



## **CONTACT INFORMATION**

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PRINTED: 05/30/2002

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: ORD MERCURY

ALTERNATE NAMES:  
INDIAN CLAIMS

GILA COUNTY MILS NUMBER: 346B

LOCATION: TOWNSHIP 7 N RANGE 9 E SECTION 12 QUARTER SW  
LATITUDE: N 33DEG 57MIN 27SEC LONGITUDE: W 111DEG 23MIN 50SEC  
TOPO MAP NAME: RENO PASS - 7.5 MIN

CURRENT STATUS: PAST PRODUCER

COMMODITY:  
MERCURY

BIBLIOGRAPHY:

USGS RENO PASS QUAD  
BLM MINING DISTRICT SHEET 128  
ADMMR ORD MERCURY MINE FILE  
FALCK J M GEOL ORD MINE USGS BULL 1042-R 1958  
USBM IC 8252 MERC POT OF US 1965 P 66  
AZBM BULL 180 MIN & WATER RES AZ 1969 P 228  
ADMMR AMITY MINING & EXPL CO INC FILE  
ADMMR NEW PROJECTS FILE  
LAUSEN C & E D GRADNER QUICKSILVERS RESOURCES  
AZ AZBM BULL 122 P 98-102  
USAEC PRELIM RECONN REPT 271-480 P 26  
ADOT HIWAY MAP 1975 P 3  
PAT. CLAIMS EXTEND INTO SECS 11, 12, 13, 14  
& 15

ORD MINE

GILA COUNTY

USGS Bull. 1042-R

IC 8252

ABM Bull. 122

AEC 172-480 (No U<sub>3</sub>O<sub>8</sub>)

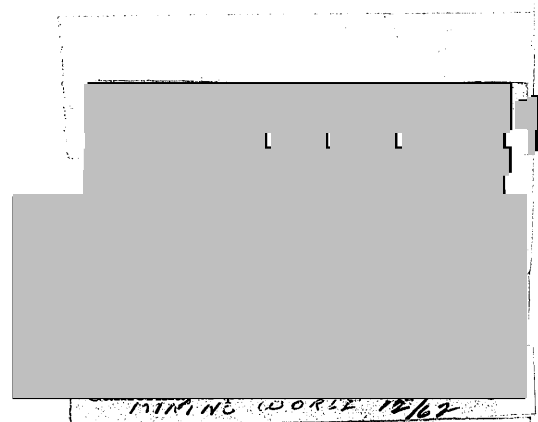
Geology of the Ord Mine  
Mazatzal Mountains, Quicksilver  
District *USGS Bull 1042 R.*

E&MJ July 1965 p. 100 (COPY IN FILE)

Plat of Survey in "Cypress Group" (file)

Mining World Dec. 1962 p. 36 (COPY IN FILE)

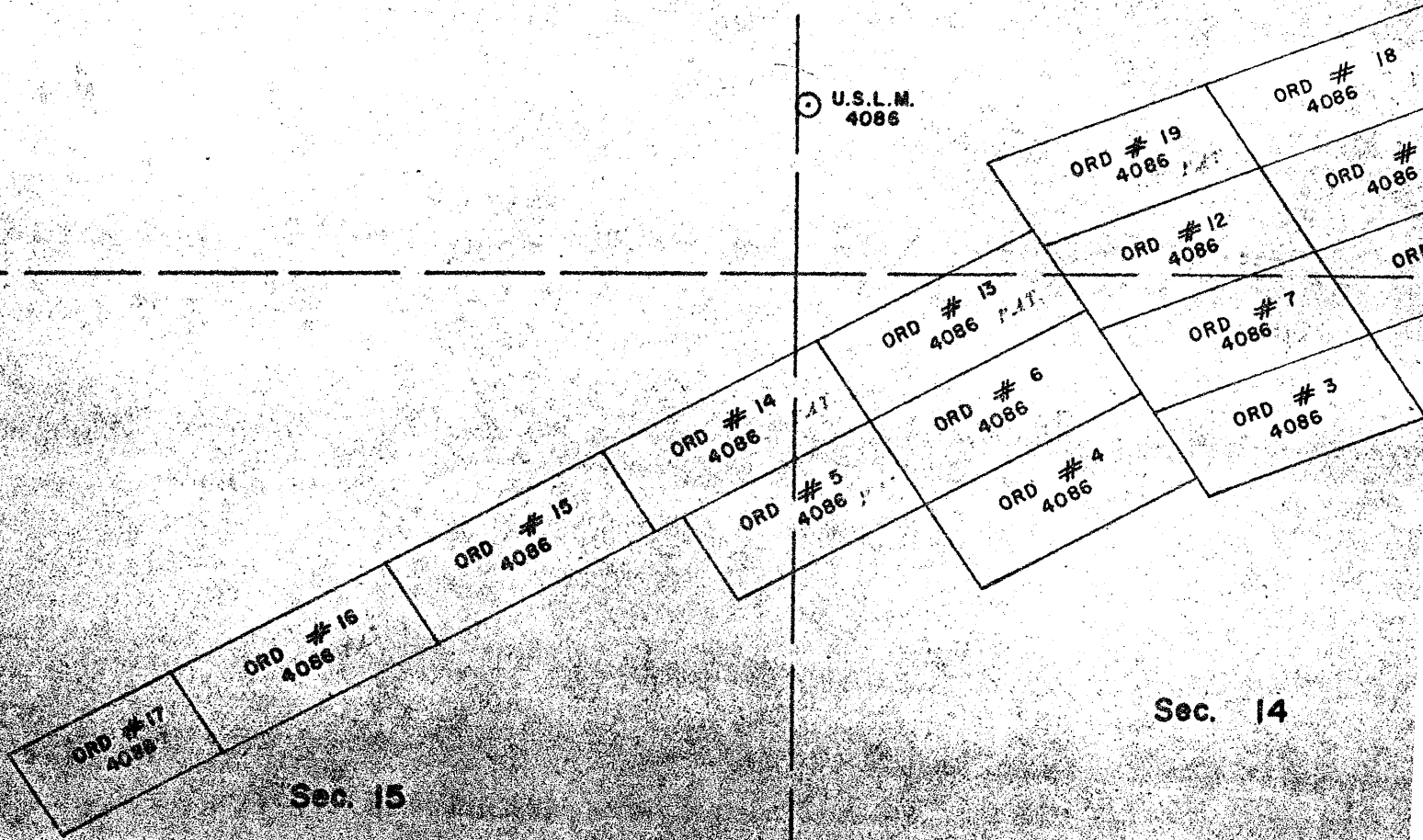
ABM Bull. 180, p.228



Sec. 10

Sec. 11

U.S.L.M.  
4086



Sec. 15

Sec. 14

Arizona Department of Mines and Mineral Resources

INFORMATION FROM MINE CARDS IN MUSEUM

ARIZONA

6114

MARICOPA COUNTY

MM 4915 Metacinnabarite  
K606 Cinnabar in quartz

ORD MINE  
Sunflower Dist.

MILS #

346 B

1-AKA

ORD Mercury (6)

Gold

Grand Prize  
out of Payson

Grady Harrison

Phone Pay Garage

Tom Russel

Ord Mercury

2-12' wide 6 P vein

series of veins

shat 1/2 mile wide

several veins join

6 P vein

500 to 600' long

75' wide

Manzabeta to verburden

5 to 6 per ton

Holes scattered

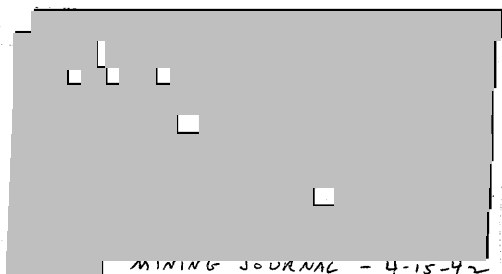
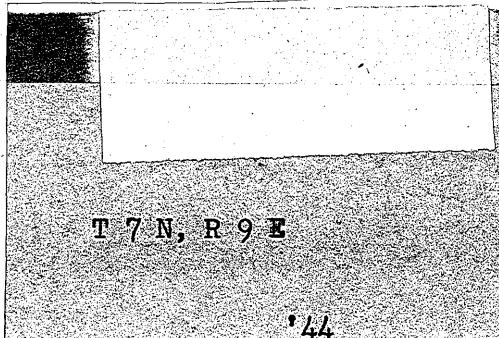
COUNTY: GILA  
DISTRICT: SLATE CREEK  
METALS: HG

STATUS

744

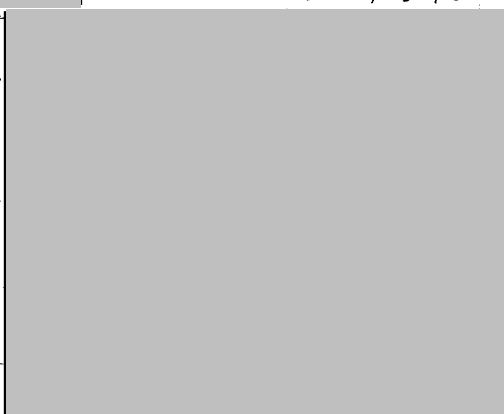
Shipping & milling

Idle



MINING JOURNAL - 4-15-42

MINING JOURNAL 4/30/42



March 5, 1957

ORD MERCURY

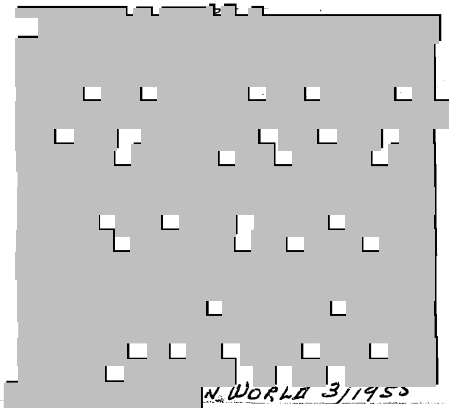
Purchased by Uranium Enterprises, Inc.

(Vance Thornburg), 258 S. Scottsdale Rd.,

Scottsdale \_\_\_\_\_, 1954.

Operated by Uranium Enterprises for about three months  
in Spring of 1954.

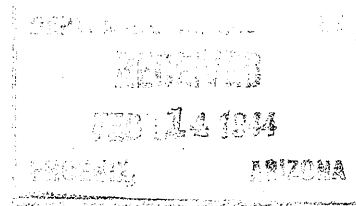
B. J. SQUIRE



✓ I handed this to Smith today. The other address, however, was OK too.

Bill Broadgate

February 7, 1944



MEMORANDUM

ORD MERCURY MINE

TO: W. C. Broadgate

FROM: J. S. Coupal

I am enclosing a copy of a letter received from Tom Russell, Manager of the Ord Mercury Mine, Tonto Basin, Arizona. You will note that this letter is incorrectly addressed to attention of DeWitt C. Schieck. It should have been attention DeWitt C. Smith so that it may possibly not reach Mr. Smith's attention unless you bring the copy I am enclosing to his attention personally.

I have just received your memorandum of February 2 on quicksilver wherein you state that "in his opinion where there was less than 11 months ore showing in mine reserves, Metals Reserve Company would probably take the delivery rather than pay the penalty." It would seem from this that the man who had developed reserves is being penalized which is hardly fair. If they would figure these reserves on technically blocked out ore, I imagine no harm would be done as the small mines practically never really block out their ore.

I am advising the other two producers in Arizona of the memorandum you sent and I am advising them to also write Metals Reserve asking that their delivery be taken up to December 31, 1944 and give their reasons for their request.

*J. S. Coupal.*

JSC:LP  
Enc.



February 28, 1944

Mr. Tom Russell  
Ord Mercury Mine  
Tonto Basin, Arizona

Dear Tom:

I have just received a memorandum from W. C. Broadgate, Assistant Director for the Department in Washington, saying that he had taken up the question of an adjustment for the Arizona producers of mercury and after some decided effort, had been able to arrange through Messrs. Carlisle and Joralemon to have an engineer named Sampson make careful examination of your property so as to report facts which would justify some modification of the proposed settlement made on January 31 regarding your production of mercury up to December 31, 1944.

I would be pleased to know the results of such examination and be of any further assistance possible to you.

Yours very truly,

J. S. Coupal, Director

JSC:LP

February 7, 1944

MEMORANDUM

ORD MERCURY MINE

TO: W. C. Broadgate

FROM: J. S. Coupal

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JSC:LP  
Enc.

August 4, 1942

Mr. Whitworth  
O.D.T. Allocation Office  
804 Security Building  
Phoenix, Arizona

Dear Mr. Whitworth:

Mr. Tom Russell, whom I have known for many years actively engaged in mining, is now the operating manager of the work on the Ord Mercury Mines under a partnership agreement with Tyree Trobaugh and Grady Harrison.

I have been on the property and know from personal observation that the operations are well managed and effective in the production of quicksilver. At present they have 20 men at work and are operating the furnace which is of special design by the former engineer, L. E. Foster.

They are now handling about 21 tons a day from the old Ord workings and are opening up the No. 1 shaft. During the past month they have produced 44 flasks of quicksilver and have definite plans for stepping this production up to double its present output.

I feel as though Mr. Russell and his associates are fully qualified for permit to purchase a pick-up truck, which is very vital for moving in and out supplies from an isolated spot such as Slate Creek where the Ord Mine is located. This operation is very vital for a steady output of quicksilver from our Arizona mines.

With best wishes and kindest regards, I am

Yours very truly,

J. S. Coupal, Director

JSC:LP

ORD MERCURY MINE  
TONTON BASIN, ARIZONA

COPY  
OCTOBER 1, 1945

Hon. Carl Hayden  
U. S. Senator from Arizona  
Washington, D. C.

Dear Sir:

Enclosed herewith is a copy of a claim we are filing with Metals Reserve Company, under the War Contract Settlement Act. We have taken a beating on this deal that will put us out of business unless we can do something about it.

The mercury situation being what it is and continued heavy imports from Spain have killed what hope we had of post war market at a reasonable price. All we can plan now is try and save our property from going back to the original owners.

I cannot feel but that if we would lay off Spanish mercury that was piled up here during the war, we would have a good demand here for sometime.

We were put out of the gold mining by the war and are in no position to resume it now as our mine is flooded and caved in, but if we can get our obligations met now we will be able to go ahead here in a small way and possibly come out alright.

I understand that so far mines have been left out of the picture under the War Contract Settlement Act, but cannot see how they can continue to ignore our predicament for very long. For one thing, I have about twenty men who have been, and still are, in the armed forces, that were depending on me for post war jobs. I can still provide these jobs if we can get this situation straightened out. My case is very typical of conditions with all war emergency mines and mercury in particular seems to be a stepchild that will be left to shift for itself in peace times. I think our domestic mines should be protected somehow.

If there is anything you can do to help us by seeing that our claim gets prompt consideration, we will appreciate it very much.

Sincerely yours,

ORD MERCURY MINE  
s/ Tom Russell  
Manager

CARTER GLASS, VA., CHAIRMAN

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CARL HAYDEN, ARIZ.  
ELMER THOMAS, OKLA.  
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HARRY S. TRUMAN, MO.  
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FRANCIS MALONEY, CONN.  
DENNIS CHAVEZ, N. MEX.

GERALD P. NYE, N. DAK.  
STYLES BRIDGES, N. H.  
HENRY CABOT LODGE, JR., MASS.  
RUFUS C. HOLMAN, OREG.  
WALLACE H. WHITE, JR., MAINE  
CHAN GURNEY, S. DAK.  
C. WAYLAND BROOKS, ILL.

# United States Senate

COMMITTEE ON APPROPRIATIONS

October 10, 1945

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

Mr. Tom J. Russell  
Manager  
Ord Mercury Mine  
Tonto Basin, Arizona

My dear Mr. Russell:

I want to thank you for your letter of October 1, with which you transmitted a copy of the claim of the Ord Mercury Mine submitted under the provisions of the Contract Settlement Act of 1944.

Please let me say that I have requested Honorable Charles B. Henderson, Chairman of the Board of Directors at the Reconstruction Finance Corporation, to have very careful consideration given to this claim, and as soon as I have a report from Senator Henderson, I shall get in touch with you again.

With every good wish, I am,

Yours very sincerely,

*Carl Hayden*

CARTER GLASS, VA., CHAIRMAN  
KENNETH MCKELLAR, TENN.  
CARL HAYDEN, ARIZ.  
ELMER THOMAS, OKLA.  
MILLARD E. TYDINGS, MD.  
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DENNIS CHAVEZ, N. MEX.  
JAMES M. MEAD, N. Y.  
BURNET R. MAYBANK, S. C.  
ABE MURDOCK, UTAH

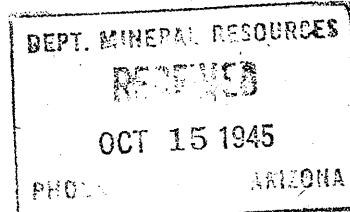
STYLES BRIDGES, N. H.  
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CHAN GURNEY, S. DAK.  
C. WAYLAND BROOKS, ILL.  
CLYDE M. REED, KANS.  
HAROLD H. BURTON, OHIO  
JOSEPH H. BALL, MINN.  
RAYMOND E. WILLIS, IND.  
HOMER FERGUSON, MICH.  
KENNETH S. WHERRY, NEBR.

# United States Senate

COMMITTEE ON APPROPRIATIONS

October 10, 1945

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



Mr. Charles H. Dunning  
Director  
Department of Mineral Resources  
304 Home Builders Building  
Phoenix, Arizona

My dear Mr. Dunning:

Attached hereto for your information are copies of communications I have today addressed to Honorable Charles B. Henderson, Chairman of the Board of Directors at the Reconstruction Finance Corporation and to Tom J. Russell at Tonto Basin, Arizona, relative to the Ord Mercury Mine.

With every good wish, I am,

Yours very sincerely,

*Carl Hayden*

CARTER GLASS, VA., CHAIRMAN

KENNETH MCKELLAR, TENN.  
CARL HAYDEN, ARIZ.  
ELMER THOMAS, OKLA.  
JAMES F. BYRNES, S. C.  
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## United States Senate

COMMITTEE ON APPROPRIATIONS

October 10, 1945

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

Honorable Charles B. Henderson  
Chairman, Board of Directors  
Reconstruction Finance Corporation  
Washington 25, D. C.

My dear Senator:

I am transmitting herewith the original and copy of a letter addressed to me on October 1 by Mr. Tom J. Russell, Manager of the Ord Mercury Mine, Tonto Basin, Arizona, together with a copy of a claim submitted by this gentleman to the Metals Reserve Company on behalf of the Ord Mercury Mine and in accordance with the provisions of the Contract Settlement Act of 1944.

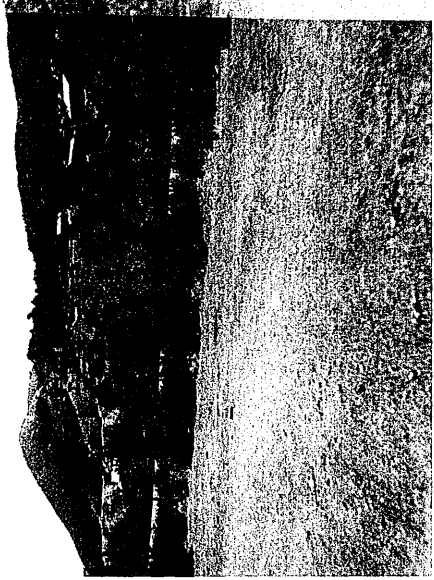
Despite the tenor of the decisions reached thus far, I continue to be hopeful that a liberal attitude will be adopted toward such cases whenever the claim in question possesses merit so that there will be no repetition of the many difficulties that resulted under the terms of the War Minerals Relief Act of 1919.

I shall be most appreciative if you will be kind enough to keep me fully advised as to progress of this claim.

With kindest personal regards, I am,

Yours very sincerely,

*Carl Hayden*  
U. S. S.





ORD MINE

~~ORD MINE~~

GILA COUNTY

Conference with James McFarland and Gordon Grimes at Sunflower Store

These men now have secured leases on the Ord and Blue Bird Quicksilver mines. The Rattlesnake Mill has been improved. They hope to obtain finances to begin mining at the Ord where some good grade reserves are said to be available after a little preliminary work. The price of quicksilver is good.

Gordon Grimes address is: P.O. Box 761  
Payson, Arizona

James McFarland address is: P.O. Box 308  
Payson, Arizona

They are contemplating an OME loan.

Memo LAS 2-27-64

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Conference with H. C. Smith, Box 347, Globe, Arizona

Mr. Smith said that he held a lease agreement with Thornburg to work the Ord. At present three men and he are repairing the mill adit portal, and plan to go on and repair the adit as far as the main 160-foot winze. He mentioned that he expected this is a tough schist since the damage had been caused by unusually wet weather which had "oiled" the schist and made it very heavy. It was suggested that he obtain a copy of USGS Bull. 1042-R which dealt specifically with the geology of the Ord Mine (1958), since he was generally unfamiliar with the Ord area. He has so far been unable to secure mine maps. His plans must remain a bit fluid until he can learn more about the mine.

He trucked 73 tons of 2½ lb. material to the Rattlesnake mill and according to Grimes slightly over 2 lb. per ton was recovered. Grimes estimated his extraction about 85 percent. This was material from the old Ord dumps. LAS Memo 2-23-66

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Active Mine List Oct. 1966 - Expl.

Visit and conferences with James Popovich (Pine Mountain) and a workman revealed that H. C. Smith of Globe was still exploring for ore in the Ord and had no success with his small retort. Some of the dump ore (1 to 2 lbs. to the ton) was treated previously at the Rattlesnake Mill under the supervision of Gordon Grimes of Payson. (Due to car trouble I was unable to visit the mill but no work seemed to be going on as seen from the highway.) Memo LAS 10-25-66

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RRB WR 10/3/86: The Gila County Assessor's office reports that the Ord Mine, Sunflower District, Gila County, is owned by Sunchief Mines.

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ORD MINE

SUNFLOWER DIST., GILA CO.

Interview with L.D. Cunningham. He reported that he had been paid in full to relieve the labor lein he had on the property. He said that two Gaylor brothers then leased the property and shipped about 40 tons of ore to the Rattlesnake mill. This is reported to have barely paid the milling cost. Cunningham said that these people were in trouble of some sort and he had not seen them of late, and that they had had no mining experience and were not equipped for mining. It was his opinion that much repair work would be required to rehabilitate the mine, as much of it was heavy.

Memo - Lewis A. Smith - 2-7-62

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This property active Oct. 1962

Lee states that O. L. Johnson, still has the lease on the Ord and Bluebird. The Ord is owned by Mercury Mining Corp., Inc., the principal individual being Vance Thornburg. He said Johnson had become delinquent in his royalty payments.

Interview with H. A. Lee, 8220 Camelback Road, Scottsdale  
Memo LAS 2-7-63

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Interview with C. O. Carlson and A. A. Frederickson

These men said that McFarland was still around. Attempts to contact him failed. The Bluebird, according to Frederickson has several short adits aimed at reaching the intersection of the Ord shear zone with two large rhyolite porphyry dikes. It is believed that the best ore potential would be at these intersections. Memo LAS 6-27-63

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MEMO

Blue Bird and Ord

SUNFLOWER DIST.

GILA COUNTY

Mr. McFarland stated that Amity Mining Co.'s options on the Bluebird (owned by C.O. Carlson, Payson and A. Fredrickson, Phoenix) and the Ord (Vance Thornburg et al) is due to terminate near the end of the year. He said that O.L. Johnson, the principal in Amity Mining Co. was heavily in debt and had failed to meet royalty payments and wages. C.O. Carlson stated that he and Fredrickson had recinded their option as of the termination date, because of failure of Johnson to meet any of the stipulated payments.

Mr. McFarland and Gordon Grimes (Payson) are prepared to seek an option on the two mines as soon as the present options are done, provided the properties are optionable. Mr. McFarland outlined an area, on the Bluebird that lies west of and against a large rhyolite dike and which straddles the Ord shear zone. Here he said they had exposed an ore bearing zone that is 1500 feet long, by means of several adits and cuts. This is said to vary from 4 to 20 feet wide. The No. 6 crosscut adit could be driven further west to intersect this zone at about 300 feet below the surface. Should this intersect ore, a considerable reserve would be inferred. This would have to be further checked by drifting along the rhyolite schist contact to the northwest. This would show whether the 1500 feet in between this crosscut and the lowest ore outcrop is all ore or is composed of a series of lenses associated with the projected Ord shear planes and whether the inferred ore zone has consistent width and grade. McFarland said that the ore zone might be quite variable in width. Should the lense theory prevail, it would then appear important to determine if the intervening spaces between the lenses is of sufficient tenor so that a combination of the lense grade and the intervening grade would make ore. Until these theories are verified, any ore reserve figure would be highly problematical, particularly since the Sunflower District quicksilver ore shoots generally tend to be somewhat lenticular, the lenses forming near or at pre-mineral structural intersections. According to both C.O. Carlson and McFarland, several assays across the inferred ore zone at various intervals, show from a few pounds of Hg, up to over 20 pounds per ton.

The ore minerals lie mainly in what appears to be a greenstone schist that contains jasper, brown siderite, or ankerite, and quartz. The ore minerals are cinnabar, and some meta-cinnabarite, native mercury and a "purplish" mineral that may be mercurial tennantite. The outcrop in places shows azurite and malachite, and often shows an orange limonite that is a good indication in this area. There is evidence that this limonite may have resulted in part from alteration of the iron carbonate, which commonly is affiliated with the ore minerals and in part from copper-iron sulphides, such as tennantite (mercurial), chalcopyrite and pyrite. Some blebs of cinnabar up to  $\frac{1}{2}$  inch in width were seen in specimens, but much of the quicksilver bearing material is disseminated in the schist laminae or quartz.

Two or three truck loads of this ore is now stored above the Rattlesnake mill. This, in addition to the minerals previously mentioned, contain considerable calcite that probably was partly instrumental in the formation of the azurite and malachite along with the iron-carbonates.

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

FIELD ENGINEERS REPORT

Mine Bluebird and Ord (Amity Mining & Expl. Date Oct. 24, 1962  
Co., Inc.)  
District Sunflower District - Gila County Engineer Lewis A. Smith  
Subject: Interview with James McFarland

Mr. McFarland stated that operations were temporarily discontinued in lieu of further financing. The recent work uncovered a schist ore zone on the Bluebird claims about 30 feet wide, which assays 7 to 20 pounds in Hg per ton. Two other zones of lower grade (5-7 pounds) were also found. These zones appear to lie on the continuation of the Ord ore-bearing zone. C. O. Carlson stated that the various records indicate that the Ord had produced about 7500 flasks during its history. He also said that Grady Harrison and Tom Russell had excellent ore in the main winze area but had to abandon it because of exceptionally heavy wet ground. The greenish schist slabs readily when wet. McFarland had repaired about 130 feet of the main Ord winze out of 165 feet. He said Tom Russell had said that there is very good ore in the 165 foot level drift which bears west from the winze. The ore occurs in green to dark gray, thin-bedded and chloritic schist laced by narrow quartz, veinlets or kernels, and the schist frequently contains some copper as azurite and malachite stain. This ore is comparatively free of antimony or arsenic and consequently retorts well. Where the ore bearing zone outcrops can be seen, the oxidized cappings over the Ord orebodies are quite similar to those on the Bluebird. A very typical orange-brown limonite is usually associated with the better cinnabar ore outcrops. Siderite is commonly an accessory mineral. This orange-brown limonite could be an alteration product from the siderite as well as pyrite.

In the Bluebird claims, the ore zones are usually closely affiliated with a white opaque quartz. The quartz itself contains veinlets, blebs and impregnations of cinnabar, metacinnabarite and affiliated native quicksilver along with some siderite or ankerite. These same ore minerals are in the intervening schist areas, and the bulk of the mined ore was schist. The Ord ore concentrations are usually at oblique "slip-dip" fault crossings of the schist lamanae. There is considerable indication of similar structural conditions on the Bluebird claims. Mr. Carlson, who, with A. A. Frederickson, owns these claims, also believes that this is so. He also stated that the ore bodies generally are lenses and that the intervening areas between the lenses are considerably lower grade than in the leases.

**DEPARTMENT OF MINERAL RESOURCES**

STATE OF ARIZONA

**FIELD ENGINEERS REPORT**

Mine Ord Mine

Date February 3, 1960

District Sunflower Dist., Gila Co.

Engineer Lewis A. Smith

Subject:

A conference with L. D. Cunningham, Caretaker of the Ord, revealed that Thornburg wants to sell the mine. He also stated that a lack of money had prevented proper care of the mine workings. As a result they are deteriorating rapidly and some of the deeper workings are under water. He stated that Vance Thornburg's brother was killed in a hunting accident and that the affairs of the mine had been placed under James F. Poulos, Thornburg Lumber Company, 7th and Pitkin Streets, Grand Junction, Colorado. The property now consists of 20 patented claims.

DEPARTMENT OF MINERAL RESOURCES  
STATE OF ARIZONA  
FIELD ENGINEERS REPORT

Mine  Ord Mine (Quicksilver)

Date October 4, 1957

District Sunflower, Maricopa County

Engineer Lewis A. Smith

Subject:

Owners:  Vance Thornburg - 258 S. Scottsdale Rd. Scottsdale

Property: <sup>error</sup> Sec. 17, R9E, T7N., was purchased by Thornburg from Tom Russell and Grady Harrison, about three years ago.

Work: Two miles of underground workings in mica-silicite schist containing numerous narrow quartz veinlets. General average milled by Thornburg was about 10 pounds of quicksilver per ton. He had a 20 ton retort and broke about even, the plant being a Gould furnace. Thornburg now plans to install an increased sized and an improved version of the Gould, the change being based on the operative principal of a Hersholdt furnace. The principal difficulty with the ore is the high kaolin content. When the ore is wet it becomes slimey and very hard to handle because the wet kaolin seals up the finely disseminated cinnibar. Since the bulk of the ore is finely disseminated in the schist, the problem is serious. Russell said, that the altered flowsheet may remove this obstacle. Since Russell and Harrison were mainly working above this local water table, they failed to encounter this trouble. Thornburg has since driven a long tunnel below the water table so that the wet area can thus be reduced somewhat.

DEPARTMENT OF MINERAL RESOURCES  
STATE OF ARIZONA  
FIELD ENGINEERS REPORT

Mine  ORD MERCURY MINES

Date June 4, 1942

District

Engineer Fred H. Perkins

Subject: SURVEY OF OPERATING MINES

Ord Mercury Group

Tyree Trobaugh, Mgr., Tonto Basin P. O.

Tom Russell, Supt. of Mine & Mill

Grady Harrison

Co-partnership

Ord Mine

Located 60 miles North of Mesa, Arizona, and 30 miles south of Payson on the Bush Highway.

1941 Production all in Mercury about \$18,000.

Unable to estimate tonnage due to plant capacity, but approximately 9125 tons or 25 tons per day. Has complete grinding plant and retorts, which has produced 800 flasks of quicksilver. 750 flasks sold to Quicksilver Producers Ass., 340 Towne Avenue, Los Angeles, California. 50 flasks sold to F. W. Berk, San Francisco, California.

1942 Production at rate of 2 flasks or better per day.

500 ft. of shafts and winzes and 3 miles of drifts and cross-cuts.

Average vein thickness is 4 feet.

Average ore value is  $\frac{1}{2}$  of 1% in quick.

Total force in mine and mill 16 men, working one shift.

PROBLEMS: - Mr. Trobaugh says now that he has installed a grinding step for oversize his only problem is to change to Diesel type for power.

In the very near future he can make his plant full Diesel type and his troubles are over.

*M. J. 4086  
Dec. 11 15  
770 R 9. E.*





A settlement on the Item 8 "B" elective by the Metals Reserve will mean that the operators will have to depend upon the open market for the sale of their quick-silver and have facing them repayment of the \$30,000 loan to the R.F.C. and an additional \$6,000 in royalties to the owner before they can obtain full title to the property. Tom Russell figures that with a continuation of the \$192 per flask by Metals Reserve to December 31, 1944, their operations can pay back the R.F.C. loan, make final payments on the property and will then be relieved of the 15% royalty and can continue to operate at a profit on a lower market.

The labor employed on this operation are all local ranchers or have local interests which would keep them in the district and not have them available for other war industries unless pressed into other service by draft regulations. The average number of men employed is from 17 to 18 men with a wage of \$6.00 per day to miners. Several of the miners are working under lease and are receiving more than the \$6.00 per day.

Prior to December 20, 1943, these operators sold their mercury to F. W. Burke and Company (Coast Chemical Division), Los Angeles, California. A "qualified" contract was granted this operation on December 20, 1943. The application for "qualified" producers was made on December 4.

It may be added that Tom Russell, who is the most active of the three copartners in this operation, was shipping gold ore prior to the L-208 gold closing order and when shut down under this order moved his equipment and started work on the Ord Mine.

MEMO

9-15-62

AMITY MINING & EXPLORATION CO., INC.

LEWIS A. SMITH

Sunflower Dist., Maricopa Co.

Interview with James McFarland, Box 308, Payson (Foreman) and Grady Harrison at Payson.

Mr. McFarland stated that Amity has acquired a lease-option on the Ord Mine from the Vance Thornburg interests. Thus far, they have cleaned out the main haulage adit, level with the top of the Ord Mill, and have repaired an old winze down for 100 feet. The winze, according to Grady Harrison, was extended, by Tom Russell and himself, to 165 feet, and a 40-foot drift driven in a westerly direction. (Mr. Harrison stated that this was done immediately before they sold to Vance Thornburg.) Russell and Harrison mined some relatively rich ore from a stope above the cross-cut but the ground was very wet and heavy and the stope was lost. They had started to work back into the area when the mine ownership changed. The winze also contained some 7-15 pound ore. McFarland plans to clean up more of the tunnel and has so far found some of the good ore reported by Harrison.

Further work was done on the Bluebird to the east of the Ord, where cuts have disclosed some good ore in two main zones. 12 men are now employed at the Bluebird and the Ord.

It is also planned to acquire the Rattlesnake Mill. Gordon Grimes, also interviewed, said he had traded his interest in the Pine Mountain and Bernice Mines to Bill Bronson for Bronson's interest in the Rattlesnake Mill. He will then sell or lease the Rattlesnake Mill to Amity. If this all materializes, the Amity Company will improve the mill and increase the capacity to 25 or 30 tons of ore per day.

According to John N. Faich, ("Geology of the Ord Mine, Mazatzal Mountains, Quicksilver District, Arizona": U.S.G.S. Bull. 1042-R, (1958) pp. 685-698) the quicksilver ore occurs in the phyllites and is closely associated with conspicuous zones of bleaching and alteration in which the phyllites has been converted to sericite schist, seemingly by processes associated with ore deposition. These altered zones, called "ore" zones (if they carry appreciable amounts of quicksilver) are localized along inconspicuous shear zones and bedding-plane faults that are, in general, conformable to the foliation of the phyllites. The ore occurs in narrow, small, lenticular bodies most of which strike east-northeast, stand nearly vertical and rake steeply westward. Most orebodies are irregular in shape and rarely have definite walls, some have central parts of comparatively high-grade ore which grades outward into sub-marginal ore or barren

Amity Mining & Exploration Co., Inc.

Lewis A. Smith

wallrock. Most of the ore consists of disseminated cinnabar in altered phyllite. However, Cinnabar also is present in narrow quartz veins, some of which contain considerable amounts of siderite. Some native mercury is found in the upper workings, and mercurian tennantite is abundant in ore exposed in the lower workings.

The deepest ore in the Ord Mines is about 375 feet below the surface, and this relatively shallow depth indicates that considerable caution should be used in future exploration for downward extensions of the ore bodies.

In some areas, the alteration zones are affiliated with pre-mineral rhyolite porphyry dikes such as in the Pine Mountain. In the Bluebird claims east of the ore, mafic dikes appear in places. These are highly altered and may have been associated with ore deposition in that they appear to have been altered by hydrathermal solutions.

Modern History: The Ord mine has produced over two thousand flasks of quicksilver since 1926. Grady Harrison, T. J. Russell, and Tyree Trobaugh (Mercury Mines Co.) under an R.F.C. loan produced 9,082 tons of ore from which 812 flasks of mercury was recovered, an average recovery of 6.8 pounds per ton of ore. This was gross valued at \$126,674. The mine was idle from 1946 to 1952, when the mine was reopened in 1952 by Tom Russell et al, who, under a D.M.E.A. loan did exploration work below the 200-foot level. Around 8 flasks from 14 tons of ore ("black ore") was obtained from the 240-foot level. On July 1, 1954, Uranium Enterprises Inc. (Vance Thornburg, et al) secured a lease option and exercised the option in 1955. This Company treated 2530 tons of ore, yielding 148 flasks of mercury, for an average recovery of 4.48 pounds of quicksilver per ton of ore. Of a total production of 2100 flasks--nearly 1000 tons was obtained since 1946.

The general trend of the Ord orebodies appears to be toward the Bluebird claims, which now are being developed. However, because of the lenticular character of the old or developed orebodies, the prospecting for new orebodies is relatively expensive and should be done under relatively close control by a geologist.

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

Date August 1st. 1940

1. Mine  Ord Mercury Mine
2. Location Address Tonto Basin, Ariz.
3. Mining District & County Brown Mining District  
Gila County, Ariz.
4. Former name  
 Mercury Mines Of America
5. Owner of Patented Claims  
 W. V. Ranney
6. Address (Owner) Highland, Cal.
7. Operator Owner
8. Address (Operator)
9. President, Owning Co.
- 9A. President, Operating Co.
10. Gen. Mgr.  L. E. Foster, Tonto Basin, Ariz
14. Principal Minerals  Cinnabar
11. Mine Supt.  J. D. Hill  
& Secretary
15. Production Rate Approx 30 tons per day
12. Mill Supt.
16. Mill: Type & Cap.
13. Men Employed 25
17. Power: Amt. & Type  
Furnace 60 HP Gasoline  
Compressors 100 HP Gasoline
18. Operations: Present  
Mining & furnacing average  
July 28½ tons per 24 hours
19. Operations: Planned
20. Number Claims, Title, etc.  
20 Patented claims  
10 claims under lease & option
21. Description: Topography & Geography  
  
See Federal and State bulletins on this area
22. Mine Workings: Amt. & Condition  
Approx 4000 feet drifts & cross-cuts  
600 ft shafts raises & winzes

23. **Geology & Mineralization** The Mazatzal Range is composed almost entirely of pre-Cambrian crystalline rocks - granite rocks and crystalline schists. The prevailing types are quartz sericite schist and Phyllite. See State & Federal bulletins.

24. **Ore: Positive & Probable, Ore Dumps, Tailings**

There are a number of showings indicating considerable tonnage available with little development work. At this time approximately 1000 tons in sight and broken.

24A. **Dimensions and Value of Ore body**

25. **Mine, Mill Equipment & Flow-Sheet**

Two mines and furnace fully equipped and operating  
Living quarters camp facilities.

26. **Road Conditions, Route**

80 miles from Phoenix over Bush Highway.  
80 miles from Globe, Ariz. over "Apache Trail" highway and Payson Highway.

27. **Water Supply**

Spring and pumped wells sufficient for domestic use and operation under normal conditions.

28. **Brief History**

Property was partly developed by Arizona Quicksilver Corporation in 1925 - 1927; then taken over by Mercury Mines of America who carried on additional development work and produced \$125,000.00 in quicksilver in 1927-1929 and closed down in general crises of 1929.

29. **Special Problems, Reports Filed**

30. **Remarks**

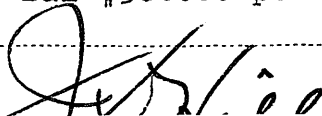
31. **If property for sale: Price, terms and address to negotiate.** Address correspondence relative to property to J. D. Hill or

L. E. Foster Tonto Basin, Ariz.

Price total \$31,000.00

cash 16,000.00 Bal \$500.00 per month

32. **Signature**.....



33. **Use additional sheets if necessary.**

SUBJECT: Ord Mercury Mine

ENGINEER: Ken A. Phillips

DATE: April 1, 1983

Sorted and organized material in the Ord Mercury Mine file, Gila County. A copy of a portion of the BLM Mining District sheet #128 was added to the file. This map shows the location of a group of surveyed and some patented claims, the Ord #1-#20, mineral survey #4086 in Sections 11, 12, 13, 14 and 15, T7N R9E. These claims plus possibly others made up the Ord Mine, also known as the Ord Mercury Mine. A community "Stalker Village" and a portion of the mill and retort for the mine were all destroyed and the rubble buried by highway construction crews when State Highway 87 along Slate Creek was widened in the mid 1970's.

OFFICE MEMO

HIGHWAYS DIVISION  
P. O. Box 1410  
Payson, Arizona 85547

April 19, 1988

*Orig*

TO: BRUCE KAY  
Materials Geotechnical Serv.

FROM: THEODORE L. BLEM  
Trans. Eng. Spec.

RE: PROJECT VLT 053-1-512  
Mesa-Payson Hwy.  
(Ord Mine-Jct. SR 188, Unit II)

Attached please find plotted sections of the borrow source available for use on Project F 053-1-517. The quantity of material available is in excess of 17,000 cubic yards.

If you have any questions regarding the above matter, please feel free to contact me at the Payson Construction Office.

*Theodore L. Blem*

TLB:bf

pc: Cordes Const. Office  
✓ Payson Const. Office

*16,000 cy*



-36.1  
123°

-9.7  
85°

-9.6  
62°

0°  
0°  
1523.750

1042.90 SF

-31.9  
111°

-15.3  
80°

-15.3  
63°

-5.8  
16°

0°  
0°  
1522.00

460.90 SF

-32.0  
135°

-3.7  
73°

0°  
0°  
1525+50

918.25 SF

-31.0  
129°

-4.7  
71°

0°  
0°  
1524+50

797.35 SF

-24.4  
99°

-7.0  
69°

0°  
0°

1527+50

495.30 SF

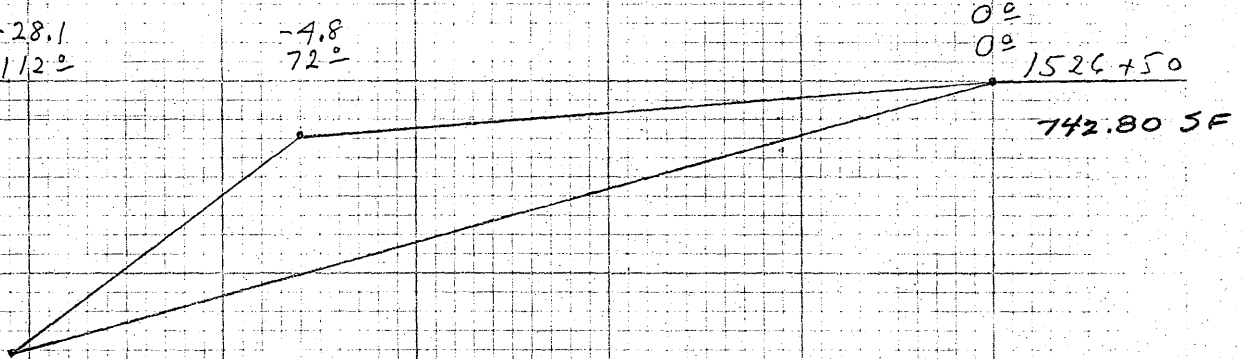
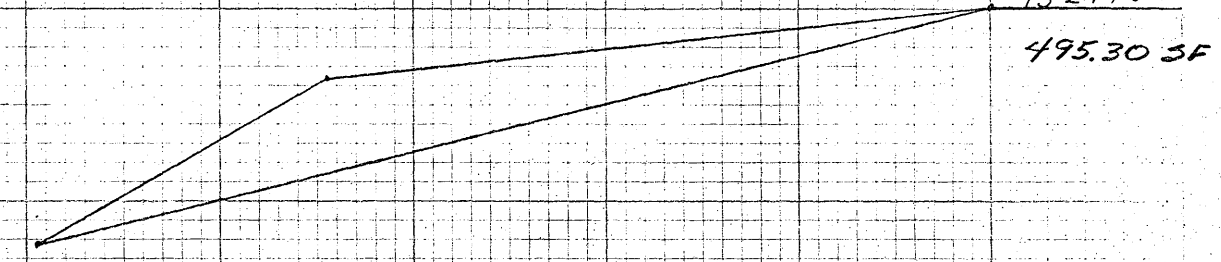
-28.1  
112°

-4.8  
72°

0°  
0°

1526+50

742.80 SF



-27.0  
98°

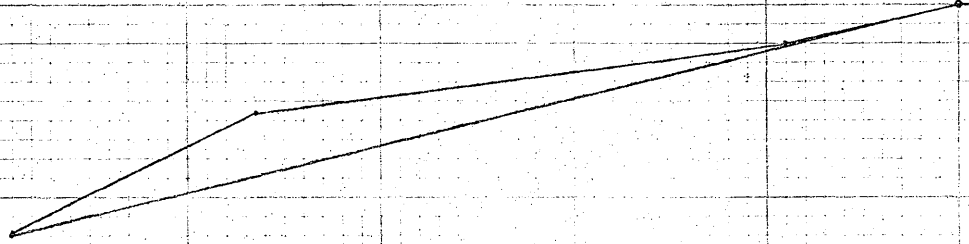
-11.1  
73°

-7.0  
18°

0°  
0° 1528+50

286.00 SF

17,578 Cu. Yd



DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

FIELD ENGINEERS REPORT

Mine Ord Mine (Quicksilver) Date October 4, 1957  
District Sunflower, Maricopa County Engineer Lewis A. Smith  
Subject:

Owners: Vance Thornburg - 258 S. Scottsdale Rd. Scottsdale

Property: Sec. 17, R9E, T7N., was purchased by Thornburg from Tom Russell and Grady Harrison, about three years ago.

Work: Two miles of underground workings in mica-siricite schist containing numerous narrow quartz veinlets. General average milled by Thornburg was about 10 pounds of quicksilver per ton. He had a 20 ton retort and broke about even, the plant being a Gould furnace. Thornburg now plans to install <sup>an</sup> increased sized and an improved version of the Gould, the change being based on the operative principal of a Herholdt furnace. The principal difficulty with the ore is the high kaolin content. When the ore is wet it becomes slimey and very hard to handle because the wet kaolin seals up the finely disseminated cinnibar. Since the bulk of the ore is finely disseminated in the schist, the problem is serious. Russell said, that the altered flowsheet may remove this obstacle. Since Russell and Harrison were mainly working above this local water table, they failed to encounter this trouble. Thornburg has since driven a long tunnel below the water table so that the wet area can thus be reduced somewhat.

OLD MERCURY MINES

June 4, 1943

Fred H. Perkins

SURVEY OF OPERATING MINES

Old Mercury Group

Lyons Frobaugh, Mgr., Tomba Basin P. O.  
Tom Russell, Supt. of Mine & Mill  
Grady Harrison  
Co-partnership

Old Mine

located 60 miles North of Mesa, Arizona, and 30 miles south of Payson on the Bush Highway.

1941 Production all in Mercury about \$12,000.

Unable to estimate tonnage due to plant capacity, but approximately 9125 tons or 25 tons per day. Has complete grinding plant and retorts, which has produced 800 flasks of quicksilver. 750 flasks sold to Quick-silver Producers Ass., 540 Terra Avenue, Los Angeles, California. 30 flasks sold to F. W. Deit, San Francisco, California.

1942 Production at rate of 2 flasks or better per day.

500 ft. of shafts and winzes and 3 miles of drifts and cross-cuts.

Average vein thickness is 4 feet.

Average ore value is  $\frac{1}{2}$  of 1¢ in quick.

Total force in mine and mill 16 men, working one shift.

PROBLEMS: - Mr. Frobaugh says now that he has installed a grinding stop for oversize his only problem is to change to Diesel type for power.

In the very near future he can make his plant full Diesel type and his troubles are over.

## OLD SILVER MINE

June 4, 1968

Fred H. Carlson

### SUMMARY OF OPERATING MINE

#### Old Mercury Group

Byron Trenchard, Mgr., Santa Rosa, N. C.  
Tom Russell, Supr. of Mine & Mill  
Candy Harrison

#### Co-partnership

#### Old Mine

Located 60 miles North of Reno, Arizona, and 30 miles south of  
Payson on the Bush Highway.

1967 production all in Mercury about \$13,000.

Unable to estimate tonnage due to plant capacity, but approximately  
215 tons of 25 tons per day. The complete grinding plant and rotors,  
which has produced 210 flasks of quicksilver. 700 flasks sold to quick-  
silver producers Ass., 540 Texas Avenue, Los Angeles, California. 10  
flasks sold to F. H. Dorr, San Francisco, California.

1968 Production at rate of 2 flasks or better per day.

100 ft. of chert and veins and 2 miles of drifts and some-ore.

Average vein thickness is 4 feet.

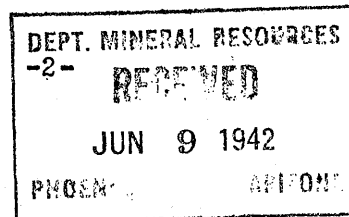
Average ore value is  $\frac{1}{2}$  of 1¢ in quick.

Total force in mine and mill 16 men, working one shift.

REMARKS: - Mr. Trenchard says now that he has installed a grinding stop  
for grinding his only problem is to change to blast type for power.

In the very near future he can make his plant full blast type and his  
troubles are over.

SURVEY OF OPERATING MINES



ORD MERCURY MINES

Problems

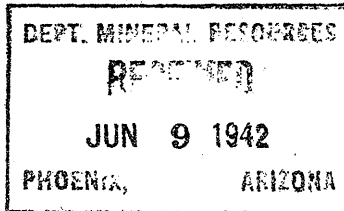
Mr. Trobaugh says now that he has installed a grinding step for  
oversize his only problem is to change to Diesel type for power.

In the very near future he can make his plant full Diesel type  
and his troubles are over.



SURVEY OF OPERATING MINES

By: Fred H. Perkins



June 4, 1942

ORD MERCURY MINES

Ord Mercury Group

- ✓ Tyree Trobaugh, Mgr., Tonto Basin P. O.
- ✓ Tom Russell, Supt. of Mine & Mill
- ✓ Grady Harrison  
Co-partnership.

Ord Mine

Located 60 miles North of Mesa, Arizona, and 30 miles south of Payson on the Bush Highway.

1941 Production all in Mercury about \$18,000.

Unable to estimate tonnage due to plant capacity, but approximately 9125 tons or 25 tons per day. Has complete grinding plant and retorts, which has produced 800 flasks of quicksilver. 750 flasks sold to Quicksilver Producers Ass., 340 Towne Avenue, Los Angeles, California. 50 flasks sold to F. W. Berk, San Francisco, California.

1942 Production at rate of 2 flasks or better per day.

500 ft. of shafts and winzes and 3 miles of drifts and cross-cuts. Average vein thickness is 4 feet.

Average ore value is  $\frac{1}{2}$  of 1% in quick.

Total force in mine and mill 16 men, working one shift.

Production:

M 0 - 18

DEPARTMENT OF MINERAL RESOURCES  
STATE OF ARIZONA  
OWNERS MINE REPORT

Date August 1, 1940

- 1. Mine  Ord Mercury Mine
- 2. Mining District & County Brown Mining District  
Gila County
- 3. Former name
- 4. Location Address: Tonto Basin, Arizona.
- 5. Owner  Mercury Mines of America of Patented  
Claims - W. V. RANNEY
- 6. Address (Owner) Highland, California.
- 7. Operator
- 8. Address (Operator)
- 9. President
- 10. Gen. Mgr.  L. E. Foster, Tonto Basin, Ari
- 11. Mine Supt. J. D. Hill  (and Secretary)
- 12. Mill Supt.
- 13. Principal Metals  Cinnabar
- 14. Men Employed Twenty-five (25)
- 15. Production Rate approx. 30 tons per day
- 16. Mill: Type & Cap.
- 17. Power: Amt. & Type Furnace 60 HP Gasoline  
Compressors 100 Hp Gasoline
- 18. Operations: Present  
Mining and furnacing average July 28-1/2 tons per 24 hours

19. Operations Planned

20. Number Claims, Title, etc. 20 Patented claims - 10 calims under lease and option.

21. Description: Topography & Geography See Federal and State bulletins on this area

22. Mine Workings: Amt. & Condition Approx. 4000 feet drifts and cross-cuts - 600 ft. shafts  
raises and winzes.

23. Geology & Mineralization The Mazatzal Range is composed almost entirely of pre-Cambrian crystalline rocks - granite rocks and crystalline schists. The prevailing types are quartz sericite schist and Phyllite. See State and Federal bulletins.
24. Ore: Positive & Probable, Ore Dumps, Tailings There are a number of showings indicating considerable tonnage available with little development work. At this time approximately 1000 tons in sight and broken.
- 24-A Vein Width, Length, Value, etc.
25. Mine, Mill Equipment & Flow Sheet Two mines and furnace fully equipped and operating. Living quarters - camp facilities.
26. Road Conditions, Route 80 miles from Phoenix over Bush Highway.  
80 miles from Globe, Arizona over "Apache Trail" Highway and Payson Highway.
27. Water Supply Spring and pumped wells sufficient for domestic and operation use under normal conditions.
28. Brief History Property was partly developed by Arizona Quicksilver Corporation in 1925-1927 then taken over by Mercury Mines of America who carried on additional development work and produced \$125,000.00 in quicksilver in 1927-1929 and closed down in general crises of 1929.
29. Special Problems, Reports Filed
30. Remarks
31. If property for sale: Price, terms and address to negotiate. Address correspondence relative to property to J. D. Hill or L. E. Foster, Tonto Basin, Arizona.  
Price total \$31,000.00 - cash \$16,000.00 - Balance \$500.00 per month.
32. Signed/sd/ J. D. Hill
33. Use additional sheets if necessary.

**DEPARTMENT OF MINERAL RESOURCES**  
**STATE OF ARIZONA**  
**OWNERS MINE REPORT**

*rust*

Date **August 1, 1940**

1. Mine **Ord Mercury Mine**
2. Mining District & County **Brown Mining District  
Gila County**
3. Former name
4. Location **Address: Tonto Basin, Arizona**
5. Owner **Mercury Mines of America of  
Patented Claims - W. V. BARNES**
6. Address (Owner) **Highland, California**
7. Operator
8. Address (Operator)
9. President
10. Gen. Mgr. **L. E. Foster, Tonto Basin, Ariz.**
11. Mine Supt. **J. D. Hill ( and Secretary)**
12. Mill Supt.
13. Principal Metals **Cinnabar**
14. Men Employed **twenty-five (25)**
15. Production Rate **approx. 30 tons per day**
16. Mill: Type & Cap.
17. Power: Amt. & Type **Furnace 60 HP Gasoline  
Compressors 100 HP Gasoline**
18. Operations: Present  
**Mining and furnacing average July 28-1/2 tons per 24 hours**
19. Operations Planned
20. Number Claims, Title, etc. **20 Patented claims - 10 claims under lease and option**
21. Description: Topography & Geography **See Federal and State bulletins on this area**
22. Mine Workings: Amt. & Condition **Approx. 4000 feet drifts and cross-cuts, 600 ft. shafts raised  
and winzes.**

23. Geology & Mineralization     The Catal Range is composed almost entirely of pre-Cambrian crystalline rocks - granite rocks and crystalline schists. The prevailing types are quartz pericite schist and Phyllite. See State and Federal bulletins.
24. Ore: Positive & Probable, Ore Dumps, Tailings     There are a number of showings indicating considerable tonnage available with little development work. At this time approximately 1000 tons in sight and broken.
- 24-A Vein Width, Length, Value, etc.
25. Mine, Mill Equipment & Flow Sheet     Two mines and furnace fully equipped and operating. Living quarters and camp facilities.
26. Road Conditions, Route     80 miles from Phoenix over Bush Highway.  
80 miles from Globe, Arizona over "Apache Trail" Highway and Payson Highway.
27. Water Supply     Spring and pumped wells sufficient for domestic and operation use under normal conditions.
28. Brief History     Property was partly developed by Arizona Quicksilver Corporation in 1925 - 1927; then taken over by Mercury Mines of America who carried an additional development work and produced \$125,000.00 in quicksilver in 1927-1929 and closed down in general crises of 1929.
29. Special Problems, Reports Filed
30. Remarks
31. If property for sale: Price, terms and address to negotiate.     Address correspondence relative to property to J. D. Hill or L. B. Foster, Ponto Basin, Arizona.  
Price \$131,000.00 - cash \$16,000.00 - balance \$500.00 per month.
32. Signed..... /s/ J. D. Hill
33. Use additional sheets if necessary.

MO-18

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

ADMINISTRATIVE & RECORDS

Date August 1, 1940

- 1. Mine  Ord Mercury Mine
- 2. Location Address: Tonto Basin, Arizona
- 3. Mining District & County Brown Mining Dist.  
Gila County
- 4. Former name
- 5. Owner Mercury Mine of American of Patented Claims--H. V. Ramsey
- 6. Address (Owner) Highland, California
- 7. Operator
- 8. Address (Operator)
- 9. President, Owning Co.
- 9A. President, Operating Co.
- 10. Gen. Mgr.  L.R. Foster, Tonto Basin, Arizona
- 11. Mine Supt. J. D. Hill (and Secretary)
- 12. Mill Supt.
- 13. Men Employed Twenty-five
- 14. Principal Minerals  Cinnabar
- 15. Production Rate Approx. 30 tons per day
- 16. Mill: Type & Cap.
- 17. Power: Amt. & Type Furnace 60 HP Gasoline  
Compressor 100 HP Gasoline
- 18. Operations: Present

Mining and furnating average July 28-1/2 tons per 24 hours.

19. Operations: Planned

20. Number Claims, Title, etc. 20 patented claims--10 claims under lease and option.

21. Description: Topography & Geography

See Federal and State bulletins on this area.

22. Mine Workings: Amt. & Condition Approx. 4000 ft. drifts and cross-cuts--600 ft. shafts raised and winzes.

**Geology & Mineralization**

The Mazatzal Range is composed almost entirely of pre-Cambrian crystalline rocks--granite rocks and crystalline schists. The prevailing types are quartz & mica schist and Phyllite. See State and Federal Bulletins.

**Ore: Positive & Probable, Ore Dumps, Tailings**

There are a number of showings indicating considerable tonnage available with little development work. At this EREMA time approximately 100 tons in sight and broken.

**Dimensions and Value of Ore body**

**Mine, Mill Equipment & Flow-Sheet**

Two mines and furnace fully equipped and operating living quarters--camp facilities.

**Road Conditions, Route**

40 miles from Phoenix over Bush Highway  
50 miles from Globe, Arizona over "Apache Trail" Highway and Payson Highway.

**Water Supply**

Spring and pumped wells sufficient for domestic and operation use under normal conditions.

**Brief History**

Property was partly developed by Arizona Quicksilver Corp. in 1925-1927; then taken over by Mercury Mines of America who carried on additional development work and produced \$125,000.00 in quicksilver in 1927-1929 and closed down in general crisis of 1929.

**Special Problems, Reports Filed**

**Remarks**

If property for sale: Price, terms and address to negotiate. Address correspondence relative to property to J. D. Hill or L. E. Foster, Tomba Basin, Arizona. Price total \$31,000.00--cash \$16,000.00--Balance \$500.00 per month.

32. Signature..... (Signed) J. D. Hill.....

MO-18

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

Date August 1, 1940

- 1. Mine **Ord Mercury Mine** 2. Location Address: **Tonto Basin, Arizona**
- 3. Mining District & County **Brown Mining Dist.  
Gila County**
- 4. Former name
- 5. Owner **Mercury Mines of America of Patented  
Claims--W. V. Ranney** 6. Address (Owner) **Highland, California**
- 7. Operator 8. Address (Operator)
- 9. President, Owing Co. 9A. President, Operating Co.
- 10. Gen. Mgr. **L.E. Foster, Tonto Basin, Arizona** 14. Principal Minerals **Cinnabar**
- 11. Mine Supt. **J. D. Hill (and Secretary)** 15. Production Rate **Approx. 30 tons per day**
- 12. Mill Supt. 16. Mill: Type & Cap.
- 13. Men Employed **Twenty-five** 17. Power: Amt. & Type **Furnace 60 HP Gasoline  
Compressors 100 HP Gasoline**
- 18. Operations: Present

Mining and furnacing average July 28- $\frac{1}{2}$  tons per 24 hours.

19. Operations: Planned

20. Number Claims, Title, etc.

20 patented claims--10 claims under lease and ~~option~~ option.

21. Description: Topography & Geography

See Federal and State bulletins on this area.

22. Mine Workings: Amt. & Condition

Approx. 4000 ft. drifts and cross-cuts--600 ft. shafts  
raises and winzes.



**Geology & Mineralization** The Mazatzel Range is composed almost entirely of pre-Cambrian crystalline rocks--granite rocks and crystalline schists. The prevailing types are quartz sericite schist and Phyllite. See State and Federal Bulletins.

**Ore: Positive & Probable, Ore Dumps, Tailings** There are a number of showings indicating considerable tonnage available with little development work. At this time approximately 1000 tons in sight and broken.

**Dimensions and Value of Ore body**

**Mine, Mill Equipment & Flow-Sheet** Two mines and furnace fully equipped and operating Living quarters--camp facilities.

**Road Conditions, Route** 80 miles from Phoenix over Bush Highway  
80 miles from Globe, Arizona over "Apache Trail" Highway and Payson Highway.

**Water Supply** Spring and pumped wells sufficient for domestic and operation used under normal conditions.

**Brief History** Property was partly developed by Arizona Quicksilver Corp. in 1925-1927; then taken over by Mercury Mines of America who carried on additional development work and produced \$125,000.00 in quicksilver in 1927-1929 and closed down in general crises of 1929.

**Special Problems, Reports Filed**

**Remarks**

Property for sale: Price, terms and address to negotiate. Address correspondence relative to property to J. D. Hill or L. E. Foster, Tonto Basin, Arizona.  
Price total \$31,000.00--cash \$16,000.00--Balance \$500.00 per month.

32. Signature.....(Signed)....J. D. Hill.....

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

U.S. GEOLOGICAL SURVEY

Date August 1, 1940

- 1. Mine **Ord Mercury Mine**
- 2. Location **Address Tonto Basin, Arizona**
- 3. Mining District & County **Brown Mining Dist.  
Gila county**
- 4. Former name
- 5. Owner **Mercury Mine of America of Patented  
Claims--T. V. Amney**
- 6. Address (Owner) **Highland, California**
- 7. Operator
- 8. Address (Operator)
- 9. President, Owning Co.
- 9A. President, Operating Co.
- 10. Gen. Mgr. **L. J. Foster, Tonto Basin, Arizona**
- 14. Principal Minerals **Cinnabar**
- 11. Mine Supt. **J. D. Hill (and Secretary)**
- 15. Production Rate **Approx. 30 tons per day**
- 12. Mill Supt.
- 16. Mill: Type & Cap.
- 13. Men Employed **Twenty-five**
- 17. Power: Amt. & Type **Furnace 60 HP Gasoline  
Compressors 100 HP Gasoline**
- 18. Operations: Present  
  
**Mining and furnacing average July 28-1/2 tons per 21 hours.**
- 19. Operations: Planned
- 20. Number Claims, Title, etc. **20 patented claims--10 claims under lease and option.**

- 21. Description: Topography & Geography  
  
**See Federal and State bulletins on this area.**
- 22. Mine Workings: Amt. & Condition  
  
**Approx. 4000 ft. drifts and cross-cuts--600 ft. shafts  
raises and winzes.**

**Geology & Mineralization**

The Mineral Range is composed almost entirely of pre-Cambrian crystalline rocks—granite gneiss and crystalline schists. The prevailing type are quartzite, gneiss and Phyllite. See State and Federal Bulletins.

**Ore: Positive & Probable, Ore Dumps, Tailings**

There are a number of showings indicating considerable tonnage available with little development work. At this mine line a room is 10 feet in width and depth.

**Dimensions and Value of Ore body**

**Mine, Mill Equipment & Flow-Sheet**

Two mines and furnace fully equipped and operating. Living quarters—can facilities.

**Road Conditions, Route**

50 miles from Phoenix over Bush Highway  
80 miles from Globe, Arizona over "Apache Trail" Highway and Puyosa Highway.

**Water Supply**

Spring and pumped wells sufficient for domestic and operation use under normal conditions.

**Brief History**

Property was partly developed by Arizona Consolidated Corp. in 1925-1927; then taken over by Mercury Mines of America who carried on additional development work and raised \$100,000.00 in 1927-1929 and closed down in general strike of 1929.

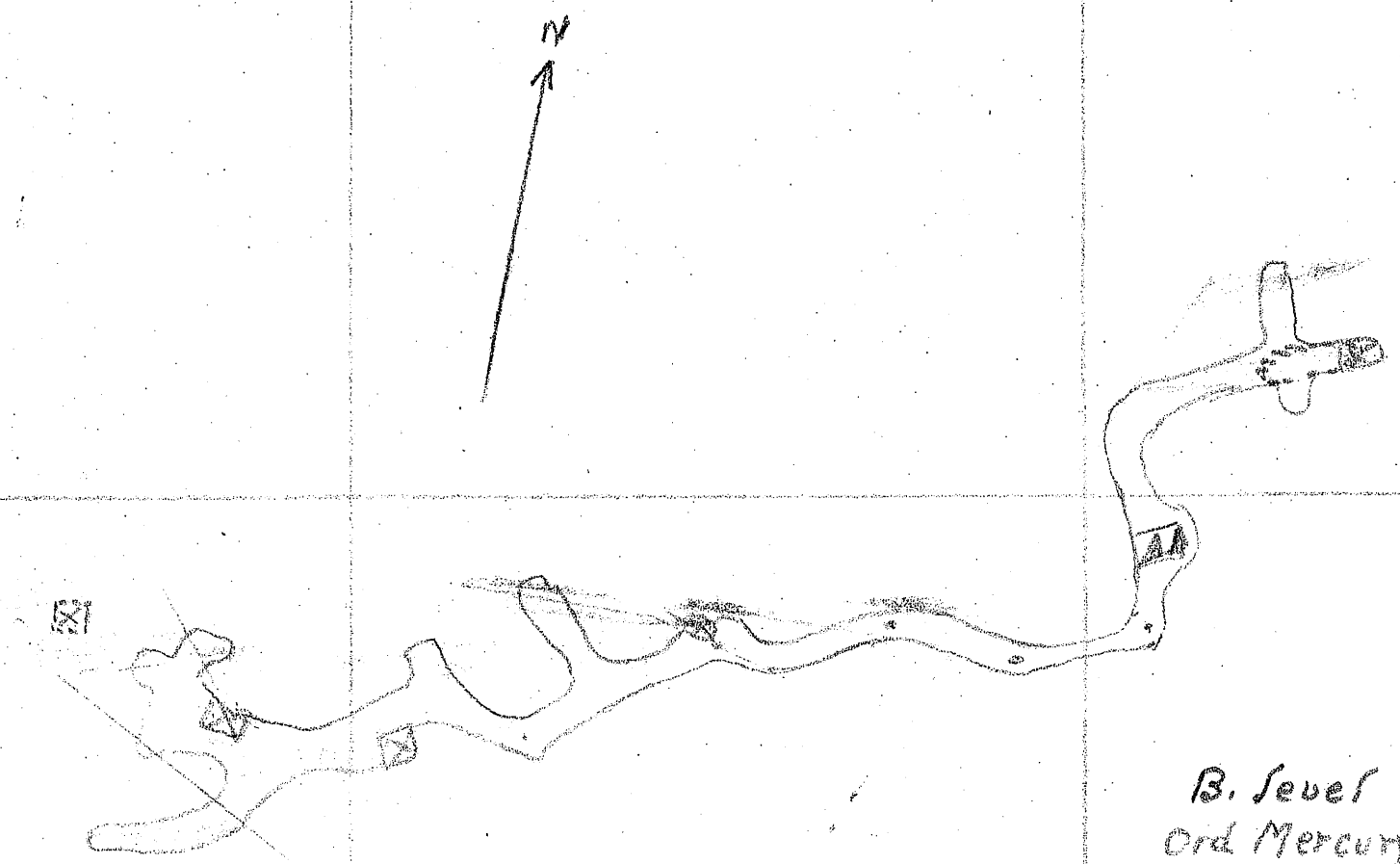
**Special Problems, Reports Filed**

**Remarks**

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

Address correspondence relative to property to J. D. Hill or L. E. Foster, Ponto Basin, Arizona.  
Price total \$31,000.00—cash \$16,000.00—Balance \$15,000.00 per month.

32. Signature.....(Signed) J. D. Hill



B. Level Winze.  
Ord Mercury Mine  
100 Level  
scale 1" = 30' June 29, '45.  
Tom J. Russell.

DEPARTMENT OF MINERAL RESOURCES

News Items

Date 10/21/40

Mine OLD MERCURY MINE

Location SLATE CREEK.

Owner OLD MERCURY MINES CO.

Address TONTO - ARIZ.

Operating Co. HAVE 30 MEN. -

Address REPAIRING CAMP FOR WINTER.

MINING 500 TO 600 TONS

Pres. PER MONTH.

Genl. Mgr. PRODUCING 35 TO 65 FLASKS

Mine Supt. OF MERCURY PER MONTH.

Mill Supt. INSTALLED NEW DIESEL

Principal Metals ENGINE & PUMP ON

Men Employed RATTLESPARK CLAIM &

Production Rate SHINING WORKING SHAFT

Mill, Type & Capacity ANOTHER 100 ft.

Power, Amt. & Type

Signed J.C.

(Over)

DEPARTMENT OF MINERAL RESOURCES

News Items

Date 4/26/40

Mine Ord Mercury Mines

Location On Slate Creek in Mazatzal Mts.

Owner Ord Mercury Mines

Address Tonto Basin, Ariz.

Operating Co. Same

Address

Pres. W. V. Ranney

Genl. Mgr. L. E. Foster

Mine Supt. J. D. Hill

Mill Supt.

Principal Metals Quicksilver

Men Employed About 20

Production Rate

Mill, Type & Capacity Furnace designed by

L. E. Foster. Capacity approx. 50 tons da

Power, Amt. & Type

Signed

(Over)

DEPARTMENT OF MINERAL RESOURCES

News Items

Date July 29, 1940

Mine Ord Mercury Mine

Location On Slate Creek, near Tonto Basin.

Owner W. V. Ranney

Address Highland, Calif.

Operating Co.

Address

Pres.

Genl. Mgr. L. E. Foster

Mine Supt. J. D. Hill

Mill Supt.

Principal Metals Quicksilver

Men Employed About 30

Production Rate 2 Flasks per day

Mill, Type & Capacity

Power, Amt. & Type

Signed

(Over)

Present Operations

Have been getting mines on Ord Group in shape for production, and will start mining ore from here within the next few days. Production from the Rattlesnake New Work Planned group is suspended, and the mine crew will be employed on development work. The main shaft will be sunk another 50 feet in depth.

Furnace operations have been entirely

Misc. Notes successful and satisfactory, and regular recovery and shipments of quicksilver are being made. With production coming from the Ord Group, the furnace will operate continuously instead of on a two shift basis.

(Over)

Present Operations Having sunk the shaft an additional 50 feet and cross-cut to the vein at that level, production from the Rattlesnake Group has been resumed; and this has been added to the production from the New Work Planned Ord Group. Work is proceeding upon a steady basis with the furnace in continuous operation, and regular shipments of quicksilver are being sent out to purchasers in California.

Misc. Notes

(Over)