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Arizona Department of Mines and Mineral Resources Mining Collection

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TOUT MINE COCHISE COUNTY

Memo from Frankie Derrick 4/18/88: Tom McGarvin from the AZ Geological Survey called and asked for the phone number and address for Jim Tout at Willcox, AZ. I gave him the information I had on a card. He wanted to find out who now owned the Mascot Mine (file) Cochise County (MILS 84). Later Tom called back and said he had talked with Mrs. Tout and she said the Mascot Mine had been in her husbands family for many years, but its now owned by the Klump family (Dos Cabezas) and is used for grazing land.

TOUT MINES COCHISE COUNTY

Mr. H. Lehman reports that Aztec Mining Company and its predecessor the Arivaca Mining Company quit working the Old Central Copper Company (Tout) mines because its ore was too low grade. GWI QR 9/1969

Black Prince mine talked to Louis Stickradt. GWI WR 2/8/72

Mine visit. Central Copper & Dives. Mine. Not operating. GWI WR 4/4/72

Learned in the field that Mr. Charles Lee of the Gordon Miles Mining Company of Dos Cabezas, Arizona, Beverly Hills, California, had been doing a little drilling up on the Central Copper property which they have possession of at the present time. Other than that and some little assessment work in the area, very little work is being done at the present time. GWI WR 10/3/72

Louis Stickradt, Willcox, reported that nothing was going on at the old Central Copper and Mascot Mines and that the Miles Company was not doing anything. GWI WR 10/22/73

Mine visit - Central Copper mine. Mine visit - Oregon shaft (where the Central Copper mine started). Mine visit - Mascot Mine. GWI WR 10/10/76

MG WR 3/9/84: Visited the Mascot (Tout) mine (Cochise County). There is no visable sign of recent activity. All frame buildings except one about 400 feet southeast of the Number 1 Tunnel are totally collapsed. The Number 1 Tunnel, in NE¼ Sec 21, T14S R27E, is partly dammed to provide water for cattle (?). The concrete portal and adit appear to be in excellent condition. The Consolidated Tunnel is to the west-northwest, in the SW¼, Sec 16 T14S R27E, of the Number 1 Tunnel. Although the concrete portal is still standing at the Consolidated Tunnel, the ground behind the portal is caved. Water flows from both tunnels. The waste dump at the Number 1 Tunnel is relatively small. There are fairly numerous dumps, however, at the Consolidated Tunnel. Several small dumps contain abundant magnetite with minor chalcopyrite. The ruins of a large, multi-compartment ore hopper are near the Consolidated Tunnel. An airial tram reportedly ran from this hopper to the mill (ruins) in the SE¼, Sec 29 T14S R27E.

MG WR 5/24/85: Mr. Jim Tout, HCR 2, Box 7450, Willcox, Az. reports he (and the Tout family?) still owns the Mascot mine in Cochise Co. He did not say how much of the patented claims in that area he actually controls.

Tout, Edwin I. 8-22-42
Tucson Metals Mfg. Company
Tucson, Arizona ~~50 7 Valley Nat'l Bldg.~~
Rt. 6, Box 642
See T File
Re - letter from steel mill operator
See TOUT MINE - Re application for pick-up truck 8-13-43
See TOUT MINE - Re access road
See TOUT MINE - re gas application 3-9-44
" " " " " 10-28-44
7-21-45

NAME OF MINE: TOUT COUNTY: COCHISE
DISTRICT:
METALS: CU E

DATE:	OPERATOR AND ADDRESS:	DATE:	MINE STATUS
~~5/1/44~~	E.I.Tout,Dos Cabezas	~~5/1/44~~	Shipping
7/44	Central Copper Co. holdings, Spark & Ross, Lessees		
8/44	8 Men Employed 6½ mile access road completed		

TOUT

Cu, Au

Cochise 2 - 2 S 9, T 14 S, R 27 E

Central Copper Co., Dos Cabezas '45

ELMA MINE

Cu

Cochise 2 - 2

~~L. E. Stickradt, Box 44, Dos Cabezas~~
E. I. Tout, Rt. 6, Box 642, Tucson '45

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Mascot Mine Date Dec. 14, 1955

District Dos Cabezas District -- Cochise Co. Engineer Axel L. Johnson

Subject: Field Engineer's Report. Personal Visit and information from E. I. Tout, owner.

Location About 7 miles north of Dos Cabezas.

Owner E. I. Tout, Catalina Foothills Estate, Tucson, Arizona.

Operator Same as above.

Principal Minerals Copper ore, principally sulphides, with some carbonates.

Number of Men Employed 2. (1 shift, 5 days per week)

Production Rate About 3/4 ton per day. About 16 to 17 tons per month.

Geology Ore occurs in a vein about 18 inches wide, with 9 inches of the wall rock on each side also containing slight ore values. The ore is mainly sulphides with bornite, chalcopyrite and chalcocite being the principal minerals. The ore also contains a considerable amount of copper carbonates.

Ore Values Mr. Tout reports that the ore mined and stockpiled to date has averaged about 23 % in copper, 19 oz. in Silver, and about 0.4 oz in Gold, and should yield about $ 200 a tom. He expects the ore to continue running over 20 % copper.

Milling and Marketing Facilities Ore will be shipped to the A. S. & R. smelter at El Paso, Texas.

Present Operations Stoping ore above the Mascot Tunnel, and stockpiling same prior to shipments to the smelter.

Note On account of the fact that Mr. Tout informed me that the mine workings were not very safe to enter at the time of my visit, and that Mr. Tout, himself, was getting ready to leave to meet an appointment, I did not examine the mine workings. I did, however, examine the ore on the stockpile. I shall examine the mine workings on my next visit in the area.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Tout Mines Date April 10, 1957

District Dos Cabezas District, Cochise Co. Engineer Axel L. Johnson

Subject: Field Engineers Report. Information from Russell R. McLellan and Personal Visit.

Location 4 1/2 to 8 miles north of Dos Cabezas.

Number of Calims 31 patented claims
56 unpatented claims.

Owners Edwin I. Tout, Tucson, Ariz.

Option to Purchase Utex Exploration Co., Moab, Utah. This option was executed on Dec. 26, 1956. The option is for the purchase of the property with monthly payments provided for. No detailed information on the terms of the option could be learned. M. C. Bandy, the former manager of the operations is leaving the company on April 12. Russell R. McClellan will take charge of the operations at that time. Home address of Mr. McClellan is Moab, Utah. (at present staying at the mine.)

Principal Minerals Copper with some Gold.

Present Mining Activity Exploration by means of diamond drilling and sampling.

Geology and Mineralization Predominating country rock is diorite and monzonite, with dykes of rhyolite and breccia. A number of narrow veins contain relatively high ore values (see report of the Mascot under date of Dec. 14, 1955). Most of the ore found, however, is of low grade and requires milling.

Milling and Marketing Facilities No mill on the property. The exploration program being conducted, at present, is to determine if there is enough milling grade ore available to warrant the construction of a mill. The Utex Exploration Co. purchased the Tombstone mill about the same time as the option was taken, and it is possible that this mill might be dismantled and reasembled for use near the mine site, if this is found to be practical.

Past History and Production This property has been worked in the past by several operators including American Smelting and Refining Co. (during World War 1); Central Copper Co. (1925-30); Pickrath and Irvin; and E. I. Tout. Consult some of the old office files for more detailed information.

Old Mine Workings and Condition (1) Elma Shaft (vertical)--- about 300 ft. deep. Dewatered by Utex Exploration Co. to depth of 195 ft. 1st level at 40 ft. below collar. 2nd level is 113 ft. below collar. 3rd level is 163 ft. below collar. Considerable old stoping above the 3rd level, but no stoping below the 3rd level. Only weak indications of ore showing below the 4th level acc. to the maps of the mine.

(2) Consolidated shaft (vertical), with long main tunnel connecting with shaft. Tunnel is equivalent to the 4th level. Filled with water up to the tunnel level (4th level).

(3) Mascot Tunnel (reported as "Mascot Mine" under date of Dec. 14, 1955.)

Present Exploration Activity Moab Drilling Co., Moab, Utah, is drilling a few diamond drill holes, about 150 ft. deep, drilled on 45 deg. incline, AX core being used. The object is to test part of the rock formation near the surface, which has not previously been explored. (Holes limited to 150 ft. below the surface). Will continue for 3 wks.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Tout Mines (continued) Date April 10, 1957

District Dos Cabezas District, Cochise Co Engineer Axel L. Johnson

Subject: Field Engineers Report.

Present Exploration Activity (continued)

Besides the diamond drilling program, the following sampling has been done on this property.

(1) Sampling of the levels from the Alma shaft. First, Second and Third levels have now been completed. Sampling was started on Feb. 20, and all the sampling will be completed in about one week more.

(2) Sampling of the Consolidated shaft workings down to the 4th level tunnel and including same.

(3) Sampling of the Mascot Tunnel and other workings on the Mascot.

Proposed Plans Present plans, according to Mr. McLellan, is to map and assemble all the information obtained, at their office in Moab, Utah; and determine from this information if this property can be operated at a profit, and what milling operations will be required to concentrate the ore. While this is being done, there will be no work done on the property.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

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DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Tout Mines (continued) Date April 10, 1957

District Dos Cabezas District, Cochise Co Engineer Axel L. Johnson

Subject: Field Engineers Report.

Present Exploration Activity (continued)

Besides the diamond drilling program, the following sampling has been done on this property.

(1) Sampling of the levels from the Alma shaft. First, Second and Third levels have now been completed. Sampling was started on Feb. 20, and all the sampling will be completed in about one week more.

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Tout *

Sept. 28, 1942

Dos Cabezas

George A. Ballam

Production Possibilities Survey

The following information is submitted supplementing that contained in Henderson report which was reviewed by Mr. Tout and brought up to date:

He has purchased the 125 ton mill of Consolidated Gold Co. about 1½ miles from his property. The mill is complete, diesel power, and ready to go. There is considerable shipping ore on the property, but Mr. Tout believes he can run the mill to capacity with the expenditure of money available under B loan, for development work opening up new faces.

He asked this department to find an operator for him, a man who could handle both mine and mill. Ran into Walter Sim yesterday. He had been unable to make a deal with Schuster of Great Western on less than 20% although he had option in past for 7½. Hasn't given up trying although it looks hopeless. Got him in touch with Tout who was impressed and is going over the ground with him next Sunday.

G. A. Ballam

TOTAL COSTS FOR MINING AND MILLING

		Per Ton	
ITEM A.	$43,800	$ .17,	(1)
ITEM B.	140,000	.56	(1)
Mining and trucking to mill		7.50	
Milling		3.50	
Trucking concentrates		.14	
Freight		.63	
Overhead		.50	
Royalty		1.00	
Payment for equipment on hand ($50,000)		.20	
	Total	$14.20	

(1) - Based on 250,000 tons.

NET VALUE OF ORE

According to analysis of concentrates shipped to the smelter at Douglas, Arizona, the average content was:

22% Copper, 8 oz. silver, and .05 oz. gold.

According to Mr. Welch of American Smelting and Refining company the net worth of 1 ton after smelter deductions and charges, is $88.00. From this freight (

REFERRING TO

COPIES TO

SUBJECT

AT

FROM

TO

DATE

INTER-OFFICE MEMORANDUM

TODD-CALIFORNIA SHIPBUILDING CORPORATION

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Tout Mine Date Feb. 15, 1956

District Dos Cabezas District, Cochise Co. Engineer Axel L. Johnson

Subject: Present Status.

Location About 3 miles north of Dos Cabezas.

Number of Claims 31 patented claims
56 unpatented claims.

Owner Edwin I. Tout, Catalina Foothills Estate, Tucson, Ariz.
Local address----Dos Cabezas, Ariz.

Operator Not in operation.

Principal Minerals Copper and Gold

Remarks Ownership the same as July, 1944---your last report.
Mill has been dismantled.

L ATMENT OF MINERAL RESOU

STATE OF ARIZONA

FIELD ENGINEERS REPORT

Mine Tout Mines Date Feb. 16, 1961

District Dos Cabezas District, Cochise Co. Engineer Axel L. Johnson

Subject: Present Status. Information from Edwin I. Tout.

References Report of Jan. 12, 1960, and previous reports.

Mr. Tout reported to me in a telephone conversation of this date that he had sold the mine on monthly payments of $ 1,000 per month to Wayne Spears, Roswell, N. Mex., Clarence Pierson, Willcox, Ariz., et. al. He states that the purchasers are now operating the property, with 4 to 5 men working. Clarence Pierson, ~~Willcox~~, Ariz. is the manager in charge of the operations. Box 1, Dos Cabezas, Ariz.

Engineer visited the Tout Mines on Feb. 9, 1961. He found no one working in the Mascot Tunnel, and no work at the Consolidated, and concluded that the operators had either shut down their operations, or ~~was~~ were taking a vacation. Mr. Tout, however, states that they are working in the shaft further up the hill, and that is why I missed them I presume they are at the old Elma shaft or in that vicinity.

Engineer expects to visit the property again on his next trip to Willcox, Mar. 15 or 16.

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Mascot Mine - 6 men working under H. Lehman, Gen. Mgr. Arivaca Mining Corp., 4301 S. Country Club Drive, Tucson

ACTIVE MINE LIST OCT. 1966

Mine Visit to the Mascot Mill at Dos Cabezas, According to reports they are going to move the equipment and build a 500tpd mill on the Bowie side.

GWI WR 4/8/67

Mine Visit to the Central Copper property (Arivaca Mining Co.) at Dos Cabezas - Gate locked - it has been rumored that all of their equipment has been seized by the sheriff.

GWI WR 12/9/67

Active: Nov. '67 - 12 men - Mascot
" Jan '68 - 4 men - Mascot
" Oct '68 - 4 men - Mascot

Visited mine - found gate locked. GWI WR 11-16-68

Arivaca Min. Co. is defunct as far as the Corporation Commission is concerned, but Mr. Lehman former V.P.& GenMgr. is doing a little work at the Central, Mascot & Elma.
GWI Quarterly Report 12/1968

EXCERPT FROM MINES REGISTER - 1937

CENTRAL COPPER CO. OF ARIZONA - ADDRESS: 548 S. Spring St., Los Angeles, Calif., John W. Prout, Jr. gen. mgr. MINE ADDR: Dos Cabezas, Ariz: Edwin I Tout, lessee.

HISTORY: inc 1919, in Ariz. Co has been inactive since about 1930, but in January, 1936, was reported to have applied for corporate reinstatement in Ariz, presumably having failed to meet its franchise tax in full during the interim. Co was formed originally to take over, on a 50-50 basis the now defunct MASCOT COPPER CO. During 1925, the co acquired by an exchange of stock on a share-for-share basis, all the holdings of the Mascot Copper Co. incl the 15-mi Mascot & Western R.R. which connects Mascot with the S P RR at Wilcox. Stock-selling activities have caused government action in several states, including New York and Pennsylvania. On Feb. 3, 1924, an injunction was granted by N Y Supreme Court against the co to prohibit further sale of its stock in New York State.

SOUTHWEST SECURITIES CO, org in 1928, was said to have a controlling interest in Central Copper.

CAPITALIZATION: $10,000,000; 50¢ par; 19,019998 shs issued. In April 1927, co offered to exchange dollar for dollar, stock receipts for 6% notes of the co bearing interest payable on or after 18 months from date; princ and int to be paid w a i earned from operations or from the sale of stock. No dividends paid.

PROPERTY: consists of 3 units, the Copper, Elma and Mascot, 90 claims, 1,460 acres in the Tevis and Dos Cabezas dists, Cochise county, Ariz, 18 mi E of Willcox.

GEOLOGY: limestone near granite area, intruded by diabase dikes and quarts porphyry with a covering of rhyolite, on which exploration has revealed a complex system of faulting, some vertical and some flattened. The average dip of the faults is about 45° which places the ore on the lower levels at a considerable distance to the SE from the ore on the 4th level. Faulting increases uncertainty of continuous orebodies. Ore occurs in lenses along an altered lime-diabase contact. In many instances chalcopyrite is found in diabase magma and shows a metasomatic replacement. The chalcopyrite occurs in a gangue of contact minerals, with 1 to 20% copper, and a small gold-silver value.

DEVELOPMENT: Mascot unit: by 2,200' tunnel, several vertical shafts and about 44,000' of drifts. Copper unit: 1,700' tunnel, Elma unit: by 450' shaft and about 5,000' drifts. In addition, about 38,000' of diamond drilling has been done.

Early-1936, property was reported under lease to Edwin I Tout, who was shipping gold-copper ore of around $50 gross value from a vein 800' in from the No 1 tunnel, with pilot mill working on the lower grade ore.

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

QUESTIONNAIRE

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

Name of mining property Tout Mine ✓

Location Dos Cabezas, Arizona

Ownership ✓ Edwin I. Tout

Name of Manager Edwin I. Tout

Post Office address Dos Cabezas, Arizona

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

1936 54693# 1937 175,700.# 1938 None

1939 None 1940 9,442.#

1941 rate of copper production based upon first four months.....

How much copper could this property produce annually

on a 14 cent price? .....

on a 16 cent price? 780,000.#

on an 18 cent price? .....

on a 20 cent price? .....

What price copper is necessary for this property? 16¢ 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? .....

.....

a 16 cent price could be assured? Overhaul Mill and install larger compressor. Get mine in shape for production. Cost $15,000.00

18 cent price? .....

.....

20 cent price? .....

.....

For what length of time would assurance of price and sale of full production be necessary? 18 months

(Over)

How long would it take, after financing has been provided, before production on the above basis could be reached? 3 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.

I would be pleased to co-operate in such a program.

What would be your ideas on financing and carrying out such a plan as is indicated by these questions? If price was assured I do not think that it would br difficult to finance through private capital.

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

Date June 7/41 Signed [signature]

Date _____

TO MINING DIVISION
LOS ANGELES COUNTY CHAMBER OF COMMERCE
LOS ANGELES - 15 CALIFORNIA

1. Name of Mine Central Copper
2. Owner's Name and Address E. L. Tout Dos Cabezas, Ariz.
3. Operator's Name and Address Same
4. Location of Mine about 15 easterly from Wilcox Cochise Co.
(Number of Miles N.E.S. or W. of Nearest Town)
5. District Dos Cabezas P.O. Address _____
6. Ore Produced Copper & gold
7. How Developed Tunnels, winze & drift
8. Power used Gasoline
9. Equipment Compressor & drills
10. Number of Men Employed 8
11. Plans for Future Operations further development and increase of ore output
12. Remarks _____

Signed A. Macfarlane
(Please state title)
Field Engr.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Tout ✓ Date Sept. 28, 1942

District Dos Cabezas Engineer George A. Ballam

Subject: Production Possibilities Survey

The following information is submitted supplementing that contained in Henderson report which was reviewed by Mr. Tout and brought up to date:

He has purchased the 125 ton mill of Consolidated ✓ Gold Co. about 1½ miles from his property. The mill is complete, diesel power, and ready to go. There is considerable shipping ore on the property, but Mr. Tout believes he can run the mill to capacity with the expenditure of money available under B loan, for development work opening up new faces.

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G. A. Ballam

July 26, 1952.

Mr. Edwin I. Tout,
Catalina Foothills Estates,
Tucson, Arizona.

Dear Mr. Tout:

After careful deliberation and conferring with Mr. Mowinckle, it is decided that further consideration of your property is not possible at this time.

I am curious to know what figures you were able to obtain from Mr. Welch on the 22% concentrates. Miss Stipp, his secretary, told me that the $88.00 was too high, and her figure to me was $81.00, with an expected increase in the base charges that would decrease the value further.

I would like to take the opportunity to thank you for your courtesy and help in the examination. Looking forward to seeing you again, I am,

Very truly yours,

F. T. Johnson,
Box 143,
Oracle, Arizona.

cc:JEM
file.

HISTORY AND OWNERSHIP

The Tout Mines were acquired by Mr. Edwin I. Tout in 1933. They consist of 32 (31) patented and 58 (64) unpatented claims in the Tevis and Dos Cabezas districts in T.14S., R.27E.,Cochise County, 3 mi. northeast of Dos Cabezas.

Mining of high grade near the surface on what is called the Black Oxide vein in the #1 tunnel (Mascot) has been conducted for the past 10 years. The ore from this vein as sorted and shipped has assayed as high as 30% copper. During the war about 3,000 tons of ore shipped from the Elma averaged about 3.5% copper. According to state records, 3,500,000 pounds of copper was produced from the Mascot from 1908-1928.

The Mascot Copper Company began in 1906 on the #1 or Mascot tunnel, and in the 10 years that followed the company drove the Consolidated tunnel, shafts and raises. In September 1915, 2212 tons of ore was shipped with an average grade of 4.9% copper and 2.3 oz. silver. In October, 1915, the American Smelting and Refining company leased the Mascot and shipped 32,182 tons that averaged 3.17% copper and 3.7 oz. silver.

In late 1919 and early 1920 the Central Copper Company acquired the Mascot Copper company, the Western Finance company, and the Associated Copper company. These are now consolidated and called the Tout Mines.

PHYSICAL FEATURES AND COMMUNICATIONS

The Dos Cabezas Mountains are in northeastern Cochise County. The range has a northwest-southeast trend and is about 20 miles long and up to 10 miles wide. The elevations of the Dos Cabezas peaks are 8,369 and 8,363 feet respectively, and this is approximately 4,000 feet above the adjacent plain areas. The mountain slopes are steep in general and moderately covered by vegetation.

Most of the mine workings are between Mescot Canyon and the head of Philadelphia Canyon. The exception to this is the Elma group. This area is on the northeast flank of the mountain at an elevation of 6,132 feet. The distance between the most northerly working of the Consolidated to the Elma is about 1½ miles. Roads were improved between the workings, a distance of 3 miles, by the U.S.Grazing Service and are in fair condition as is the road to Dos Cabezas, a distance of 5 miles. Willcox, a shipping point on the Southern Pacific railroad is 15 miles from Dos Cabezas. The REA has agreed to install wire when needed and power up to 400KVA is available. Ample water is available from mine workings.

FACILITIES AND LABOR CONDITIONS

There are 14 small 5-room dwellings, one 7-room dwelling, a rooming house that would accomodate 6 men, and other buildings. The dwellings are in varying degrees of disrepair as are the other usable buildings. $2500.00 for labor and supplies would make all of these habitable. At Dos Cabezas a few houses are available or

would be if there was a demand for them.

It would be no more difficult to obtain labor for the property than any other, as the district is favored by many workmen because of the ideal climate.

GENERAL GEOLOGY

According to the state geological map the Dos Cabezas range is made up of pre-Cambrian schists and granite, Paleozoic and Mesozoic sedimentary beds, Tertiary vocanics and intrusives that vary in composition from acid to basic. All the formations have been faulted by both normal and reverse faults. The coarse grained quartz locally called the "Big Ledge" is in a huge fault zone that separates the granite on the south from the sedimentary beds to the north. The gold veins occur in the sedimentary series and also occur in granite associated with diabase dikes.

Along the contacts of the limestone above or north of the Dives portal, two small drifts were run. The tunnel on the south contact of the limestone was driven on a small stringer of oxidized quartz that shows mineralization. On the north contact Mr. Tout drifted on a 3 foot quartz vein that is said to carry $8.00 in gold. Both contacts are interesting but not enough of interest to continue the 1800 Dives x-cut to intersect them. The south contact is about 500 feet, the north contact about 800 feet from the face of the Dives x-cut.

COPPER DEPOSITS

The copper deposits have a distinct and complex relationship to the rhyolite and andesite that were later faulted and intruded by diabase and diorite. The fissure system, is, as in the gold area to the south, striking east and west, dipping north with the general rake of the ore bodies to the east, along the strike. The diabase dikes strike north and south and where these intrude the east-west faults, ore bodies are sometimes formed. These ore bodies are irregular in shape although the tendency is for them to have a more or less eliptical outline. Contacting the diabase is generally a good grade of ore but the diabase is barren. These various kidneys of ore vary in size from 10'x30' to 100'x100', and are sporadic in their occurences. A great amount of x-cutting and diamond drilling was done by the Consolidated Copper company and in many areas failed to find ore where geological conditions seemed favorable. Not all of the surface outcrops have been explored and this offers some possibility for exploration by core drilling. The Cooper area has a fair outcrop and could be reached by a 1500 foot x-cut from the Mascot (#1) tunnel. The Iron Tower outcrop could be further prospected by drilling from the #1 level. In general, the unexplored outcrops are too far distant to drive to underground, particularly where the occurence is as erratic as is indicated by the 50,000 feet of underground work. The presence of the barren diabase dikes within the ore

shoots themselves would add to the cost of mining or lower the grade of the ore mined, depending upon the methods used in mining.

The Black Oxide vein #1 was intersected 500', and #2 vein at 800', from the portal of the #1 or Mascot tunnel. The total length of the x-cut is 1680' and it's direction is toward the Cooper outcrop, according to maps, 1500' distant. This would intersect the copper croppings 1,000' below.

The elevation of the #1 or Mascot tunnel is 6,425'. The elevation of the Consolidated tunnel is 6,404'. This is the #4 or haulage level and water level of the Consolidated area. The distance between the two areas is too far for connection, unless the intervening area is found to have a favorable indication for ore.

The Black Oxide vein has been developed and worked by Mr. Tout who has drifted approximately 1,500' on a small but high-grade vein. This vein is more consistent laterally than those found in the Consolidated area, but it varies erratically in width from place to place. Areas once opened have caved and are not accessible. Drift #1 on vein #1, varying from 0' to 4', was drifted on 300' west and 100' east with intervening areas caved and partially virgin. From the haulage level is a 50' winze mined 80' to the west and 45' to the east. This is now filled with water.

#2 vein is open for 180'. It's indicated width is about 3' and according to Mr. Tout assays 16% copper, 12 oz. silver and .4 oz. gold. This area offers some good possibilities by drifting

to a possible intersection of veins #1 and #2 and sinking, but it would be necessary to drive raises for air before work could be undertaken.

ORE RESERVES

In estimating tonnages the property is divided into groups. The Elma, #1 shaft tunnel area, Consolidated area, #2 shaft area, and Black Oxide vein (Mascot #1 tunnel).

Measured ore is computed from areas indicated on the maps and checked underground. This does not include levels that are under water, but does include ore lenses that are not opened on four sides. In making the computations, work began on the upper #1 level and 50' given as height. On the first level this could probably be taken as 150' with safety. On each consecutive level downward the ore bodies were given 50' in height instead of 100'. In other words, the ore blocks were given $\frac{1}{2}$ their indicated height. This method is based in part upon observation of some stoped areas where they raised and stoped that distance and were still in ore. This also makes allowances for horses of waste within the ore bodies. It is possible, without too great a risk, in one or two instances, to project ore shoots from #1 level to the 3rd level. The ground between the 3rd and 4th level is assumed as stoped although a small allowance was given to obvious mill grade material left in stopes and unmined.

Indicated ore is the ore shoots projected to the 7th level. The 8th level is not included because less development work is

SUMMARY

The Tout Mines, composed of 90 patented and unpatented claims, in the Tevis and Dos Cabezas districts was at one time called the Central Copper Company. The mines were examined to determine if enough ore is available to pay for it's mining and for the construction of a mill on the adjoining Dives property.

From 1908-1928, 3,500,000 pounds of copper was produced. Of this about 34,000 tons of ore was shipped by leasors that assayed somewhat better than 3% copper, 2 oz. silver, and .03 oz. gold. During the late war approximately 3,000 tons of ore was shipped that had the same average value.

Maps of underground workings amounting to probably more than 50,000 feet were studied and ore bodies measured, giving an estimated reserve of 228,000 tons and an "indicated" reserve of nearly 250,000 tons of ore. It's value of 3% copper, 2 oz. silver, and .03 oz. gold, is based on records of ore shipped, but, to determine more accurately the assay value an extensive sampling project is recommended.

It is concluded that under present prices, construction of a mill, rehabilitation of mine and camp, purchase of equipment, and operating costs, would result in a loss in the operation.

SUMMARY

The Tout Mines, composed of 90 patented and unpatented claims, in the Tevis and Dos Cabezas districts was at one time called the Central Copper Company. The mines were examined to determine if enough ore is available to pay for the mining of this property and for the construction of a mill on the adjoining Dives property.

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It is concluded that under present prices, construction of a mill, rehabilitation of mine and camp, and purchase of equipment, plus operating costs, the property would be operated at a loss.

The 3,000 tons of ore shipped from the Elma would also be in that range.

The hazard in using these figures is in not knowing the mining methods used or whether the ore shipped was selected to any extent or if it was stope run ore. The owner assumes that everything was taken with little selection. Also without question certain ore bodies are of a better grade than others and these would be mined first by the leasers. Mill records are not available to obtain the grade of mill heads although there are receipts for concentrates shipped to the Douglas smelter.

From the records an ore averaging 3% copper, 2 oz. silver, and .03 oz. gold is indicated but for safe and more reliable data an extensive sampling project or even core drilling of some indicated ore blocks would be necessary to determine their value.

ORE RESERVES

AREA	LEVEL	MEASURED ORE	INDICATED ORE	INFERRED ORE
ELMA	1st	4,500	4,500	9,000
	2nd (x)		40,000	40,000
	3rd (x)		32,000	32,000
	4th (x)		24,000	24,000
#1 Shaft tunnel 25'down-25'up			7,500	7,500
CONSOLIDATED #1				
	1st	52,200		52,200
	2nd	86,500		86,500
	3rd	55,000		55,000
	4th	10,000		30,000
	5th	----------	40,000	40,000
	6th	----------	30,000	30,000
	7th	----------	30,000	30,000
	8th	----------	5,000	5,000
#2 SHAFT				
	4th	10,000(1)	15,000	
	4th	10,000 (2)	15,000	
BLACK OXIDE				
#1 vein			1,500(3)	8,000(3)
#2 vein			2,700(3)	2,700(3)
TOTAL (TONS)		228,200	247,200	476,000

(x) - under water
(1) - Partly mined by Mr. Tout, good grade, 4.5% copper.
(2) - Low grade.
(3) - High grade. (16 % copper, 12 oz. silver, .4 oz. gold)

MINING AND MINING COSTS

While the reserve of ore that has been classified as measured is fairly impressive, the mining of the various ore lenses or bunches presents some mining problems. These are, namely, the presence of ~~water~~ waste material within the lenses of ore that would not be left as pillars; the slope of the ore bodies that would in some cases be so flat as to necessitate hand shoveling or slushing; long tram distances on each level to ore passes; a 2200 foot tram on the 4th or haulage level to a loading bin near the portal; and trucking to the mill at the Dives.

There is no doubt that a few of the ore bodies can be mined by cheaper shrinkage method as walls appear to be quite competent and while ore occurence generally is sporadic each individual body has a fair regularity. Other bodies will have to be mined by cut and fill which is decidedly more expensive but allows greater flexibility in selecting ore and would have advantages. In the stopes examined shrinkage methods were used and waste taken with the ore. Other lenses were underhand stoped from 20 to 30 feet where no entry was made to the ore body on the level below.

THE ELMA. Before actual stoping can begin at the Elma, cleaning and rehabilitating the shaft is necessary. Probably all timbers would have to be replaced eventually although the timber below the water may last longer than 1 year. Revamping of the headframe, installation of ore bin and retimbering the first 100' is necessary.

The remaining 300 feet could be bulkheaded off until the first level is mined out. The Elma shaft is reported to produce water at the rate of 75 gallons per minute and this presents no problem in unwatering each succeeding level as needed. The ore adjacent to the area stoped should be further investigated by raise to determine it's true extent. The estimated operating cost to mine and haul from the Elma to the Dives is:

Mining ----------	$5.00 per ton.
Shaft rehabilitation -----	1.00 per ton (to 1st level)
Trucking ----------	1.50 per ton
Total	$7.50 per ton.

CONSOLIDATED #1 SHAFT AREA. This area probably offers the least resistance to begin mining. Track is installed and probably 75% usable. Most chutes are in and only general cleanup is required. The 4th or haulage level has the least ore available but from the cleanup plus what is left in stopes the ore should amount to a few thousand tons, of a lower than average grade material.

SHAFT #2 AREA. On the 4th level there is some ore but more outlay would be necessary as it is partially caved, partially under water, without track, and in generally poor condition. Cleanup would give a small tonnage. Mr. Tout mined an area vertically about 50' with an average width of an estimated 8'. The ore mined by him averaged 5%. Some ore could be taken from here without too great an expense. The estimated cost of mining, tramming, and trucking from this area would be;

Mining and tramming -----	$6.50
Trucking ----------	1.00
Total	$7.50

BLACK OXIDE VEIN. (MASCOT #1). A small tonnage could be obtained from here but eventually sinking and raising is imperative.

Following is a list of heavier equipment necessary for mining:

(ITEM A.)	2 compressors - 500 & 630 c.f.m. -----	$21,000
	1 5hp battery locomotive ----------	4,800
	1 extra battery locomotive----------	1,500
	1 15KW charger ----------	1,000
	Ore cars ----------	5,000
	1 Electric pump, 480' head ----------	900
	1 Gasoline pump, 400' head,(Elma) ----	1,000
	1 Gasoline hoise (Elma) ----------	1,100
	Stopers, jeackhammers, steel, hose,---	5,000
	Rehabilitation of camp ----------	2,500
	TOTAL	$43,800

MILLING AND MILLING COSTS

All reports and tests made on the ores from the Tout Mines indicate a medium grind, flotation flow sheet. Because of numerous factors involving choice, expediency and design in milling plants it is difficult to itemize costs. However, from the data furnished by manufacturers, a plant for an ore of this kind would cost between $1200 and $1600 per ton (24 hours), capacity. By purchase of used but good equipment these figures can probably be lowered by one-third.

(ITEM B.) Plant and some facilities ----- $140,000
(100 Ton per 24 hours)

Mill operation cost:

Milling ----------	$3.50
Trucking conc.-----	.14
Freight " -----	.63
Plant amortization-	.56
Total	$4.83 (per ton of ore milled)

TOTAL COSTS FOR MINING AND MILLING

		Per Ton
Item A.	$ 43,800.00	$ .17 (1)
Item B.	140,000.00	.56 (1)
Mining and trucking to mill		7.50
Milling		3.50
Trucking concentrates		.14
Freight "		.63
Overhead		1.50
Royalty		1.00
Payment for equipment on hand- $50,000.00		.20
	Total	$14.20

(1) - Based on 250,000 tons.

NET VALUE OF ORE

According to the analysis of the concentrates shipped to the smelter at Douglas, Arizona, the average content was:

22% copper, 8 oz. silver, and .05 oz. gold.

According to Mr. Welch of American Smelting and Refining Company, the net worth of 1 ton, after smelter deductions and charges is $88.00. From this, freight ($4.49/ton) and trucking ($1.00/ton) must be deducted.

Assuming that a grade of ore comparable to that used throughout this report, 3% copper, 2 oz. silver and .03 gal gold, would produce a concentrate as indicated above, based on a 95% recovery, 100 tons of such ore would yield 13.7 tons of concentrates. At $88.00 per ton this would amount to $1,205.60. Hence, one ton of mill run ore would net $12.06, delivered to the smelter.

The result of the operation then would be:

Total costs-----	$14.20 per ton
Net value of ore	12.06 per ton
Loss ----------	$ 2.14 per ton

CONCLUSION

After the examination of the mine, a study of maps, and all available information, it is concluded that the Tout Mines contain an estimated 228,000 tons of ore that may contain 3% copper, 2 oz. silver, and .03 oz. gold per ton. It is doubtful that a better grade could be expected but to be more certain of the grade a complete and thorough sampling project is necessary.

Assuming that costs of mining and milling could be reduced by $3.00, which is doubtful, the margin of profit is too small to warrant the risk of the expenditures necessary under present price structures.

Throughout the examination of this property, the Dives, the Huntsman and the Gold Prince properties have been in mind to determine what advantage, if any, the acquisition of this property might bring. The only important advantage gained would be a water supply that could also be developed at the Dives.

There are, however, some possibilities that should be reviewed. An increase in the price of copper either through premium or by natural causes; or disposal of concentrates at their face value. If on any basis a profit of $2.00 per ton could be assured further consideration is warrented.

Respectfully submitted,

F. T. Johnson,
July 20, 1952.

TOTAL COSTS FOR MINING AND MILLING

		Per Ton	
ITEM A. ----------	$43,800	$ .17,	(1)
ITEM B. ----------	140,000	.56	(1)
Mining and trucking to mill ----------		7.50	
Milling ----------		3.50	
Trucking concentrates----------		.14	
Freight ----- " ----------		.63	
Overhead ----------		.50	
Royalty ----------		1.00	
Payment for equipment on hand ($50,000) ---------		.20	
	Total	$14.20	

(1) - Based on 250,000 tons.

NET VALUE OF ORE

According to analysis of concentrates shipped to the smelter at Douglas, Arizona, the average content was:

22% Copper, 8 oz. silver, and .05 oz. gold.

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SUMMARY

The Tout Mines, composed of 90 patented and unpatented claims, in the Tevis and Dos Cabezas districts was at one time called the Central Copper Company. The mines were examined to determine if enough ore is available to pay for it's mining and for the construction of a mill on the adjoining Dives property.

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Maps of underground workings amounting to probably more than 50,000 feet were studied and ore bodies measured, giving an estimated reserve of 228,000 tons and an "indicated" reserve of nearly 250,000 tons of ore. It's value of 3% copper, 2 oz. silver, and .03 oz. gold, is based on records of ore shipped, but, to determine more accurately the assay value an extensive sampling project is recommended.

It is concluded that under present prices, construction of a mill, rehabilitation of mine and camp, purchase of equipment, and operating costs, would result in a loss in the operation.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Mascot Mine ✓ Date Feb. 15, 1956.

District Dos Cabezas District, Cochise Co. Engineer Axel L. Johnson

Subject: Present Status.

Please see my report on the "Mascot Mine ✓" under date of Dec. 14, 1955.

TOUT (formerly Central Copper Co.), Edwin I. Tout, owner, Dos Cabezos, Arizona.

This property is reliably reported to have extensive ore reserves of 2-4% copper, a great portion of which is at present inaccessible. In addition there are several favorable areas for new development.

The owner has acquired a 125 ton mill located 1½ miles from the property and anticipates that development alone will keep it operating at capacity.

In this instance the preliminary development loan would be insufficient to reopen the mine, while such work is not allowable under the development loan as work of a development nature must be adhered to, and the general mining loan is too cumbersome and slow as a means of obtaining small amounts of working capital. Hence, a mine with ore developed must continue to develop to obtain ore for milling. If sufficient ore can actually be produced from development to keep the mill at capacity, then this "gap" between types of loans will not hinder metal production in this particular case, though it may in others.

Approximately 200,000 pounds of copper can be produced with present equipment, if men and material are continuously available.

Report by Earl F. Hastings, October 9, 1942, to Copper Branch, War Production Board.

DEPARTMENT OF MINERAL RESOURCES

REPORT TO OPA ON ACTIVE MINING PROJECT

Date 3/31/45

Name of Mine Tent

Owner or Operator Jas R Gray

Address 1916 E 1st Tucson

Mine Location Dos Cabezas Mining Dist

Filing Information

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).....

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	1935 La Salle	750	
Light or Service Trucks			
Ore Hauling Trucks			
Compressors			
Other Mine or Mill Eqpt.			

PRODUCT PRODUCED OR CONTEMPLATED: Name metals or minerals.

Copper

REMARKS: Mr Gray is financing this property and will have occasion to take principals to property during the next few weeks

ARIZONA DEPARTMENT OF MINERAL RESOURCES

By George A Ballam

November 28, 1944

Mr. G. W. Irvin
P. O. Box 692
Clarkdale, Arizona

Dear Mr. Irvin:

The following was just received from George Ballam:

"I was rather surprised to learn that Irvin had not yet made a deal with Tout of Central Copper property. Tout has been out of town for some time and will not be back for another week or so. I have not been able to find out what the score is, and I did not see Irvin again after I directed him to Tout.

"There are three mines in the group, the Elma, and two workings on the old Mascot, all of which were open for consideration. Apparently Col. Roscoe had sampled the Elma, and it was his understanding that Irvin was interested in one of the old workings, probably the Consolidated. Tout had been working and shipping from both. The tunnel was by far the more accessible and I thought, the better bet. Hence my surprise that a deal hadn't been made. Don't know how far the Colonel will go with the Elma."

Possibly Tout went away without completing the matter. Suggest you write Tout to call or wire you as soon as he returns.

It looks better to me for a continuation of some copper premiums after next July.

Yours very truly,

Chas. H. Dunning
Director

CHD:LP

PHONE 2801

1405 2ND SOUTH STREET

G. W. IRVIN
REGISTERED MINING ENGINEER
P. O. BOX 692
CLARKDALE, ARIZONA

November 23, 1944.

DEPT. MINERAL RESOURCES
RECEIVED
NOV 25 1944
ARIZONA
PHOENIX

Mr. Chas. H. Dunning, Director,
Department Of Mineral Resources,
304 Home Builders Building,
Phoenix, Arizona.

Dear Mr. Dunning:

Mr. Tout's old Central property has three mines. One the accompaning sketch I have given a general outline of the location of the three properties. During my visit Mr. Tout apparently didn't expect the other party to go ahead. So we examined the Elma, which without a doubt would have been the best mine to start operations on. I think that within a week we could have started shipping. Mr. Tout wanted the Elma mined because it is low-grade and wouldn't be worth much with lower price copper although I believe it would make the grade with 17 cent copper.

The (NO. ONE) mine is a small vein that pinches in and out, running from nothing up to 30 inches wide. However some excellent shipments have been made from it. The last operations on the property were at this mine. I think that a fairly long tram is necessary.

The Mascot which was formerly the big producer has a long tunnel (1600' I believe) to an underground shaft. There is still some good ore left and by selective mining a good shipping grade could probably be produced.

These last two properties would probably require considerable more capital than the Elma. However they could probaly be operated on a small scale for a long time after the Elma shut down.

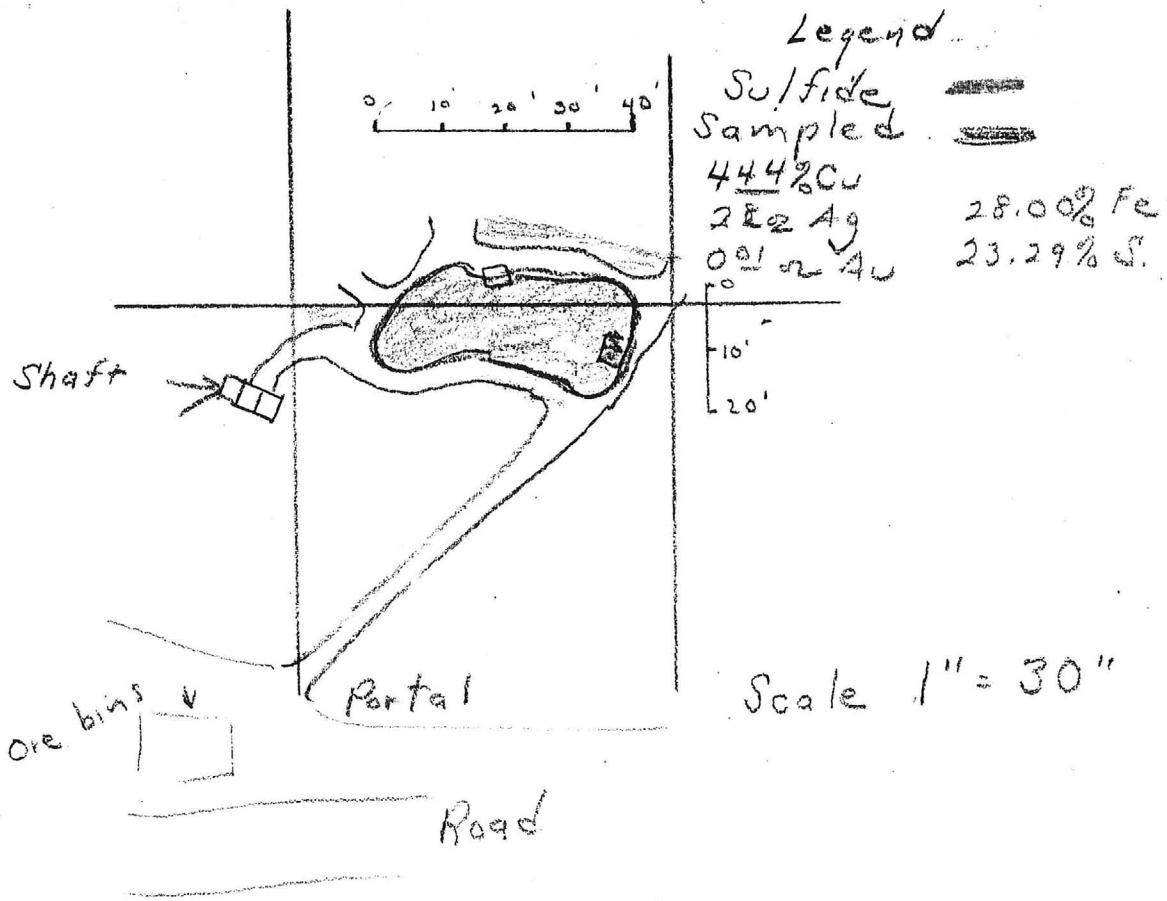
If Mr. Tout is still interested I would like to see what I could do with either one of them. Mr. Ballam should have a pretty good idea what could be done with them. I still have two good miners located and could get a few more for a lease.

I certainly hope that we can work out something.

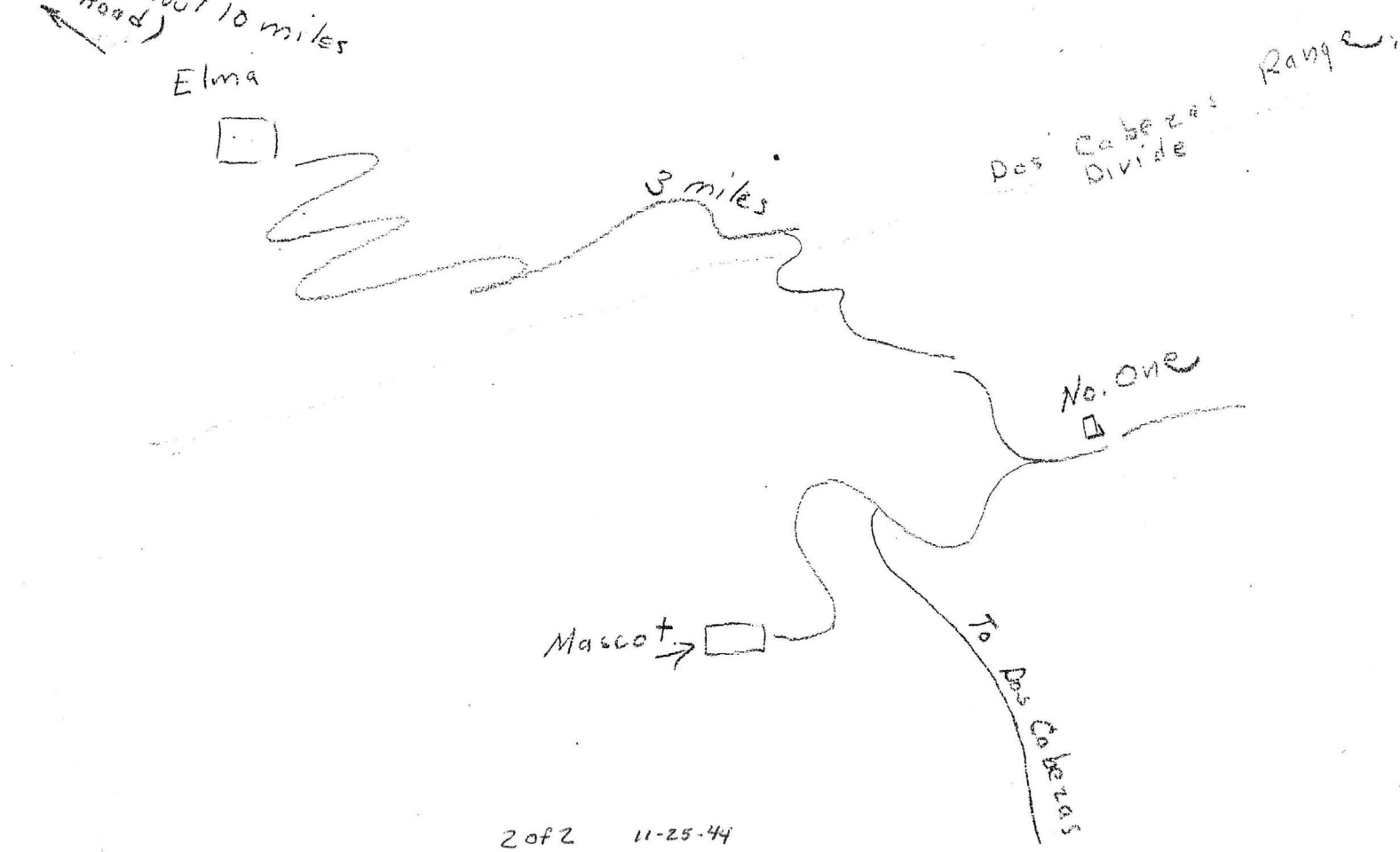
Very truly yours,

G. W. Irvin.

Elma Mine



Sketch - no scale



DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Tout Mines - Mascot Tunnel Date June 11, 1958

District Dos Cabezos District, Cochise Co. Engineer Axel L. Johnson

Subject: Field Engineer's Report. Information from Clarence Pierson, Jr., and personal visit.

References: See report of Tout Mines under date of April 10, 1957. Also see report of Mascot Mine under date of Dec. 14, 1955.

Location: About 7 miles north of Dos Cabezas.

Number of Claims: 3 patented claims.

Owner: Edwin I. Tout, Tout Mining Co., Pima Building, Tucson, Arizona.

Lessees & Operators: Lauren Van Horn, Box 20, Doz Cabezas, Ariz.
Clarence Pierson, Jr. " " " "
William Adams " " " "

This is a 5 year lease, with option for renewal for an additional 5 years, and calls for a royalty of 20% with Mr. Tout furnishing all the equipment. Date of lease May 13, 1958.

Principal Minerals: Copper ores, principally sulphides, with a small amount of carbonates.

Present Mining Activities: Mining copper ore. 3 men working (lessees). Ore production just starting.

Geology and Mineralization: See report of Mascot Mine under date of December 14, 1955.
Lessees report that the ore vein varies from 8" to 18" in width, being about 18" wide at the top of a 20' raise just completed. The dip of the vein is approximately 45° SE, and strikes NE-SW. The footwall appears to be granite and the hanging wall diorite.

Ore Values: See report of Mascot Mine under date of December 14, 1955. Lessees report that a sample sent to Hayden assayed 16% copper and $8.00 per ton in gold and silver values.

Mining & Milling Facilities: Ore will be shipped to A.S. & R. smelter at Hayden or El Paso.

Present Mining Operations: Lesses started work on May 20, 1958. Their first work consisted of repairing the road and the main adit. Raising was started on June 4, 1958, and a 20' inclined raise (inclined 45°) was completed on June 7th, exposing an 18" face of ~~rock.~~ *ore.*
Mining operations have now been started from the top of this raise. The ore is dropped into a chute below, from where it is drawn into cars, hand trammed a distance of 600', and dumped into an ore pile.

Duke No. 14
16

6-803
(January 1952)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

SUMMARY REPORT OF MINERALS EXAMINATION

State Ariz. County Cochise Mineral Products Cu, Au, Ag.

Name of property or deposit Mascot, Elmas & Consolidated Mines

Date examined 3/29/57 Engineer V B Dale Date of this report 4/1/57

Reason for examination Information concerning operation.

Engineer accompanied by No one Address

Extent of property Unknown

Owners Unknown Address

Leased or optioned to Utex Exploration Co. Address Moab Utah

Location of property (be specific) Secs. 9, 16 & 21, T. 14 S., R. 27 E., G & SRM., North of Dos Cabezas, Ariz., 3½ miles.

Type of deposit and mineralogy (brief description) Ore occurs in quartz veins and associated with diabase dikes in granite.

Known dimensions of the deposit Unknown
Length Width Depth

Attitude of the deposit (strike, dip, etc.) Unknown

Possible extensions; correlation of known showings The Utex Exploration Co. is examining and sampling the copper-gold-silver ores on these three properties.

Mine workings (brief description or attach map or sketch) (indicate whether accessable)
Unknown, but extensive workings on all 3 properties.

(over)

Mining and milling equipment on property Not known. Utex has one drill working and at present is dewatering the China shaft for sampling.

Past production (if any) Not known, but some au-ag production from all 3 properties

Present rate of production (if any) None

Sampling (describe briefly, or attach sketch) None

Tentative Estimate of Reserves

(Subject to revision when assays are received or after engineering calculations)

Measurable Unknown tons Grade

Indicated tons Grade

Inferred tons Grade

Mining method (actual or suggested)

Milling or processing method (actual or suggested)

Processing tests suggested

Tentative conclusion and decision Utex Exploration Co. plans to determine if commercial amounts of gold-silver-copper ores are available or can be developed in these 3 properties

To be accompanied by brief letter giving examining engineer's general impression of the deposit, his impression of the owner, and any other confidential information he may care to submit. Refer to any known prior examinations and reports. May be executed in pencil. Should be mailed within 24 hours after examination is completed.

Send original and one copy to Washington Office.

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

FIELD ENGINEERS REPORT

Mine Tout Mines - Mascot Tunnel Date Jan. 12, 1960

District Dos Cabezas District, Cochise County Engineer Axel L. Johnson

Subject: Field Engineers Report. Information from Larry Drake. No visit.

References Reports of Sept. 13, 1958, June 11, 1958 and previous.

Location About 7 miles north of Dos Cabezas.

Number of Claims 3 patented claims.

Owner Edwin I. Tout, Tout Mining Co., 2731 E. Broadway, Tucson, Ariz.

1902 Irene Vista, Tucson (HJ-WR-1-21-61)

Lessees & Operators Larry Drake, R. P. McLeod, et. al., d. b. a. Mascot Mining Co., 3458 N. 1st. Ave., Tucson, Ariz.

Principal Minerals Copper ore, nearly all sulphides.

Present Mining Activity Doing repair work, preparatory to ore production. 3 men working.

Geology & Mineralization See reports of June 11, 1958 & April 10, 1957.

Ore Values See report of June 11, 1958.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Tout Mines - Mascot Tunnel Date Sept. 13, 1958

District Dos Cabezas District, Cochise Co. Engineer Axel L. Johnson

Subject: Present Status. Personal Visit.

References: See report of June 11, 1958.

Present Status: Visited property on Sept. 13, 1958. Found that operations had closed down, and the operators moved out.

Washington, D.C.
May 2, 1944

DEPT. MINERAL RESOURCES
RECEIVED
MAY 4 1944
PHOENIX, ARIZONA

SUBJECT: Tout Mine Access Road

As this was released to the field April 1st, I should be interested in knowing if construction has started.

Bill Broadgate

304 xxx

March 23, 1944

Mr. Edwin Tout
307 Valley Natl. Bank Bldg.
Tucson, Arizona

Dear Mr. Tout:

I have just received a memorandum from Broadgate in Washington saying that the application for access road for the Tout Mine has just been received and that he is asking for early consideration.

The subject of your road was discussed with Mr. Lynn Hersey of the War Production Board while he was here in Phoenix and he agreed to investigate and try to get early action. Mr. Broadgate stated that Mr. Hersey would be in Washington on March 20.

Yours very truly,

J. S. Coupal, Director

JSC:LP

Washington, D.C.
March 18, 1944

DEPT. MINERAL RESOURCES
RECEIVED
MAR 21 1944
PHOENIX, ARIZONA

SUBJECT: Tout Mine Access Road

This has only just been received in Washington. ~~I have asked~~ for early consideration.

Lynn Hersey will be back Monday.

Bill Broadgate

March 9, 1944

Mr. Edwin I. Tout
Tucson Metal Mfg. Co.
Valley National Bank Bldg.
Tucson, Arizona

Dear Ed:

I had lunch today with Lynn Hersey, Assistant Chief Copper Division, War Production Board.

He informed me that your application for an access road has reached the Washington Office during his present absence, and that he will give it his immediate attention upon his return to Washington within the next few days.

He is very much interested in keeping up copper production to the maximum, and when I assured him that this was a case of exceptional merit to yield increased production, he made a memo for prompt action.

I am enclosing copy of memo to Broadgate on this matter.

With kindest personal regards, I am

Yours very truly,

George A. Ballam

GAB:ms

Enc.

MEMORANDUM

March 9, 1944

TO: W.C. Broadgate

FROM: G.A. Ballam

ACCESS ROAD
TOUT MINES
DOS CABEZAS

Edwin I. Tout, Dos Cabezas, Arizona, is operating this property on an advance copper premium and is in production, shipping a car a week or so to Hayden. He applied some time ago for road improvement from the Elmo Shaft, some six miles to Dos Cabezas, which we estimated at about $1000 per mile. This has been examined by the Grazing Service and Bureau of Mines with favorable recommendations, and within the past 30 days, McLane of the Bureau of Public Roads recommended the estimate be raised to $9000. The latter intimated that it might require three months to process the application.

We talked this matter over with Hersey at lunch today, and when he was informed that the road situation represented the only bar to greatly increased production, he promised to check up on the status of the application upon his return to Washington.

The Department has considered the Tout operation as one meriting any assistance possible. Tout is an able operator and is really producing despite the handicap, and will appreciate anything which can be done to expedite action on this project.

G. A. Ballam

GAB:ms

August 13, 1943

War Production Board
Office of Defense Transportation
Security Building
Phoenix, Arizona

Subject: Application for Pick-up Truck, Edwin I. Tout - Tout Mine

Dear Sirs:

I wish to certify to the war necessity of the purchase of a GMC pick-up truck by Edwin I. Tout for operating the Tout Copper Mine at Dos Cabezas, Cochise County, Arizona.

The Tout Mine is the old Central Copper Company property which was operated several years ago. It has a large tonnage of copper ore blocked out. This ore will run from 3% to 5% in copper. Under the ceiling price for copper it was not profitable to mine this ore. An advanced premium of 8.7¢ has been granted by the Quota Committee to the Tout Mine on all copper shipped, and this means that the payment obtained from the copper will be 25.7¢ per pound so that shipments now can be made on a profitable basis.

Our field engineers have examined the property, reported favorably on it for mine loan, and are convinced that a substantial production can be obtained at a profit now that the advanced premium has been granted.

Very truly yours,

J. S. COUPAL, Director

JSC:mn

April 16, 1943

MEMORANDUM — Tout Mine

TO: George A. Ballam

FROM: J. S. Coupal

I feel sure of my ground regarding the status of this property but in order to check it I called and conferred with Bill Gohring. The RFC loan applied strictly to the Sim lease and the RFC has no claims whatsoever regarding the property. For protection Mr. Tout should write to Sim and either have him surrender or cancel the lease and the property will then be in the same condition as though no lease had been even made and no RFC loan employed on it.

I would suggest that Mr. Tout be advised to write Sim at Arcadia, California, as I know of no other permanent address at which to write. If Sim does not reply to Mr. Tout and if he does not surrender the lease or reply to any letter of cancelation that Mr. Tout makes, I believe the status of the property is clear and Mr. Tout can proceed as he sees fit.

I am enclosing a copy of this memorandum so that you may turn it over to Mr. Tout if you so desire.

April 13, 1943

MEMORANDUM

~~Tout Mine~~
DEPT. MINERAL RESOURCES
RECEIVED
APR 15 1943
PHOSPHATIONS

To: Director, Dept. Mineral Resources
From: George A. Ballam

Mr. Tout is anxious to know what the status of his property is now that Walter Sim has apparently given it up after having expended some money. Ed said he would probably operate it himself. He said that Sim hadn't been underground at all, despite the fact that he asserted that there is no ore available.

Nobody around here can contact Sim. He put up some money to sample the Prosperity, but results were discouraging and there is no prospect of doing anything there, according to Mrs. Miller.

Ed Tout believes he can do something with the Tout mine, particularly if there is an advance in copper premium. However, there doesn't seem to be any definite information on the obligation of the property to RFC. He has not received the lease from Sim, either.

Geo A Ballam

January 6, 1943

MEMORANDUM

SUBJECT: "C" Loan
Repayment of Loan

TO: Bill Broadgate

FROM: J. S. Coupal

Mr. Walter Sim, who has a "C" loan on the Tout Mine, is faced with a condition and has asked my advice regarding it.

Sim has spent around $1500 of the loan and has opened up two stopes with results that were not at all favorable. The assay maps on these stopes indicated a certain value of ore and there was nothing there when the stopes were examined. Sim is inclined to quit right now, but I suggested to him that he continue and open up two or more stopes to further check on the property. I believe Sim will do this.

The point on which he wanted advice was this; if he spends about half of the loan and then finds that the property does not warrant spending the balance, he intends to turn back the balance of the loan and also to pay the government the amount of the loan that he has spent plus interest from his personal funds. He feels as though he should do this in order to qualify for a future loan in case he needed it on some other property. Right at this time he is planning to take over the Control Mine and put it into increased production and if necessary at a later date, ask for RFC help in doubling the capacity. He believes that his chances of getting the loan would be greatly enhanced by his repayment of the money spent under the Preliminary "C" Loan. Such action would, of course, show a fine attitude on his part.

I cannot place my hand on the particular ruling at this time, but as I recall it only one loan will be granted to a single borrower. If Sim only turned back the unspent balance on the "C" loan, would that prevent him from getting another loan as an individual? If this is true, would there be any advantage for him to reimburse the government for the amount he spent of the "C" loan?

I know, of course, that he could apply as a partnership or in some other form for a future loan, but evidently Sim likes to be a lone wolf and would be willing to pay back the actual money spent.

Would appreciate your views on this.

Tout

Washington, D.C.
Nov. 14, 1942

DEPT. MINERAL RESOURCES
RECEIVED
NOV 16 1942
PHOENIX, ARIZONA

SUBJECT: Mine Loans
Class C
Walter N. Sim.
Coupal special memo Oct. 29th

You might tell Sim that his application was received here on November 3rd and was approved November 13th. Not bad, eh?

Bill Broadgate

October 29, 1942

MEMORANDUM

TO: W. C. Broadgate

FROM: Earl F. Hastings

We are sending you a copy of our review on the Walter Sim loan application on the Tout Mine.

You will note under Comment F that we recommend this application take precedent in consideration over others already filed. The reason for this is that Sim has his equipment, men, materials, and practically all necessary items already lined up to commence operation, and we feel that this property can make an immediate and appreciable contribution to metal production.

While, in general, Class C loan applications should be allowed to take their normal course in office routine, we do feel that this is one exception which warrants all the pushing that you are able to give it.

k

Enclosure

Oct. 1, 1942

DEPT. MINERAL RESOURCES
RECEIVED
OCT 2 1942
PHOENIX, ARIZ.

MEMORANDUM

TOUT MINE
(Dos Cabezas)

To: Director, Dept. Mineral Resources
From: George A. Ballam

Walter Sim called me late last night from Arcadia, Cal. His people are willing to back him on the Tout deal, and he asked me to accompany Mr. Tout and him to the mine and mill on Saturday.

Saw Mr. Tout this AM and he is of the opinion that a deal can be made, lease and royalty. He also asked me to go with them in order that the dept. may be completely informed on developments.

If I hear nothing to the contrary, I shall plan on making this trip, perhaps staying over Sunday.

Geo A Ballam

June 11, 1941

Mr. Edwin I. Tout
Dos Cabezas, Arizona

Dear Mr. Tout:

Many thanks for filling out the questionnaire on the Tout Mine and it is very evident that this mine will be included in the report that we are to make to the government on potential copper producers.

Included within this report we anticipate putting a brief description of the properties which will be listed as potential producers. In order to have these brief reports uniform in their contents we have gotten up another questionnaire showing the points we want to cover, and it will be greatly appreciated if you will fill in one of these questionnaires for the Tout Mine and return it to us.

Thanking you for an early reply, and with kindest personal regards, I am

Yours very truly,

Chairman, Board of Governors
Arizona Department of Mineral Resources

CFW:LP
Enc.

Circa 1965 ?

THE MASCOT

A Mine That Existed, Yet Never Really Did...

Or Did It?

History 696
Dr. Davies

by
K. Alexander Sederholm

Elma			Meas.	Sq.ft	Prob.	(Sq.ft	Mined	Total sq.ft	Height	Cu.ft Total	Tons
1st level		~~50x60~~	50x60	3000	30x60	1800	1/2	1500	30	45000	4500
2nd "		~~100x80~~	100x80	8000						800,000	80000
3.			80x80	6400	–		0	6400	100	640000	64000
4.			80x60	4800						480,000	48000
											196500
Vol shaft Tunnel			30x50	1500		15			(25 up 25 down) 50'		
		Ore Body									
Consol.	1st level	A1	35x70	2450					25+25=50'	122500	12250
1	"	B1	50x60	30000	50x60=80			(undehanded 20')	30'	90000	9000
	"	C1	8x30	240	–				50	12000	1200
	"	D1	50x50	2500					50'	125,000	12500
	" (D2)	E1	100x30	3000					50	150000	15000
	" (C-2)	F1	30x~~50~~ 25	~~1500~~ 450	(Cut in 1/2 for shaft #1)				50	22500	2250
											52200
	2nd level										
	D3	A2	50x60	3000					50	15000	15000
		B2	40x30	1200					50	6000	6000
	E3	C2	100x100	10000					50	500,000	50000
	G3	D2	10x30	300					50	15000	1500
		E2	10x30	300					50	15000	1500
		F2	50x50	2500					50	125000	12500
											86500
	3rd level										
		A3	25x50	1250					50	62500	6250
		B3	25x60	1500					50	75000	7500
	#5R (50 ore Body)	C3	50x100	5000					50	250,000	25000
	A-2	D3	50x50	2500					50	125,000	12500
		D3'	20x20	400					50	20000	2000
		E3	15x50	750					50	37,500	3750
		F3			Probably						55000
		G3									
No 2 Shaft area.		A4	50x100	5000					50	250000	25000
"	L6.	B4	50x100	5000					50	"	25000
		C4									
											10000
											234700 Tons

Area unmined and mined in stopes #4 level Shaft 1 area.

Black Oxide —

vein #1 = 1x300x50

vein #2 = 3x180x50

CERTIFICATE OF CANCELLATION

ONE MILLION DOLLARS OF INDEBTEDNESS
OF
CENTRAL COPPER COMPANY OF ARIZONA

I, GEORGE L. RAMSEY, TREASURER OF THE CENTRAL COPPER COMPANY OF ARIZONA, DO HEREBY CERTIFY THAT THE CENTRAL COPPER COMPANY'S SIX PER CENT TEN YEAR GOLD NOTES WITH INTEREST COUPONS ON SAID NOTES AS DESCRIBED BELOW TO THE AMOUNT OF ONE MILLION DOLLARS OWNED BY T. N. McCAULEY, WERE DELIVERED TO THE TREASURY OF THE COMPANY BY HIM AND VOLUNTARILY DONATED TO THE CORPORATION FOR THE FUTURE FINANCIAL BENEFIT OF THE STOCKHOLDERS.

I FURTHER CERTIFY THAT I HAVE CAUSED THE SAID FOLLOWING DESCRIBED SECURITIES TO BE DESTROYED BY BURNING THE SAME TO ASHES IN THE PRESENCE OF THE UNDERSIGNED, THUS REDUCING THE COMPANY'S INDEBTEDNESS ONE MILLION DOLLARS.

GOLD NOTES			
66	Gold Notes of $1000 2696 to 2761		$ 66,000.00
200	Gold Notes of 500 1539 to 1738		100,000.00
100	Gold Notes of 500 1739 to 1838		50,000.00
100	Gold Notes of 500 1839 to 1938		50,000.00
212	Gold Notes of 500 1939 to 2122 / 2173 to 2200		106,000.00
660	Gold Notes of 100 151 to 810		66,000.00
620	Gold Notes of 100 811 to 1430		62,000.00
			$ 500,000.00
INTEREST COUPONS			
	All Interest Coupons attached to the above Ten Year 6% Gold Notes	$300,000.00	
6660	Interest Coupons from Notes of $1000 2363 to 2695 at $30.00 each	199,800.00	
67	Interest Coupons from Notes of $ 100 147 to 150 at $ 3.00 each	200.00	
			$ 500,000.00
	GRAND TOTAL		$1,000,000.00

WE, THE UNDERSIGNED, BEING DIRECTORS OF THE CENTRAL COPPER COMPANY OF ARIZONA, HEREBY CERTIFY THAT WE HAVE WITNESSED THE VOLUNTARY DONATION AND THE DESTRUCTION BY BURNING OF THE ABOVE DESCRIBED SECURITIES AND WE FURTHER CERTIFY THAT WE DID EXAMINE SAID SECURITIES PRIOR TO THEIR HAVING BEEN BURNED AND THAT THEY WERE IDENTICALLY THE SAME SECURITIES MENTIONED ABOVE.

DIRECTORS OF CENTRAL COPPER COMPANY OF ARIZONA

R. V. Dixon H. J. Gilbert [illegible] Chew Acors W. Rathbun
R. D. Stevenson Axel Johnson A. R. Orr Jas. W. Prout Jr.

ATTEST:

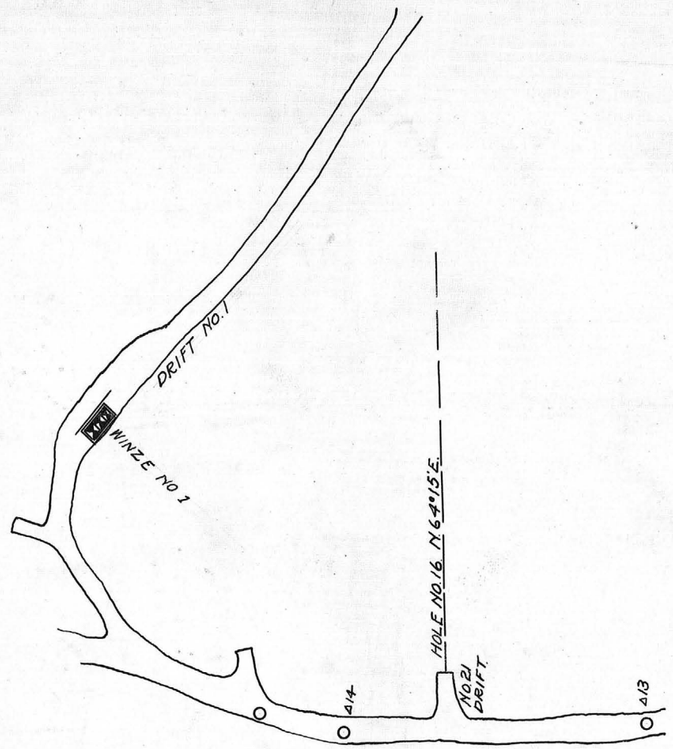
[illegible]
SECRETARY.

CENTRAL COPPER COMPANY OF ARIZONA

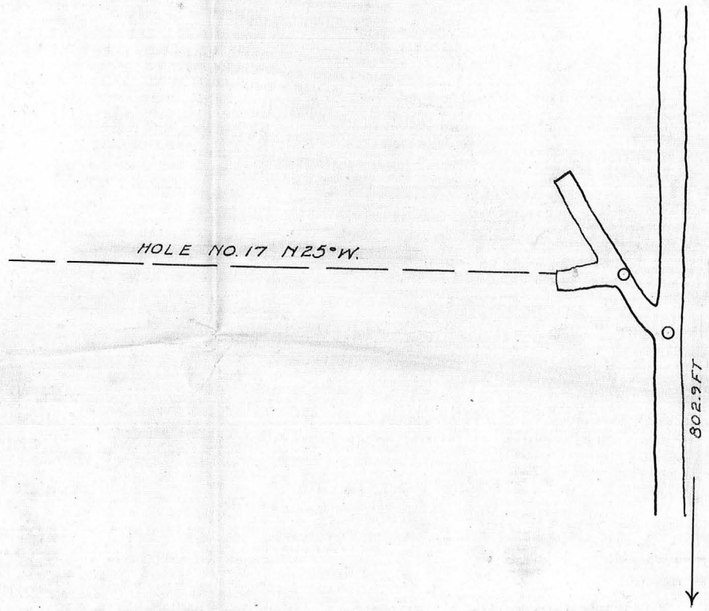
Dos Cabezas, Arizona
October 5, 1925

George L. Ramsey
TREASURER.

©GOES87



A SECTION OF CONSOLIDATED
SHOWING LOCATION OF HOLE NO 16.
SCALE 1:50.



A SECTION NO. 1. TUNNEL
SHOWING LOCATION OF HOLE NO.17.
SCALE 1:50

Printed June 14-1916

Tout Mine

Patented and Unpatented Claims

Dos Cabezas and Texis Mining Districts

Cochise County, Arizona

Scale 1" = 1000'