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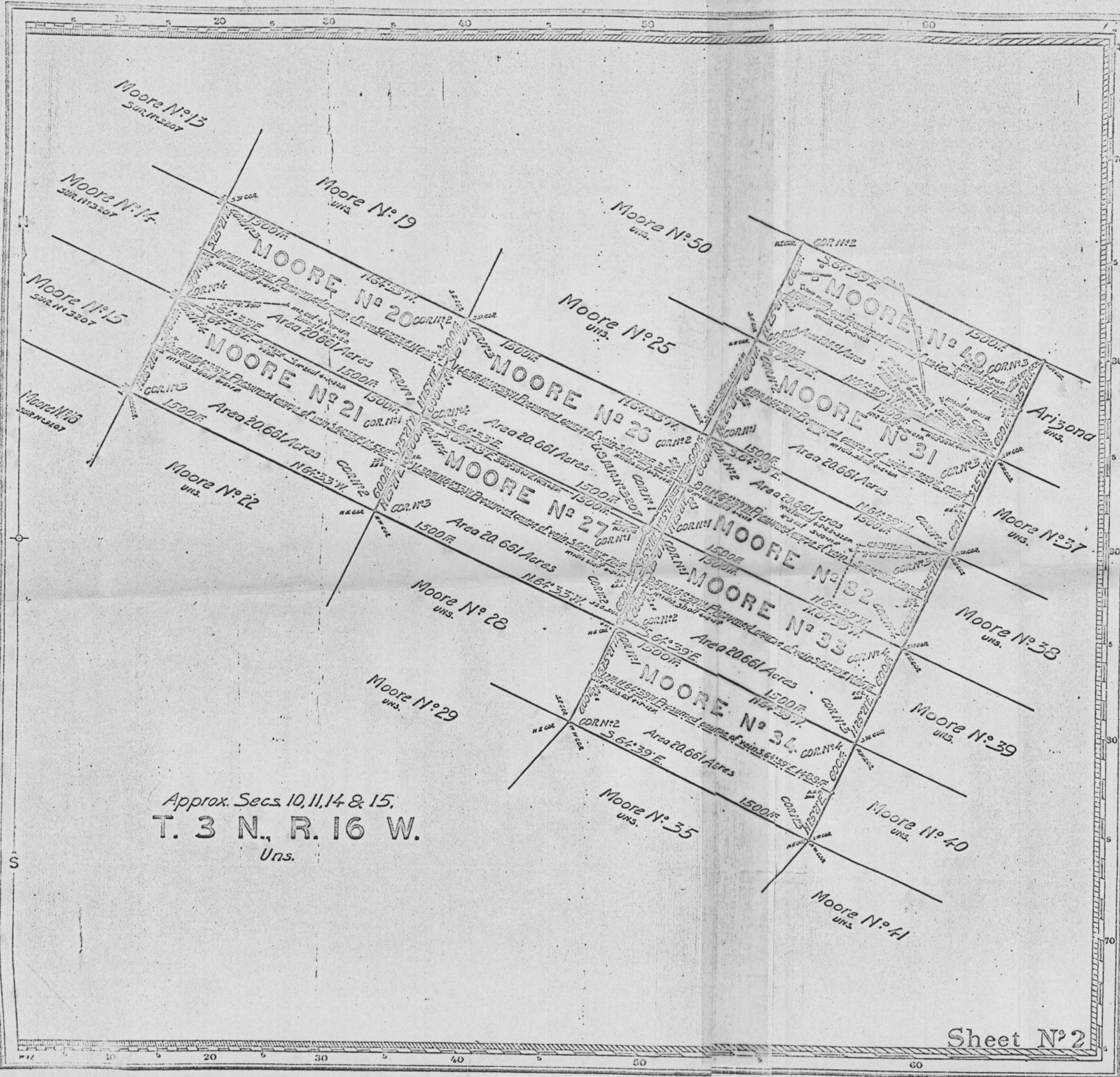
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Approx. Secs 10, 11, 14 & 15,
 T. 3 N., R. 16 W.
 Uns.

Sheet N° 2

Claim Located _____ 19

Mineral Survey No. 3207

Lot No. _____ Land District _____

PLAT
 OF THE CLAIM OF

KNOWN AS THE

IN _____ MINING DISTRICT,
 _____ COUNTY,

Containing an Area of _____ Acres.
 Scale of 500 Feet to the inch.
 Variation _____

SURVEYED _____ 19 _____ BY _____

 U.S. Deputy Mineral Surveyor,

The Original Field Notes of the Survey of the Mining Claim of

known as the _____

from which this plat has been made under my direction, have been examined and approved, and are on file in this Office, and I hereby certify that they furnish such an accurate description of said Mining Claim as will, if incorporated into a patent, serve fully to identify the premises, and that such reference is made therein to natural objects or permanent monuments as will perpetuate and fix the locus thereof.

I further certify that Five Hundred Dollars worth of labor has been expended or improvements made upon said Mining Claim by claimant _____ or _____ grantors, and that said improvements consist of _____

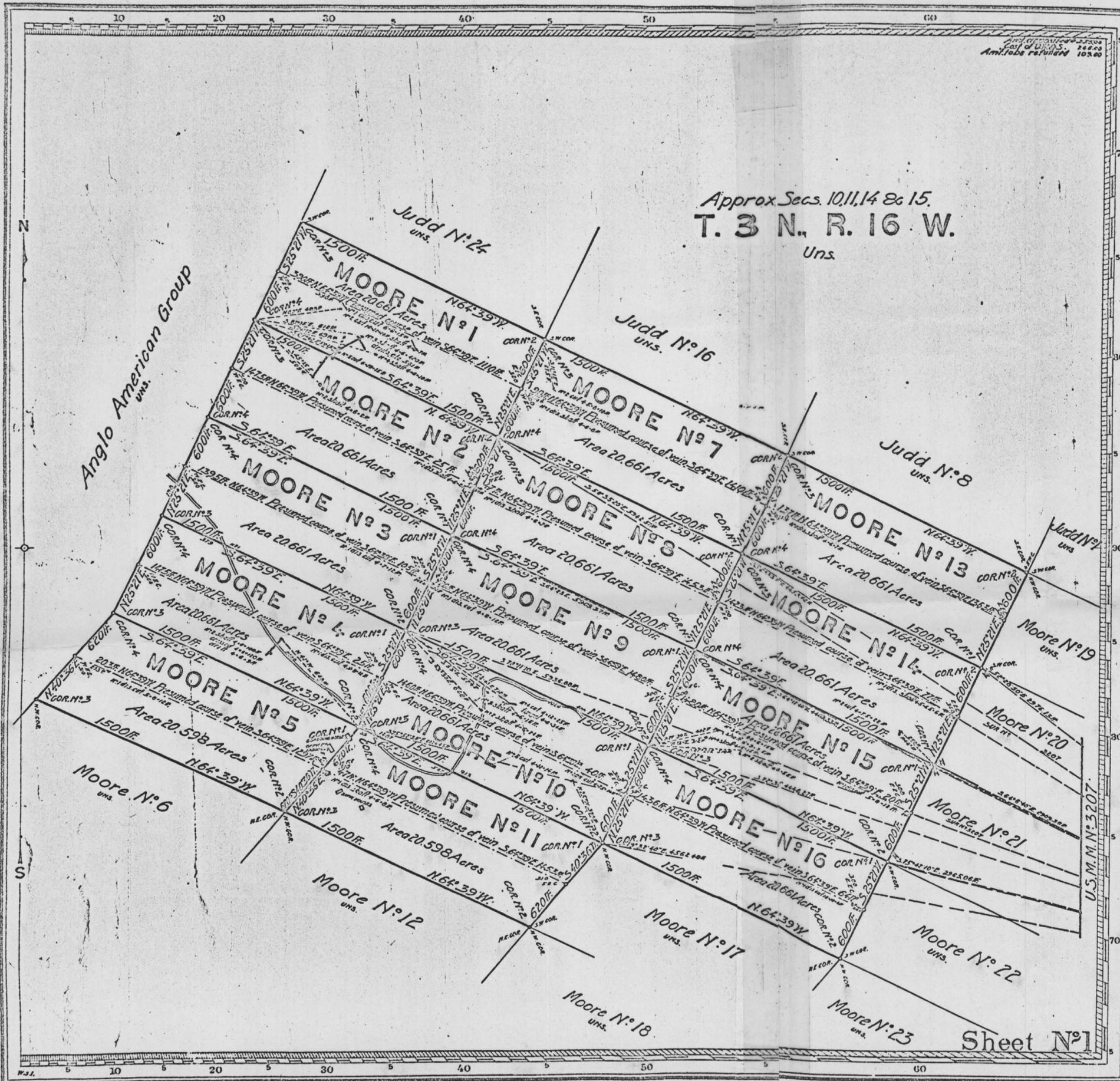
that the location of said improvements is correctly shown upon this plat, and that no portion of said labor or improvements has been included in the estimate of expenditures upon any other claim.

And I further certify that this is a correct plat of said Mining Claim made in conformity with said original field notes of the survey thereof, and the same is hereby approved.

U.S. Surveyor General's Office. _____

 U.S. Surveyor General for _____

_____, 19 _____



Claims located July 1, 1910

Mineral Survey No. 3207

Lot No. _____
Arizona Land District.

PLAT
 OF THE CLAIM OF

D and D Company
 KNOWN AS THE

Moore No. 1, Moore No. 2, Moore No. 3, Moore No. 4, Moore No. 5, Moore No. 6, Moore No. 7, Moore No. 8, Moore No. 9, Moore No. 10, Moore No. 11, Moore No. 12, Moore No. 13, Moore No. 14, Moore No. 15, Moore No. 16, Moore No. 17, Moore No. 18, Moore No. 19, Moore No. 20, Moore No. 21, Moore No. 22, Moore No. 23, Moore No. 24, Moore No. 25, Moore No. 26, Moore No. 27, Moore No. 28, Moore No. 29, Moore No. 30, Moore No. 31, Moore No. 32, Moore No. 33, Moore No. 34, Moore No. 35, Moore No. 36, Moore No. 37, Moore No. 38, Moore No. 39, Moore No. 40, Moore No. 41, Moore No. 42, Moore No. 43, Moore No. 44, Moore No. 45, Moore No. 46, Moore No. 47, Moore No. 48, Moore No. 49

IN Plomosa MINING DISTRICT,
Yuma COUNTY, Arizona

Containing an Area of 475.077 Acres.
 Scale of 500 Feet to the inch.
 Variation 13°40'E

SURVEYED July 1-20, 1915 BY
C.C. Thompson U.S. Property Mineral Surveyor

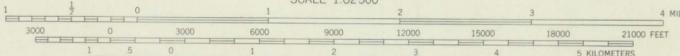
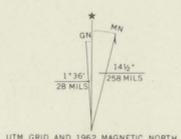
The Original Field Notes of the Survey of the Mining Claim of
D and D Company
 known as the
Moore No. 1, Moore No. 2, Moore No. 3, Moore No. 4, Moore No. 5, Moore No. 6, Moore No. 7, Moore No. 8, Moore No. 9, Moore No. 10, Moore No. 11, Moore No. 12, Moore No. 13, Moore No. 14, Moore No. 15, Moore No. 16, Moore No. 17, Moore No. 18, Moore No. 19, Moore No. 20, Moore No. 21, Moore No. 22, Moore No. 23, Moore No. 24, Moore No. 25, Moore No. 26, Moore No. 27, Moore No. 28, Moore No. 29, Moore No. 30, Moore No. 31, Moore No. 32, Moore No. 33, Moore No. 34, Moore No. 35, Moore No. 36, Moore No. 37, Moore No. 38, Moore No. 39, Moore No. 40, Moore No. 41, Moore No. 42, Moore No. 43, Moore No. 44, Moore No. 45, Moore No. 46, Moore No. 47, Moore No. 48, Moore No. 49
 from which this plat has been made under my direction,
 have been examined and approved, and are on file in this Office,
 and I hereby certify that they furnish such an accurate description
 of said Mining Claim as will, if incorporated into a patent,
 serve fully to identify the premises, and that such reference is
 made therein to natural objects or permanent monuments as
 will perpetuate and fix the locus thereof.
 I further certify that Five Hundred Dollars worth of labor has
 been expended or improvements made upon said Mining Claims
 by claimant _____ or its grantors and that
 said improvements consist of 25 cuts, 24 shafts, 5 tunnels & 690 ft
of other workings, total value \$3250.00. The value of improvements
on Moore No. 1, Moore No. 2, Moore No. 3, Moore No. 4, Moore No. 5, Moore No. 6, Moore No. 7, Moore No. 8, Moore No. 9, Moore No. 10, Moore No. 11, Moore No. 12, Moore No. 13, Moore No. 14, Moore No. 15, Moore No. 16, Moore No. 17, Moore No. 18, Moore No. 19, Moore No. 20, Moore No. 21, Moore No. 22, Moore No. 23, Moore No. 24, Moore No. 25, Moore No. 26, Moore No. 27, Moore No. 28, Moore No. 29, Moore No. 30, Moore No. 31, Moore No. 32, Moore No. 33, Moore No. 34, Moore No. 35, Moore No. 36, Moore No. 37, Moore No. 38, Moore No. 39, Moore No. 40, Moore No. 41, Moore No. 42, Moore No. 43, Moore No. 44, Moore No. 45, Moore No. 46, Moore No. 47, Moore No. 48, Moore No. 49
 is apportioned equally among all the claims in
 this survey
 that the location of said improvements is correctly shown
 upon this plat, and that no portion of said labor or improve-
 ments has been included in the estimate of expenditures
 upon any other claim.
 And I further certify that this is a correct plat of said Mining
 Claim made in conformity with said original field notes of the
 survey thereof, and the same is hereby approved.

U.S. Surveyor General's Office, Frank S. Ingalls
Phoenix, Arizona U.S. Surveyor General for
October 9, 1915 Arizona

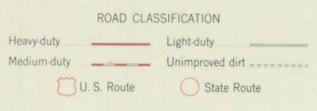
Sheet No. 1



Mapped, edited, and published by the Geological Survey
Control by USGS and USC&GS
Topography by photogrammetric methods from aerial
photographs taken 1951 and 1960. Field checked 1962.
Polyconic projection. 1927 North American datum
10,000-foot grid based on Arizona coordinate system,
west zone
1000-meter Universal Transverse Mercator grid ticks,
zone 12, shown in blue
Where omitted, land lines have not been established



CONTOUR INTERVAL 40 FEET
DOTTED LINES REPRESENT 20-FOOT CONTOURS
DATUM IS MEAN SEA LEVEL



THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER 25, COLORADO OR WASHINGTON 25, D. C.
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

VICKSBURG, ARIZ.
N3330-W11345/15

1962
AMS 3251 III-SERIES V798

UNSURVEYED TOWNSHIP 3 NORTH RANGE 16 WEST OF THE GILA AND SALT RIVER MERIDIAN, ARIZONA

SECTION OR TRACT	SUBDIVISION																ACRES	KIND OF ENTRY -OR- PURPOSE OF ORDER	SERIAL FILE -OR- ORDER NUMBER	DATE OF ACTION	DATE POSTED	REMARKS E.G. DATE CLOSED, TERMINATED, REJECTED OR RESCINDED		
	NE 1/4				NW 1/4				SW 1/4				SE 1/4										LOTS	OTHER DESCRIPTION
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE								
FOR ORDERS EFFECTING DISPOSAL OR USE OF UNIDENTIFIED LANDS WITHDRAWN FOR CLASSIFICATION, MINERALS, WATER, AND/OR OTHER PUBLIC PURPOSES, REFER TO INDEX OF MISCELLANEOUS DOCUMENTS																								
																		All Secs. 2,16,32 & 36	SG	Act of Cong.	6/20/1910		Title to State to fix on approval of survey; subj. to prior rights	
																	MS 3207	475.77	ME Pat.	546603	9/22/1916			
																		All Secs. 2,16,32 & 36	SG	Act of Cong.	1/25/1927		Extends Act of 6/20/1910 to Min. lands; subj. to prior rights	
16	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		11S 18E	560.00	SX Waiver	PHX 075613	2/11/1941			
19																	See Remarks		SO Wd. Air Navigation Site	158	4/9/1941		W $\frac{1}{2}$ SW $\frac{1}{4}$ NW $\frac{1}{4}$, W $\frac{1}{2}$ W $\frac{1}{2}$ SW $\frac{1}{4}$; 2N 8W; Rev. O. 11/12/1957	
36																	All; 8S 10E	640.00	SX Waiver	PHX 077470	8/6/1941			
2					x	x	x		x	x	x	x					11N 8W	280.00	SX Waiver	PHX 077375	11/6/1941			
2	x	x	x	x									x	x	x	x		7N 7W	320.00					
32								x	x	x	x	x	x	x	x			320.00	SX Waiver	PHX 077292	12/11/1941			
32	x	x	x	x	x	x	x	x									12N 9W	320.00	SX Waiver	PHX 075483	5/19/1942			
2								x										40.00						
16													x		x		6N 10W	80.00	SX Waiver	PHX 081212	6/13/1949			
19																	See Remarks	60.00	O. Rev. Air Navigation Site					
																			158 SO 4/9/1941		11/12/1957		W $\frac{1}{2}$ SW $\frac{1}{4}$ NW $\frac{1}{4}$, N $\frac{1}{2}$ W $\frac{1}{2}$ SW $\frac{1}{4}$; 19N 19E; Open to entry	
20	x	x	x	x															RI Rainwater Catchment		10/28/1958			
1																	All							
12																	All; 2N 13W		Secretariat Decision declares					
																			land unsuitable for DLE	AR 031999 et al	5/20/1963			
6																	See Remarks; 4N 16W	10.00	FUP #377	AR 035249	11/3/1965		NW $\frac{1}{4}$ NW $\frac{1}{4}$ NE $\frac{1}{4}$ NE $\frac{1}{4}$, N $\frac{1}{2}$ NE $\frac{1}{4}$ NW $\frac{1}{4}$ NE $\frac{1}{4}$, NE $\frac{1}{4}$ NW $\frac{1}{4}$ NW $\frac{1}{4}$ NE $\frac{1}{4}$; To Expire 11/30/1970	

1967 JAN 11 PM 3 18
BUREAU OF LAND MANAGEMENT
PHOENIX, ARIZONA
COPY ISSUED BY

HEWLETT MANAGEMENT

7051 No. Oracle Road
Casas Adobes Center
Tucson, Arizona

☆ Exploration
☆ Mineral Property Evaluation

Office
297-2071 — 602

November 9, 1966

BRENDA COPPER DEPOSIT

Details:

1. The Brenda claims consist of the Marshall, Hovatter, and Cockrill group (Moore - Salome Copper Queen - Copper Queen), and are being presented by R. F. Hewlett (consultant).
2. The Marshall claims have been presented to R. F. Hewlett by:

Mr. Joe Thompson
2456 Miracle Mile Strip
Tucson,
Arizona

3a. Owners of the property are:

A. Mr. Joe Thompson
2456 Miracle Mile Strip
Tucson, Arizona
(602)-623-3998

→ B. Mr. Chris Muller
c/o Siesta Motel
Wilcox, Arizona

→ C. Mr. Don Chase
2734 Navajo
Santa Rosa,
California
(415)-546-8769

Previous owners were:

A. Patented claims (23);

Flora Marshall

B. Unpatented claims (102);

Previous locator - -

Mr. Hovatter
Salome, Arizona

- 3b. An option on the claims is controlled and paid for by R. F. Hewlett. The costs of the option, assays, report, lawyer fees, etc., will be paid by the owners from the cash money, relieving OXY of initial repayments.
4. Now. & type of claims:
 - A. Tract 1 - Patented;
23 patented claims, consisting of approximately 20 acres each, located in the Plomosa Mining District, Yuma County, Arizona. The claims are located 5 miles south of Brenda, Arizona. (see enclosed map.)
 - B. Tract 2 - Unpatented;
102 un-patented lode claims surrounding Tract 1 (see enclosed map).
5. Claim locations are shown on accompanying maps:
 - A. State of Arizona
 - B. Nearest town is Brenda
 - C. T. 3N., R. 16W.
 - D. Sections 10, 11, 14, 15
6. Past production:
A small leaching plant
7. Previous work:
 - A. Assessment in the form of a road, shafts, and adits.
 - B. Work performed by Hovatter and Becker;
 1. Reports by Dunning
 2. Report by Joraleman
 3. Reports by Bunker Hill Geologists
 4. Drilling by Bunker Hill
 5. Assays by Arc
 6. Drill logs by Joraleman

C. Work performed by Cockrill:

1. Leaching tests and attempt to finance plant with Roger V. Pierce of Salt Lake City, Utah.

Data

1. Geologic - enclosed geologic map of Yuma County
2. Geophysical - none
3. Geochemical - none
4. Assay - data not available by the deposit but the deposit was drilled to at least 400 feet - reported to be all oxides. Other assay data enclosed was surface samples collected by R. F. Hewlett (see enclosed assay results).
5. Other - enclosed topo map.

Consultants Evaluation

2000 x 900 x 100

1. Computed ore reserves; *ok*
best estimate (no drilling data) would be 8,000,000 tons of 1.50% oxide copper at a low stripping ratio.
2. Value of deposit - financial;
1.50% Cu = 30#/ton Cu or 240,000,000# copper at a price of copper of \$0.36: *1.8 - 1.0%*

\$86,400,000 (Gross Value)

Actual leaching costs per # recovered copper runs from 4 1/2¢ to 22¢/#. This operation should be in the range of 15¢/# with 7¢/# for smelting, refining, and freight. If we assume only 50% recovery, we have:

merch market = \$1.50/lb.

(120,000,000#)(36-22¢/#) =
\$16,800,000 (Gross Profit, or
\$8,400,000 (Net Profit).

This plus \$8,000,000 profit is conservative and allows for all repayments and royalties, as for the property and the initial capital investment.

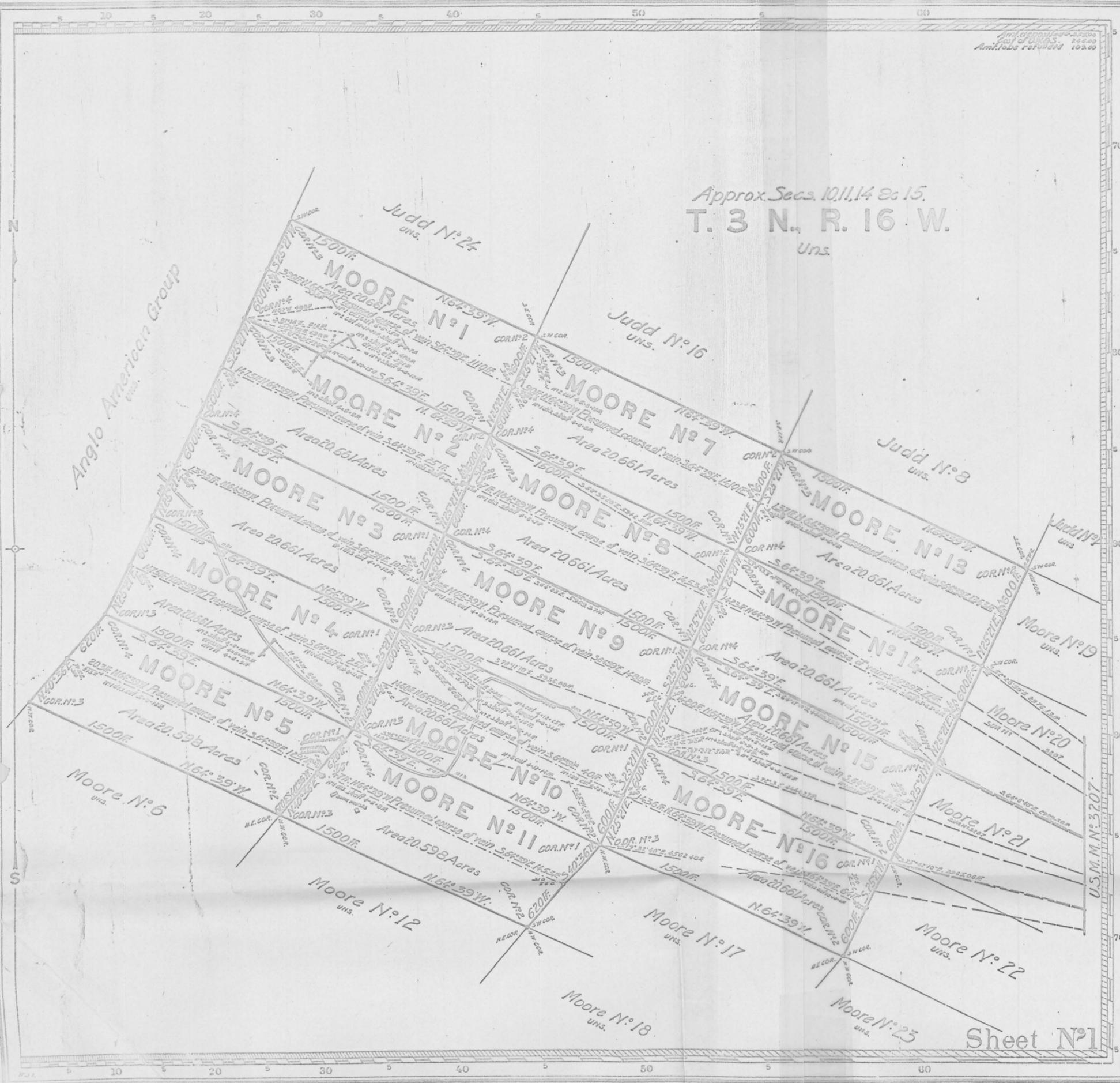
The initial capital investment would be about \$1,000,000. The payout would be about one year.

3. Conclusions:

This property should be optioned by Occidental International at once. Enough leaching tests have been made by Pierce, et.al., and the extensive oxide mineralization merits a shallow drilling program to outline a sufficient tonnage for a leaching plant.

Recommendations

Option the property.



Approx. Secs. 10, 11, 14 & 15.
T. 3 N., R. 16 W.
 Uns.

Claims Located July 1, 1910

Mineral Survey No. 3207

Lot No. _____
Arizona Land District.

PLAT
 OF THE CLAIM OF

D and D Company
 KNOWN AS THE

Moore N°1, Moore N°2, Moore N°3, Moore N°4, Moore N°5, Moore N°7, Moore N°8, Moore N°9, Moore N°10, Moore N°11, Moore N°13, Moore N°14, Moore N°15, Moore N°16, Moore N°17, Moore N°18, Moore N°19, Moore N°20, Moore N°21, Moore N°22, Moore N°23, Moore N°31, Moore N°32, Moore N°33, Moore N°34, Moore N°49

Moore N°49
 IN Plomosa MINING DISTRICT,
Yuma COUNTY, Arizona

Containing an Area of 475.077 Acres.
 Scale of 500 Feet to the inch.
 Variation 13°40'E

SURVEYED July 1-20, 1915 BY
C.C. Thompson U.S. Deputy Mineral Surveyor.

The Original Field Notes of the Survey of the Mining Claim of
D and D Company
 known as the
Moore N°1, Moore N°2, Moore N°3, Moore N°4, Moore N°5, Moore N°7, Moore N°8, Moore N°9, Moore N°10, Moore N°11, Moore N°13, Moore N°14, Moore N°15, Moore N°16, Moore N°17, Moore N°18, Moore N°19, Moore N°20, Moore N°21, Moore N°22, Moore N°23, Moore N°31, Moore N°32, Moore N°33, Moore N°34, Moore N°49
 from which this plat has been made under my direction,
 have been examined and approved, and are on file in this Office,
 and I hereby certify that they furnish such an accurate description
 of said Mining Claim, as will, if incorporated into a patent,
 serve fully to identify the premises, and that such reference is
 made therein to natural objects or permanent monuments as
 will perpetuate and fix the locus thereof.
 I further certify that Five Hundred Dollars worth of labor has
 been expended or improvements made upon, said Mining Claims
 by claimant or its grantors and that
 said improvements consist of 24 cuts, 24 shafts, 21 tunnels & 690 ft
of other workings, total value \$32,805. The value of improvements
 in Moore N°1, 2 Moore N°2, 2 Moore N°3, 2 Moore N°4, 2 Moore N°5, and 2 Moore N°7,
 is apportioned equally among all the claims in
 this survey
 that the location of said improvements is correctly shown
 upon this plat, and that no portion of said labor or improve-
 ments has been included in the estimate of expenditures
 upon any other claim.
 And I further certify that this is a correct plat of said Mining
 Claim made in conformity with said original field notes of the
 survey thereof, and the same is hereby approved.

U.S. Surveyor General's Office. Frank Sigall
 Phoenix, Arizona. U.S. Surveyor General for
October 9, 1915 Arizona

Sheet N°1

ROGER V. PIERCE
CONSULTING ENGINEER
808 NEWHOUSE BUILDING
SALT LAKE CITY, UTAH

Encl. 3-5373
801 Ared

February 17, 1961

Mr. Funk

Mr. Mark Cockrill
222 South Hinton Road
Scottsdale, Arizona

Dear Mr. Cockrill:

It was a pleasure talking with you yesterday and I look forward to meeting you in Arizona some time early in March.

From our conversation yesterday, it is my understanding that after I have looked at the property, the terms on which you would agree to option the property to me are in the general area of a royalty of 7 1/2% of the net smelter return; that I will have 45 free days for whatever geological and reconnaissance work necessary; and then for a period of about six months, I would be required to do somewhere in the neighborhood of 45 man shifts per each month. In the period beyond this time I would be required to do 60 to 90 man shifts per month.

The over all project price would be somewhere between one and two million dollars and at the end of two years, you could expect some sort of a payment or that the construction of the mill would be underway.

It is my understanding that there is on the order of 105 claims involved and that would be covered by an agreement on about the above mentioned terms.

It is my plan to call you the 4th or 5th of March and we will set up a time when I can come down and go over the property with you.

Trusting this meets with your approval and with kindest regards.

Yours very truly,

Roger V. Pierce

Roger V. Pierce

RVP/dma
cc: Mr. Funk

2469
INQUIRY

Dun & Bradstreet Report

RATING
UNCHANGED

56

NAME & ADDRESS

STARTED

RATING

OR 86 AUG 23 1960

PIERCE, ROGER

N.Q.

1201 SOUTH 6TH WEST
SALT LAKE CITY UTAH

UNDER INVESTIGATION
FURTHER REPORT WILL FOLLOW

HISTORY

Pierce, born 1911, Washington, married. Graduate in mining engineering. 1937-1947, employed by Ingersoll-Rand in New York, in charge of hoist division for Western Hemisphere. 1947-1950 officer in Cate Equipment Co. Salt Lake City, Utah. Since 1950 and still continues as president of Machinery Center, Inc., Salt Lake City, Utah. Subject is also active as a consulting engineer with offices maintained at 808 Newhouse Bldg, Salt Lake City, Utah. Subject is also president of Shaft and Development Machinery Inc., Salt Lake City, Utah.

FINANCE

Subject's principle finances consist of interest in various concerns, including one-fifth interest Cate Equipment Co., valued \$135,000; full interest Shaft and Development Machines, Inc., valued \$25,000; two-thirds interest Machinery Center Inc., valued \$140,000. Other assets include home valued \$60,000 and net worth estimated in excess of \$325,000. Liabilities consist of \$13,000 mortgage on home and note payable to local depository of \$17,000, being secured by stock equities. Subject is well-regarded locally and is considered a capable businessman.

TRADE

Subject maintains a prompt pay record locally.
8-23-60 (16-32)

Utahn Selected: AIME in 1963



Roger V. Pierce... Salt Laker to head national engineers.

Roger V. Pierce, Salt Lake mining consultant, has been nominated by the Society of Mining Engineers of the American Institute of Mining and Metallurgical and Petroleum Engineers to be president of AIME, it was reported Saturday.

HE WILL SERVE AS PRESIDENT of one of the nation's largest organizations of engineers in 1963. Each of the three constituent societies of AIME alternate in having a president serve the national body.

R. R. C. McNaughton, Trail, British Columbia, Can., is the current AIME president, having been nominated by the metallurgical society. Next year, the president will be Lloyd Elkins, a Texan nominated by the Society of Petroleum Engineers.

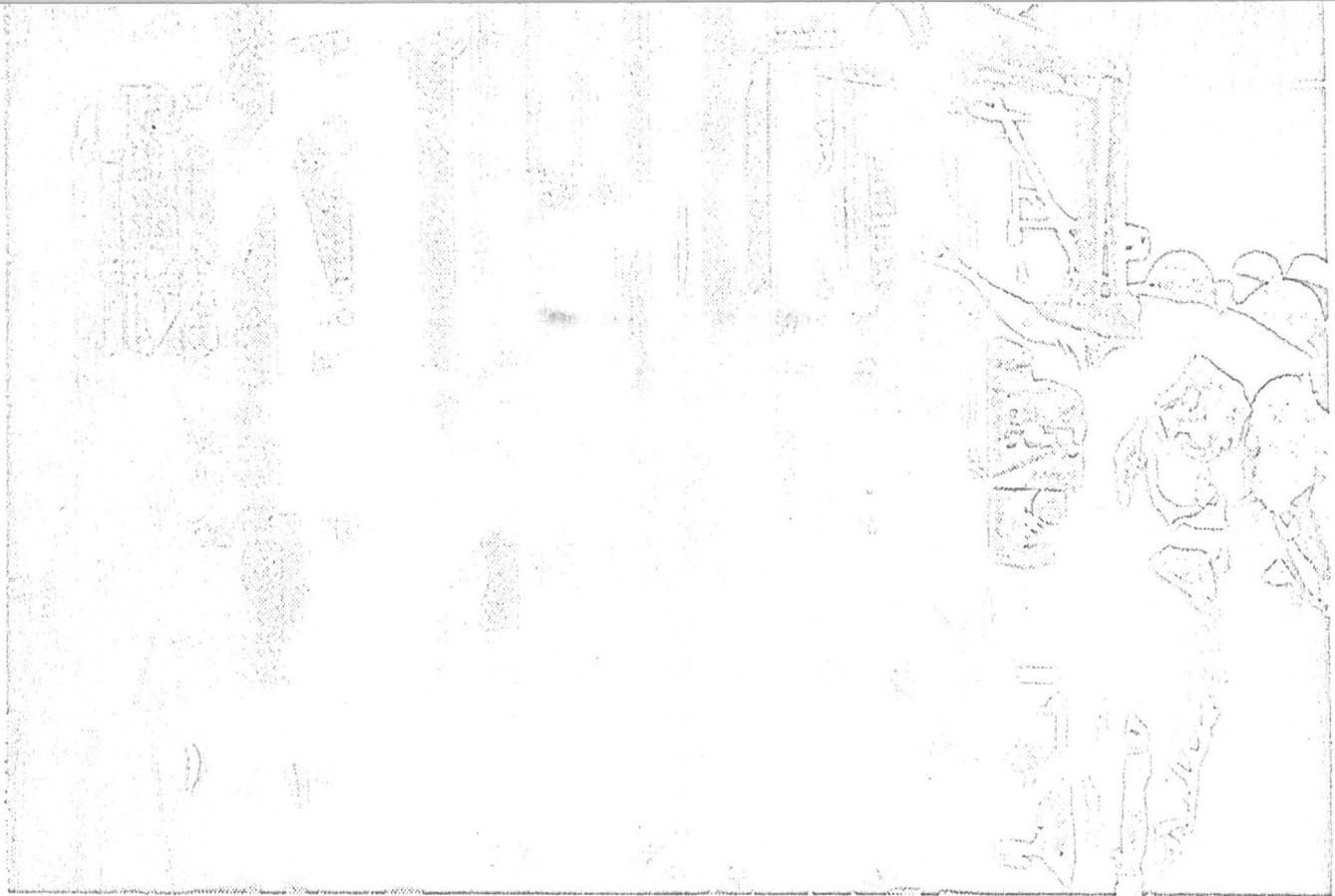
MR. PIERCE becomes the fourth resident of Salt Lake City to serve as AIME president since 1938, when the late D. C. Jackling, founder of Utah Copper Co., served. The late Louis S. Cates, long a figure in Utah Copper and later head of Phelps Dodge Corp., was president in 1946. In 1947, Clyde Williams, mining engineering consultant, who is a native of Salt Lake City, was president.

Mr. Pierce is a native of Pacific, Wash., and a graduate of the Montana School of Mines.

HE WORKED in the U.S. Mine in the Lark-Bingham district of Salt Lake County and at small mines in the Salmon River area of Idaho.

Mr. Pierce for 10 years (1936-1946) was associated with Ingersoll-Rand Co. in mine mechanization work in the U.S., Canada and Latin America. He became a consultant in 1948 and worked in Cuba for Minas de Matahambre and Charco Redondo.

MR. PIERCE is author of the book, "Modern Methods of Scraper Loading and Mucking" and a number of technical articles in professional mining journals.



Republic Photo by Wade Cavanaugh

COPPER PIPELINE — New \$4 million refinery of Arizona Chemcopper Corp. that will produce high-grade copper powder from oxide ore is in

final stages of construction at Bagdad. Dedication of facility, only one in the nation, is set for July.

Unique Copper Refinery Near Ready

Eastern Arizona Bureau

BAGDAD — Arizona Chemcopper Corp.'s \$4 million copper refinery is emerging as a maze of pipes, tanks, gauges, cells and cylinders.

Out of this maze in only three months will emerge a new approach to copper mining: the production of high-grade copper powder by chemical transformation of low-grade oxide ore.

A SNEAK preview of the refinery has been given to 1,000 employes and families of Bagdad Copper Corp. and to visitors from other parts of Yavapai County.

They were guests of Bagdad and Arizona Chemcopper Co. officials during a Family-Day tour of the new facility perched atop a rocky mesa overlooking the huge Bagdad open-pit mine.

DAVID C. LINCOLN, president of Bagdad Copper, and George Caville, vice president and general manager of the

mine and head of the newly formed Chemcopper Corp., were hosts. They explained the operations of the refinery, the only one of its kind in the nation.

The plant utilizes chemicals and a heat-exchange process to convert the leached oxide copper solution into copper powder and briquets with a 99.95 per cent copper purity.

WILLIAM YURKO, project manager, said the leach solution is piped 2 miles from the leach dumps to the refinery site, where it is processed into a black, dusty copper precipitate.

The solar-dried precipitate is dumped into huge hoppers, where it is weighed automatically and recycled with sulphuric acid into a slurry.

Through a complex procedure of leaching, filtering, heating and cleansing, the solution is purged of impurities and agitated with hydrogen gas before its transformation

into high-premium powder.

LINCOLN SAID the refinery will be operated on a nearly automated basis, with only a 15-man crew for the three-shift, round-the-clock operation.

The final product will be shipped directly to manufacturers from the Bagdad site. Officials reported 50 per cent of the first year's production already is sold.

THE CONSTRUCTION of the new facility is a joint operation of Arizona Chemcopper and Chem Metals Corp. of New York, the parent company.

Prime contractor on the refinery is Foster and Wheeler Corp. About 120 construction workers are engaged in the final stages of building.

Bagdad Copper has been stockpiling huge quantities of the low-grade oxide ore in deep canyons surrounding the open-pit mine for many years.

Yurko said the plant is con-

structed to handle oxide ore only, but indicated that processing of sulphide ores may be possible in the future.

*Mr. Ross Vanger
Ch. of Steel Plant
Temple, Texas
Texas Metallurgical
Co. Temple, Texas
This is the deal
LIX-64 deal*

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine MOORE GROUP

Date December 18, 1942

District Plomosa, Yuma County, Arizona

Engineer Elgin B. Holt

Subject:

BRIEF REPORT

OWNER: ~~Seven Brewer~~, Santa Cruz, California

LESSEE: E. M. Marshall, P. O. Box 3, Vicksburg, Arizona

METALS: Copper and silver; copper predominating.

MAN EMPLOYED: Three miners are employed breaking and sorting ore, which is trucked by contract to Vicksburg, a station on the Santa Fe R. R. where it is loaded on cars and shipped to the Clarkdale Smelter.

AREA AND LOCATION: The property, consisting of 46 patented claims, is located in Yuma County, Arizona, 13 miles southwest of Desert Wells on Highway 60-70, from which point it is reached by following said Highway around 3 miles west; thence by dirt road to the mine.

TOPOGRAPHY & GEOLOGY: Topography consists of low hills and ridges, composed mainly of Tertiary lavas, consisting of andesites, rhyolites, capped in places by shales and quartzite.

VEIN-ORE CHIMNEYS: A copper stained andesite dike, around 30 feet in width strikes north 75 degrees west and dips 45 degrees southwesterly. On the hanging wall of this dike is a well defined fissure vein, on which a shaft has been sunk to a depth of 20 feet, exposing a vein, or pay-streak, of oxidized copper ore, assaying around 4% in that metals, per Mr. Marshall. I suggested to him that it would be a good plan to sink this shaft around 80 feet deeper and then do some drifting on the said vein. He stated he would arrange to carry this work out a little later. The said copper stained andesite dike, and accompanying vein, is traceable for at least 3,000 feet, and is opened by 12 surface cuts and prospect holes, all showing low grade oxidized copper ore in place. To the southwest of the 20-foot shaft mentioned, around 300 feet, is an outcropping of ore, in the nature of a chimney about 50 feet in diameter. Here work was being prosecuted at the time of visit, December 16, 1942; said work consisting of an open cut 50 feet long and 10 feet deep at the back end, all in oxidized copper ore.

PRODUCTION: From the cut above mentioned, Brewer, during 1941-42, shipped 5 cars of ore, of 50 tons each, assaying 4.99% copper plus 2 ounces silver per ton; said ore being shipped to the Clarkdale Smelter. Also, during last October, Marshall shipped one car load of ore to Clarkdale, assaying as follows:

Gold-----	Trace
Silver-----	1.04 ozs.
Copper-----	3.30%
Iron-----	5.00%
CaO-----	2.40%
Silica-----	54.50%
Alumina-----	18.20%
Sulphur-----	.20%

Also, at the time of visit, Marshall was trucking another car load of ore to Vicksburg for shipment to the smelter mentioned. As this car load of ore has been hand sorted, the

ore thereof should run around 5% copper.

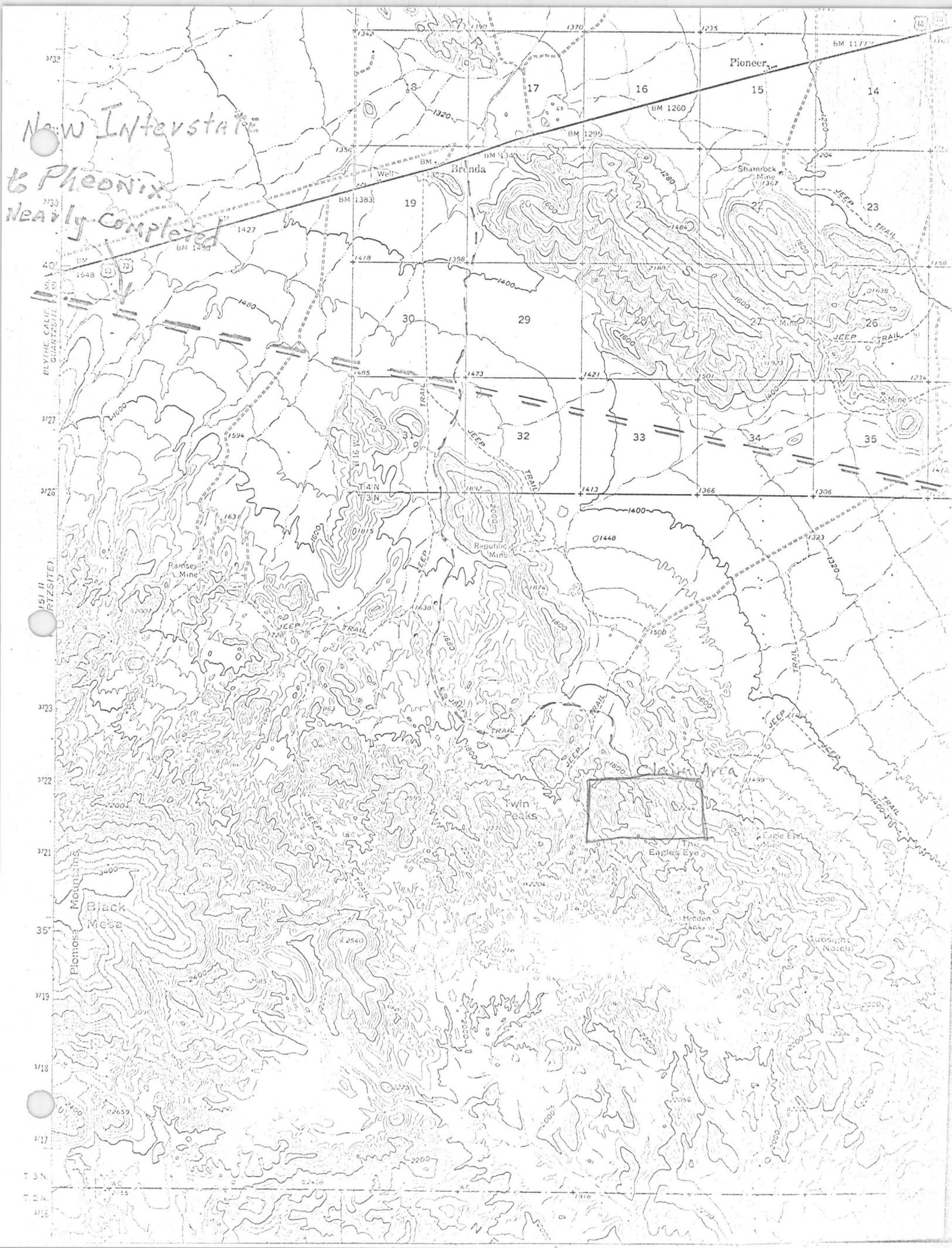
Another chimney of ore, also about 50 feet in diameter, crops out at a point about 200 feet south of the first one mentioned. Here ore is found at the surface assaying 7.4% copper, per Mr. Marshall, who plans to begin work on the same by open pit method, around January 1, 1943. This property has all the ear-marks of a copper mine in the making of considerable importance. Deeper work should result in uncovering a zone of secondary enrichment, consisting of chalcocite and bornite ores.

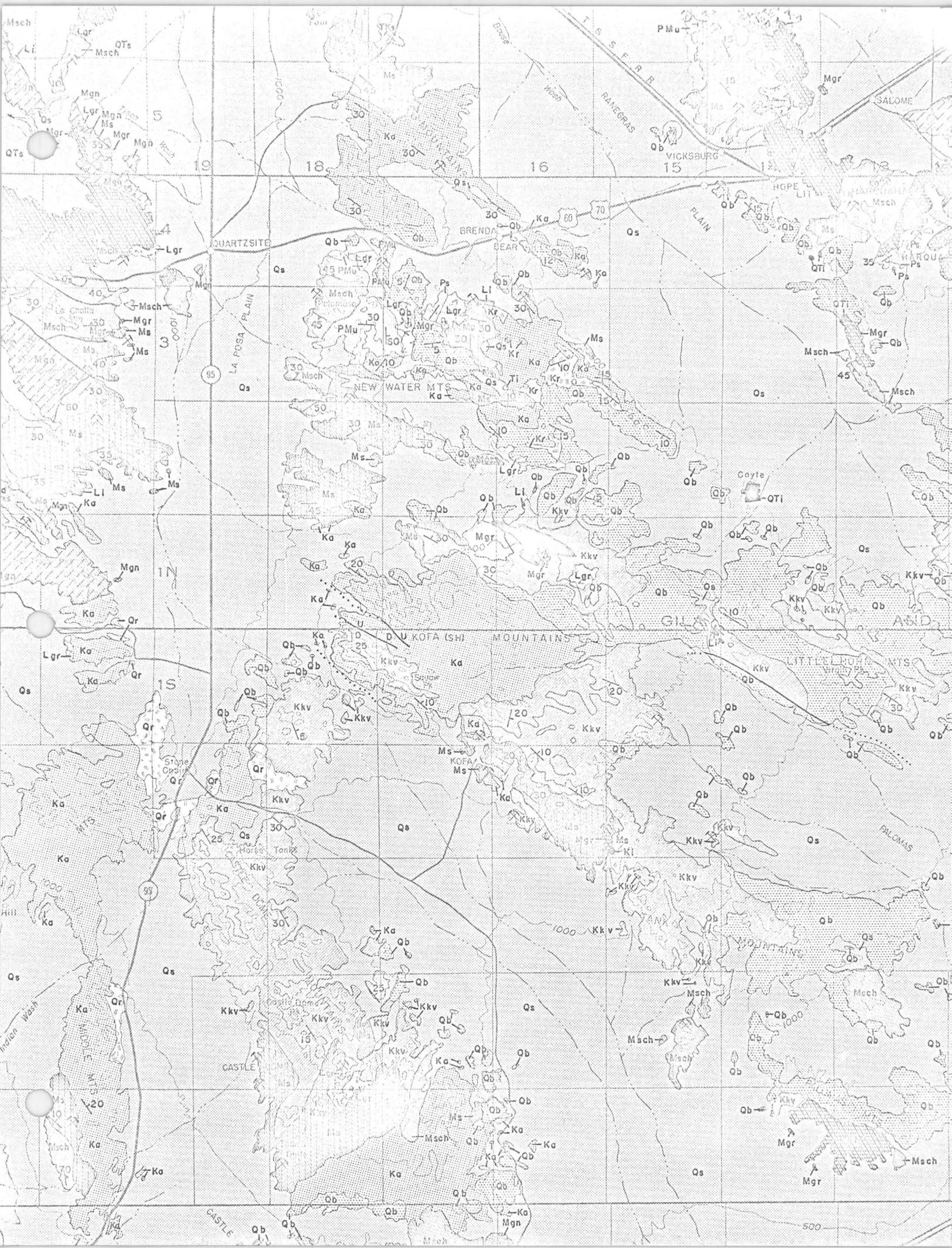
As I spent only a few hours on this property, this report, at best, is only a hurried outline of the same. The property was developed years ago by a company in which rumor has it a high official of the Santa Fe R. R. was interested. It seems that considerable poorly directed exploratory work was done by this company, consisting of at least two deep shafts, evidently with a view to looking for gold ore. However, very little work was done by this company on the copper outcrops above mentioned.

As stated, deeper work should result in uncovering secondary chalcocite, bornite and other copper ores, out of which considerable money should be made. In other words, at least one working shaft should be sunk, at some point to be determined by engineers, to a depth of 400 or 500 feet, with a view to developing both sulphide ores and water, needed for milling purposes at a later time. All in all, the present surface showing of copper ore would seem to warrant the expenditure of money in carrying out the suggested work.

Elgin B. Holt
Field Engineer.

New Interstate
to Phoenix
nearly completed





SOUTHWESTERN ASSAYERS & CHEMISTS

REGISTERED ASSAYERS

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JOB# 000486
RECEIVED 10-25-66
REPORTED 10-28-66

SAMPLE NUMBER	GOLD OZ.	SILVER OZ.	LEAD %	ZINC %	COPPER %	OxCu % <small>1/2</small>	MOLYBDENUM %
Brenda-1		2.14			5.36	5.17	
2		1.78			1.78	1.66	
3		1.24			4.86	4.62	
4		.46			3.48	3.13	
5		.34			6.55	6.42	
6		.42			.71	.54	
7		.48			.98	.79	
8		5.26			7.26	7.05	
9		.62			10.74	10.47	



CHARGE \$51.75



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JOB # 000527
RECEIVED 11-4-66
REPORTED 11-8-66

SAMPLE NUMBER	GOLD OZ.	SILVER OZ.	LEAD %	ZINC %	COPPER %	OxCu %	MOLYBDENUM %
Brenda #50		.06			1.50	1.44	
#51		.28			.47	.32	
#52		.16			.15	.09	
#53		Tr.			.11	.03	



CHARGE \$25.00



53



53



52



51



51



51



50



50