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Arizona Department of Mines and Mineral Resources Mining Collection

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08/15/86

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES FILE DATA

PRIMARY NAME: COPPER MOUNTAIN

ALTERNATE NAMES:

PIMA COUNTY MILS NUMBER: 490

LOCATION: TOWNSHIP 15 S RANGE 5 W SECTION 25 QUARTER NE
LATITUDE: N 32DEG 05MIN 36SEC LONGITUDE: W 112DEG 44MIN 13SEC
TOPO MAP NAME: MT AJO - 15 MIN

CURRENT STATUS: EXP PROSPECT

COMMODITY:

COPPER
LEAD
ZINC
GOLD LODE
SILVER

BIBLIOGRAPHY:

AZBM FILE DATA
ADMMR KNOX-ARIZONA CORPORATION FILE
ADMMR COPPER MOUNTAIN GROUP FILE

AJO BUTTE #1 and 2

Pima

T15S R5W

See: Knox Arizona Corporation (file)

ALICE #1 and 2

Pima

T15S R5W

See: Knox Arizona Corporation (file)

COPPER MOUNTAIN GROUP

PIMA COUNTY
GUNSIGHT DIST.
T15S, R5W, Sec 25

MILS COPPER MOUNTAIN

Mining World March 1962 p. 47

MAPS _ Upstairs in the flat storage file - third drawer

Property No. 1—COPPER MOUNTAIN

A contiguous group of 216 unpatented mining claims approximately 4320 acres, located some 19 air miles southeast of the Ajo open pit, namely, the New Cornelia branch of the Phelps-Dodge Corporation. All assessment work has been completed until September 1, 1971. From drilling results obtained over a period of time with widely spaced holes, mineralization is indicated over a very large area with sulphide mineralization being the basic copper mineral, some non-sulphide minerals do occur as capping. More drilling is warranted in this area to further develop its mineral potential. Drilling and coring began August 30, 1971. Much interest has been shown in this property and in September an additional 32 claims were staked making a total of 216. The results of our drilling indicate a substantial oxide zone of copper, further evaluation is planned for this area. *Knox-Ariz. Corp.
Sept. 14/71*

According to these men, there is a rumor that Anaconda is preparing to do some test drilling on the Copper Mountain claims, since Phelps Dodge has moved off. This has not yet been substantiated since William Knox, owner, has not been in Ajo for over a month. Netherlin stated that he saw a yellow pick-up come out of the area a few days before, but did not get close enough to see whose it was.

William Knox is reported to have taken up some additional claims at the base of the Little Ajo Mountains and these are said to adjoin his older claims.

Interview with Tom Jones and A. C. Netherlin 5-1-62

William Hardwick and another man made a report on a porphyry hill of this mountain.
FPK 11-29-65

Conference with Virgil Denning and Don Dixon at Ajo

Denning said he had had lunch with a Joy Drill crew at the Ajo-Tucson Hwy junction with the Lukeville Hwy. The driller reported that they and another crew had sunk 3 deep holes (over 2000 feet) and a number of shallower holes for American Zinc Company of St. Louis, Mo. Most of them were reportedly on the Copper Mountain Claims of William Knox, but two or three were north of this. Denning said this crew was in the process of leaving. Nothing was said of the results and Denning did not ask. Don Dixon reported that he had also essentially heard this. He said he had suggested that, since they were near two of PD holes, they should use these and save some drilling. LAS Memo 2-7-67

It is reported that Mr. Knox has finished drilling in the Organ Pipe Cactus National Monument; no results were mentioned. GW WR 2/18/72

William Knox, Ajo, drilled an exploratory hole of unknown depth on his Copper Mt. group of claims in the Organ Pipe Cactus Monument. GW QR 2/72

CONTINENTAL URANIUM INC.
P. O. BOX 1550
GRAND JUNCTION, COLORADO

Yield
1/24/56 Dist

July 25, 1956

Mr. Burcher
P. O. Box 637
Ajo, Arizona

Dear Mr. Burcher:

I have received Jerry Weathers report, sample results and maps on your El Jakarta property.

I am very sorry that we did not get together on this earlier so that we would have time to do a systematic evaluation before your deadline. However, if at sometime in the future you are again interested in possible joint venture or an exploration project with out company, we would be glad to discuss the matter further with you.

Sincerely yours,

CONTINENTAL URANIUM, INC.

Robert C. Fruess
Manager

RCP:ro
cc: GG
GW

PRELIMINARY PROPERTY EXAMINATION REPORT NO. 124

Copper Prospect
Date of Examination: 6-14-56
Date of Report : 7-5-56
Gerald Weathers

I. **PROPERTY NAME:** The April Fool group of 41 contiguous lode claims, also referred to as the Copper Mountain property.

II. **OWNER:** The property is owned by the Knox-Arizona Copper Mining Co., who leased it to the El Jakarta Mining Co. Ltd., represented by Mr. Burcher, Box 337 (phone Dudley 7-6402), Ajo, Arizona.

III. **LOCATION & ACCESSIBILITY:** The claims are located in the Meyers Mining District, Pima County, Arizona. They can be reached by travelling southeast of Ajo on State Highway 86 for 10 miles; thence south for 9 miles toward Sonoita and within the boundaries of the Organ Pipe National Monument; thence east for one mile on an access road to the north portal of a tunnel. Excepting for one small hill, the surface is nearly level and easily accessible.

IV. **DEVELOPMENT:** Major development consists of a tunnel extending south for 922' through a hill. A 43' winze is located 432' south of the north portal. Other development consists of numerous shallow prospect pits on the surface following the trend of the tunnel. Three holes were drilled on the property, one on Ajo Butte #2 to an approximate depth of 450'; another on Artie-Bell #3 to a depth of 200'; and another on Ajo Butte #1 to a depth of 560'. No other development was observed.

V. **GEOLOGY:** Most of the claims are covered by alluvium except for the southern extremities which are covered by an andesite flow and the Ajo Butte claims #1 and 2 which contain a hill about 800' in diameter and 200' high, cutting out of the valley floor. The hill is composed of quartz monzonite and is capped with rhyolite. The rhyolite-quartz monzonite contact is disclosed in the north tunnel immediately north of the winze.

Numerous veins and veinlets carrying copper oxides outcrop on this hill. The majority of these strike north and dip steeply to the northeast, others strike N45°E and dip steeply to the southeast.

A zone mineralized over a 20' width was encountered immediately south of the north portal. This zone contains both copper sulfides and oxides. The north adit contains spots of discontinuous mineralization from this zone for 400' southward where a copper bearing vein averaging 18" in width and dipping steeply to the east was encountered. The mineralization in the tunnel to this

point consists primarily of chalcopyrite and pyrite except for thin streaks of malachite along shear zones. A winze was sunk to a depth of approximately 40' on the 18" vein. The width remains fairly constant for the entire depth and the vein contains chalcopyrite and bornite. This vein was channel sampled across its width to check sample previous sampling. The check samples versus previous sample results are tabulated on a separate sheet. Evidently the south adit was driven northward for 460' along a circuitous route and joined with the north adit at the winze. This adit also encountered mineralized shear zones of varying widths which are shown on the attached map, but disclosed none of minable width or grade. Mr. Burcher, a mining engineer, conducted a systematic sampling of the tunnel; the assays are attached, but unfortunately, his map has not been prepared as yet, so sample widths and locations are unknown. Burcher also had the claims and development surveyed. On the map prepared from this survey are shown three drill holes and results. It is reported that the northern most hole encountered copper mineralization from 190' to 200' in depth, the eastern most from 380' to 420' in depth and the western most from 545' to 560' in depth. The assays and hole logs are not available.

In addition to the above information, a magnetometer survey map prepared by the United Geophysical Corp. was submitted. The contours on this map show several magnetic highs that have been interpreted as locations of copper mineralization. These have not been tested as yet. The "Mo Mag" survey map is attached.

The 59 samples taken by Burcher average 0.77% Cu, 65% SiO₂ and 13% Al₂O₃.

VI. TERMS: Mr. Burcher first proposed a down payment of \$20,000 for the first year, beginning July 1st, followed by a payment of \$50,000 at the end of the first year and \$65,000 at the end of the 2nd year. The balance was to be paid out at the rate of \$50,000 per year for 10 years, or a total of \$635,000. Later, during attempted negotiations by Mr. R. C. Pruess, Mr. Burcher asked for \$12,000 down payment due in a very short time. Negotiations for this property ceased at this point.

VII. CONCLUSIONS & RECOMMENDATIONS: The April Fool claims contain copper sulfide mineralization exposed close to the surface in the present workings. The copper is estimated to average about 1% over the sampled intervals. The extent, depth and grade of mineralization can be determined by drilling the prospect. The property was judged worthy of further consideration provided favorable terms could be negotiated with the operators of the property. These negotiations failed.

C
O
P
Y

COPPER MOUNTAIN PROSPECT

| <u>Description and Location of Samples</u> | <u>oz. Ag/ton</u> | <u>oz. Au/ton</u> | <u>% Cu</u> |
|--|-------------------|-------------------|-------------|
| Tunnel - 18 ft. south of north adit, east wall | 1.96 | 0.02 | 2.98 |
| Tunnel - 11 - 21 ft. north of center of winze, east wall | 1.26 | 0.04 | 2.45 |
| Winze in tunnel, 27 ft. below collar south wall, 18 inches across vein | 6.10 | 0.78 | 3.31 |
| Tunnel - 10 - 15 feet south of turn from south adit, west wall | | | 0.39 |
| Tunnel - 5 - 10 ft. southwest of magazine door, east wall | | | 1.09 |
| Tunnel - 3 - 8 ft. west of winze, north wall | 0.99 | 0.03 | 0.28 |
| Tunnel - below stepoff north of winze | 1.04 | 0.04 | 2.45 |
| Tunnel - 30 - 35 ft. north of stepoff, east wall | | | 1.65 |
| Tunnel - 172 - 177 ft. north of stepoff east wall | | | 0.04 |
| Tunnel - 3 - 8 ft. north of timber in north adit, east wall | | | 0.67 |
| * No. 576 - Tunnel - 5-10 ft. southwest of magazine door, east wall | 0.4 | 0.04 | 2.36 |
| * No. 577 - Tunnel - below stepoff north of winze | 0.20 | Tr. | 1.13 |

* *Check samples taken by A. C. U.*

COPY

LABORATORY REPORT SMITH-EMERY COMPANY

ESTABLISHED 1919
CHEMISTS - ENGINEERS
181 EAST WASHINGTON BOULEVARD
LOS ANGELES 21, CALIFORNIA

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LABORATORY
No. 416081

Date March 22, 1956

Sample Ore

Received 3-3-56

Method "El Jakarata CM-010-NA"

Submitted by Hawley & Hawley
I.O. Box 1060
Douglas, Arizona

RECEIVED

MAR 25 1956

REPORT OF TESTS

PETROGRAPHIC EXAMINATION

EL JAKARIA MINING CO. LTD.

By *Couch*
Approximate Amount

| Mineral | Approximate Amount |
|---|--------------------|
| Quartz ----- | 50% |
| Feldspar ----- | 35% |
| Pyrites ----- | 10% |
| Augite and other Accessory Minerals ----- | 5% |
| | <u>100%</u> |

(Ca Mg Si₂ O₆)
(Aluminous pyroxene)

SPECTROSCOPIC EXAMINATION (Qualitative)

Silicon, Aluminum -----
Calcium, Iron, Sodium,
Potassium -----

Major Constituents
Intermediate Constituents

| | Minor Constituents |
|-------------------|--------------------|
| Magnesium --- | Approximately 0.5% |
| Copper ----- | " 0.5% |
| Barium ----- | " 0.5% |
| Lead ----- | " 0.1% |
| Titanium ----- | " 0.1% |
| Strontium ----- | " 0.05% |
| Zinc ----- | " 0.05% |
| Manganese ----- | " 0.05% |
| Zirconium ----- | " 0.01% |
| Boron ----- | " 0.005% |
| Gallium ----- | " 0.005% |
| Chromium ----- | " 0.005% |
| Molybdenum ----- | " 0.001% |
| Bismuth ----- | " 0.001% |
| Vanadium ----- | " 0.001% |
| Nickel ----- | " 0.001% |
| Silver ----- | Present |
| Tungsten ----- | None found |
| Cobalt ----- | None found |
| Rare Earths ----- | None found |

Smith-Emery Co.

CHEMISTS AND ENGINEERS

HELPS DODGE CORPORATION

NEW CORNELIA BRANCH — REDUCTION WORKS

CUSTOM ORE LIQUIDATION STATEMENT

Bought Of Knox Arizona Copper Mining Co. Ajo, Arizona April 5 19 54
 Address c/o W. A. Knox - Ajo, Arizona Contract No. 9
 Shipping Point Shipped by Truck Smelter Lot No. 167
 Mining District _____ Shipper's Lot No. 1
 Names of Mines Copper Mountain Classification Copper, Gold, Silver

| Arrival Date | Truck Number | R.R. Car Number | Gross Weight Pounds | CONTAINERS | | Wet Weight Pounds | Percent Moisture | DRY WEIGHT | | METAL PRICES |
|--------------|--------------|-----------------|---------------------|------------|--------|-------------------|------------------|------------|--------|--|
| | | | | No. | Weight | | | Pounds | Tons | |
| 4-3-54 | | Truck | 222,960 | 85 | 800 | 137,160 | 1.00 | 135,738 | 67.394 | Gold \$33.00 per Silver 85.250 per Copper 29.700 per Less 3.000 26.700 |

| | FIRE ASSAYS | | | CHEMICAL ANALYSIS | | | | | | | | MINERAL ANALYSIS | | | |
|------------|-----------------|--------|--------|-----------------------|--------------------------------|-----|-----|-----|---|-----|-----|-----------------------|---------|------|-------|
| | Oz. per Dry Ton | | | Percent of Dry Weight | | | | | | | | Percent of Dry Weight | | | |
| | Gold | Silver | Copper | SiO ₂ | Al ₂ O ₃ | CaO | MgO | Fe | S | Zn | Pb | Qtz. | Feldsp. | Clay | Other |
| Smelter | .025 | 1.60 | 2.15 | 64.1 | 9.4 | 1.1 | | 7.6 | | 0.8 | 1.0 | | | | |
| Shipper | | | | | | | | | | | | | | | |
| Umpire | | | | | | | | | | | | | | | |
| Metallies | | | | | | | | | | | | | | | |
| Settlement | .025 | 1.60 | 2.15 | 64.1 | 9.4 | 1.1 | | 7.6 | | 0.8 | 1.0 | | | | |

| CREDITS | | | | | | | DEBITS | | | | |
|--|-----------------------|---------|------------|---------|---------------|--------------|-------------------------------|---------------------|---------------|-------------|--|
| ITEM | CONTENTS - Dry Weight | | | PRICE | \$ AMOUNT \$ | | ITEM | FORMULA | \$ AMOUNT \$ | | |
| | TOTAL | Deduct. | Creditable | | TOTAL | Per Dry Ton | | | TOTAL | Per Dry | |
| Gold | 6.450 | - | 6.450 | \$33.00 | 212.85 | 3.14 | Treatment Charge | 5.00 Base | 339.47 | 5.00 | |
| Silver | 108.63 | 83.95 | 74.63 | 85.250 | 67.63 | 0.94 | Excess Value Charge | \$ x 0.10 | | | |
| Copper | 2,150 | 879 | 2,240 | 29.700 | 599.08 | 9.81 | Copper Deficit | lbs. x c | | | |
| | | | | | | | As & Sb Pen. | lbs. over 20 @ 2.50 | | | |
| | | | | | | | Bi Penalty | lbs. over 2 @ 25c | | | |
| | | | | | | | Sampling Small Lot | | | | |
| TOTAL CREDITS | | | | | 574.59 | 12.89 | TOTAL DEBITS | | 339.47 | 5.00 | |
| Less Total Debits | | | | | 339.47 | 5.00 | OTHER DEDUCTIONS: | | | | |
| PURCHASE PRICE F.O.B. | | | | | 535.12 | 7.89 | Trucking | Wet Tons @ | | | |
| Freight Value (Purchase price per wet ton) | | | | | | | | Tax | | | |
| (To be used when trucking tariff is based on ore values) | | | | | | | Umpire | | | | |
| SUMMARY: | | | | | | | | | | | |
| Purchase Price | | | | | | 535.12 | | | | | |
| Less Other Deductions | | | | | | - | | | | | |
| Balance Due Shipper | | | | | | 535.12 | | | | | |
| | | | | | | | TOTAL OTHER DEDUCTIONS | | | | |

Correct:

Checked:

Approved:

HAWLEY & HAWLEY
CHEMISTS

EL PASO, TEXAS
BOX 4

HAWLEY & HAWLEY

W. E. HAWLEY, MANAGER
DOUGLAS, ARIZONA
537 TWELFTH STREET
BOX 1060

SHIPPERS REPRESENTATIVE
BULLION BUYERS
ORE BUYERS

WE HEREBY CERTIFY THAT THE FOLLOWING RESULTS WERE OBTAINED FROM SAMPLES OF

E1 Jakarta Mining Co.

| OFFICE NO. | MARKED | GOLD OZS. | SILVER OZS. | LEAD PER CENT | COPPER PER CENT | ZINC PER CENT | IRON PER CENT | % SiO ₂ | % Al ₂ O ₃ |
|------------|----------|-----------|-------------|---------------|-----------------|---------------|---------------|--------------------|----------------------------------|
| 288485 | Sample : | 1001 CM | 0.005 | 0.2 | | 0.72 | | | |
| | | 1002 CM | 0.01 | 0.3 | | 0.52 | | | |
| | | 1003 CM | Trace | N11 | | 0.20 | | | |
| | | 1004 CM | Trace | Trace | | 0.31 | | | |
| | | 1005 CM | Trace | Trace | | 0.27 | | 67.6 | 15.46 |
| | | 1006 CM | Trace | Trace | | 0.38 | | | |
| | | 1007 CM | Trace | Trace | | 0.36 | | | |
| | | 1008 CM | Trace | 0.1 | | 0.48 | | | |
| | | 1009 CM | Trace | 0.1 | | 0.43 | | | |
| | | 1010 CM | Trace | 0.5 | | 0.48 | | 57.1 | 15.48 |
| | | 1011 CM | Trace | 0.4 | | 1.12 | | | |
| | | 1012 CM | 0.02 | 1.1 | | 2.19 | | | |
| | | 1013 CM | 0.01 | 0.8 | | 1.47 | | | |
| | | 1014 CM | Trace | N11 | | 0.67 | | 58.8 | 15.52 |
| | | 1015 CM | 0.005 | 0.2 | | 0.28 | | | |
| | | 1016 CM | 0.005 | 0.2 | | 0.54 | | | |
| | | 1017 CM | 0.005 | 0.6 | | 0.82 | | | |
| | | 1018 CM | 0.005 | 0.5 | | 2.08 | | 71.2 | 7.26 |
| | | 1019 CM | 0.01 | 1.4 | | 1.26 | | | |
| | | 1020 CM | Trace | 0.2 | | 0.42 | | | |
| | | 1021 CM | Trace | Trace | | 0.19 | | | |
| | | 1022 CM | Trace | 0.1 | | 0.32 | | | |
| | | 1023 CM | Trace | Trace | | 0.14 | | | |
| | | 1024 CM | Trace | N11 | | 0.17 | | 66.6 | 14.66 |
| | | 1025 CM | Trace | N11 | | 0.09 | | | |

METAL QUOTATIONS:

GOLD \$38.00 PER OZ. COPPER _____ C PER LB. CHARGES \$
3/9/56
SILVER _____ PER OZ. _____ PER LB. DATE

HAWLEY & HAWLEY

PER *[Signature]* ASSAYER

ASSAYERS
CHEMISTS

HAWLEY & HAWLEY

SHIPPER REPRESENTATIVE
BULLION BUYERS
ORE BUYERS

EL PASO, TEXAS
Box 4

W. E. HAWLEY, MANAGER
DOUGLAS, ARIZONA
537 TWELFTH STREET
Box 1060

El Zakarta Mining Co.

WE HEREBY CERTIFY THAT THE FOLLOWING RESULTS WERE OBTAINED FROM SAMPLES OF

| OFFICE NO. | MARKED | GOLD OZS. | SILVER OZS. | LEAD PER CENT | COPPER PER CENT | ZINC PER CENT | IRON PER CENT | % SiO ₂ | % Al ₂ O ₃ |
|------------|----------|-----------|-------------|---------------|-----------------|---------------|---------------|--------------------|----------------------------------|
| 288975 | Sample : | 1026 CM | N11 | Trace | 0.17 | | | | |
| | | 1027 CM | N11 | N11 | 0.32 | | | 65.3 | 13.70 |
| | | 1028 CM | N11 | N11 | 0.25 | | | | |
| | | 1029 CM | N11 | Trace | 0.16 | | | | |
| | | 1030 CM | Trace | N11 | 0.15 | | | 64.6 | 14.28 |
| | | 1031 CM | Trace | N11 | 0.14 | | | | |
| | | 1032 CM | 0.005 | 0.4 | 1.42 | | | | |
| | | 1033 CM | Trace | 0.4 | 1.55 | | | 66.3 | 10.86 |
| | | 1034 CM | 0.005 | 0.2 | 0.50 | | | | |
| | | 1035 CM | 0.005 | 0.2 | 0.52 | | | | |
| | | 1036 CM | 0.01 | N11 | 0.74 | | | 64.0 | 12.52 |
| | | 1037 CM | 0.01 | N11 | 0.34 | | | | |
| | | 1038 CM | 0.01 | Trace | 0.15 | | | | |
| | | 1039 CM | 0.01 | 0.2 | 0.12 | | | 61.1 | 12.86 |
| | | 1040 CM | 0.02 | 0.2 | 0.23 | | | | |
| | | 1041 CM | 0.02 | 0.1 | 0.37 | | | | |
| | | 1042 CM | 0.01 | 0.1 | 0.54 | | | 58.6 | 14.80 |
| | | 1043 CM | 0.01 | 0.2 | 0.56 | | | | |
| | | 1044 CM | 0.045 | 1.3 | 1.83 | | | | |
| | | 1045 CM | 0.005 | 0.2 | 0.50 | | | | |
| | | 1046 CM | 0.03 | 0.5 | 0.76 | | | | |
| | | 1047 CM | N11 | 0.2 | 0.10 | | | 65.8 | 13.20 |
| | | 1048 CM | 0.005 | 0.4 | 0.72 | | | | |
| | | 1049 CM | N11 | 0.2 | 0.23 | | | | |
| | | 1050 CM | 0.02 | 0.4 | 0.75 | | | 77.0 | 8.18 |

METAL QUOTATIONS:

GOLD \$35.00 PER OZ. COPPER _____ C PER LB. CHARGES \$ _____

SILVER _____ PER OZ. _____ PER LB. DATE 3/21/56

HAWLEY & HAWLEY
PER _____ ASSAYER

ASSAYERS
REGISTERED

HAWLEY & HAWLEY

SHIPPERS REPRESENTATIVES
BULLION BUYERS
OFF BUYERS

EL PASO, TEXAS
Box 4

W. E. HAWLEY, MANAGER
DOUGLAS, ARIZONA
537 TWELFTH STREET
Box 1060

El Jakarta Mining Co.

WE HEREBY CERTIFY THAT THE FOLLOWING RESULTS WERE OBTAINED FROM SAMPLES OF

| OFFICE NO. | MARKED | GOLD OZS. | SILVER OZS. | LEAD PER CENT | COPPER PER CENT | ZINC PER CENT | IRON PER CENT | %SiO ₂ | %Al ₂ O ₃ |
|------------|------------------|-----------|-------------|---------------|-----------------|---------------|---------------|-------------------|---------------------------------|
| 289000 | Sample : 1051 CM | 0.01 | 0.6 | | 0.56 | | | | |
| | 1052 CM | Trace | Trace | | 0.14 | | | | |
| | 1053 CM | 0.005 | 0.2 | | 0.17 | | | | |
| | 1054 CM | Trace | Nil | | 0.12 | | | | |
| | 1055 CM | Trace | Nil | | 0.17 | | | 71.0 | 14.46 |
| | 1056 CM | Trace | Nil | | 0.16 | | | | |
| | 1057 CM | 0.11 | 4.1 | | 10.66 | | | | |
| | 1058 CM | 0.48 | 4.7 | | 4.22 | | | | |
| | 1059 CM | 0.01 | Trace | | 0.07 | | | 57.0 | 15.70 |
| | | | | 59 | 0.768 | | 15 | 15 | |
| | | | | | | | 64.8 | 13.26 | |

RECEIVED

MAR 24 1956

EL JAKARTA MINING CO. LTD.

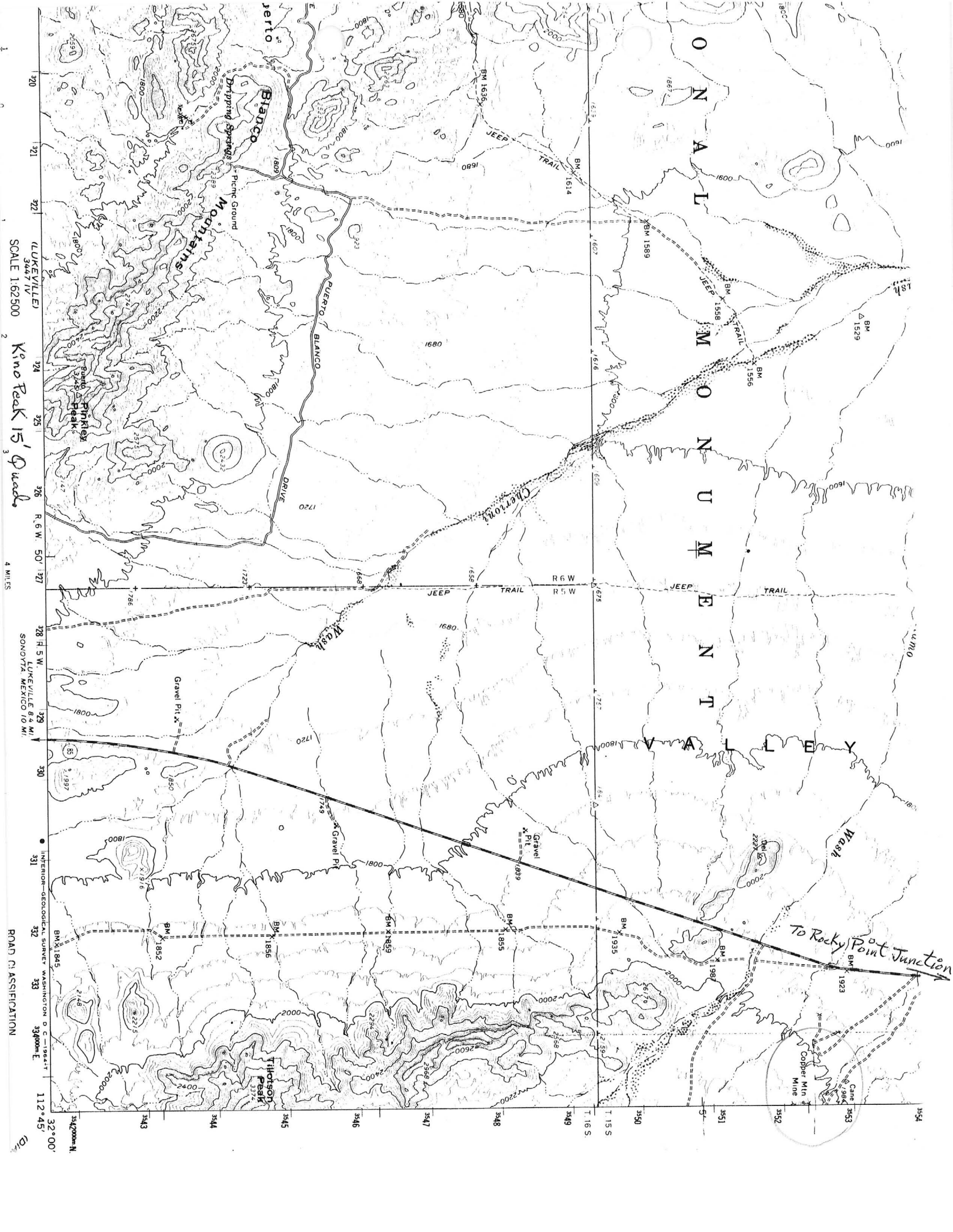
By B

METAL QUOTATIONS:

GOLD \$85.00 PER OZ. COPPER _____ C PER LB. CHARGES \$ _____

SILVER _____ PER OZ. _____ PER LB. DATE 3/21/56

HAWLEY & HAWLEY
PER [Signature] ASSAYER



LUKEVILLE
3447 IV
SCALE 1:62500

Kinross Peak 15' Quad

4 MILES

SONOYA MEXICO 10 MI

INTERIOR-GEOLOGICAL SURVEY WASHINGTON D. C. 1984-11
ROAD CLASSIFICATION

32° 00' N
112° 45' W

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

FIELD ENGINEERS REPORT

Mine Copper Mountain Claims

Date May 10, 1961

District Gunsight Hills - Pima County

Engineer Lewis A. Smith

Subject: Interview with William A. Knox - owner

Mr. Knox stated that the drilling by Phelps Dodge had ceased and they had moved off. He said that 5 holes in an area 7500 by 5000 feet had shown up to 600 feet of mineralized ground which averaged between 0.20 and 0.36 percent copper. He felt that the hole spacing was too far spread to be conclusive. He said the deepest hole was 1600 feet.

The rocks penetrated were andesite followed by two monzonite porphyries. The upper monzonite was weakly mineralized and the lower monzonite was some better. The holes disclosed some extensive step-faulting.

Mr. Knox is considering patenting part of the claims as well as some others he has in the Ajo area.

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

FIELD ENGINEERS REPORT

Supplementary

Mine : Copper Mountain Mine (Knox Group)

Date January 5, 1960

District Gunsight Hills (Ajo Mountains) Pima Co.

Engineer Lewis A. Smith

Subject: Brief mine visit by Lewis A. Smith and A. C. Netherlin

The drilling program by Phelps Dodge Corp. is continuing. Acquisition of additional claims has been made by Knox, the owner. Evidence of recent location work could be seen in the form of cuts and pits.

The geology consists of a series of Tertiary volcanics (comprising the Ajo Mountains) overlying tilted pre-Cambrian schists which have been intruded by Monzonite (?) porphyry dikes and masses. The Copper Mountain is mainly in the andesitic flows which form the base of the flow series. The formations have been offset by a major regional fault to the west. This fault is a step-fault with the downsteps to the west. This fault has been observed to the north where it forms the west face of the Pasa Redondo Range, and to the south toward the Mexican boundary. The down thrown result blocks form the precipitous face of the Ajo Mountains. The stepped zone in the Pasa Redondo is 1 mile or more wide and consists of several sub-faults. The overall throw is large. This coupled with the Growler fault to the west (several miles) apparently form a graben, with some interval faults which form tilted blocks. The overall surface mineralization is sparse, but locally copper oxides are present. Limonite is fairly prevalent and indicate chalcopyrite and probably some chalcocite.

The drilling is being done under the direction of the Douglas office of Phelps Dodge.

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

FIELD ENGINEERS REPORT

Mine COPPER MOUNTAIN GROUP

Date November 3, 1959

District AJO DISTRICT, PIMA COUNTY

Engineer Lewis A. Smith

Subject: As reported by Wm. A. Knox and a brief visit to the area by Lewis A. Smith.

Property: 61 unpatented claims.

Owner: William A. Knox, 8967 Ladue Drive, St. Louis, Missouri, or Cornelia Hotel, Ajo, Ariz. (Temporary)

Location: 25 miles south of Ajo and 1 3/4 miles west of the Ajo-Lukeville highway.

Work: One shaft and several cuts other than assessment work. Phelps Dodge has, thus far, completed two churn drill holes to a depth of 1,500 feet. Mr. Knox stated that they now plan a two-drill operation. Roads to sites have been put in but recent rains did considerable damage to these. The work is being carried out under the direction of E. E. Maillott, exploration chief of Phelps Dodge, and the operation is handled entirely out of Douglas.

Geology: Generally the property lies along, or near to, the axis of what appears to be a wide flat geanticline which is about 70-80 miles wide and which has been complicated by two major faults of the Basin and Range type. The center of the anticline appears to have down dropped in the form of a graben. It is quite possible that this structure is a continuation of the graben structure which is evident south of Brenda and between the Harquahala and Plomosa Mountains. The wings, or flanks, of the geanticline are flat dipping and are heavily covered by lava flows which may range from Late Cretaceous to Late Tertiary in age. The flows on the Growler Mountains, or west wing, are steeper in pitch than their equivalents on the Ajo Mountains, or east wing. The east face of the Growler Range is determined by a strong fault with the down throw on the east. The Ajo Range, similarly appears to be determined by a major fault which is down thrown on the west. A great deal of field work would be required to figure out how much throw is involved. The east (Ajo Mountains) fault is complex and consists of a group of more or less parallel step faults. Along the west side of the Poza Redondo Range, the east fault is composed of at least 3 step faults of variable throws. In between these the blocks are jumbled more or less and have been considerably broken by transverse faults. The general trend of the geanticline is roughly N 20° W while the faults are closer to the north. The two flanks have three separate flow series which from bottom to top consist of (1) Andesitic types, (2) heavy rhyolite and rhyolitic agglomerates, (3) Late Tertiary basalts. The basalt is separated in places from the rhyolitic flows by lake beds and in other places by an erosional unconformity. The andesites and rhyolites are separated by an erosional unconformity which sometimes contains an old, fairly well consolidated consolidated conglomerate on finer eluvial deposits. The anticlinal crest was probably in part removed by erosion prior to the flows. At the Copper Mountain deposit the rhyolite and andesite are present but at an elevation of many hundreds of feet lower than their equivalent positions on the Ajo and Growler Mountains, but closer to the equivalent positions on the west side of the Growler. Erosion, however, appears to have been much more active on the Growler area. The andesitic flows in the Copper Mountain area are strongly altered and appear to be well mineralized. They appear to dip in a westerly direction at less than 45 degrees. The area, being prospected, is mineralized by copper sulphides and oxides. The sulphides appear at a fairly shallow depth below the surface, according to Knox. The capping is somewhat erratic being determined by the re-activity

of the host rocks. The andesite is relatively non-reactive where the rhyolite is reactive. In the andesite rocks chalcocite is fairly prevalent whereas in the rhyolites chrysocolla appears to be more prevalent. Some halo banding of the limonites and some "relief" limonite were found. The holes, according to Knox, had not penetrated to the pre-Cambrian formations usually underlying the flows in this area. The results of sampling are not known. Strong jointing appears in places in all of the rocks. Time did not permit a study of the minor fault patterns. Two or three dikes cut the area and these are reported to be monzonite similar to that which outcrops in the Gunsight Hills to the east. This monzonite has not been as flooded by reactive calcic feldspar as was the case at Ajo, according to Knox.

COPPER MOUNTAIN. - This property, now consisting of two mining claims only, is owned by M. E. Gibson, of Ajo. It is located 23 miles south-southeast of Ajo. The geologic structure of this property consists of a copper stained and highly mineralized hill of quartz-monzonite, traversed by a number of quartz veins from 4 to 8 feet wide, which have been developed by 15 shafts from 10 to 80 feet deep, one tunnel and various open cuts; and all ore removed from these workings assays, per reliable data furnished me, around 2% copper and \$3.00 gold per ton. These veins might now be worked profitably if further developed and proper metallurgical equipment installed.

Copper mountain was diamond drilled, in 1917, by the American Smelting & Refining Company and others. Three holes were put down, partly by the said company and partly by the owners of that time, M. E. Gibson and W. A. Knox. Drill hole No. 1 was sunk to an inclined depth of 530 feet and averaged, per Mr. Gibson, 1% copper. Hole No. 2, 400 feet deep also averaged about 1% copper. Hole No. 3, 200 feet deep, averaged 1.5% copper; but gold and silver values in these holes were not available.

As a result of the above work at Copper Mountain, about 40 acres of mineralized ground was proven to carry low copper and gold values to a maximum inclined depth of 530 feet, thus indicating a vast amount of ore indeed. However, at the time this work was done (1917), the ore was found to be too low grade to meet the requirements of interested parties at that time. But even then, mill heads at Ajo only averaged slightly in excess of 1% copper and that grade of ore has, more or less, been worked profitably through the years.

On the other hand, as Mr. Albert I. Long points out: "Who can say with the rapid advance of science what technological developments may take place in the near future which would make mineral deposits now below the commercial ore margin, valuable and taxable?"

But the National Park Service people may point out: "What has Copper Mountain got to do with this discussion anyhow, as this withdrawal was made subject to existing rights, etc.?" In answer to this hypothetical question, I will state plainly what it has got to do with it. The present area of Copper Mountain is now only two mining claims, with all surrounding ground withdrawn from mineral entry. No mining company would consider developing this property unless as much larger area could be acquired. So although the Monument must and does respect the two claims mentioned, for all practical purposes these claims are now rendered of no value at all. That is my answer.

Copy

May 4th, 1920

Cameron, Michel & Co.
8 West 40th St., New York

Gentlemen:-

In regard yo the Copper Mountain Mine at Ajo, I beg to advise the following:

LOCATION:

The Copper Mountain Group consists of eighteen claims (Unpatented) located about 22 miles south of Ajo. Four of the claims cover an isolated mountain rising out of the flat desert and the balance surround the mountain on the desert.

Part of the road from Ajo is in good condition but the remaining is very rough and brushy about 3 hours being required to make the trip in a car. Th road could be very easily put in excellent shape however.

Water is scarce but sufficient for camp and drilling purposes can be found in a canyon about two miles to the south east.

GEOLOGY:

The mountain is a monzonite intrusion, having taken place under a rhyolite capping. On the northern end a small remnant of the capping still exists, but on the southern end the monzonite is exposed.

Running through the mountain from the north to the south is a sheared and brecciated zone that has been subjected to considerable mineralization. The zone lacks distinct definition and definite continuity, as there seem to be areas in it that are not sheared or mineralized, and it may be a series of comparatively small areas of fracture and brecciation, that developed on the cooling of the monzonite/ The remnant of rhyolite capping is also extensively mineralized but is too small to furnish any amount of ore.

The sheared zone is about 1200 feet long and approximately one third of it is fractured and mineralized material. The width of the zone is between 15 and 75 feet.

Where fracturing and brecciation occur the monzonite has been well mineralized resulting in ore of a good grade. The question is whether or not sufficient area of these areas will be developed, and whether the shearing will continue to depth or whether it is merely the result of irregular cooling under near-surface conditions. These questions can only be determined by development.

There are some irregular diorite areas included in the monzonite but these seem to be chill phases of the monzonite

Copper Mountain #2.

rather than later intrusions.

DEVELOPMENT:

On the northern end of the shear zone there are several shallow shafts and cuts. Most of these are in the rhyolite capping but enter the sheared monzonite a few feet below the surface and show good ore both in the rhyolite and monzonite. One shaft is in barren diorite.

On the southern end of the mountain there are several small shafts, tunnels and cuts, most of them in ore, which show the irregular fractured and mineralized condition. Some very fine mineralized monzonite breccia ore occurs in this section.

Three drill holes were started about 500 feet east of the shear zone and pointing toward it at angle of about 30 degrees with the vertical, or 80 degrees with the horizontal. One of these holes is reported to be 300 feet deep, the second 450 and the third just started. In neither event would the depth be sufficient to reach the sheared zone at that angle. There are no cores remaining at the holes to indicate what was encountered.

RECOMMENDATIONS:

The property seems to have an excellent chance of developing favorably and I can recommend its purchase for Cornelia stock, or for cash on a long time option, allowing sufficient time for considerable development before a payment is made. I could not advise taking it over is a cash payment is required.

In developing the property I doubt very much the feasibility of drilling until much more underground work had been done. The likelihood of missing an orebody in this formation is very great. Underground depth at a depth of 100 feet or more would be more practicle.

I have been advised that the property is owned by Knox and young Gibson of Ajo, and that in the past Gibson has been found to be rather difficult and unreasonable to deal with. When the A. S. & R. had an option on the property and started to drill it, they were just in the midst of their drilling when their option expired and Gibson refused to give them an extension. They therefore pulled up and quit. It might be well to bear in mind in making any deal or agreement, that it will probably be difficult to get any extension of time.

Yours Very Respectfully,

ARTHUR R. STILL
MINING GEOLOGIST

TELEPHONE: 658
P. O. BOX 1512

ROOM 24, UNION BLOCK
PRESCOTT, ARIZONA

June 6, 1955

Mr. H. F. Mills, General Manager
Iron King Branch--Shattuck Denn Mining Corp.
Prescott, Arizona

Re: Knox-Arizona "Copper Mountain" Prospect, Pima County, Ariz.

Dear Mr. Mills:

Due to a number of rather unusual circumstances involved in this property, I thought it wise to write the following explanatory letter.

The reports of Charles Dunning and P.H. Lund, that predate those of Jack A. James and Edw. L. Clark, are strictly promotional. Following the Lund reports, Wm. A. Knox, Jr. formed a corporation and in order to expedite the sale of stock in Missouri he gave (gratis) blocks of stock to the governor, lieutenant-governor, attorney general and other officials of that state.

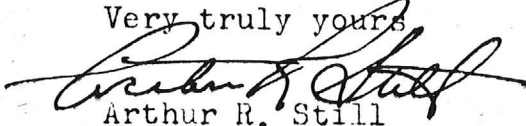
Under political pressure from the governors office, E. L. Clark sent Jack A. James, Asst. State Geologist, out to look over the property. James was not versed in either metallic ore deposits or in western geology and he apparently took the Dunning and Lund reports "hook line and sinker". At a more recent date, Clark himself was sent out by the governor's office and he too, being unqualified to judge on copper deposits of this type, took the bait.

All of the above is based upon the story as I worked it out of Edward L. Clark.

The unfortunate part of the whole story is that young Knox, based upon opinions rendered by Dunning and Lund, has sold, and spent the funds derived from, over 100,000 shares of stock at \$1.00 per share on a proposition that was, at least in my opinion, hopeless from the very beginning. The younger Knox is, from what I can learn, a commercial artist with no knowledge of mining and he has probably acted in relatively good faith in all that has transpired.

With the sincere hope that this will tend to clarify a rather involved situation, I am

Very truly yours


Arthur R. Still

ARS/

ARTHUR R. STILL
MINING GEOLOGIST

TELEPHONE: 658
P. O. BOX 1512

ROOM 24, UNION BLOCK
PRESCOTT, ARIZONA

June 6, 1955

Mr. H. F. Mills, General Manager
Iron King Branch-Shattuck Denn Mining Corp.
Prescott, Arizona

Re: Knox-Arizona Copper Mining Corporation's
Copper Mountain Prospect, Pima County, Ariz.

Dear Mr. Mills:

The following brief letter report summarizes my opinions and conclusions regarding the above named property which was visited for your firm on June 4th of this year. I was accompanied on the examination by Edward L. Clark, state geologist for the State of Missouri, who represented the property owners.

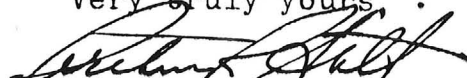
In brief, I am in strong disagreement with all previous investigators whose reports were made available to me by Dr. Clark. Whereas Charles Dunning, P.H. Lund, Jack A. James and Dr. Clark himself all express their convictions that the property holds potential as a possible porphyry copper I saw nothing whatever on the grounds to indicate such a possibility.

The numerous surface cuts and a single long tunnel completely through the main hill on the property reveal nothing more than a little weak and low grade copper mineralization within a major shear zone that separates pre-Cambrian (?) andesites on the east and a probable quartz-diorite on the west. The wall rocks, of both types, are absolutely unmineralized and essentially unaltered.

Since the known mineralization is in stringers which are too small to make for an economic operation, even on a small scale, and since I cannot see any possibilities whatever to expect an increase in either size or grade with depth I have no alternative but to recommend that your firm abandon its interest in the property without incurring any additional expense in either its further examination or exploration.

I thank you for this opportunity to be of service to your firm.

Very truly yours,


Arthur R. Still

ARS/

REPORT ON COPPER MOUNTAIN

The copper mountain group of mines are situated, 70 miles South of Gila Bend Arizona, and about ~~25~~ miles South of Ajo in Pima County Ariz.

The group contains 18 full claims; 4 of which cover a small Mount- about $\frac{3}{4}$ mile long, by $\frac{1}{2}$ mile in width, with a height of 150 feet above the valley, the remaining 14 claims adjoin, and surround this Mt.

This Mountain is apparently a mass of Monzonite Porphyry traversed by a large quartz Porphyry, Iron dyke heavily impregnated with Hematite iron containing copper in its various forms, this dyke is over 500 feet in width and shows copper throughout its length and breadth. Copper ore ranging $\frac{1}{2}$ to 30 % in the out crop and developed by various cuts and shafts at various widely separated points shows the values to be general: This dyke is paralleled by numerous smaller quartz Porphyry veins and stringers of iron well mineralized, this formation extends into the valley on each side and is of much greater extent than the area covered by the present locations.

Development will no doubt prove this property to be of great value. The present development as shown by plat accompanying this report has demonstrated fully that a depth of 150 to 250 feet will show this entire area underlaid with a massive body of iron copper sulphide ore. In addition to the copper, there is sufficient Gold and Silver to about pay the mining and hauling.

Judging from the length and breadth of ore, and the fact of this great eruptive dyke traversing through the center of this area shows that the ore will go into great depths and permanency: That the tonnage will run in to the millions of tons and of a grade considerably higher than the average grade of large bodies of this character there is no doubt, water can be developed near the mines sufficient to handle the property.

The Railroad now being built from Gila Bend to Ajo copper mines will be completed during the month of January 1916, this will bring this prop-

erty within 20 miles of the railroad, and a road can be extended to this property at a low cost as the entire distance is over a very flat level plain, This property cannot be recommended to highly, as further development will prove.

Respectively submitted.

John De Ellis
for J. D. Ellis
1880

John De Ellis
1880

1880

erty within 30 miles of the railroad, and a road can be extended to this level fall very a level is over a very flat level plain, this property cannot be recommended to highly as further develop- ment will prove.

Respectively submitted

John D. Ellis
P.O. Box 496 - El Paso

Price 125000

Phone 2323

633. 187. 83. 004/244