



## **CONTACT INFORMATION**

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The following file is part of the

Arizona Department of Mines and Mineral Resources Mining Collection

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PRINTED: 08/07/2001

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: HACKBERRY

ALTERNATE NAMES:

PATENTED CLAIMS MS 909

YAVAPAI COUNTY MILS NUMBER: 1040B

LOCATION: TOWNSHIP 12 N RANGE 1 E SECTION 17 QUARTER S2

LATITUDE: N 34DEG 24MIN 54SEC LONGITUDE: W 112DEG 16MIN 23SEC

TOPO MAP NAME: POLAND JUNCTION - 7.5 MIN

CURRENT STATUS: PRODUCER

COMMODITY:

GOLD  
COPPER  
SILVER  
LEAD  
ZINC

BIBLIOGRAPHY:

USGS POLAND JUNCTION QUAD  
BLM MINING DISTRICT SHEET 14  
YAVAPAI MAGAZINE MAR. 1918 P 4-6 SHARLOT HALL  
MUSEUM PRESCOTT, AZ  
ADMMR HACKBERRY MINE FILE  
ADMMR PROD. POSSIBILITIES OF THE MARGINAL  
COPPER MINES IN AZ 1941 P 69  
ADMMR HACKBERRY MINE COLVO FILE



03/20/90

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES FILE DATA

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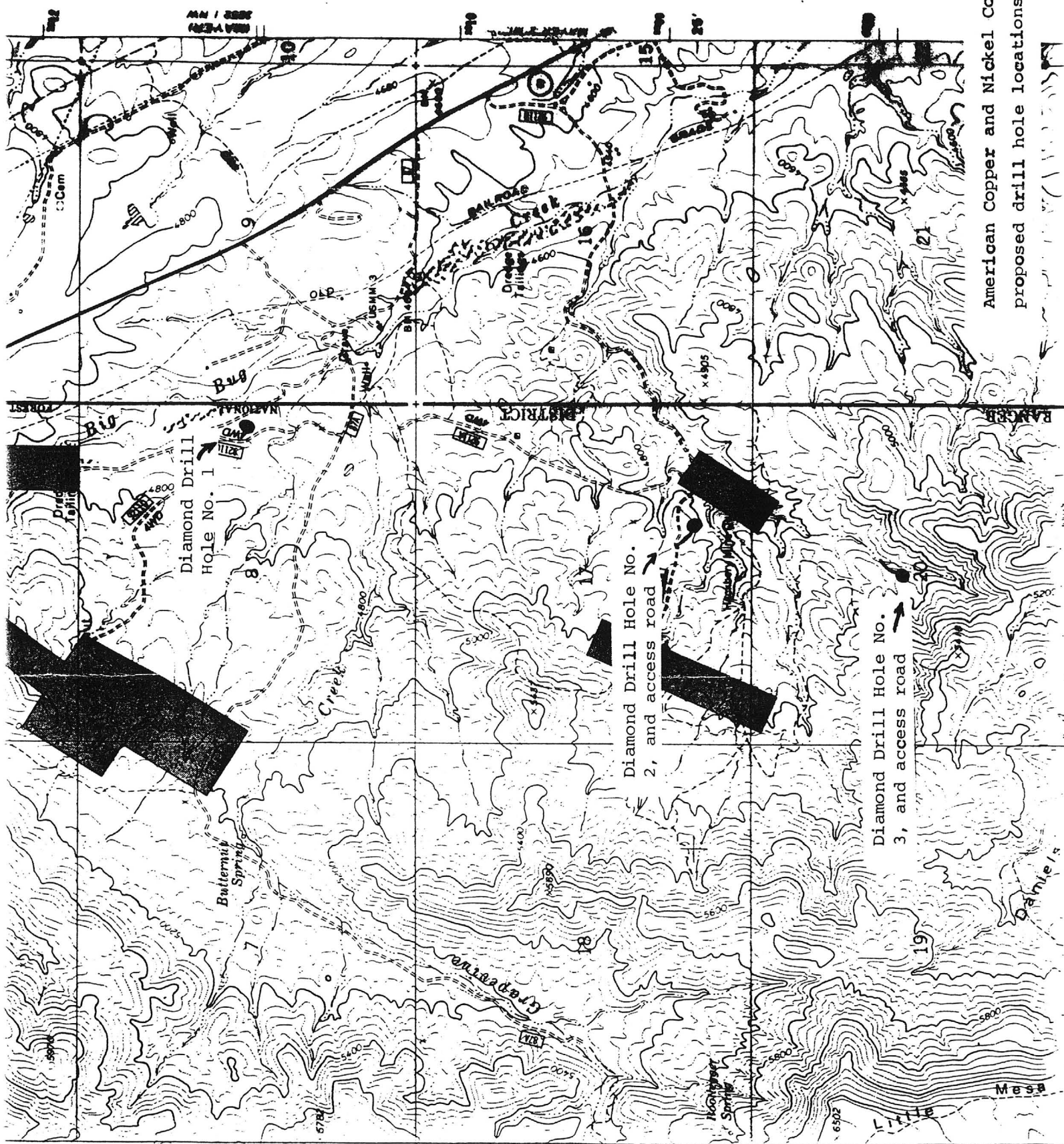
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ADMMR HACKBERRY MINE COLVO FILE



Diamond Drill Hole No. 1

Diamond Drill Hole No. 2, and access road

Diamond Drill Hole No. 3, and access road

American Copper and Nickel Company,  
proposed drill hole locations.

M. Gemmill reported:

May 1, 1957

Hackberry & Boggs ✓

IDLE

Fred Gibbs ✓  
356 Hassayampa Dr.  
Prescott, Ariz. ✓

HACKBERRY MINE

YAVAPAI COUNTY

3 miles northwesterly of Mayer, Arizona.

Owner - Fred Gibbs and Associates - Prescott, Arizona.

Approximate production - 1943-1945 -

1,900,000 lbs. of zinc; 719,000 lbs. lead; 385,950 lbs. copper

53,160 ozs. silver; 1,136 ozs. gold.

This mine was the chief producer of zinc-lead amongst the dormant properties of this section.

The orebodies were developed and mined out to a vertical depth of 700 feet, below which they were found to be too small for profitable operation.

Possibilities for future production are scant.

Oct. 1950

Signed: L. L. Farnham

HACKBERRY MINE

YAVAPAI COUNTY

ABM Bull. 137 p. 35

USGS Bull. 782

Production Possibilities of the Marginal  
Copper Mines in Arizona, 1941, p. 69

De Soto Mine (file)

Arizona Mineral Commodity Update, dated 11-3-77, by D.D. Rabb, Bureau of Geology and  
Mineral Technology. (filed in Zinc commodity file)

U.S.G.S. Bulletin 1336, p. 73

MAPS - Upstairs in the ABM rolled file boxes - Underground workings, a map with assays

BOGGS

Au, Cu

Yavapai

13 - 5

T 12 N, R 1 E

Fred Gibbs, Prescott

HACKBERRY MINE

Fred Gibbs  
Prescott, Ariz.

5/16 - 1st

Complete

1937 magma	602.5 T.	40733.9 Lk. Cu
1938 magma	308.3	12318.5
1939 magma	76.4	5837.1
R.D.C.	176.0	11898.0
1940 magma	<u>57.5</u>	<u>6036.7</u>
	1220.7	76924.2

HACKBERRY MINE

Pb, Cu, Zn, Au, Ag

Yavapai

13 - 5

T 12 N, R 1 E

L. P. Farnham, Mayer

NAME OF MINE: HACKBERRY

OWNER: Liberty Hill Gold Mines, Inc.,

COUNTY: YAVAPAI

DISTRICT: BIG BUG

METALS: CU, PB, ZN

OPERATOR AND ADDRESS:

MINE STATUS

DATE:		DATE:	
5/1/44	Fred Gibbs, Rt. 1, Box 115A Prescott	5/1/44	Shipping to Iron King
	L. L. Farnham, Mgr. Mayer, Arizona	4/45	Prep. to close down
9/46	Fred Gibbs, Sunnyslope, Prescott	9/46	Developing

YAVAPAI - Table Records

NUMBER <b>1040B</b>	FILE <b>F</b>	CONT <b>0</b>	CONT1 <b>N</b>	PRINAME <b>HACKBERRY</b>					
ALTNAME1 <b>PATENTED CLAIMS MS 909</b>				ALTNAME2					
ALTNAME3				ALTNAME4					
ALTNAME5				ALTNAME6					
CURSTAT <b>PRODUCER</b>	MNAME <b>POLAND JUNCTION - 7.5 MIN</b>			NLATDEG <b>34</b>	NLATMIN <b>24</b>				
NLATSEC <b>54</b>	WLONGDEG <b>112</b>	WLONGMIN <b>16</b>	WLONGSEC <b>23</b>	TOWN <b>12 N</b>	RANGE <b>1 E</b>	SECTION <b>17</b>	QUARTER <b>S2</b>	COM1 <b>AU</b>	
MODI1	COM2 <b>CU</b>	MODI2	COM3 <b>AG</b>	MODI3	COM4 <b>PB</b>	MODI4			
COM5	MODI5	COM6	MODI6	COM7	MODI7				
ZN									
BIB1 <b>USGS POLAND JUNCTION QUAD</b>									
BIB2 <b>BLM MINING DISTRICT SHEET 14</b>									
BIB3 <b>YAVAPAI MAGAZINE MAR. 1918 P 4-6 SHARLOT HALL</b>									
BIB4 <b>MUSEUM PRESCOTT, AZ</b>									



HACKBERRY MINE

YAVAPAI COUNTY

Elmer C. Von Glahn, President, Golden Gate Mining Company (Incorporated in Arizona, 1959), P.O. Box 1-18, Wickenburg, Arizona, reported that his company had recently purchased the Hackberry mine (one patented claim) from Fred Gibbs of Prescott. He also has purchased some mill equipment (ball mill, classifier, some float cells, etc.) from a site in the Cherry Creek District and is now moving this onto the Hackberry property where he intends to conduct a custom milling operation, and also mill ore from the company's Hackberry dump. TPL Memo 3-6-61

---

Visited the Hackberry Mine of Golden Gate Mining Company. Elmer C. Von Glahn, President is completing installation of a 50 ton mill to work the old main dump. Forrest O. Dickey and two men are working on the mill and also sinking on a stringer (shaft is not 25' deep). TPL WR 4/15/61

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

(27)

SYMBOLS

- DL = Day Letter
- NT = Overnight Telegram
- LC = Deferred Cable
- NLT = Cable Night Letter
- Ship Radiogram

R. B. WHITE  
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

DAY264 32/36=TW WASHINGTON DC 29 500P

ARIZONA DEPARTMENT OF MINERAL RESOURCES=

413 HOME BUILDERS BLDG PHOENIX ARIZ= 1942 OCT 29 PM 3 28

PLEASE PHONE BILL GOHRINGS OFFICE AND ASK IF REPORT ON <sup>1942 OCT 29 PM 3</sup>  
 HACKBERRY MINE SENT TO RFC YET AND IF NOT WHEN WIRE BY  
 WESTERNUNION COLLECT TO R. P. M. DAVIS AT WILLARD EVERYTHING  
 HELD UP AWAITING REPORT=

BILL BROADGATE.

*Can guarantee nothing but report should be in Washington early next week.*

RFC R. P. M. COMPANY WILL APPRECIATE SUGGESTIONS FROM ITS PATRONS CONCERNING ITS SERVICE

DEPT. MINERAL RESOURCES  
RECEIVED  
NOV 20 1942  
PHOENIX, ARIZONA

CLASS OF SERVICE DESIRED	
DOMESTIC	CABLE
TELEGRAM	ORDINARY
DAY LETTER	URGENT RATE
SERIAL	DEFERRED
OVERNIGHT TELEGRAM	NIGHT LETTER
SPECIAL SERVICE	SHIP RADIOGRAM

Patrons should check class of service desired; otherwise the message will be transmitted as a telegram or ordinary cablegram.

# COPY OF WESTERN UNION TELEGRAM

NOVEMBER 18 1942

✓  
R P M DAVIS  
2356 HOLLYRIDGE DRIVE  
LOS ANGELES CALIFORNIA

YOUR CLASS B LOAN PROGRESSING NICELY. WILL GO TO THE BOARD  
FRIDAY BUT EXPECT CLOSING PAPERS WILL BE MAILED OUT IN ADVANCE  
PROBABLY TOMORROW.

BILL BROADGATE

Collect wire

COLLECT

CLASS OF SERVICE DESIRED	
DOMESTIC	CABLE
TELEGRAM	ORDINARY
DAY LETTER	URGENT RATE
SERIAL	DEFERRED
OVERNIGHT TELEGRAM	NIGHT LETTER
SPECIAL SERVICE	SHIP RADIOGRAM

Patrons should check class of service desired; otherwise the message will be transmitted as a telegram or ordinary cablegram.

# COPY OF WESTERN UNION TELEGRAM

Mr. R.P.M. DAVIS  
2356 Hollyridge Drive  
LOS ANGELES, CALIF.

HACKBERRY "B" LOAN PROGRESSING VERY NICELY. ~~XXXXXX~~ SEVERAL EXAMINERS OUT SICK HENCE DELAY BUT WILL BE TO LEGAL AND TO THE BOARD THE FIRST OF NEXT WEEK.

BILL BROADGATE

DEPT. MINERAL RESOURCES  
RECEIVED  
NOV 16 1942  
PHOENIX, ARIZONA

Handwritten initials: H.C.

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 1331

SYMBOLS

DL=Day Letter
NT=Overnight Telegram
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

CA211 42 GOVT=SN WASHINGTON DC 13 448P

1942 MAY 13 PM 3 33

CHARLES F WILLIS=

528 TITLE AND TRUST BLDG PHOENIX ARIZ=

REFERENCE MY LETTER MAY ONE HAVE BEEN ADVISED BY B J  
 SICKLER CHIEF PRIORITY SECTION POWER BRANCH WAR PRODUCTION  
 BOARD THAT APPLICATION FOR RATING SUBMITTED BY ARIZONA  
 POWER CORPORATION WAS APPROVED AND RATING WAS MAILED TO  
 ARIZONA POWER CORPORATION ON APRIL 28=

CARL HAYDEN.

28.

THE COMPANY WILL APPRECIATE SUGGESTIONS FROM ITS PATRONS CONCERNING ITS SERVICE

*Liberty Bell Co. names*

*W*  
*H.*

**United States Senate**

**MEMORANDUM**

Dec. 7, 1942

I shall have <sup>✓</sup>REM Davis on my neck tomorrow, as I just got a wire saying that he will be in by plane.

It does not seem to me that he stands much chance of getting by the Facilities Clearance Committee the way things are going, even if he gets an OK from Metals Reserve or RFC. WEM still ~~must~~ endorse the deal.

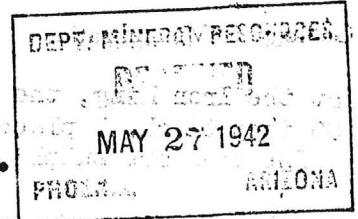
RECEIVED  
Bill  
DEC 10 1942  
PHOENIX, ARIZONA

*Q*

DEPARTMENT OF MINERAL RESOURCES  
STATE OF ARIZONA

FIELD ENGINEERS REPORT

Date May 20th, 1942.



Mine Hackberry Mine

Engineer A.C. Nebeker

District Big Bug

Location Prescott.

Former name Hackberry

Owner Divided

Address

Operator L. P. D. Limited

Address 2356 Hollywood Dr.  
Hollywood Calif.

President R. P. M. Davis

Gen. Mgr. L. P. Farnham

Mine Supt. Fred Gibbs

Mill Supt.

Principal Metals Copper, Lead, Zinc, Gold Silver Men Employed 10

Production Rate None at present

Mill: Type & Cap. Flotation mill at  
Golden Turkey Mine

Power: Amt. & Type Electric from Arizona Power Co.

Operations: Present Consists in dewatering the old shaft, so mine can be sampled and plan of development layed out.

There has been a new Headframe constructed and Hoist House, a Blacksmith shop and a pipe line down the canyon.

It all depends upon the results of the examination as to what the future operations will be.

Operations Planned

Number Claims, Title, etc.

15 claims and title is divided as to ownership.

Description: Topog. & Geog.

The hills are low with sharp canyons cut into them.

Mine Workings: Amt. & Condition

The property is opened by a vertical two compartment shaft 500 feet deep. Some drifting and some old stopes but the present operators can not give footage until the mine is dewatered and workings exposed to examination.



Geology & Mineralization

DEPARTMENT OF MINERAL RESOURCES

The country rock here is ~~schists~~ schists the same as found at the Iron King, the vein is a silicious dike with various widths from 3 feet to 30 feet thick. I places the vein over laps making a mineralized zone of 75 feet thick. The ores are sulphides of copper, lead, and zinc carrying some gold and silver.

Ore: Positive & Probable, Ore Dumps, Tailings

Now ore blocked out yet by present operator.

Mine, Mill Equipment & Flow Sheet

The Flotation Mill at the Golden Turkey will be repaired and put into shape to mill this ore.

It is planned to ship all Lead Concentrates to El Paso Texas All Zinc to Amarillo Texas.

Road Conditions, Route

Roads are good graded Auto roads, and the mine is 2 miles west of Meyer, Ariz.

Water Supply The mine will make plenty water for general mining operations.

Brief History

The Heckberry has a small shipping record of about \$20,000

Special Problems, Reports Filed

The problem now is to get the water out and develop enough ore for milling. The trucking of the ore from the mine to the mill at the Golden Turkey, and then trucking the concentrates to railroad will be a drain on profits. When the mine develops a large tonnage this can be over come by putting a mill closer to the mine.

Remarks

From all general appearances the Hackberry has a chance to make another Iron King.

There is no Salvage material around this property.

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

Signed.....

*A.C. Nebeker*  
A.C. Nebeker

Use additional sheets if necessary. Separate sheets on each problem.



ARIZONA DEPARTMENT OF MINERAL RESOURCES  
Capitol Building, Phoenix, Arizona

.S 2247

5-28-41

Name of property. ✓ **Hackberry**

Location and accessibility of property.

Big Bug Mining District, Yavapai County, Arizona.  
Two miles west of town of <sup>M</sup>ayer, Arizona.  
One mile from Santa Fe R.R. with which it is  
connected by good road.

History of ownership.

Originally belonged to Commercial Mining Company  
which was predecessor of present Phelps-Dodge Corp:  
Purchased by present owners from Phelps-Dodge  
Corp. in 1932.

Production history.

Commercial Mining Company mined and smelted in  
old Boggs smelter approximately 15,000 tons.  
Present owners have mined and shipped to custom  
smelters about 2,000 tons.

General geology (brief)

Schist replacement deposits in Yavapai schist.  
Shoots are parallel and overlapping in echelon fashion.

REPRODUCED FROM THE ORIGINAL RECORDS  
Arizona, Phoenix, Arizona

Ore occurrence.

Massive sulphides of iron, copper, lead and zinc. No shoots have yet been bottomed, - elliptical in shape along strike.

Ore reserve (quantities and values).

20,000 tons, - 0.10 Ag; 4.5 Ag; 2.5% Cu. 3.5% Pb; 6% Zn.

Accessory metals of value.

Development work done.

Vertical shaft 510 feet deep. 3,000 feet of drifts on five levels to 450 foot depth.

Plants (with capacity) already on property.

None.

Date

5-28-41

Signed

Jed Gibbs.

Arizona Department of Mineral Resources, Capitol Building, Phoenix, Arizona

5-23-41

QUESTIONNAIRE

Relating to survey of potential copper production from Arizona small and marginal mines for national defense purposes;

Name of mining property..... Hackberry Mine

Location..... Big Bug Mining District; Yavapai County; Arizona.

Ownership..... Fred Gibbs 50%; Estate of Hugh McKay 50%

Name of Manager..... Fred Gibbs

Post Office address..... 231 S.Mt.Vernon St; Prescott, Ariz;

Copper production (pounds) during each of the past five years:

1936..... none                      1937..... none                      1938..... 50,000

1939..... 25,000                      1940..... 5,000

1941 rate of copper production based upon first four months..... none

How much copper could this property produce annually

on a 14 cent price? ..... 875,000

on a 16 cent price? ..... 1,250,000

on an 18 cent price? ..... "

on a 20 cent price? ..... "

What price copper is necessary for this property? ..... 14¢ ..... cents per pound?

What plant facilities would be required and how much is the estimated cost in the event a 14 cent price could be assured? ..... Mine and mill plant having capacity of 50 tons per day. Estimated cost, - \$35,000.00

a 16 cent price could be assured? ..... 75 ton plant, - Cost \$50,000

18 cent price? ..... Same as for 16¢ price

20 cent price? ..... Same

For what length of time would assurance of price and sale of full production be necessary? ..... Three years

How long would it take for financing has been provided, before production on the above basis could be reached? **Nine months**

Does your organization have the facilities for raising the necessary capital to increase production to the amount stated? **No**

If not, do you believe that your company would be amenable and agreeable to government financing? **Yes**

Do you believe that you could finance the capital investment yourself on some such basis as a guarantee of sale of output at a fixed price and for a definite period, with damages to cover unamortized portion of capital investment in the event the government failed to take the output for the agreed upon time - or some similar arrangement? **Yes**

Please let us have your comments on the probability or possibility of your organization participating in such a program for national defense purposes.

**If we could receive a Class A loan for equipment purposes we would participate in such a program at the earliest possible time funds were available.**

What would be your ideas on financing and carrying out such a plan as is indicated by these questions? **Finance equipment loans and initial working capital thru the machinery of the Mine Loans Division of the R.F.C.**

Kindly list names and addresses of other potential copper producers in Arizona whose operations should be included within this survey.

**Lone Pine Mine. Owned by undersigned.**

**Blue Bell Mine. G.M.Colvocoresses, Agent. Phoenix, Ariz;**

Date **5-23-41**

Signed *Fred Gibbs*

DEPARTMENT OF MINERAL RESOURCES

RECEIVED

NOV 28 1947

DEPT. MINERAL RESOURCES

PHOENIX, ARIZONA

TO ALL PRODUCERS OF COPPER, LEAD and ZINC

This department and others are making strenuous efforts to bring about legislation which will help ameliorate the restrictions and difficulties faced by the producers of copper, lead and zinc, and other strategic minerals.

To assist in these efforts it is advisable that we have an authentic survey of the results of the President's veto of the Allen Bill, and the results that would take place if a new bill, such as the Russell Bill, were passed by Congress. The Russell Bill includes all strategic minerals.

While we have all learned to love questionnaires just as we love stomach ulcers, will you please give the answers in your best judgment to the following questions:

1. What was your approximate production in pounds per month for the period preceding the President's veto of the Allen Bill?

(Copper \_\_\_\_\_ Lbs.) (Lead \_\_\_\_\_ Lbs.) (Zinc \_\_\_\_\_ Lbs.)

2. What has been your average production per month since that veto has affected your price?

(Copper \_\_\_\_\_ Lbs.) (Lead \_\_\_\_\_ Lbs.) (Zinc \_\_\_\_\_ Lbs.)

3. What is your estimate of your production per month for the first few months of 1948 if prices remain as they are now and no premiums are in effect?

(Copper 8,000 Lbs.) (Lead \_\_\_\_\_ Lbs.) (Zinc \_\_\_\_\_ Lbs.)

4. What is your estimate of production per month if some incentive plan such as the Russell Bill were in effect?

(Copper 12,000 Lbs.) (Lead \_\_\_\_\_ Lbs.) (Zinc \_\_\_\_\_ Lbs.)

5. General remarks: Activities just prior to and just after veto were such that veto effect was meaningless. J. Gibbs.

An addressed envelope is enclosed for your convenience, but you will have to help with the stamp.

Yours very truly,

*Chas H Dunning*

Chas. H. Dunning  
Director

CHD:mh

NAME OF COMPANY Fred Gibbs  
 NAME OF MINE Hackberry & Lone Pine

DEPT. MINERAL RESOURCES  
 RECEIVED  
 NOV 12 1946  
 F-221 9NA

(1) Production - January 1st to June 30, 1946, inclusive.

Producers shipping ore direct to smelters or to custom mills use Column No. 1;  
 producers operating their own mill use Column No. 2.

COLUMN NO. 1				COLUMN NO. 2			
Tons	% Cu	% Pb	% Zn	Tons	% Cu	% Pb	% Zn
Crude Ore	0			Copper Conc.			
				Lead Conc.			
				Zinc Conc.			

(2) Average Price Received for Metals in Above Production

This to be the total of the ceiling price plus premiums.

Copper  $\text{\$/lb. Conn. Valley as base}$   
 Lead  $\text{\$/lb. N.Y. as base}$   
 Zinc  $\text{\$/lb. East St. Louis as base}$

(3) What do you estimate your production would have been, January 1st to June 30, 1946, if the metal price had been:

Cu 14 3/8¢/lb. Conn. Valley; Lead 8.25¢/lb. N.Y.; Zinc 8.25¢/lb East St. Louis (with no premiums)

COLUMN NO. 1			COLUMN NO. 2		
Crude Ore	Tons		Copper Conc.	Tons	
Crude Ore	0		Lead Conc.	Tons	
			Zinc Conc.	Tons	

(4) What do you estimate your production would have been, January 1st to June 30, 1946, if the metal prices had been:

Cu 16¢/lb. Conn. Valley; Lead 11¢/lb. N.Y.; Zinc 9.50¢/lb. East St. Louis (with no premiums)

COLUMN NO. 1			COLUMN NO. 2		
Crude Ore	Tons		Copper Conc.	Tons	
Crude Ore	1800		Lead Conc.	Tons	
			Zinc Conc.	Tons	

(5) If a metal Conservation Price Plan, similar to the present Premium Price Plan, were made permanent for at least five years,

- (a) What would your yearly production of ore or concentrates be: 7200 tons ore.
- (b) Would such a plan cause you to expand your exploration-development program? If so, how much? Yes. 100% would probably double them.
- (c) What effect would such a plan have in increasing your ore reserves?
- (d) In view of low tariffs, how would such a plan promote a healthy mining industry? By permitting exploration for and development of ore of marginal grade (marginal under high costs attendant to short-term planning & operation) which could be mined at a profit under a long-range plan of exploitation.



# SHATTUCK DENN MINING CORPORATION

and

## SUBSIDIARIES

Humboldt

.....Office

Date..... November 24, 1965

TO: Mr. C. R. Sundeen

SUBJECT: HACKBERRY MINE  
% Mr. Fred Gibbs  
Prescott, Arizona

FROM: J. Olaf Sund

TYPE: Copper, Lead and Zinc with associated Silver and Gold.

TERMS REQUESTED: Total purchase price \$30,000.00, payable at the rate of 1/3 at the end of the first three years.

LOCATION: One patented claim only on which the old mine is included. It is some four miles by road northwest from Mayer via the old Black Canyon Road. More exactly, it is in the southeast corner of section 17, T-12N and R-1-E.

GEOLOGY: The general area is underlain by interbanded volcanic rocks that include greenish fine-grained andesite, andesitic fragmentals and whitish undifferentiated rhyolites. One coarse-grained massive andesite unit may actually be a diorite sill. The intrusive rocks include fine-grained quartz-feldspar porphyry sills as well as whitish medium-grained massive granodioritic dikes. The porphyry sills are generally sheared such that the 1/8 to 1/4 inch quartz and feldspar phenocrysts are well rounded and enclosed within a greenish schistose matrix. A number of fairly large quartz veins are arranged parallel to the bedding and/or shearing.

The general strike varies from north 20 degrees east to north 30 degrees east and all the dips are nearly vertical. The mine area is some 400 feet east of a strong strike fault, the so-called Pentland Fault. It is also probably on the east limb and near the axis of a syncline structure although the strike fault swings slightly across the structure at this point and thus masks the trace of the syncline axis.

The general geology of the area is plotted on the accompanying 200 foot to one inch map titled "Hackberry Mine Area".

OREBODY: The known orebodies which are actually mined out, were apparently five individual lenses that occurred in a pseudo en-echelon arrangement along a sheared zone. Studies on the mine dump and interpretations made from the existing maps suggest that all the ore lenses were included within the rhyolite horizon, which is now actually a quartz-sericite schist; or along the contact between the sericite schist and a sheared quartz-feldspar porphyry on the west.

The ore itself was apparently massive sulphides of copper, lead and zinc with associated gold and silver. Varying amounts of quartz are associated with the sulphide zones which in places, such as in number 3 on the 150 foot level, the zone is mainly white glassy quartz. This is illustrated on the accompanying level plan and by personal communication with Gibbs.

3/15/64

SOME NOTES ON HACKBERRY MINE

PROPERTY:

One patented claim.

BRIEF HISTORY:

The claim was located by a prospector in the early '80s. It was acquired by the George Treadwell Company with W.S. Logan and Col. Green of Cananea in the early 1890's. This Company developed and operated the property until 1909 when several men were killed in a mine fire which gutted the shaft. About that same year it was acquired by the Commercial Mining Company (Phelps-Dodge). The property remained idle from 1909 until 1929 during which period the shaft caved and the mine filled with water. From 1929 until 1931 Gibbs and Terrell reopened the shaft and shipped some ore under a lease from Phelps-Dodge. In 1932 Gibbs purchased the claim from P.D. ~~Liberty-Hills-Gold-Mines-operated-the-mine~~. In 1937-38 Gibbs leased the mine to Howard Fields and associates. In 1943 it was operated under a lease by Liberty Hills Gold Mines, (R.P.M. Davis) with L.L. Farnham as superintendent. This Company gutted the mine and ceased operation in 1945. Gibbs took out some shaft pillar above the 100 left by Liberty Hills in 1946-47. Since 1947 the property has been idle, shaft has caved, and mine is full of water.

GEOLOGY:

Country rock is Yavapai schist of same general type as that at the Iron King mine. There is an intrusive mass of diorite just to the southeast of the property, the intrusion of which probably caused some strike faulting and in general made the schist locally more permeable. This diorite mass may have been responsible for ore deposition in the altered and fractured schist.

OREBODIES:

The ore is of the schist replacement type similar to that at the Iron King mine. It occurs in five relatively short lenses which occur in over-lapping echelon fashion on both sides of a well defined shear parallel to the bedding. Only three of the five orebodies cropped, the other two apexing below present surface. The ore is quite massive and the economically valuable minerals are gold, silver, copper, lead, and zinc. The lenses plunge steeply north and pitch very steeply to the west. Ore lenses are short, -60' to 140' in length. Greatest width of solid ore was 24' in the No. I orebody just above the 100' level. Average ore widths are approximately 6 feet.

DEVELOPMENT:

The mine was developed by the Treadwell Company by vertical shaft to the 450' level with six levels to that depth. Greatest strike length explored was on the 350' level where the drift is 320 feet long. In 1944 Liberty Hills sank a winze from the 450 to the 550 level (which is the deepest in the mine) and carried out very limited exploration work there.



HACKBERRY MINE NOTES (Con'td)PRODUCTION:

Only partial production figures are available and none for the period when the Treadwell Company was operating. However, it is probable that somewhere between 15,000 and 20,000 tons were mined by that Company judging by stope volumes.

Production since 1929 is as follows:

Producer	Dates	Tons	Assays				
			Gold	Silver	Copper	Lead	Zinc.
Gibbs-Terrell	1929-30	474	0.160	6.00	4.00%	---	----- (?)
Fields et al	1937-38	960	0.097	4.50	2.75	---	-----
Gibbs	1939	403	0.190	8.30	3.20	---	-----
Liberty Hills	1943-45	10,619	0.107	5.00	1.80	3.40%	8.90%
Gibbs	'45-'47	420	0.170	6.90	3.00	5.40	11.80
Gibbs	'56	<u>31</u>	0.210	7.20	2.40	6.60	6.30
	Total	12,907	0.113	5.18	2.00	3.50	9.00

This ore produced by the Treadwell Company was probably as good, or better, than that shown above since the latter was practically all developed by Treadwell and left by it around the peripheries of the old stopes.

ORE RESERVES:

There are probably several thousand tons of ore in stope-ends on the various levels which Liberty Hills left unmined. However, the shaft is caved, so that this ore is not readily available.

CONCLUSION:

The mine as it stands today has no value. However, when a prospect has produced approximately 30,000 tons of good ore having an assay value at present metal prices of over a million and half dollars from a very limited strike length and has good geological and structural features, the expenditure of some money on a couple of drill holes to probe the structure at a depth of 1,000 feet or so would seem to be well justified and to constitute a good gamble.

*J. Gibbs.*  
3/15/64

The only maps available are copies of the original Treadwell maps on a scale of 10 feet to the inch. These serve chiefly to delineate mine openings, -drifts, raises, and stopes, though there are some assays of samples taken on the ends and sides of the old stopes and in some of the drifts beyond the ends of the stopes.

The ore lenses are from 60 to 140 feet long and average approximately 6 feet wide, but may locally be 24 feet wide such as part of the number 1 zone. They strike at approximately north 30 degrees east to north 40 degrees east, plunge steeply to the north and dip very steeply to the west. The horizontal extent of all the zones combined is limited to a north and south length of 220 feet and an east and west width of some 140 feet including the depth extensions. Furthermore on all levels, regardless of the actual zone involved, the northern termination is the equivalent of 80 feet east of the shaft.

The accompanying longitudinal section at 50 feet to 1 inch illustrates the probable shape and extent of each of the individual ore zones. Number 5 and 2 zones persist below the 450 foot level but probably pinch out within another 50 to 100 feet. (see section on "History and Development" below).

**HISTORY & DEVELOPMENT:** The ore bodies have been mined, high-graded and salvaged by a variety of groups since the time of the first location in the 1880's until the last salvage effort by Gibbs in 1946-47. All serious mining took place from the bottom at the 450 foot level to the surface. An exploratory winze was put down to the 550 foot level but abandoned after approximately 100 feet of lateral development, presumably because of a lack of ore. This suggests that the ore zones bottom between the 450 and 550 foot levels. The plans of each level illustrate that the various drifts and stopes often extend to the end of or beyond the limits of each of the zones, especially to the south. Hence all five known ore lenses have probably been thoroughly "cleaned out".

Gibbs estimates that the total past production was some 30,000 tons as follows:

<u>Dates</u>	<u>Producer</u>	<u>Tons</u>	<u>Au</u>	<u>Ag</u>	<u>Cu</u>	<u>Pb</u>	<u>Zn</u>
to 1929	Treadwell Co.	15-20,000	--	--	--	--	--
1929-30	Gibbs & Terrell	474	.160	6.00	4.00	--	--
1937-38	Fields et.al.	960	.097	4.50	2.75	--	--
1939	Gibbs	403	.190	8.30	3.20	--	--
1943-45	Liberty Hills	10,619	.107	5.00	1.80	3.40	8.90
1945-47	Gibbs	420	.170	6.90	3.00	5.40	11.80
1956	Gibbs	31	.210	7.20	2.40	6.60	6.30
(From 1929) Totals		12,907	.113	5.18	2.80	3.50	9.00

(Data collected by Gibbs)

**RECENT ACTIVITY:** The immediate area around and including the Hackberry was recently examined by New Jersey Zinc between 1952 and 1954 as part of a larger exploration program. The area was geologically studied and tested with magnetic, electromagnetic and geochemical methods. Gibbs was partially employed by New Jersey Zinc during these investigations, and thus it can be assumed that N.J.Z. had access to the same limited geological data that is included with this summary.

The geochemical and geophysical studies were inconclusive and confusing, especially the E.M. results, due to such features as a hydro power line and a water pipe line etc. The decision not to pursue the studies in this immediate area may have been partly due to the confused and perhaps misleading E.M. results, together with the negative geochemical results.

**SAMPLING:** Selected samples were collected by the writer from the Hackberry mine dump which gave the following results:

<u>Number</u>	<u>Rock Description</u>	<u>Au</u>	<u>Ag</u>	<u>Pb</u>	<u>Zn</u>	<u>Cu</u>
11622	Qtz-Carb/w Diss. Sulphides including chalcopyrite	Tr	0.2	Nil	0.2	1.14
11623	"	Tr	Tr	Nil	Nil	0.12
11624	Qtz-carb/w Little Only Sulphides	Tr	0.3	Nil	3.7	0.58
11625	Qtz Vein/w Sulphides & Wallrock	.04	2.8	1.5	4.9	0.96
11626	Qtz Vein/w Pyrite, Chalco & Malach.	.02	Tr	0.6	0.3	1.54
11627	Qtz/w mainly Pyrite	.05	0.7	0.1	0.7	4.92
11628	Fractured Qtz w/Sulphide Splashes & sil.wall rx w/diss-sulphides	.07	1.0	0.1	1.6	2.12
11629	Altered & Pyritized Wall Rock	.02	2.5	0.3	1.8	3.90
11630	Sheared Q.F. Porphyry	.03	0.7	0.8	2.5	0.44
11631	Pyritic Siliceous Rock	.22	10.8	4.3	14.1	1.36
11632	Pyrite Rich Schist Rock	.04	1.3	0.3	0.8	1.68
11633	Dark Green Schist w/Pyrite & Sphal.	.14	6.4	1.6	27.6	0.44

These results are understandably less than the average grade as quoted by Gibbs. They do correspond generally to a systematic sampling of the dump in 1961 by R. G. Raabe.

Not having typical samples from actual ore zones, it is unreasonable to attach too much importance to these results.

**SCHEME OF GENERAL STRUCTURE:** Limited sulphide zones or lenses exist in or along the contact of a sheared and sericitized rhyolitic horizon.

The rhyolite is apparently cut-off or at least terminates some 1200 feet south of the explored and mined area.

There is an apparent cross fault 500 feet north of the mine area according to xxx New Jersey Zinc. The significance and extent of this structure is not known at this time.

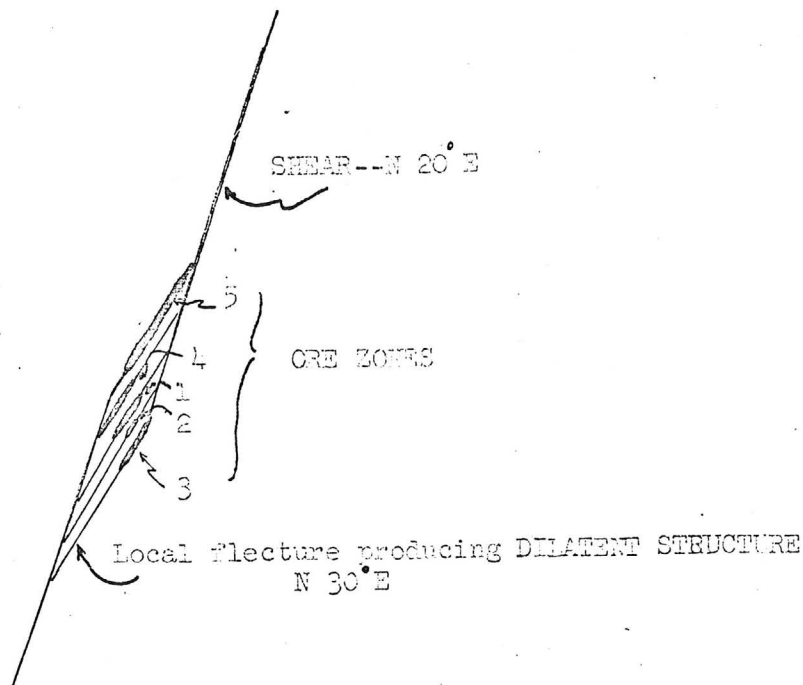
**STRUCTURAL CONTROL OF ORE:** The shape and limited extent of the five ore zones suggest some structural condition controlling the emplacement and the shape of each zone. Unfortunately structural information is lacking but there are subtle suggestions to the writer that such control is a type of dilatent structure.

The following facts bear this out:

1. The rhyolite host is intensely sheared.
2. The attitude of the rhyolite is generally north 20 degrees east whereas the ore zones are north 30 degrees east.
3. The ore zones do not tail-off into barren pyritic zones that continue on strike in the rhyolite.
4. There are distinct limits to the horizontal dimensions of the zones regardless of the level or zone involved.
5. En-echelon arrangement is poorly developed but the zones are clearly separated and are units unto themselves.

Such a structural control could conceivably be established in the rhyolite horizon which has suffered considerable shearing if a slight but localized crumple affected the rhyolite or the contact. The above shearing would thus produce the dilatent structure necessary for this control as illusted below.

SYNCLINATIC PLAN



CONCLUSIONS:

1. The ore zones are limited in horizontal extent and probably bottom between the 450 and 550 foot levels.
2. The ore zones are probably a set of lenses in a dilatent type structure.
3. The few shreads of ore that have been left in the mine as pillars, sills and in stope ends etc. are probably either insignificant or not readily available. (The shaft is nearly caved in and the mine is flooded.)

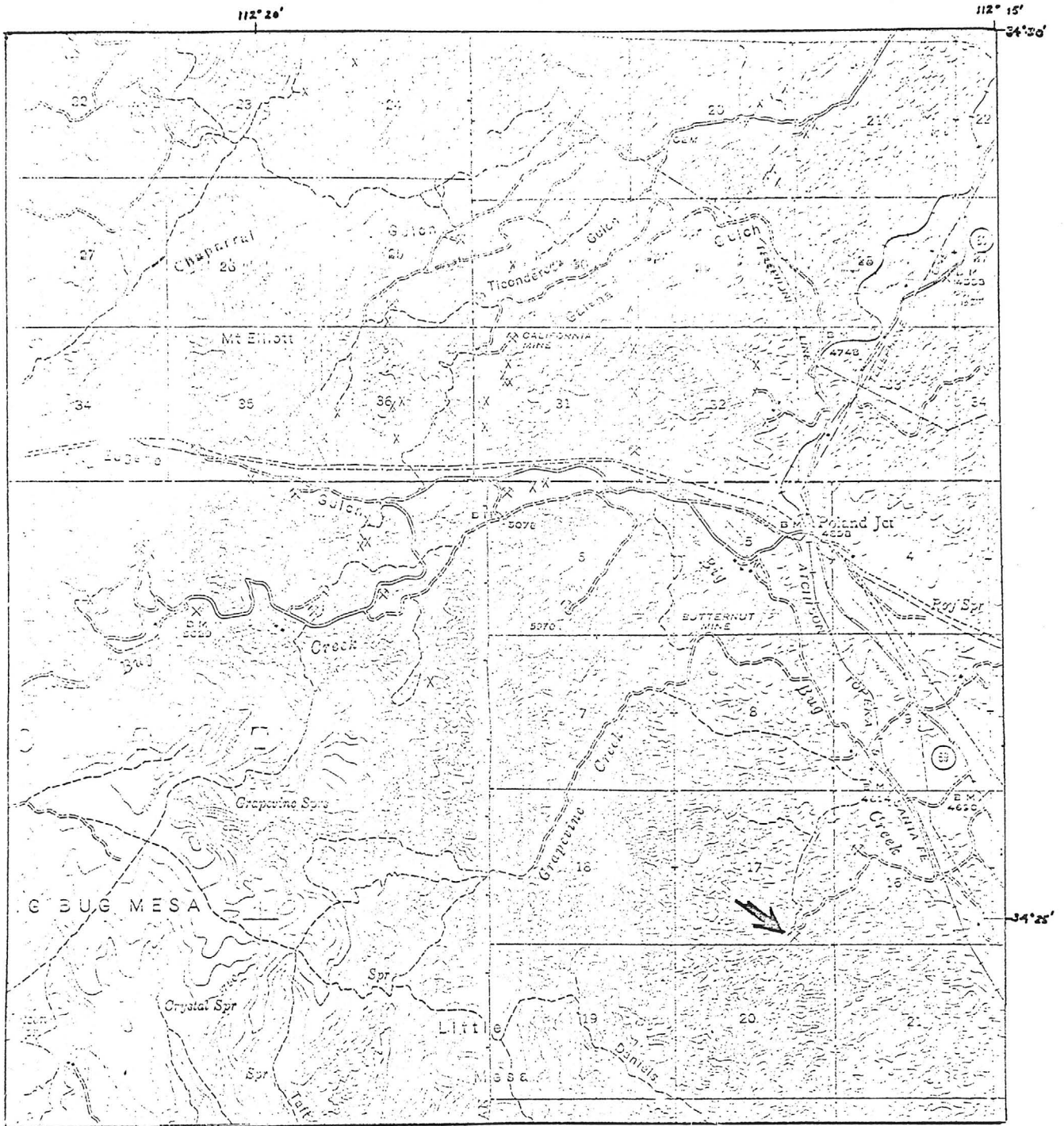
RECOMMENDATIONS: Despite the considerable quantity of both mining and exploration work that has been done in this immediate area in the past, the information available is "sketchy". Because of this conclusions are based on interpretation and speculation and thus recommendations are similarly speculative.

1. There would appear to be little justification at this point for exploring under the mined out ore zones unless new information is compiled.
2. There is only 1200 feet of the critical host horizon south of the ore body and hence probably little hope of any significant tonnage of ore in this area.
3. The most promising feature of this area is the northeastward extension of the rhyolite horizon. It is not unlikely that other dilatent type zones do exist which may contain ore deposits. However, the structural variations are probably so imperceptable that geological mapping would not detect them.
4. A program of geophysical and perhaps geochemical studies should be carried out to test the above possibilities in #3. Although New Jersey Zinc did perform this same type of survey between 1952 and 1954 with inconclusive results, the tremendous advances in instrumentation and general methods since that time would make a repeat of this study most important. The geophysical approach would of course be limited by power lines etc. to the north, a distance of nearly a mile and a half.
5. Such a program as indicated in #4 above would undoubtedly extend beyond the one Hackberry claim controlled by Gibbs, and hence additional ground may necessarily be considered eventually.

NOTE: A detailed lay-out of a potential geophysical program etc. will be made separately for this area together with other areas in order to evaluate and compare on a priority basis.

11/25/65





Location Map for HACKBERRY MINE






1: 62,500.

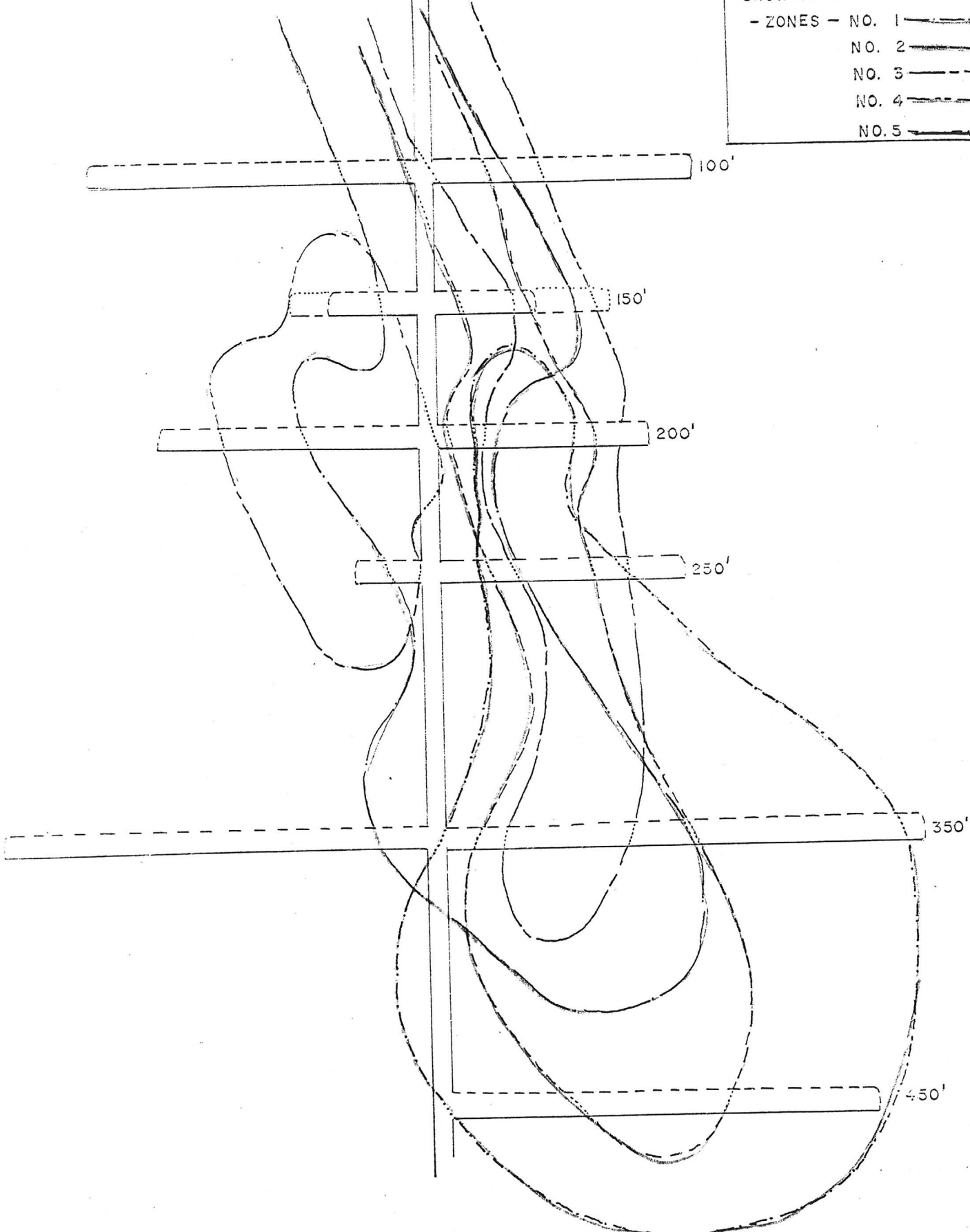
N-30°-E

HACKBERRY - FOR S.D.M.C.

LONG. SEC'T. - 1" = 50'..

SHOWING INDIVIDUAL ORE

- ZONES - NO. 1 
- NO. 2 
- NO. 3 
- NO. 4 
- NO. 5 



# SHATTUCK DENN MINING CORPORATION

and

## SUBSIDIARIES

Engineering/Geology

Office

Date: March 1, 1961

TO: D. M. Kentro

SUBJECT: Hackberry Mine Dump--  
near Mayer, Arizona

The following briefly summarizes my description and conclusions regarding the above named property.

On January 31, 1961 the dump of the old Hackberry Mine, owned by Mr. Dickey of Mayer, was examined and sampled.

The dump is reached from Mayer via the old Black Canyon Road; take the left fork (gravel road) approximately two miles north of Mayer and continue west crossing a stream bed with placer workings and arrive at the dump four total miles from Mayer.

The dump was surveyed by brunton compass, hand level, and pacing. Calculations from the survey indicate the volume of the dump to be about 332,000 cu. ft. or approximately 24,000 tons. The rock type is mainly schist with sparse copper minerals locally visible. Sample # 12 appeared to be the best grade of ore in the dump. Uniformly spaced samples were taken at fourteen locations--each sample representing about a four foot vertical cut. The sample results are tabulated below:

Sample	Length Vertical Cut	Au	Ag	Pb	Zn	Cu
# 1-3060	4'	0.04	2.0	1.2	2.3	0.50
# 2-3061	4'	0.07	1.6	0.7	2.1	1.08
# 3-3062	5'	0.03	1.2	0.3	0.7	0.44
# 4-3063	5'	0.02	0.5	0.2	0.8	0.30
# 5-3064	4'	0.04	1.2	0.2	1.9	0.32
# 6-3065	5'	0.04	0.9	0.1	1.1	0.70
# 7-3066	4'	0.05	1.7	0.4	1.8	0.46
# 8-3067	5'	0.09	2.6	1.5	3.0	1.22
# 9-3068	4'	0.05	1.2	0.3	1.0	0.44
#10-3069	4'	0.03	0.9	0.2	0.8	0.50
#11-3070	4'	0.06	1.6	0.2	2.6	1.16
#12-3071	3'	0.01	1.0	0.1	0.9	1.68
#13-3072	5'	0.02	0.4	tr	tr	0.14
#14-3073	3'	0.03	0.7	tr	0.5	0.22
Dump average.....		0.04	1.3	0.39	1.4	0.65

Based upon the assay results the value of the rock in the Hackberry Dump is about \$6.00/ton and therefore not economic.

RGR/

*Robert G. Raabe*  
Robert G. Raabe



*Security will*

DEPARTMENT OF MINERAL RESOURCES  
STATE OF ARIZONA  
FIELD ENGINEERS REPORT

Mine Hackberry & Boggs

Date Oct 2nd, 1942

District BigBug

Engineer A.C.Nebeker

Subject: Production Possibilities

These two properties are being worked by L.P.D.Limited, L.P.Farnham Mgr.

The Hackberry is now dewatered and water is being held down pending an examination by the R.F.C. . It is reported that this property has a good showing of lead, zinc and copper ores and can be put into production within a few months.

The Boggs is now being dewatered and the ores here will be taken along with the Hackberry ores and help make enough ores for a milling proposition.

No production yet from either property by the present operator, but both properties have past record of a good production.

Mr Farnham is working 14 men on these properties.

He has been trying to get a Serial Number for his operations so he can get some supplies badly needed. He tells me he has written both to Mr Martin at Phoenix, and the Washington man, but has not yet received any assistance, and no Serial Number.

He would like the Department of Mineral Resources to give a little lift here and see if they can jar a serial number out of the sack for his operations.

He says if he cant get a number so these supply houses will sell him some repair parts, he will just have to fold up.

*A.C. Nebeker*

DEPARTMENT OF MINERAL RESOURCES  
STATE OF ARIZONA  
FIELD ENGINEERS REPORT

Mine ✓ HACKBERRY & BOGGS

Date October 2, 1942

District BigBug

Engineer A. C. Nebeker

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Signed: A. C. Nebeker

✓ Liberty Hill Gold Mines, Ltd:

Congress, Arizona  
July 9, 1942.

Mr. Charles F. Willis.  
Department of Mineral Resources,  
Phoenix, Ariz.

Dear Mr. Willis;

On May 1st, 1942 we made application to the WPB for a serial number under P-56, for our new operations at the Hackberry-Boggs Mines.

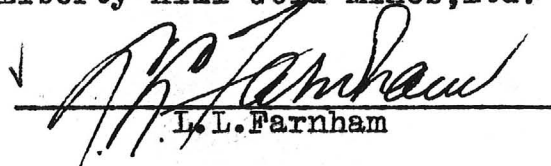
We are enclosing a copy of that application, made in letter form, as we felt that the facts could be better presented in that manner than by the inadequate forms then available. To date we have heard nothing from the WPB concerning the application.

We have now completed the unwatering and sampling of the Hackberry Mine and it appears that we would be, other things being equal, <sup>justified</sup> in equipping the mine for production. We are finding it almost impossible to continue to operate without the assistance of a serial number and feel sure that we cannot get into production without a priority.

If thru your good offices we can get some action either one way or the other, it would be greatly appreciated.

Yours Very Truly,

↓  
Liberty Hill Gold Mines, Ltd:

↓  
  
L. L. Farnham

P.S. We have closed The Alvarado Mine and are now salvaging the under ground equipment.

The Liberty Hill Gold Mines, Ltd; has available at this time all of the major heavy equipment necessary for the immediate needs of both the mine and mill.

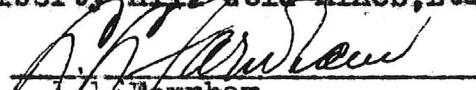
Without a serial number we find it becoming increasingly difficult to secure certain operating supplies, such for instance as a new hoisting rope.

We ask, so that we may proceed without loss of time, that we be granted a serial number.

Yours Very Truly,

Liberty Hill Gold Mines, Ltd:

By

  
L. L. Farnham

✓ Liberty Hill Gold Mines, Ltd:

Congress, Arizona.  
April 30, 1942.

Mining Branch, War Production Board  
Temporary Building E  
Washington, D.C.

Gentlemen;

This is an application for a serial number under Priority Rating P-56, to cover our NEW operations at the Hackberry, Boggs and Lone Pine mines, all situate within a few miles of Mayer, Yavapai County, Arizona.

These three mining properties are to be worked collectively under the parent name and management of the Liberty Hill Gold Mines, Ltd:

The Liberty Hill Gold Mines, Ltd has for the past seven years been successfully operating the Alvarado mine, a gold silver property near Congress, Arizona. With a desire to aid the war effort this company is transferring, as rapidly as possible, its capital, personnel and equipment from the mining of gold silver to the production of the more strategic metals. As a consequence, negotiations for the purchase of the Hackberry, Boggs and Lone Pine mines were recently completed and operations were started April 20, 1942. At present a crew of ten men are employed which will be materially increased upon the completion of an electric power line into the mine. An application to the Utility Branch, WPB for the construction of this line was made by the Arizona Power Corporation on April 1, 1942.

The Liberty Hill company has secured a four year lease upon the 75 ton flotation mill of the Golden Turkey Mining Co, which recently suspended operations. This mill is complete, in good condition and can be readily adapted to the treatment of the Hackberry, Boggs and Lone Pine ores. With this set up it will be possible to get the project into production within a very few months.

The total production of the Hackberry, Boggs and Lone Pine mines is not definitely known but must have been several hundred thousand dollars. Their activity dates back to 1905. All the past production has been shipping ore, marketed at the most convenient copper smelters.

Ore reserves, above the bottom levels of the three mines are estimated at 40,000 tons, having an average value of about; 2.5 % Cu; 3.5 % Pb; 6.0 % Zn with 0.10 ozs Au and 4.0 ozs Ag per ton. Considering that the deepest workings are but 450 feet and that geological conditions indicate the probability of depth extension, the anticipated ore reserves below the deepest levels, should reasonably exceed 50,000 tons.

The anticipated immediate production, treating 75 tons of ore per day would be some 4000 lbs of lead; 3000 lbs of copper and 6000 lbs of zinc per day. These figures are based on the results of the flotation tests made by the Arizona Bureau of Mines on the Hackberry ore.

C7W

Liberty Hill Gold Mines, Ltd:  
Alvarado Mine

Congress, Arizona  
May 16, 1942.

Department of Mineral Resources  
State of Arizona,  
Phoenix, Ariz.

Attention Mr. Charles F. Willis

Dear Mr. Willis;

We are pleased to report that the Arizona Power Corporation have notified us that construction of our power line to the Hackberry Mine will be started May 18.

Formal application for the construction of this power line was placed before the War Production Board the latter part of March. Nothing was heard from Washington until shortly after the matter was called to your attention. We therefore believe that the resulting prompt action was solely due to the good offices of yourself and the Department.

We are deeply grateful, for there is no telling how much time would have been lost had the matter been allowed to drift through the usual channels.

Kind regards and many thanks.

Yours Very Truly,

Liberty Hill Gold Mines, Ltd:

  
\_\_\_\_\_  
L. L. Farnham

DEPT. MINERAL RESOURCES  
RECEIVED  
MAY 18 1942  
PHOENIX, ARIZONA



**DEPARTMENT OF MINERAL RESOURCES**

**REPORT TO OPA ON  
ACTIVE MINING PROJECT**

DEPT. MINERAL RESOURCES  
RECEIVED  
JUN 11 1945  
PHOENIX, ARIZONA  
Filing Information

Date Apr 17 - 1945  
Name of Mine Hickberry  
Owner or Operator \_\_\_\_\_  
Address Mayer  
Mine Location 5 miles N.W. Mayer Ariz

File System \_\_\_\_\_  
File No. \_\_\_\_\_  
This chart to be used for gallons of gasoline required per month.

**PRESENT OPERATIONS: (check X)**

Production.....; Development.....; Financing.....; Sale of mine.....;  
Experimental (sampling).....; Owner's occasional trip.....;  
Other (specify) cleaning up operations at Hickberry

**PRODUCTION: Past and Future.**

Tons

Approx. tons last 3 months \_\_\_\_\_  
Approx. present rate per 3 months \_\_\_\_\_  
Anticipated rate next 3 months \_\_\_\_\_  
If in distant future check (X) here \_\_\_\_\_

**EQUIPMENT OPERATED:**

Type	Quantity or Horse Power	Miles or Hours Per Month	Gallons Required Per Month
Personal Cars	<u>✓</u>	<u>1200</u>	_____
Light or Service Trucks	_____	_____	_____
Ore Hauling Trucks	_____	_____	_____
Compressors	_____	_____	_____
Other Mine or Mill Eqpt.	_____	_____	_____

**PRODUCT PRODUCED OR CONTEMPLATED: Name metals or minerals.**

\_\_\_\_\_

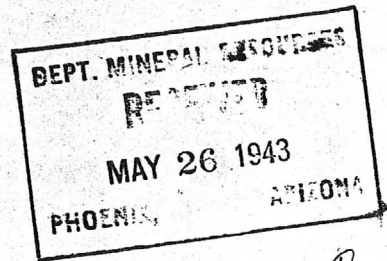
**REMARKS:**

This clean up work is get equipment available for other projects  
Effort

**ARIZONA DEPARTMENT OF MINERAL RESOURCES**

By [Signature]

Field Eng - D of M. R



May 25, 1943

Memorandum

To: J. S. Coupal  
From: B. W. Brown  
Subject: Two copper mines near Mayer

The Boggs Mine and the Hackberry Mine near Mayer are being reopened by the Liberty Hills Gold Mines Ltd., of which Mr. R. P. Davis of Hollywood, Calif, is managing director. It is proposed to mill the Hackberry ores in the Golden Turkey Mill near Cordes. Hackberry ores are copper-lead-zinc. Boggs ore is principally copper with subordinate silver and gold.

*Babuel W. Brown*

CARTER GLASS, VA., CHAIRMAN  
KENNETH MCKELLAR, TENN.  
CARL HAYDEN, ARIZ.  
ELMER THOMAS, OKLA.  
MILLARD E. TYDINGS, MD.  
RICHARD B. RUSSELL, GA.  
ALVA B. ADAMS, COLO.  
PATRICK MCCARRAN, NEV.  
JOHN H. OVERTON, LA.  
JOHN H. BANKHEAD, ALA.  
JOSEPH C. O'MAHONEY, WYO.  
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WALLACE H. WHITE, JR., MAINE  
CHAN GURNEY, S. DAK.  
C. WAYLAND BROOKS, ILL.

## United States Senate

COMMITTEE ON APPROPRIATIONS

May 1, 1942

EVERARD H. SMITH, CLERK  
JOHN W. R. SMITH, ASST. CLERK

*HACKBERRY MINE*

Mr. Charles F. Willis  
528 Title and Trust Building  
Phoenix, Arizona

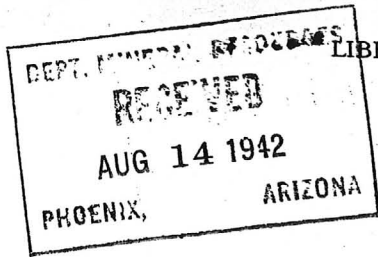
My dear Charlie:

I have your letter of April 28, and I am sending a letter by special messenger to Mr. B. J. Sickler, urging that he do everything possible to expedite action on the application submitted by the Arizona Power Corporation in connection with a transmission line to serve the Alvarado Mining Company at Hackberry. I shall let you know as soon as I have a reply from Mr. Sickler.

With kindest personal regards, I am,

Yours very sincerely,

*Carl Hayden*



LIBERTY HILL GOLD MINES, LTD.  
2356 HOLLYRIDGE DRIVE  
LOS ANGELES, CALIFORNIA

August 12, 1942

Arizona Small Mine Operators Association,  
528 Title & Trust Building,  
Phoenix, Arizona.

AIR MAIL

Gentlemen:-

Inna recent edition of your magazine you published an article titled "The RFC Mine Loan program". In this article, immediately preceding your discussion on "Class B loans", you referred to the "Defense Plant Corporation Loan".

We have been advised by the Metal Reserve in Los Angeles that this only applies to very large properties and then generally only on a basis of a custom mill. We would like to ask if there is any authority or precedent that would indicate that this type of loan would be granted to an operation that would mine and mill approximately 100 tons daily of ore that would show approximately 70% stragetic metals? Otherwise it would be of no advantage except to the large operator and a small operator would have to take all the risk under an RFC "A" loan.

Yours very truly,

LIBERTY HILL GOLD MINES, LTD.

By 

President.

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Y

# THE ARIZONA POWER CORPORATION

PRESCOTT, ARIZONA

April 22, 1942

File #600

War Production Board  
Washington, D C

Attention: B J Sickler,  
Chief Priority Section-Power Branch

Gentlemen:                    Re: 4-D - HJB  
                                      Room 1324 Temporary "R"  
                                      Request for Removal and Re-  
                                      location of Power Facilities

We have a signed power contract with a power customer who is starting the operation of a Hackberry mine. The estimated production of metals based on capacity of mill and assays indicate that the mine will produce

19 Tons of Lead, Copper Concentrate per day,  
which will yield 7,200# of lead and 4,800#  
copper.

12 Tons of Zinc Concentrate per day, which will  
yield 13,200# of zinc.

It is estimated that 80% of the production will  
be strategic metals.

We have a line which is now inoperative and which served a gold producing mine which has been out of operation for several years. We would like permission to remove the line from the gold mining property and rebuild it to serve the above mentioned strategic metal producing mine.

The line involved is a 1.2 mile, 11,000 volt, 3 phase, 60 cycle line. The materials involved are as follows:

Poles and Cross Arms	\$ 214.53
Hardware	78.13
Insulators	79.72
Guy Wire	7.92
Copper Wire, Connectors & Sleeves	<u>530.74</u>
Total Material in Line	\$ 911.04

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Page -2-  
War Production Board

Substation

3 - 37½ kva Transformers		
11,000 to 230/460 volts @	677.11	\$ 2,031.33
3 - Arresters, 11,000 volts "	19.32	57.96
3 - Fuse Cutouts "	13.75	41.25
Structure, including bus work, fence, grounds, etc.		65.00
Metering Equipment		227.00
		<hr/>
		\$ 2,422.54

All of the above material is on hand and will require no new purchases in connection with the removal of the line and substation.

An early reply, granting permission to make this transfer, will be greatly appreciated.

Yours very truly,

Signed: L. V. Seares  
Vice-President



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WAR PRODUCTION BOARD

WASHINGTON, D.C.

April 11, 1942

The Arizona Power Corporation  
Prescott, Arizona

Attention: Malcolm M Bridgwater, Gen. Supt.

Gentlemen:

In reply to your letter of April 11, 1942 with reference to dismantling a plant and installing same in another location, you are advised that application for such construction must be filed. This application may be submitted in letter form including a list and the value of materials, which are to be removed and re-installed or returned to stores as usable materials.

Yours very truly,

Signed: B J Sickler  
Chief, Priorities Section  
Power Branch

May 29, 1941

✓  
Mr. Fred Gibbs  
231 S. Mt. Vernon St.  
Prescott, Arizona

Dear Mr. Gibbs:

✓ Many thanks for the information regarding the Hackberry, Boggs and Lone Pine Mines. It is exactly the data that we wanted and we appreciate your help in getting it to us promptly.

This report is going to take us a couple of months to complete, as it is developing much larger than we anticipated, but when the report is finished we certainly will be glad to see that you get a copy.

Thank you again, and with kindest personal regards,  
I am

Yours very truly,

Chairman, Board of Governors  
Arizona Department of Mineral Resources

CFW:LP

May 27, 1941

✓  
Mr. Fred Gibbs  
231 S. Mt. Vernon St.  
Prescott, Arizona

Dear Mr. Gibbs:

✓ I have received the questionnaires on the Boggs and ✓  
Hackberry Mines which seem to be quite completely filled out.  
We note that you also have a Lone Pine Mine and we would like  
similar information on that. We are, therefore, enclosing another  
questionnaire to be filled out for that particular mine.

It would appear that all three of these properties  
would qualify for inclusion within this report. In order to  
make the report more complete we are going to have to include  
within it a brief summary or description of each property which  
is listed as a potential producer, and, therefore, we would  
want some information for a short descriptive story on each  
property.

In order to make these reports uniform in their con-  
tent we have gotten out a questionnaire showing the data that  
we desire and I am enclosing three copies of that, one for the  
Hackberry, one for the Boggs, and one for the Lone Pine.

Trusting that you can get this information to us at  
an early date, and with kindest personal regards, I am

Yours very truly,

Chairman, Board of Governors  
Arizona Department of Mineral Resources

CFW:LP  
Enc.

April 28, 1942

Senator Carl Hayden,  
Senate Office Building,  
Washington, D. C.

Dear Carl:

About a month ago L. L. Farnam of the Alvarado Mining Company was making plans to start the operation of a mine at Hackberry which promises to be a very substantial producer of lead, copper and zinc. The Alvarado Mining Company is a well financed organization ready and capable of going ahead with their project and doing a splendid job and they are not undertaking anything but what promises real production.

In order to get under way, it was necessary to get a power line to the property 1.2 miles long. To do this most cheaply it was proposed to remove and dismantle a power line that now is inoperative and which served a gold producing mine which has been out of production for several years, and rebuild it to the base metal producer. It required absolutely no new materials - only the permission of the power company to tear down an old useless line and put it up again in another place. It would seem that there should be no difficulty whatsoever in getting permission to do so, but for some unaccountable reason that permission has not been forthcoming, and a month has passed now since application was made and many letters passed back and forth giving a tremendous amount of detail that would seem to be totally unnecessary under the circumstances. In fact, less red tape would have been involved apparently if the present line were to be left as it is and application made for a brand new line with new materials.

The application was made by the Arizona Power Company to B. J. Sickler, Chief Priority Section - Power Branch, War Production Board, Washington, and judging by the information I have it is called File #600.

The mine at Hackberry will, according to the estimates of the Alvarado people, have a daily production of 7,200 pounds of lead; 4,800 pounds of copper; and 13,200 pounds of zinc. It promises considerably more than that in the event it can be gotten into smooth operation.

I am wondering if there is anything you can do to push this along as a valuable production is being lost and, what is more important, we are discouraging legitimate operators from trying to do anything that is beneficial to the war effort.

MEMORANDUM

SEPTEMBER 9, 1942

SUBJECT: Mine Loans  
Liberty Hill Gold Mine  
Backberry, Boggs, Lone Pine Mines

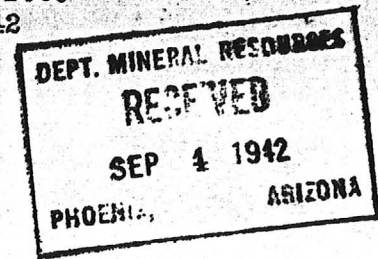
I have written Farnum and have had no word from him  
nor from Davis regarding this subject.

J. S. Coupal



Washington, D.C.  
Sept. 2, 1942

SUBJECT: Mine Loans  
Liberty Hill Gold Mines  
✓ Hackberry, Boggs, Lone Pine Mines



Please review my memo of Aug. 5th on this subject.

I should appreciate knowing if Davis ever contacted Coupal on this as we advised... or Farnham either.

If they do go ahead, I think that it would be a very good idea to furnish the Copper Branch with copies of the supporting data at the same time that the RFC application goes in.

If sent to me, I should be glad to take the material over myself.

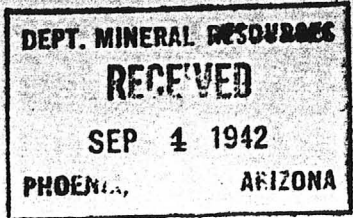
The copper branch is looking for some good properties to recommend development on.

*Bill*

Bill Broadgate



Washington, D.C.  
Sept 2, 1942



SUBJECT: Serial numbers  
Hackberry, Boggs, Lone Pine Mines  
Mayer, Arizona

I have had no reply to my memo of August 12th on this subject.

*Bill*  
Bill Broadgate

August 14, 1942

Mr. L. L. Farnham  
Congress, Arizona

Dear Mr. Farnham:

Subject: Serial Number  
Hackberry, Boggs, Lone Pine Mine

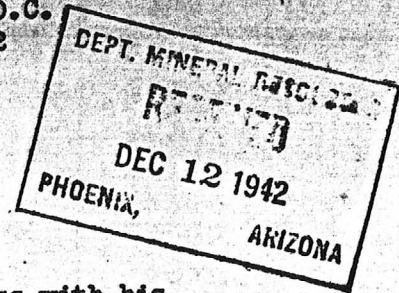
I would be interested to know if you have  
received your serial number. If not, I will advise  
Mr. Broadgate to get busy and investigate.

Yours very truly,

J. S. Coupal, Director

JSC:LP

Washington, D.C.  
Dec. 10, 1942



SUBJECT: Mine Loans  
R.P.M. Davis, ✓  
Hackberry & Boggs ✓

I have been with R.P.M. Davis and he is making progress with his B loan.

However, in line with the recent policy of the WPB, he apparently is unofficially turned down cold as to an OK by WPB for a Metals Reserve advance on production on the blackes out ore in the Hackberry. He is to see Heikes again today.

I am having a demend made on the WPN Facilities Clearance Board for a list of all the copper, lead and zinc projects submitted to them during the past three months, a short outline of each project and the disposition of the same, approved, disapproved or pending, and a memo of the reason in each case. This should prove very illuminating.

Doug Corner was in last night. He is still working on his zinc deal but I do not feel too optomistic about his immediate possibilities, I am afraid. I am keeping him closely posted on developments in case I can help him.

Bill Broadgate

*Liberty Hill*

*C/*

October 7, 1942

Mr. L. P. Farnham, Engineer  
Hackberry-Boggs Mine  
231 South Mt. Vernon Street  
Prescott, Arizona

Dear Mr. Farnham:

In a memorandum from Mr. A. C. Nebeker we note that you are having considerable difficulty in obtaining a serial number and it is suggested that we check into the matter for you.

In order to do this we would have to have complete information as to the date that you originally made application, to whom made, whether in Arizona or in Washington and what substantiating evidence you furnished to warrant consideration.

We have found in so many cases that some technicality has delayed the issuance of serial numbers and unless we are in full possession of information we are at a loss to rectify the trouble. Immediately on receipt of this information from you we will ask our Mr. Broadgate in Washington, D. C. to check on this for you.

Please be assured of our desire to be of assistance .

Very truly yours

Earl F. Hastings  
Assistant Director  
And Projects Engineer

~~XXXXXXXXXXXXXXXXXXXX~~  
413 Home Builders Bldg.

May 15, 1942

Honorable Carl Hayden  
United States Senate  
Washington, D. C.

Dear Carl:

I want to thank you for your telegram of the 13th advising us that the power line application submitted by the Arizona Power Corporation for L. L. Farnham has been approved.

We greatly appreciate your cooperation even though the demand was made after the application had been granted. It does let them know that we are watching.

With kindest personal regards, I am

Yours very truly,

Chairman, Board of Governors  
Department of Mineral Resources

CFW:LP



~~XXXXXXXXXXXXXXXXXXXX~~  
413 Home Builders Bldg.

May 15, 1942

✓  
✓  
Mr. L. L. Farnham  
Alvarado Mining Company  
Congress, Arizona

Dear Mr. Farnham:

How is your power line situation to the Hackberry Mine lining up? We got after them pretty strong in Washington after I saw you last month and evidently got some quick action, because we were advised that the Power Branch of the War Production Board approved the application and rating and it was mailed to the Arizona Power Corporation on April 28. We put several leads for quick action on them immediately. ✓

As soon as Bill Broadgate gets back to Washington we are going to have the facilities for putting personal push and we expect that Bill will be back there the early part of next week.

With kindest personal regards, I am

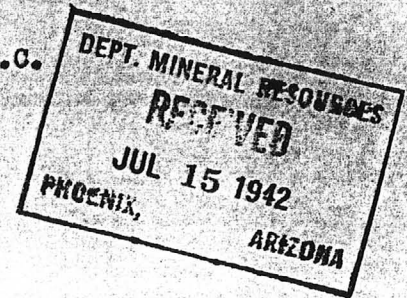
Yours very truly,

Chairman, Board of Governors  
Department of Mineral Resources

CFW:LP



Washington, D.C.  
July 13, 1942



SUBJECT: Serial Number, ✓  
Hackberry, Boggs, Lone Pine Mines. ✓  
Mayer, Ariz.

Apparently although Farnham wrote a letter, he never filed any applications for serial numbers.

I believe we should issue bulletins on these points... and, by the way, either I am off the mailing list, or these has been a great scarcity of press releases and bulletins for several weeks, although there has seemed <sup>be</sup> to ample material.

You will have to get them to fill out PD-542 forms for each mine.

You have been sent a supply of these forms.

Farnham is going to have to back these forms with better information than was contained in his letter of April 30th.

Strategic materials are tightening every day and serial numbers which will consume this material getting closer and closer scrutiny. As you know, although not very satisfactory, he could have been operating in the interim on PD-1-A's, and perhaps he has. He must be sure and attach to the PD-542's all auxiliary information possible.

*Bill*

Bill Broadgate

May 19, 1942

✓  
Mr. L. L. Farnham  
Liberty Hill Gold Mines, Ltd.  
✓ Alvarado Mine  
Congress, Arizona

Dear Mr. Farnham:

Your letter of May 16 to the attention of Mr. Willis arrived, and I have handed it to him.

I believe the efforts of the department and Mr. Willis counted strongly in getting prompt action.

Thanking you for your calling this to our attention, and hoping you will not neglect the opportunity of calling it to the attention of others, I am

Very truly yours,

J. S. Coupal, Director

JSC:GS

Washington, D.C.  
Aug. 12, 1942

SUBJECT: Serial Number  
✓ Hackberry, Boggs, Lone Pine Mines  
Mayer, Arizona

Refer to file and my memo of July 13.

I have had no word as to whether Farnham took our advice, and if so when he filed. As there has been no word, I suppose that this matter has been settled satisfactorily and they have the number, and I can close the file.

If not, will get the number for them if their application is properly made out and supported, as it should have been filed a long enough time ago to be well in the system and issued.

*Bill*  
Bill Broadgate

August 8, 1942

✓  
✓  
Mr. L. L. Farnham  
Liberty Hill Gold Mine, Ltd.  
Congress, Arizona

Dear Mr. Farnham:

Bill Broadgate has send me a copy of the wire to you regarding preliminary development loans on the Boggs & Lone Pine Mine.

We have been doing considerable work on the RFC Mine Loan changes and as the situation is not clear to you as to just what course should be followed, I will be glad to go over it with out.

I am inclosing a reprint of the principal features of the RFC Mine Loan which it might pay you to review.

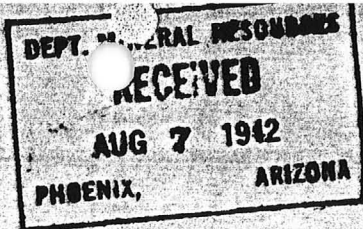
With best wishes and kindest regards, I am,

Very truly yours,

J. S. Coupal,  
Director

JSC:hal

Enclosure



Washington, D.C.  
Aug. 5, 1942

SUBJECT: Mine Loans ✓  
Liberty Hill Gold Mines ✓  
Hackberry-Boggs-Lone Pine. ✓

I was called to Hayden's office today to straighten out a lot of letters and wires R.P.M. Davis has been shooting in about loans on these properties, from Los Angeles to Washington, ~~the~~ Hayden and the RFC. You would think that, having been through the mill once he would have some idea of what to do. But his letters indicate confusion and they could not figure just what he wanted. I therefore dictated the following wire, and had a copy sent to Farnham;

- ✓ R.P.M. Davis, President,
- ✓ Liberty Hill Gold Mines, Ltd.,
- 2356 Hollyridge Drive
- ✓ Los Angeles, Calif.

Reference your letter July 31 wish to advise that all preliminary development loans are handled from RFC State Field Offices and not through Washington stop suggest that L.L. Farnham at Prescott apply to Bill Gohring at 405 Meard Building Phoenix for forms and information regarding preliminary development loans on Boggs and Lone Pine which will be filed with Phoenix RFC office stop Gohring can also furnish forms and information on B loans which must be filed in Washington stop most likely B loan application on Hackberry should be filed and processed before filing for an A loan on Hackberry stop if work on Lone Pine consists of drifting rather than unwatering and sampling B loan rather than preliminary development loan is the proper course stop Farnham can talk this over with Gohring in Phoenix and advise also seeing J.S. Coupal Arizona Department Mineral Resources 413 Home Builders Building Phoenix who is completely conversant with procedures and can advise you fully.

Carl Hayden.

One could not tell from Davis' correspondence if the Lone Pine is a C or B loan job. Also, it seems from the correspondence as though he is quite dubious about there being enough ore to secure an A loan before the B loan is expended... a situation that pertained to the Alvarado, as I remember.

I think he would like to have the money to move the Alvarado mill while the development work at the Hackberry progresses. You can get the story clearly from them and advise them the course to take.

Bill Broadgate



*Security Hill*

July 15, 1942

✓  
Mr. L. L. Farnham  
Congress, Arizona

Dear Farnham:

I have just received a memorandum from Bill Broadgate in Washington saying that to obtain a serial number you must file the enclosed PD-542 form supported by as much auxiliary information as possible. Even though you are not in production you should be able to state the production that you anticipate making.

Very truly yours,

J. S. Coupal, Director

JSC:LP  
Enc.



*Liberty Hill*

July 10, 1942

MEMORANDUM

✓ SERIAL NUMBER ✓  
HACKBERRY, BOGGS & LONE PINE MINES  
MAYER, ARIZONA

TO: W. C. Broadgate

FROM: J. S. Coupal

I am enclosing my letter to L. L. Farnham, a copy of his letter to Charles F. Willis and a copy of his application for a serial number dated April 30.

I hope you can get prompt action.

*Liberty Bell*

July 10, 1942

Mr. L. L. Farnham  
Congress, Arizona

Dear Mr. Farnham:

Your letter of July 9 to Mr. Charles F. Willis has been referred to me and I note the delay in getting your serial number. As you know, W. C. Broadgate was made Assistant Director of the Department and is located in Washington for the purpose of serving the small mine operators and getting prompt action on subjects such as yours.

I am referring your letter to Mr. Broadgate and also sending him a copy of your application of April 30 and asking him to dig in to this matter, find out what is holding it up, and do his utmost to get quick action for you.

With best wishes and kindest regards, I am

Yours very truly,

J. S. Coupal, Director

JSC:LP

CC: W. C. Broadgate

United States  
Department of  
Agriculture

Forest  
Service

Bradshaw  
Ranger District

2230 East Highway 69  
Prescott, AZ 86301

HACK BERRY (A) YAVAPAI CO.

JK AME

Reply To: 2810

Date: June 20, 1996

Dear Concerned Citizen:

The Bradshaw Ranger District has received a Plan of Operation for a mineral exploration project to be conducted west of Highway 69 between three and four miles northwest of Mayer. The legal description for the proposed project is Sections 8 and 17, Township 12 North, Range 1 East.

The proposal calls for the drilling of three diamond drill holes, each approximately 1,000' deep. It also calls for the construction of two 100' long access roads and three 12' by 12' drill pads. Reclamation will include ripping, recontouring and seeding the access roads and drill pads. The operator would be required to post a reclamation bond sufficient for rehabilitation of the site.

Minimizing sedimentation and erosion, and impacts to wildlife have been identified as concerns. A cultural resource inventory and a biological evaluation will be completed prior to any disturbance.

If you have any additional concerns or comments, please provide them to me by July 6, 1996. A copy of the proposal is available for review at this office. If you have questions, feel free to contact Bev Morgan at 520-445-7253.

Sincerely,

*John W. Holt*

JOHN W. HOLT  
Bradshaw District Ranger

Caring for the Land and Serving People

# OPTIONED PROPERTY (SHEET 2)

GROUP	NO. CLAIMS	OWNER	PAT'D?	ASSESSMENT WORK DUE	TAXES	CONTRACT DATE	OPTIONEES OBLIGATIONS UNDER CONTRACT										
							PAYMENT SCHEDULE										
							1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	TOTAL
Total Payments Cont							\$ 750	2600	3750	24200	24800	28000	24500	33600	33800	—	174900
Iron Queen	1	KD Terrill	Yes		Pay	July 31, 1951	\$ 1000	10% Royalty 600	10% Royalty 1200	10% minimum 1200	1200	1200	1200	1200	3500	13500	
Zink Daily Demond Hubbard Iron King Logan Martin Putnam (Putman)	7	A. Zink & JE. O'Brien	Yes		Pay	May 6, 1952		2100*	700*	2100*	16667	16667	16667			54901	
Marjerie Lod. & Placer	1	Marjerie Fitch LePage	No	During Option		April 30, 1952		100	200	300	5,000					5600	
Total							\$ 1750	5600	5850	27000	47667	46267	42667	34800	35000	3500	250901

\* Setup according to the interpretation that it is Not Applicable to the purchase price

\* Not Applicable to Purchase Price

THE W. VERMONT ZINC EXPLORATION COMPANY

March 19, 1952

Boggs Venture Optioned Property

Arizona	Survey
Yavapai	Survey
Big Bug	Survey
Bredshaw	Survey

5/17/52 WJ

A. A. 16-1

# OPTIONED PROPERTY

GROUP	NO. CLAIMS	OWNER	PAT'D?	OPTIONEES OBLIGATIONS UNDER CONTRACT												
				ASSESSMENT WORK DUE	TAXES	CONTRACT DATE	PAYMENT							TOTAL		
							1951	1952	1953	1954	1955	1956	1957		1958	1959
Boggs	1	J. Skrede & F. Gibbs	Yes		Pay	Mar 1952		\$ 200	300	500	1200	2400	3600	7200	9600	\$ 25000
Butternut Butternut Mascott Good Luck Good Luck No 3 Good Luck No 4 Good Luck No 5	6	Breck Kenridge & Edwards	Yes		Pay	Mar 1, 1952		1000	1200	8800	12000	12000	12000	12000	6000	\$ 65000
Conway Rainbow Rainbow No 1 Rainbow No 2 Llano Llano No 1 Llano No 2 Silver King Iron Queen	8	W.W. Hen, & Kellis Conway	No	During Option		Sept 30, 1951			8000	8000	8000					\$ 24000
Dameron Huron Montezuma	2	H. Dameron	Yes		Pay 1952	Oct 29, 1951	\$ 400		200	3800						\$ 4400
Hackberry	1	J. Skrede & F. Gibbs	Yes		Pay	Mar 1952	\$ 200	300	500	1200	2400	3600	7200	9600	\$ 25000	
Lawrence Boggs Ext No 1 Boggs Ext No 2	2	A. Lawrence	No	During Option		Oct 12, 1951	\$ 250	500	250						\$ 1000	
Lane Pine Lone Pine Admiral Corporal	3	J. Skrede & F. Gibbs	Yes		Pay	Mar 1952	\$ 500	700	800	1200	2400	3600	7200	8600	\$ 25000	
Marjorie Faye Marjorie Faye Faye No 1	2	J. Skrede & F. Gibbs	No	During Option		Mar 1952	\$ 100	200	300	1200	1200	2000			\$ 5000	
Mattson Jane Blackhawk No 1 Blackhawk No 4	3	E.W. Mattson	No	During Option		Dec 1, 1951	\$ 100	300	600	1500					\$ 2500	
<b>Total</b>							\$ 750	2800	3750	24200	24800	28400	24800	33600	33800	\$ 176900

THE NEW JERSEY ZINC EXPLORATION COMPANY

DATE: March 15 1952

Boggs Venture Optioned Property

STATE: Arizona	S. P. N.:
COUNTY: Yavapai	EXPLORATION:
TOWNSHIP: Bradshaw	DRAWN: W.L.J.
SECTION:	TRACED:
REVISION:	
REVISION NO.:	Ar. Ar. 16-1