



CONTACT INFORMATION

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ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: PLUMOSA MINE

ALTERNATE NAMES:
JACKSON COPPER
COPPER KING
HEARTS DESIRE

LA PAZ COUNTY MILS NUMBER: 319

LOCATION: TOWNSHIP 7 N RANGE 18 W SECTION 13 QUARTER SE
LATITUDE: N 33DEG 56MIN 52SEC LONGITUDE: W 114DEG 04MIN 51SEC
TOPO MAP NAME: BOUSE - 15 MIN

CURRENT STATUS: PAST PRODUCER

COMMODITY:
COPPER OXIDE
COPPER SULFIDE
LEAD
SILVER
GOLD

BIBLIOGRAPHY:
ADMMR PLUMOSA MINE FILE
KEITH, S.B., 1978, AZBM BULL. 192, P. 169
JEMMETT, JOE PAUL, 1966, GEOLOGY OF THE
NORTHERN PLOMOSA MOUNTAIN RANGE, YUMA
(LA PAZ) COUNTY, ARIZONA, UNIVERSITY OF ARIZ
PH D DISSERTATION, P.114 (GEOLOGY FILE)

PLUMOSA MINE

REFERENCES

YUMA COUNTY

Northern Yuma Area Mines (file)

October 23, 1945

Mr. Henry L. Jackson
Box 343
Brawley, California

Dear Mr. Jackson:

Your letter of October 18 has been handed to me for reply.

As to the Mica Giant property the information that you included in your letter is practically correct. This property is considered one of our best mica properties in the State, however, I think they are a little optimistic in giving themselves too large a percentage of book mica. It is my opinion that 15 to 20 percent mica would cover the total mica contents in the dike. The pegmatite dike in which this occurs is from 30 to probably more than 70 feet but would average, I think, easily 50 feet in width.

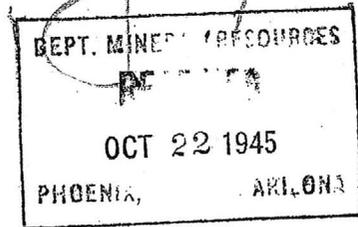
With reference to your Plumosa property we will keep that in mind and will present it to any inquiring parties and should they be interested, we will gladly have them contact you so that you can make your own arrangements.

Yours very truly,

A. C. Nebeker
Field Engineer

ACN:LP

Brawley Calif. 10/18/45



State Mining Engineer.

Phoenix, Ariz.

Dear Sir - The enclosed

"copy" was handed me a few days ago and it would like to know if this description of the property is correct and if the property is being worked at present.

I own the Plumosa Copper property near Bouse Arizona and it would like to dispose of it, do you know of any one that would be interested in buying this property?

Respt.
Henry L. Jackson.
Box 343. Brawley Calif.

November 8, 1943

Mr. Henry L. Jackson
Box 343
Brawley, California

Dear Mr. Jackson:

Your letter of October 31 has been received with description of the Plumosa Mine. We have had a copy of the Godbe report in our file and have submitted it on occasion to prospective buyers looking for copper properties. I am returning one copy to you.

I am submitting a copy of your Mine Owner's Report to Mr. C. T. Palladine and he may make arrangements to examine the property as he has clients who are looking for Arizona copper.

If you are unable to contact private capital to open up the property, my only suggestion would be for you to make an application for an R.F.C. mine loan. Due to the scarcity of labor, however, the R.F.C. is far more exacting in their requirements.

Yours very truly,

J. S. Coupal, Director

JSC:LP

CC: Mr. C. T. Palladine

Box 343
Brawley, California
Septmeber 3, 1942

Mr. Charles F. Willis
Consultant Metal Reserves Company
Phoenix, Arizona

Dear Sir:

We own the Plumosa Copper property, which the enclosed report by Mr. Godbe, a Mining Engineer, covers. We would like to have this property inspected by some government authority and could meet them at Bouse, Arizona, at their convenience.

We are also enclosing two clippings from the Los Angeles Times, which indicated to us that this is a proper request for us to make. This is a large property, well located and we think should be at work .

Please let us hear from you at your earliest convenience.

Respectfully,


Henry L Jackson

Brawley Calif. 10/31/43

Po Box 343

Mr. J. S. Coupal.

Director - Phoenix, Ariz.

Dear Sir: The enclosed

is a copy of a news item taken from
the Desert magazine, ^{a copy} also Mr Godbe's report.

I have a Copper property located about
five miles South + west of Bouse, Arizona
known as the Plumosa Copper mine
that I would like very much to develop
or dispose of, it is patented property
and I have a deed to it, according to
an engineers report there has been
about \$30,000⁰⁰ spent on the property.

The engineer that made the report was
made by S. T. Godbe.

Perhaps you can help me dispose of this
property or give me the necessary instruct-
ions regarding the development of
the property. Please let me hear from you.

Respt. Henry L. Jackson Box 343
Brawley Calif.

from Nov. 1943 Desert Magazine

Phoenix, Ariz. -

more efficient work & closer cooperation between federal govt & Arizona mine workers is the result. This year's work done by state department of mineral resources. J. S. Couper, director, has announced. Dept has aided in obtaining development loans, access roads application approval, mineral surveys & has been active in industrial salvage programs.

September 5, 1942

Mr. Henry L. Jackson,
Box 343
Brawley, California

Dear Mr. Jackson:

I have your letter of September 3 relative to the Plumosa copper property.

I am turning your letter and reports over to the Arizona Department of Mineral Resources which I believe can be of value to you in getting the necessary contacts to have your property worked.

The government does not send out men to inspect properties until they first have had some preliminary information as to the property to be inspected. There are a number of agencies of the government working on this problem of increased copper production. Mr. Coupal, director of the Department of Mineral Resources, will communicate with you as to the proper action to take.

Yours very truly,

CHARLES F. WILLIS, Consultant
Metals Reserve Company

CFW:MH

September 9, 1942

Mr. Henry L. Jackson
P. O. Box 343
Brawley, California

Dear Mr. Jackson:

Your letter of September 3 to Charles F. Willis together with the report on the Plumas copper property has been placed in my hands for attention.

I am enclosing a mine owner's report form and suggest that you fill this report out as per instruction so that we may file it together with the Godbe report in our files for reference. In addition I am enclosing a reprint of an article on the "Principal Features of the RFC Mine Loan Program".

As stated by Mr. Willis, the government does not send engineers to examine properties unless a formal application for a loan has been made to Washington, D. C. and instruction given to the examining engineer in Arizona to look over the property. I quite agree with you in that the property should be in operation due to the critical shortage of copper. Unless private funds are available for this purpose, a mine loan application should be made.

We will be glad to assist you with further information if necessary.

Very truly yours,

J. S. Coupal,
Director

JSC:hal

Enclosure: 2

July 20, 1945

Mr. Arthur Wm. Roegner
1009 West Fairchild Street
Danville, Illinois

Dear Mr. Roegner:

We have your request for information regarding the Plumôse Mine near Bouse. We find several copies of a "Mine Owner's Report" in our files so we are enclosing one herewith.

This will give you the information you desire and possibly some further information.

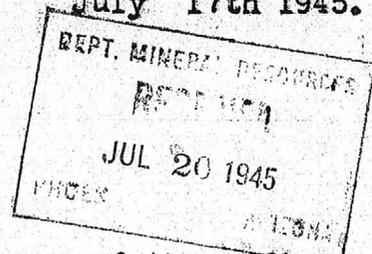
Yours very truly,

Chas. H. Dunning
Director

CHD:LP
Enc.

July 17th 1945.

Mr. Chas. H. Dunning, Director,
Department of Mineral Resources,
304 Home Builders Building,
PHOENIX ; Arizona.



Dear Sirs:-

Would appreciate having the names of the officers of the " PLUMOSA COPPER COMPANY" whose mine is located about 6 miles west of Bouse, in the Plumosa Mining District, Yuma Co., Arizona.

Their property consists of two groups known as the "Hearts Desire" and Heckler" These now being embraced in one contiguous group, consisting of nine (9) mining claims, six of which are patented.

Thanking you for the information, if you have it available,

Yours very truly,

Arthur Wm. Roegner

AWR/N.

Arthur Wm. Roegner,
1009 West Fairchild Str.,
DANVILLE , Illinois.

G E O L O G Y.

The formation is andesite and schist in wide zones with intrusions of diorite on their contact, having a northerly and southerly strike and vertical dip. Several cross fissures occur cutting the formation at nearly right angles and dipping northerly at about 75 degrees. This cross fissuring evidently antedated the mineralization, as the mineralization is found following it as well as the lines of contact, forming in wide and long shoots, mineralizing as well as completely replacing large areas of the formation, especially the diorite. The bonanza shoots or deposits occurring at or near intersections of the north and south contacts with east and west fissures.

Such extensive and intensive mineralization evidently having been accomplished by the agency of long continued hot metal bearing solutions coming up from below along the fissures and contacts.

It is probably not necessary at present to describe in detail all of the interesting outcrops showing on the surface, but I will select one that seems to be the best. This is located on the "Hearts Desire" claim, where a remarkable convergence of fissuring is observable from several directions for miles around, centralizing in the "Hearts Desire" shoot and forming a mineralization from one to two hundred feet wide, and about seven hundred feet in length. This is a large oxidized and leached gossan, consisting mostly of an iron oxide with a little schist, andesite and diorite gangue, but with small deposits and veins show in it which contain either the primary copper oxidized, or a redeposited secondary copper assaying from 5% to 50% in copper and about \$9.00 in gold per ton. These richer mineralizations occur at and near the contact on both the schist foot-wall and andesite hanging wall. Several hundred tons of this material have been mined from the surface and shipped, the shipments averaging about 15% copper and \$9.00 gold. Quite small streaks and bunches, too small to pay to work, occur sparingly throughout the entire width of the shoot in the form of carbonate, cuprite, and schrieicola: and even the reddish iron oxide gossan, apparently entirely leached and showing no visible copper mineral, all carries from 1/3 of 1% to 3/4 of 1% in copper. Great widths and lengths of this copper iron gossan occur in this big shoot, which gossan is identical in character to the gossan at and about ~~1000~~ 100 feet below the surface on the adjoining property, where at this depth the primary sulphide is found with the gossan showing it to be chalcopyrite. Below this point on the adjoining property several thousand tons of primary copper mineral have been opened up and shown to be exclusively chalcopyrite and containing no pyritic iron or other associated sulphide mineral. The uniform nature of the iron gossan in this large shoot shows it to be an iron resulting from the oxidizing

(There was no page # in file) R/H

and leaching of a primary copper iron sulphide, or chalcopyrite, and evidences the existence primarily in the shoot of large bodies of this mineral. It is seldom such conclusive evidence is obtainable from surface gossans to determine the character of the primary sulphides. The conditions certainly indicate that a large portion of this main ore shoot on the "Hearts Desire" was a clean chalcopyrite before oxidation and leaching took place, and that similar large bodies of such sulphide carrying about 30% in copper besides the gold value, may be expected when the permanent sulphide zone is reached. No profit is likely to be had in mining the rich copper ore found in the oxidized gossan of this shoot. These comparatively small streaks and bunches are only the remnants and redeposited spots of a once high grade, but now almost completely leached and impoverished ore body, and it is not reasonable to expect any large quantity of rich ore above the permanent water level, and sulphide zone. The primary copper ores are rendered so soluble by the agencies of air and water, that no matter how big and rich a ledge may have been as first formed in the sulphide, its oxidizing and leaching at and from the surface, except in limestone, seldom leaves much pay ore until a point is reached in depth where the ore as originally formed has been permanently covered by water, and thus protected from surface oxidation and leaching. This point so interesting to the experienced copper miner, is one where not only the primary sulphides are found protected from impoverishment by leaching, but also a most likely one for the precipitation and accumulation of rich copper leached from the ledge above. This leached copper carried by the cold descending solutions in the ledge from the surface and redeposited, mostly at the permanent water level on the primary sulphides, forms the secondary enrichment, as distinguished from the primary, which was by deposition of the sulphides from hot ascending solutions. When a primary ore is chalcopyrite, as in this case, the secondary is generally found richer in copper than the primary ore, for the reason that Chalcopyrite (made up of copper 34%, iron 31% and sulphur 35%) when oxidized and leached leaves the iron, which unites with the oxygen and water obtained from the surface, forming a hydrated oxide or limonite, which remains, with any other insoluble gangue there may have been in the ore, as the gossan: the copper and sulphur being oxidized and separated out from the chalcopyrite as a soluble copper sulphate, is carried down in solution and redeposited, if confined in the ledge, as sulphide, carbonate, or native copper, forming a secondary deposit, thus averaging over 50% in copper. In this way a primary carrying, say from 1% to 30% may be concentrated by leaching and redepositing into a much richer product. An illustration is shown in this locality at the Swasea property situated at a similar elevation, about 20 miles to the north, where also similar conditions of climate and water prevail, and where the primary sulphide is also chalcopyrite. The secondary enrichment zone here has been recently reached at a vertical depth of between 600 and 700 feet and the secondary copper is found as chalcocite (79%), bornite (3%) and native copper.

P E R M A N E N T W A T E R L E V E L A N D S U L P H I D E
Z O N E.

Water has been encountered in two adjoining propertues at a depth of 300 feet. This is not the permanent water level, however, as the gossans are found as completely oxidized below this point as above. In one of these properties a distance of two hundred feet has been sunk below this recent water level, making in all a depth of 500 feet from the surface, without reaching the permanent sulphide zone. Considering the elevation above sea level, 1000 feet at the surface, and the flat nature of the surroundinn country, I would expect that the permanent water level would be reached at a depth of not more than that of the erosion of the Colorado River immediately west of this locality, 25 miles distant, which would be about 600 feet. This corresponds closely to the depth at which the secondary enrichment zone has been reached at Swansea, and I believe will prove to be the depth to the permanent water level, the sulphide zone, and zone of secondary enrichment on the Plumosa Copper property.

Z O N E O F S E C O N D A R Y E N R I C H M E N T.

Where the gossan shows evidence of such richness, previous to leaching, and at the same time so wide and long, as in the Hearts Desire shoot, having an average width of 150 feet, and length of 700 feet on the surface, a leached zone on it for 600 feet in depth, would, if redeposited below form an anormous body of rich secondary ore. The topography of the country is not favorable for the lateral escape of descending solutions from a nearly vertical ledge, so it looks favorable for a phenominally large deposit of secondary ore.

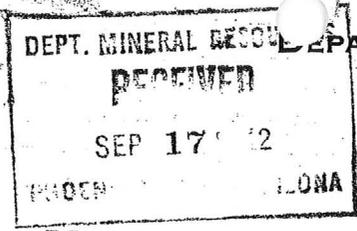
C O N C L U S I O N S.

In view of the cost and the time required for sinking in wet ground to the depth required to properly prove the property, 800 feet, I would recommend core drilling to demonstrate the mineralization to that depth, preliminary to shaft sinking. The shaft work will cost about \$50.00 per foot, while the core drilling can be done for about \$5.00 per foot. I have seen most of the big copper mines of the western states and Mexico, and do not hesitate to state, that in my judgement, none of them have shown the geologic and prospective accompainements at the surface for a greater copper mine than is to be seen in this property.

Respectfully yours,

(signed) S. T. Godbe.

MP-35



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

Date September 16, 1942

- 1. Mine Plumosa
- 2. Location Approx 5 1/2 miles South-west of Bouse, Arizona.
- 3. Mining District & County ~~Yuma~~ Yuma Co
Plumosa Mining Dist.
- 4. Former name -----
- 5. Owner Henry L Jackson and family
- 6. Address (Owner) Box 343, Brawley
Res: 232 North Imperial Ave, Brawley
- 7. Operator --none---
- 8. Address (Operator)

- 9. President, Owning Co. none-
- 9A. President, Operating Co.

- 10. Gen. Mgr. --none---
- 14. Principal Minerals Copper
- 11. Mine Supt. --none
- 15. Production Rate -----
- 12. Mill Supt. none-
- 16. Mill: Type & Cap. -----
- 13. Men Employed --none---
- 17. Power: Amt. & Type -----
- 18. Operations: Present none
- 19. Operations: Planned

- 20. Number Claims, Title, etc. Nine Claims- Six of which are patented.
- 21. Description: Topography & Geography -Elevation 1000 feet above sea-level; rolling land; at foot of mountain ranges, near Colorado River, washes running thru property;
- 22. Mine Workings: Amt. & Condition - Four shafts, 20 feet, 30feet, 50 feet and 210ft. in depth, respectively. The latter is a vertical 2 compartment well-timbered shaft.

23. Geology & Mineralization Formation is andesite and schist, wide zones, with intrusions of diorite. Several fissures occur cutting the formation at nearly right angles. One outcrop in Hearts Desire claim, a convergency of fissuring from several miles around centers in Hearts Desire shoot, forming a mineralization of one to two hundred feet wide. Copper assayed from 5% to 20% with \$9.00 in gold per ton- iron gossan-See copy of Godbe report in your file-
24. Ore: Positive & Probable, Ore Dumps, Tailings
Refer to Godbe report-

- 24A. Dimensions and Value of Ore body
Refer to Godbe report

25. Mine, Mill Equipment & Flow-Sheet

An enclosing a copy for
from the Godbe report for
your convenience.

26. Road Conditions, Route

A desert road, which is passable for any make of car. A Bulldozer can make a first class road in short time. Road runs south and west of Bouse, station on Santa Fe R R. Information can be obtained at Shell Service Sta at Bouse.

27. Water Supply

Water can be developed on property- water has been encountered on adjoining properties at about 300 feet. Colorado River is 25 miles west.

28. Brief History

Several hundred tons of material have been mined from the surface and shipped- the shipments averaging about 15% copper and \$9.00 gold. It was discovered about 25 years ago, operated by Mr James B Baker, of Los Angeles,

29. Special Problems, Reports Filed

Engineers Report filed with Department of Mineral Resources, State of Arizona.

30. Remarks Have had the opinion and advise from several mining engineers and they state it can be developed into a good mcopper mine.

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

For Sale- \$100,000.00 A reasonable deal can be worked out with responsible parties. Contact Henry L Jackson, at his residence 232 North Imperial Ave., Brawley- Telephone 1016.

32. Signature *Henry L. Jackson*

33. Use additional sheets if necessary.



232 North Imperial Ave.,
Brawley, California
Jan 3, 1959

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

To the Director

On July 10, 1958, I mailed you a report on

PLUMOSA MINE (Yuma County) Copper ore
and in the report I stated that D J Miller, of Covina,
California, had permission to go upon this property.
He is no longer connected with it.

Please direct any and all inquiries to me only.

At various times people known or unknown to us have
claimed that samples had been taken from this property
for analysis, and assays.

Please make note in your files that no one at this time
excepting me or members of my family have any rights on
our Plumosa Mining Property.

Very truly

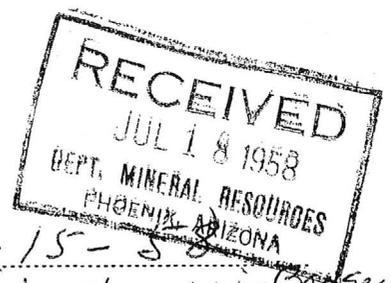
Olive Jackson

OLIVE JACKSON

(Mrs Henry L Jackson)

s

DEPARTMENT OF MINERAL RESOURCES
State of Arizona
MINE OWNER'S REPORT



Date 7-15-58

1. Mine: PLUMOSA Copper Property (also known in Bouse as Jacksons Copper Property)
2. Location: Sec. 13¹⁸ Twp. 7N Range 17+18W Nearest Town. Bouse Distance 6 mi.
Direction. West Nearest R.R. A.T. + Santa Fe Distance 6 mi.

Road Conditions.....

3. Mining District and County: PLUMOSA OR Bouse min. Dist - YUMA.

4. Former Name of Mine:.....

5. Owner: Olive JACKSON ✓
Address: 232 No Imperial Ave Brawley, Calif.

6. Operator:.....
Address:.....

7. Principal Minerals: Copper

8. Number of Claims: Lode 6 Patented ✓ Unpatented.....
Placer..... Patented..... Unpatented.....

9. Type of Surrounding Terrain: Very rough

10. Geology and Mineralization: AN Old Engineers (1926) Report gave Andesite and schist with intrusions of diorite and reported copper from 1/3 of 1% to 3/4 of 1% in all samples + some ore shipped & ran 15% copper + 9⁰⁰ gold - (a copy of this report by S.T. Godbe should be on file in your office.) A recent test of samples by D.I. Miller, Covina Calif was reported to us as from 3/4 of 1% to 15 1/2 % Copper - in May, 1958.

11. Dimension and Value of Ore Body: The property has not been worked since we have owned it - Various interested parties have taken samples of ore -

Please give as complete information as possible and attach copies of engineer's reports, shipment returns, maps, etc. if you wish to have them available in this Department's files for inspection by prospective lessors or buyers.

12. Ore "Blocked Out" or "In Sight": NONE

Ore Probable: 2
1

13. Mine Workings—Amount and Condition:

No.	Feet	Condition
Shafts.....		
Raises.....		
Tunnels.....		
Crosscuts.....		
Stopes.....		

14. Water Supply: 2

15. Brief History: My husband bought this property from Yuma Co in 6/4/1940 & we pay taxes - I now own the property - AND pay the Taxes - A copy of latest notice is hereto attached for your records - Trespassers are frequently on this property. The only authorized Person by our Permission to enter upon this property, is D.L. Miller of

16. Remarks: Covina, Calif. ANY other person who goes on this property is trespassing - unless with our written consent. ON our last trip there we found signs of trespass. we last visited this property in Feb 1954, but have not worked it or shipped ore.

17. If Property for Sale, List Approximate Price and Terms: See D.L. Miller, Covina, or Olive Jackson, Brawley - we prefer to operate this property & will do so when Copper gets to 30¢ !! we hope!

18. Signature: Olive Jackson - but will sell it subject to contract 232 No. Imperial Ave, Brawley, Calif [with D.L. Miller]

OLIVE JACKSON

LICENSED REAL ESTATE BROKER

TELEPHONE 1016 232 NO. IMPERIAL AVE.

BRAWLEY, CALIFORNIA

June 9, 1949

Handwritten signature/initials

Mr. Charles H Dunning
Director Department of Mineral Resources
Phoenix, Arizona

Dear Sir:

In the April Pay Dirt which we had filed today we saw a notice that after July 1st, field work will be restricted to one man.

In October, 1948, we applied for core-drilling to be made on a copper property which we own near Bouse, Arizona, Section 13, T 7 N, R 18/17 W, GSRM, Yuma County, Arizona, Survey # 2561.

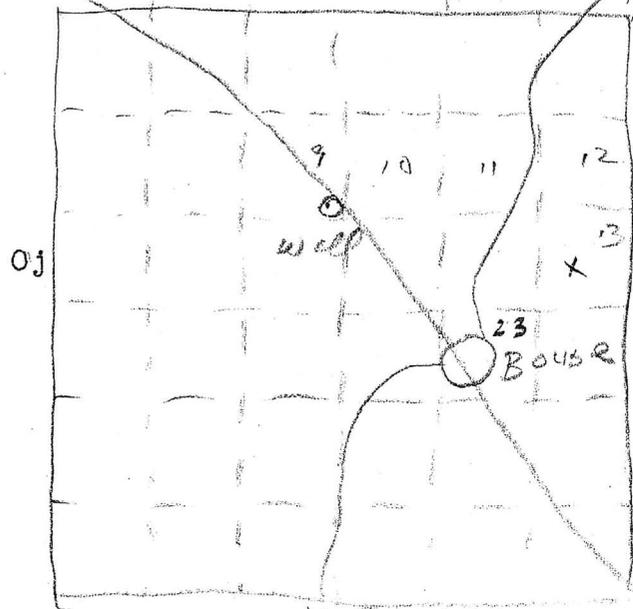
To date we have had no report on our application which was sent to Mr. J. H. Hedges, Chief, Tucson Branch, Mining Division, Bureau of Mines, Tucson, Arizona.

We filed copies of engineer's report made in 1926 and 1927 by S T Godbe, with Mr. Hedges.

We make this as a formal application for examination of our property above. We can be reached by phone or the address in heading of this letter any time of the day or night. We can meet your field man at Bouse, Arizona at his convenience, before July 1, 1949. If he can inspect this property before the dead-line please notify us at once.

70 Parker

TO SWANSON



Respectfully,

Henry L Jackson
Henry L Jackson
by Mrs Jackson

TO HOPE

JA Bumblebee

Copy

①

Los Angeles, California
December 20th. 1927

Plumosa Copper Company
709 Hill Street Building
Los Angeles, California.

Gentlemen;-

My last report of the drill-hole operations on the "Hearts Desire" claim of your company, made November 1st, 1927 state that the cores indicated getting nearly thru the Monzonite intrusive, and into the regular gossan again.

This was at a depth of 650 feet.

The hole has since been drilled to a depth of 779 feet without getting through this Monzonite. The drilling indicates the ledge to have a dip of close to 80° from the horizon, so that the bottom of the hole should be within a few feet of the schist footwall. This eliminates the probability of any ledge formation to the west of the Monzonite, and practically proves the Monzonite to be in contact with the schist footwall, thus becoming the footwall of the ledge, instead of a slice down the middle, as was first expected and hoped.

Had we known its size and position, we could have safely stopped the hole at 500 feet where the Monzonite was first encountered; as drilling vertically below this point would likely not prove anything more than that in barren schist footwall. However we had to learn this by drilling, and it illustrates the difficulty of pointing the first hole to the best possible advantage where all the conditions are not known. In other respects the location of the hole was well chosen, and it apparently would have reached and penetrated the sulphide zone nearly an hundred feet in the ledge before the schist footwall was out, if the schist had continued as indicated on the surface, and would have thus proven the ledge at the important point aimed.

I enclose a sketch which illustrates the geologic conditions made apparent by the drilling to date.

The core showed the same oxidation and leaching of the ledge matter at the depth of 500 feet, where it was left, as it did at the surface. The gossan, however was rather better, especially that of a width of about 40 feet near the center of the ledge, which is remarkably free from gangue, indicating a 30% copper content in the chalcopyrite primary before oxidation and leaching.

(Plumosa Copper Co)

The core encountered the first sulphides at a depth of 650 feet, in about the middle of the Monzonite, which is now indicated to have a depth of about 50 feet. This monzonite dyke has a different age and source of mineralization to that of the diorite of the ledge, however, and is likely not to contain much primary copper.

At a depth of 692 feet below the surface in the monzonite, the core gave evidence of the permanent sulphide zone of the ledge, in the large quantity of sulphurous gas in the water circulated in the hole. At times this odor of gas was very strong. This odor of the circulating water continued from the depth of 692 feet down as far as the hole was drilled, 779 feet.

This is about the depth at which we expected the sulphide zone, and gives, not only evidence of it, but of a very extensive body of sulphides near this point.

CONCLUSIONS AND RECOMMENDATIONS.

The next hole can now be pointed from the surface on the east side of the ledge, at such an angle, as to reach approximately the hanging wall in a distance of about 800 feet, and to continue to the footwall in about 1000 feet from the surface.

Such a hole would thus aim to diagonally cross-cut the ledge from hanging to footwall and below the sulphide zone, directly under the large rich leached gossan shown at the surface, and for 500 feet in the first hole, and thus attain the important development for which we started.

The "Okell" rig can drill only vertical holes, and it will be, therefore, necessary to substitute diamond drilling for this work which is recommended for the next step.

Yours very truly,

/Signed/ S. T. Godbe

Henry S. Jackson
Brawley Calif

✓

S. T. Godbe was born in Salt Lake City in 1858. He received his education in the schools and Universities of Utah. Had a short course in Owens College, Manchester, England, and two years finishing course in mathematics, chemistry and geology under Professor F. S. Stein of Ann Arbor University, Michigan.

Has had 30 years mining experience as follows: First five years as Superintendent of the Cave Mine in Utah; Eight years as Superintendent of Mines and Smelter of the Pioche Consolidated Mining and Reduction Company of Nevada; Three years as President and Manager of the Keystone Mining Company of Nevada; One year examining properties on the Pacific Coast, mostly on the Mother Lode, but some in British Columbia and Mexico; Two years as Superintendent of the Chariot, Chispa and Johnnie Gold Mines and Mills of Nevada: Two years examining Nevada mining properties and as Consulting Engineer for the Bamberger De Lamar Gold Mining of Nevada: Two years as Superintendent of the Cashier Gold Mining Company of Inyo County, California: Two years as Consulting Engineer of the Harris Copper Company of Nacosari, Mexico; Six months Superintending the drilling of the Inspiration Miami Copper Company's property in Arizona, now known as the Louis De Cr property: Reported favorably on this property as a prospect, selected the surface formation and started the drilling that has since "blocked out" with drill holes, shafts and workings 150 million tons of commercial ore and is still opening more, not having reached the limits of the ore, a disseminated copper of the Utah Copper type and grade, but differing in being three hundred feet below the surface.

Property of
Henry L. Jackson
Brawley, Calif.

YUI A CO., ARIZONA 1957 Tax Roll

N^o 8144

Jackson, Olive (Sole)
 222 N. Imperial Ave.
 Brawley, California

Blind Indian
 Heart Desire
 Leon Giant
 Little Maude; Margaret Pillam
 Little Grace

FIRST HALF

Date _____

Paid by _____

Posted by _____

SECOND HALF or WHOLE

Date _____

Paid by _____

Posted by _____

(all taxes paid to date)
 (Apr 9 1957)

VALUATIONS			
R. E.	Bldg.	P. P.	Acres
985			97.56

AMOUNTS				
R. E. & Bldg.	P. P.	Irrig.	Other	TOTAL

	WHOLE	FIRST HALF	SECOND HALF	
State & County	23	56		
Union High School <i>N</i>	15	20		
Sch. Dist. No. <i>26</i>	3	44		
Sch. Dist. No.				
Hospital				
City of Yuma				
Parker Fire Dept.				
Town of Somerton				
Weed Dist.				
Irrig. Dist.				
TOTAL TAX	42	20		
Interest				
Penalties				
TOTAL RECEIPTS				

PENALTY AFTER DELINQUENT—10% per Annum on 1st Half. 10% per Annum on 2nd Half. Part of Month figured as a Whole Month.

Taxes Become Due and Payable on 1st Monday in September and Become Delinquent:
 1st Half after 1st Monday in November
 2nd Half due 1st Monday in March and delinquent 1st Monday in May of Following Year.
NO NOTICE SENT FOR 2nd HALF

Los Angeles, Calif. June 2nd.1926

Mr. James B. Baker
801 Hill Street Building
Los Angeles, California.

Dear Sir:-

I have recently examined the property of the Plumosa Copper Company, and herewith submit my report.

L O C A T I O N

The property is situated in the low foot hills of the Plumosa Range, in Plumosa Mining District, Yuma County, Arizona. Its nearest railway station is Bouse on the A. T. & Santa Fe Railway. It is six miles west of Bouse and about three hundred miles east of Los Angeles. Its elevation is about 1000 feet above sea level and 100 feet above Bouse with which it is connected by wagon and auto road. A spur from a point on the railroad a few miles northwest of Bouse, can reach the property in a distance of $2\frac{1}{2}$ miles on a 2% grade.

PROPERTY

The property consists of two groups known as the "Hearts Desire", and "Heckler". These being now embraced in one contiguous group, consisting of nine (9) mining claims, six of which are patented, covering an area of about 160 acres, as shown in the accompanying map.

IMPROVEMENTS

These consist of an office, boarding house and bunk house for the accomodation of about twenty men.

Developments

Consist of numerous outs and four shafts 20 feet, 30 feet, 50 feet and 210 feet in depth respectively; the later is a vertical, two compartment, well timbered shaft, in good condition and well located as a working shaft.

It is observable in this group that all ^{of} the claims, except two in the nine, have good sized and some of them very large outcrops of oxidized ferruginous copper gossan, carry copper and gold value, the bulk of the ground evidently having been located not merely for surface purposes, but to cover valuable ledges showing on the surface.

The cost of locating, patenting, improvements and development has been about \$30,000.00.



(Copy)

MICA GIANT

Four claims - 26 miles south of Kingman.
Maynard district, Hullapai mountains. 4500 ft. elev.
Auto road within one mile of mine.

GEOLOGY:

Country rock is precambrian granite and schist. Vein is pigmatite and quartz. The vein is at least 70 feet wide and crops for $1\frac{1}{2}$ miles in easterly and westerly direction and is crosscut by canyons exposing ore to a depth of 150 ft.

DEVELOPMENT:

Open cuts and pits - one large cut 20 ft. floor, 6 ft. wide with 20ft. face showing exceptionally good mica. Vein estimated to carry from 20 to 30% mica (muscovite). From 10 to 15% of this is large books averaging six to eight inches in diameter. About 40 tons on dump.

Blasting releases mica from vein matter so that no crushing is necessary. Ample water supply, scrub oak and manzanita.

The Arizona Bureau of Mines described the samples of this mica as the clearest and largest sheets of mica reported in Arizona.

The above was compiled from miner's memo supplied to C. R. L. Crenshaw, Los Angeles. (7/10/39) RE-4473

23. Geology & Mineralization Formation is andesite and schist, wide zones, with intrusions of diorite. Several fissures occur cutting the formation at nearly right angles. One outcrop in Hearts Desire claim, a convergency of fissuring from several miles around centers in Hearts Desire shoot, forming a mineralization of one to two hundred feet wide. Copper assayed from 5% to 10% with \$9.00 in gold per ton- iron gossan-See copy of Godbe report in your file-

24. Ore: Positive & Probable, Ore Dumps, Tailings
Refer to Godbe report-

24A. Dimensions and Value of Ore body

Refer to Godbe report

25. Mine, Mill Equipment & Flow-Sheet

26. Road Conditions, Route

A desert road, which is passable for any make of car. A Bulldozer can make a first class road in short time. Road runs south and west of Bouse, station on Santa Fe R R. Information can be obtained at Shell Service Sta at Bouse.

27. Water Supply

Water can be developed on property- water has been encountered on adjoining properties at about 300 feet. Colorado River is 25 miles west.

28. Brief History

Several hundred tons of material have been mined from the surface and shipped- the shipments averaging about 15% copper and \$9.00 gold. It was discovered about 25 years ago, operated by Mr James B Baker, of Los Angeles,

29. Special Problems, Reports Filed

Engineers Report filed with Department of Mineral Resources, State of Arizona.

30. Remarks Have had the opinion and advise from several mining engineers and they state it can be developed into a good copper mine.

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

For Sale- \$100,000.00 A reasonable deal can be worked out with responsible parties. Contact Henry L Jackson, at his residence 232 North Imperial Ave., Brawley- Telephone 1016.

32. Signature

Henry L. Jackson

33. Use additional sheets if necessary.

An enclosing a copy for from the Godbe report for your convenience.



232 North Imperial Ave.,
Brawley, California
Jan 3, 1959

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

To the Director

On July 10, 1958, I mailed you a report on

PLUMOSA MINE (Yuma County) Copper ore
and in the report I stated that D J Miller, of Covina,
California, had permission to go upon this property.
He is no longer connected with it.

Please direct any and all inquiries to me only.

At various times people known or unknown to us have
claimed that samples had been taken from this property
for analysis, and assays.

Please make note in your files that no one at this time
excepting me or members of my family have any rights on
our Plumosa Mining Property.

Very truly

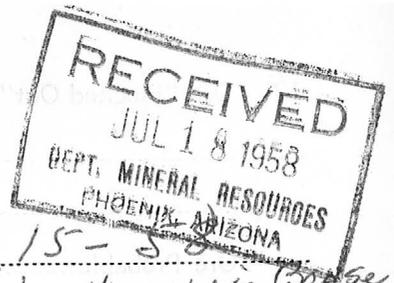
Olive Jackson

OLIVE JACKSON

(Mrs Henry L Jackson)

s

DEPARTMENT OF MINERAL RESOURCES
State of Arizona
MINE OWNER'S REPORT



Date: 7-15-58

1. Mine: PLUMOSA Copper Property (also known in Bouse as Jacksons Copper Property)
 2. Location: Sec. 13¹⁸ Twp. 7N Range 17+18W Nearest Town Bouse Distance 6 mi
 Direction west Nearest R.R. A.T. + Santa Fe Distance 6 mi

Road Conditions:

3. Mining District and County: Plumosa or Bouse Min. Dist - YUMA.
 4. Former Name of Mine:

5. Owner: Olive JACKSON
 Address: 232 No Imperial Ave Brawley, Calif.

6. Operator:
 Address:

7. Principal Minerals: Copper

8. Number of Claims: Lode 6 Patented Unpatented
 Placer Patented Unpatented

9. Type of Surrounding Terrain: Very rough

10. Geology and Mineralization: AN old Engineers (1936) Report gave Andesite and schist with intrusions of diorite and reported copper from 1/3 of 1% to 3/4 of 1% in all samples + some are shipped & ran 15% copper + 900 gold (a copy of this report by S.T. Godbee should be on file in your office.) A recent test of samples by D.I. Miller, Covina Calif was reported to us as from 3/4 of 1% to 15 1/2% copper - in May, 1958.

11. Dimension and Value of Ore Body: The property has not been worked since we have owned it - various interested parties have taken samples of ore -

Please give as complete information as possible and attach copies of engineer's reports, shipment returns, maps, etc. if you wish to have them available in this Department's files for inspection by prospective lessors or buyers.

12. Ore "Blocked Out" or "In Sight": None

Ore Probable: 2
1

13. Mine Workings—Amount and Condition:

No.	Feet	Condition
Shafts.....		
Raises.....		
Tunnels.....		
Crosscuts.....		
Stopes.....		

14. Water Supply: 2

15. Brief History: My husband bought this property from Yuma Co in 6/4/1940 & we pay taxes - I now own the property - AND pay the Taxes - A copy of latest notice is hereto attached for your records - Trespassers are frequently on this property. The only authorized Person by our Permission to enter upon this property is D.J. Miller of

16. Remarks: Covina, Calif. ANY other person who goes on this property is trespassing - Unless with our written consent. On our last trip there we found signs of trespass. we last visited this property in Feb 1954, but have not worked it or shipped ore.

17. If Property for Sale, List Approximate Price and Terms: See D.J. Miller, Covina, or Olive Jackson, Brawley - we prefer to operate this property & will do so when Copper gets to 30¢ !! we hope!

18. Signature: Olive Jackson - but will sell it Subject to contract 232 No. Imperial Ave, Brawley, Calif. [with D.J. Miller]

OLIVE JACKSON

LICENSED REAL ESTATE BROKER

TELEPHONE 1016 232 NO. IMPERIAL AVE.

BRAWLEY, CALIFORNIA

June 9, 1949

after July

Mr. Charles H Dunning
Director Department of Mineral Resources
Phoenix, Arizona

Dear Sir:

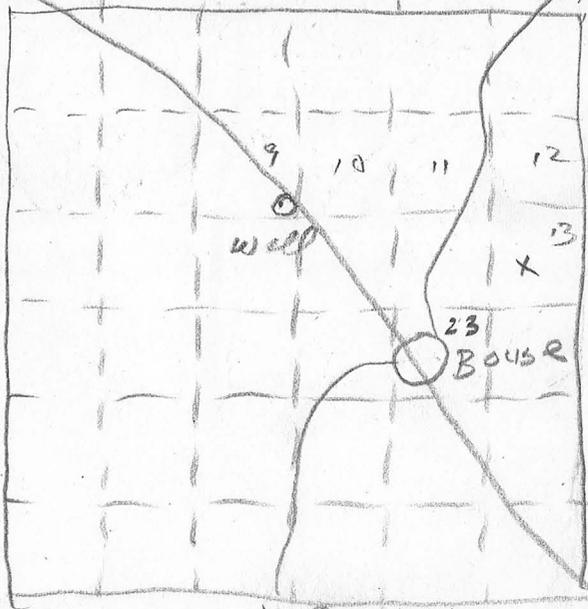
In the April Pay Dirt which we had filed today we saw a notice that after July 1st, field work will be restricted to one man.

In October, 1948, we applied for core-drilling to be made on a copper property which we own near Bouse, Arizona, Section 13, T 7 N, R 18/17 W, GSRM, Yuma County, Arizona, Survey # 2561.

To date we have had no report on our application which was sent to Mr. J. H. Hedges, Chief, Tucson Branch, Mining Division, Bureau of Mines, Tucson, Arizona.

We filed copies of engineer's report made in 1926 and 1927 by S T Godbe, with Mr. Hedges.

We make this as a formal application for examination of our property above. We can be reached by phone or the address in heading of this letter any time of the day or night. We can meet your field man at Bouse, Arizona at his convenience, before July 1, 1949. If he can inspect this property before the *Parke* dead-line please notify us at once.



Respectfully,

Henry L Jackson
Henry L Jackson
by Mrs Jackson *09*

TO HOPE

JO Quartzite

OLIVE JACKSON

LICENSED REAL ESTATE BROKER

TELEPHONE 1016 232 NO. IMPERIAL AVE.

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June 9, 1949

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Director Department of Mineral Resources
Phoenix, Arizona

Dear Sir:

In the April Pay Dirt which we had filed today we saw a notice that after July 1st, field work will be restricted to one man.

In October, 1948, we applied for core-drilling to be made on our property which we own near House, Arizona, Section 17, T. 1 N. R. 18 W. G. 2 R. Yuma County, Arizona, Survey 2501.

To date we have had no report on our application which was sent to Mr. N. Hedges, Chief, Tucson Branch, Mineral Division, Bureau of Mines, Tucson, Arizona.

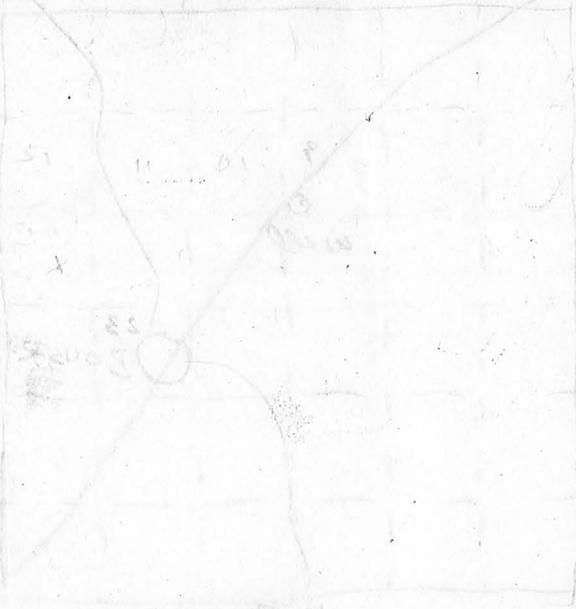
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before July 1, 1949. If we can inspect this property before the dead-line please notify us at once.

Respectfully,

Henry L. Jackson
Henry L. Jackson
by Mrs. Jackson



①

Copy

Los Angeles, California
December 20th. 1927

Plumosa Copper Company
709 Hill Street Building
Los Angeles, California.

Gentlemen;-

My last report of the drill-hole operations on the "Hearts Desire" claim of your company, made November 1st, 1927 state that the cores indicated getting nearly thru the Monzonite intrusive, and into the regular gossan again.

This was at a depth of 650 feet.

The hole has since been drilled to a depth of 779 feet without getting through this Monzonite. The drilling indicates the ledge to have a dip of close to 80° from the horizon, so that the bottom of the hole should be within a few feet of the schist footwall. This eliminates the probability of any ledge formation to the west of the Monzonite, and practically proves the Monzonite to be in contact with the schist footwall, thus becoming the footwall of the ledge, instead of a slice down the middle, as was first expected and hoped.

Had we known its size and position, we could have safely stopped the hole at 500 feet where the Monzonite was first encountered; as drilling vertically below this point would likely not prove anything more than that in barren schist footwall. However we had to learn this by drilling, and it illustrates the difficulty of pointing the first hole to the best possible advantage where all the conditions are not known. In other respects the location of the hole was well chosen, and it apparently would have reached and penetrated the sulphide zone nearly an hundred feet in the ledge before the schist footwall was out, if the schist had continued as indicated on the surface, and would have thus proven the ledge at the important point aimed.

I enclose a sketch which illustrates the geologic conditions made apparent by the drilling to date.

The core showed the same oxidation and leaching of the ledge matter at the depth of 500 feet, where it was left, as it did at the surface. The gossan, however was rather better, especially that of a width of about 40 feet near the center of the ledge, which is remarkably free from gangue, indicating a 30% copper content in the chalcopyrite primary before oxidation and leaching.

-1-

S. T. Godbe was born in Salt Lake City in 1858. He received his education in the schools and Universities of Utah. Had a short course in Owens College, Manchester, England, and two years finishing course in mathematics, chemistry and geology under Professor F. S. Stein of Ann Arbor University, Michigan.

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Property of
Henry L. Jackson
Brawley, Calif.

ASSESSED

YUMA CO., ARIZONA 1957 Tax Roll

Nº 8144

Jackson, Olive (Sole)
232 N. Imperial Ave.
Brawley, California

Blond Indian
Heart Desire
Iron Giant
Little Maude; Margaret Pillam
Little Grace

*90-1771
Yuma*



FIRST HALF

Date _____

Paid by _____

Posted by _____

SECOND HALF or WHOLE

Date _____

Paid by _____

Posted by _____

*(all taxes paid to date
(Apr 9-1958))*

VALUATIONS

R. E.	Bldg.	P. P.	Acres
985			97.56

AMOUNTS

R. E. & Bldg.	P. P.	Irrig.	Other	TOTAL

WHOLE

FIRST HALF

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NO NOTICE SENT FOR 2nd HALF

DEPT. MINERAL RESOURCES
RECEIVED
SEP 17 1942
PHOENIX, ARIZONA

Los Angeles, Calif. June 2nd. 1926

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Dear Sir:-

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L O C A T I O N

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PROPERTY

The property consists of two groups known as the "Hearts Desire", and "Heckler". These being now embraced in one contiguous group, consisting of nine (9) mining claims, six of which are patented, covering an area of about 160 acres, as shown in the accompanying map.

IMPROVEMENTS

These consist of an office, boarding house and bunk house for the accomodation of about twenty men.

Developments

Consist of numerous cuts and four shafts 20 feet, 30 feet, 50 feet and 210 feet in depth respectively; the later is a vertical, two compartment, well timbered shaft, in good condition and well located as a working shaft.

It is observable in this group that all⁹ of the claims, except two in the nine, have good sized and some of them very large outcrops of oxidized ferruginous copper gossan, carry copper and gold value, the bulk of the ground evidently having been located not nearly for surface purposes, but to cover valuable ledges showing on the surface.

The cost of locating, patenting, improvements and development has been about \$30,000.00.

(Copy)

MICA GIANT

Four claims - 26 miles south of Kingman.
Maynard district, Hullapai mountains. 4500 ft. elev.
Auto road within one mile of mine.

GEOLOGY:

Country rock is precambrian granite and schist. Vein is pigmatite and quartz. The vein is at least 70 feet wide and crops for $1\frac{1}{2}$ miles in easterly and westerly direction and is crosscut by canyons exposing ore to a depth of 150 ft.

DEVELOPMENT:

Open cuts and pits - one large cut 20 ft. floor, 6 ft. wide with 20ft. face showing exceptionally good mica. Vein estimated to carry from 20 to 30% mica (muscovite). From 10 to 15% of this is large books averaging six to eight inches in diameter. About 40 tons on dump.

Blasting releases mica from vein matter so that no crushing is necessary. Ample water supply, scrub oak and manzanita.

The Arizona Bureau of Mines described the samples of this mica as the clearest and largest sheets of mica reported in Arizona.

The above was compiled from miner's memo supplied to C. R. L. Crenshaw, Los Angeles. (7/10/39) RE-4473

(Plumosa Copper Co)

The core encountered the first sulphides at a depth of 650 feet, in about the middle of the Monzonite, which is now indicated to have a depth of about 50 feet. This monzonite dyke has a different age and source of mineralization to that of the diorite of the ledge, however, and is likely not to contain much primary copper.

At a depth of 692 feet below the surface in the monzonite, the core gave evidence of the permanent sulphide zone of the ledge, in the large quantity of sulphurous gas in the water circulated in the hole. At times this odor of gas was very strong. This odor of the circulating water continued from the depth of 692 feet down as far as the hole was drilled, 779 feet.

This is about the depth at which we expected the sulphide zone, and gives, not only evidence of it, but of a very extensive body of sulphides near this point.

CONCLUSIONS AND RECOMMENDATIONS.

The next hole can now be pointed from the surface on the east side of the ledge, at such an angle, as to reach approximately the hanging wall in a distance of about 800 feet, and to continue to the footwall in about 1000 feet from the surface.

Such a hole would thus aim to diagonally cross-cut the ledge from hanging to footwall and below the sulphide zone, directly under the large rich leached gossan shown at the surface, and for 500 feet in the first hole, and thus attain the important development for which we started.

The "Okell" rig can drill only vertical holes, and it will be, therefore, necessary to substitute diamond drilling for this work which is recommended for the next step.

Yours very truly,

/Signed/ S. T. Godbe

Henry L. Jackson
Brawley Calif

✓