minette Dikes, 3 veins from 5 to 10 feet wide. Carrying Gold only 1/2 ounce per ton.

Ore: Positive & Probable, Ore Dumps, Tailings Blocked out 1,000 tons so far. Lead concentrated derived from Custom ores is sent to Richmond, Calif. to be manufactured into Ethyl gas.

Mine, Mill Equipment & Flow Sheet Crusher & rolls & 3 concentrating tables

Road Conditions, Route Fine - four miles from the U.S. '93

Water Supply Mine makes now 30 gal. a minute

Brief History Located & developed by E. Hedburg in 1916

Special Problems, Reports Filed

Remarks The company now operating started in February 10, 1930 and they are transporting lead ores from the Jim Kane Mine 3 miles away to mill while they are pumping the mine out at Horse Shoe is now down to 280 feet, and have yet the lower level to drain.

If property for sale: Price, terms and address to negotiate. The income title can be bought subject to the bond & lease price 12,000 dollars payable 10% down, 10% per annum till paid, income is now one per cent per month, which will soon increase to 3% as soon as the mine starts on the gold mining.

Signed..... E. Hedburg.....
Kingman, Ariz.

Use additional sheets if necessary.