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07/13/98

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES FILE DATA

PRIMARY NAME: BUCKEYE COPPER MINE

ALTERNATE NAMES:

MARICOPA COUNTY MILS NUMBER: 429B

LOCATION: TOWNSHIP 2 S RANGE 6 W SECTION 28 QUARTER NE
LATITUDE: N 33DEG 13MIN 36SEC LONGITUDE: W 112DEG 52MIN 20SEC
TOPO MAP NAME: WOOLSEY PEAK - 15 MIN

CURRENT STATUS: DEVEL DEPOSIT

COMMODITY:

COPPER OXIDE
GOLD LODE
SILVER

BIBLIOGRAPHY:

ADMMR BUCKEYE COPPER FILE
McDONNELL JR, JOHN R., 1986, MIN INV OF WOOLSEY
PEAK WSA. USBM MLA 46-86.

Date Printed: 08/11/98

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES

INFORMATION SUMMARY

Information from: **Angela @ West Valley View Newspaper**

Company: West Valley View

Address:

City, State ZIP: Litchfield Park, Arizona 85340

Phone:

MINE: Buckeye Copper Mine

ADMMR Mine File: Buckeye Copper Co.

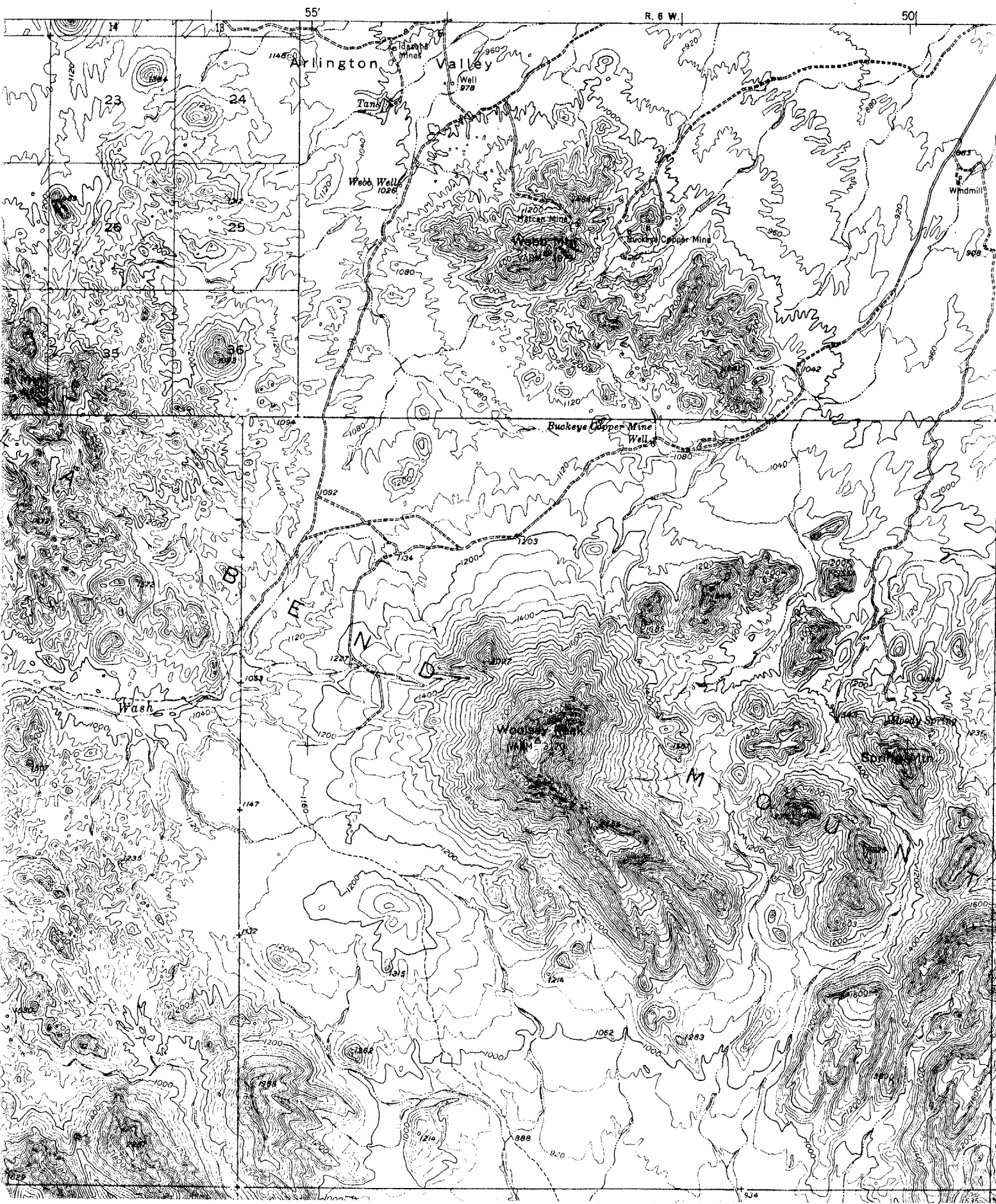
County: Maricopa

AzMILS Number: 429B

SUMMARY

Angela of the West Valley View newspaper is writing a story about the Buckeye Copper Mine file [Maricopa AZMILS 429B]. She has visited the location with an old-timer who lived and worked at the mine. He remembered three old houses and a shop at the property and a crew working at the mine. Her story is supposed to come out in the next month. The last time I assisted her was summer 1997 on an article about the salt mine near Luke Air Force Base.

Ken A. Phillips, Chief Engineer Date: August 5, 1998



BUCKEYE COPPER MINE

MARICOPA COUNTY

Reference: (See Lemons Claims file)

MILS Sheet sequence number 0040130199

John Lemons, of Phoenix, brought in some very good looking sericite schist from his copper property, the Buckeye Copper, southwest of Buckeye about 25 miles. He will send some samples to the Arizona Bureau of Mines. GW WR 1-22-71

Mr. Lemons, owner of the old Buckeye Copper mine, brought in some chunks of oxide copper ore in quartz (3 ft. vein) in which there were some scattered crystals of a uranium mineral (autunite?). He was advised to send some of the rock to ABM for more positive identification. GW WR 2-12-71

We then went to his (Mr. Lemons) Cu-Au prospect nine miles southwest of Arlington where a seven foot shaft reveals a three-foot quartz vein in schist. The quartz is reported to contain 2-3% Cu and in places has visible Au. Here again the work hasn't been sufficiently extensive to indicate the continuity of the mineralization. It was too late in the day to examine Mr. Lemons large Cu deposit on the north side of the ridge. GW WR 11/23/71

Work continues sporadically at the Buckeye copper property. GW QR 9/71

Went on to the Buckeye Copper mine with John Lemons. Here two inclined shafts have been sunk; one must be several hundred feet deep, the other is 50-60 feet. At neither of them was there any copper mineralization noted, however, on a dump from a cross cut below the shallow shaft there were a scattering of 2" thick pieces of quartz with oxide copper minerals in them. About a $\frac{1}{4}$ mile west of the cross cut some rather more recent prospecting has been done on a very narrow, lenticular streak of copper-quartz mineralization. All of these occurrences are in a rather thinly fissile schist. About 200 yards west of the cross cut portal there is an outcrop of sericitic schist about 30 feet wide extending several hundred feet which may be of commercial value, however, no exploration has been done on it. GW WR 1/18/73

LEMONS CLAIMS

MARICOPA COUNTY

Interview with John Lemons - one of the owners

Mr. Lemons stated that the claims were recently leased to Apache Stone Supply Co., 2631 East Indian School Road, Phoenix, Arizona. Harry Mick and Arthur Rohrbaugh are the principals. Several varieties of stone are being mined. He also stated that the ornamental stone in the new shopping center on Bethany Road came from their property. Multi-Onyx and Stone Co., 224 N. 44th St., Phoenix, are also using some of it.
Memo 8-24-61

Active Feb. 1962 - 3 men working

Active Oct. 1962 - 3 men working

Apr
1971

- - - (

96.4'

94.6

94.4'

JOHN LEMONS

1916 S. ~~26th~~ St

tel 252-8534 (49-77)

Buckeye St

copper claim

has brother

by name, Clyde

address - not sure

3434 N. 48th Ave

AP 8-7476

EMERALD POWER INDUSTRIES, INC.

THEATRE AND MOTEL BUILDING, 1000 N. GAVIN AVENUE, PHOENIX, ARIZONA 85001

August 19, 1971

File

Mr. John S. Lemons
1416 South 20th Street
Phoenix, Arizona 85000

Dear Mr. Lemons:

It has come to our attention that you have a group of copper claims known as the Buckeye under control.

We are actively seeking new ore deposits for possible production, especially in Arizona, and are curious if you would like to submit your claims and any information concerning them to us.

We will look forward to hearing from you.

Sincerely yours,

B. R. Dingess

B. R. Dingess
Senior Chief Geologist

PRD:bc

100-1-10-10

7167
DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Lemons Claims

Date January 16, 1961

District Webb District, Maricopa County

Engineer Lewis A. Smith

Subject: Interview with John Lemons 1916 S 20th St., Phoenix.

Location: S 33-34, T 2 S, R 7 W (7 miles west of the sub-power station SW of Buckeye).

Minerals: Copper and slate.

Owners: John & Clyde Lemons (John is the agent). 3434 N. 48th Ave.

Work: Two pits and several location cuts.

Claims: 12 unpatented.

Geology: The oxidized copper minerals (chrysocolla, malachite and cuprite) lie in thin bands on the schist laminae. Certain schist layers are converted to slate, while others appeared (specimens) to have been serpentized to some extent. Epidote and chlorite were present along with the copper minerals. The schist is very thin bedded. Thus far, sporadic copper mineralization has been found in lenticular areas in a larger area which is 1/2 mile wide and 2 miles long. No systematic prospecting has been done to date. The schist contains diorite and rhyolite minor intrusives. The schist belt is bordered to the northwest and southeast by granite.

The Lemons plan to lease the slate to a couple of men who plan to mine for building purposes. He has mined some pockets of cutting chrysocolla so far, and also has a few tons of selected copper ore in a stockpile.

BRIEF REPORT

On the Property of

BUCKEYE COPPER COMPANY

Maricopa County, Arizona.

LOCATION.

The property of the Buckeye Copper Company consists of 62 unpatented mining claims, and is located about 25 miles north of Gila Bend, Arizona, and about 60 miles west of Phoenix, Arizona. The main westerly highway from Phoenix to Gillespie Dam, Gila Bend and Yuma passes within six miles of the property, and from this road two private roads have been built, one to the north end and one to the south end of the group. The nearest railroad point is at Hassayampa, the end of the Arizona Eastern road, fifteen miles east of the group. The Southern Pacific can be reached at Gila Bend. A railroad could be constructed very easily to either of these points, and when the railroad is built from Ajo to the Gulf of California, as planned, the property would have a very short connection to tide water.

The group of 62 claims lie in one body and completely cover an area of intense mineralization in schist. All desirable ground is included in the group and yet all the claims are mineralized, none of them being superfluous. The claims have been accurately surveyed and mapped and permanent points established for future reference.

GEOLOGY.

The geology of the group has been worked out in detail by Mr. John Carter Anderson, E. M., and only a summary of the geological conditions will be given in this report.

schisted The mineralized area consists of a series of ~~mineralized~~ rocks which have been formed by a series of intrusions, probably from a common magma, each intrusion altering and schisting the previous intrusions as well as the pre-existing sedimentary or igneous rocks.

The order in which this series was formed was approximately as follows, in brief. A mass of granodiorite ~~and possibly some sedimentary~~ was schisted by intrusions of quartz porphyry. ~~Both these formations were in turn schisted by large intrusions of diorite~~ forming a granodiorite schist. Both these formations were in turn schisted by large intrusions of diorite, forming granodiorite schist and quartz porphyry schist. Subsequent intrusions of granite porphyry and quartz monzonite porphyry schisted the previous diorite intrusions. These later intrusions brought mineralizing solutions which ~~deposited~~ attacked and deposited in the previous schists, especially the diorite, forming large bodies of sulphide minerals. Lenses of quartz showing copper are found in a number of places and always associated with one of these later dikes.

all of the action took place within days of each other which accounts for the fact that the most intensely mineralized formation is a
The most intensely mineralized formation is a great dike of schisted diorite, extending the entire length of the property and averaging over 600 feet in width with a greatest width of about 1200 feet. This formation has evidences of extremely heavy mineralization following its intrusion by a series of quartz monzonite porphyry dikes, and appears to be the most favorable ore formation on the property.

This mineralization not only covers an area of very large size but also was exceedingly intense. The present outcrop is ~~fairly~~ honeycombed with the voids of leached pyrites, and is spoken of by prospectors in the district as having been "worm eaten". Many wide bands in this formation must have contained at least 30% of ~~pyrite~~ sulphide minerals. The formation has that deep but varied coloration that so often marks the outcrop of the big copper mines of the southwest.

DEVELOPMENT.

The property is virgin ground and there is no development other than prospect shafts and cuts. All quartz blossoms throughout the property contain copper, but these are expected to be only of a temporary nature. Several of the prospect shafts, however, have encountered copper directly impregnating the schist and it is evident that the immense sulphide mineralization was partly copper.

The most feasible scheme for exploring the property is by diamond drill holes, and several locations for holes have been well selected by Mr. Anderson. Diamond drill holes from these locations will cut the ore formations at favorable angles and depths, and a small amount of work at these location will go a long way toward toward determining the general character of the ore at depth.

CONCLUSION.

The entire preparation is ideal for a large and fairly rich copper mine. There is a very large area of highly altered and heavily mineralized schist where the structural and intrusive conditions are ideal for ore deposition. The leached and honeycombed outcrop shows that immense bodies of sulphide ore have existed and do now exist at a lower level, and the widespread evidense of copper shows that this sulphide is partly copper. Just what grade of copper may be expected or at just what depth the copper will be encountered, only development can tell. And diamond drilling is the cheapest quickest and most feasible method of preliminary development.

PHELPS DODGE CORPORATION

NEW CORNELIA BRANCH

AJO, ARIZONA

September 24, 1964

Mr. John Lemon
1916 S. 26th St.
Phoenix, Arizona

Dear Mr. Lemon:

Enclosed is an assay certificate with results from the samples you left. The silica assay is high enough that this could be satisfactory smelter flux for us. However, at the present time we are adequately supplied and are not in the market for silica.

If we lose a supplier in the near future we will contact you concerning your ore.

Very truly yours,


Chief Engineer

REW:lch

Virgil Denning,

P.O. Box 12000

Ajo, Ariz

W O S Thompson

418

AJO, ARIZONA, Sept. 22, 1964, 19

[illegible]

A Z A DEPARTMENT OF MINES & GEOLOGICAL SOURCES
Mineral Building, Fairgrounds
Phoenix, Arizona

1. Information from: Mrs. Ralph Rice
Address: 1200 N. 1st St. Phoenix, Ariz.
2. Mine: _____ 3. No. of Claims - Patented _____
Unpatented 12
4. Location: _____
5. Sec. _____ Tp. _____ Range _____ 6. Mining District Wool
7. Owner: AMM
8. Address: _____
9. Operating Co.: None
10. Address: _____
11. President: _____ 12. Gen. Mgr.: _____
13. Principal Metals: Ag, Cu 14. No. Employed: _____
15. Mill, Type & Capacity: _____
16. Present Operations: (a) Down ☐ (b) Assessment work ☐ (c) Exploration ☐
(d) Production ☐ (e) Rate _____ tpd.
17. New Work Planned: Drilling work
18. Misc. Notes: 2000-2001 work on 1200 N. 1st St.

Date: 11/1/01

(Signature)

(Field Engineer)

U.S. NATIONAL DEPARTMENT OF MINERAL RESOURCES
Mineral Building, Fairgrounds
Phoenix, Arizona

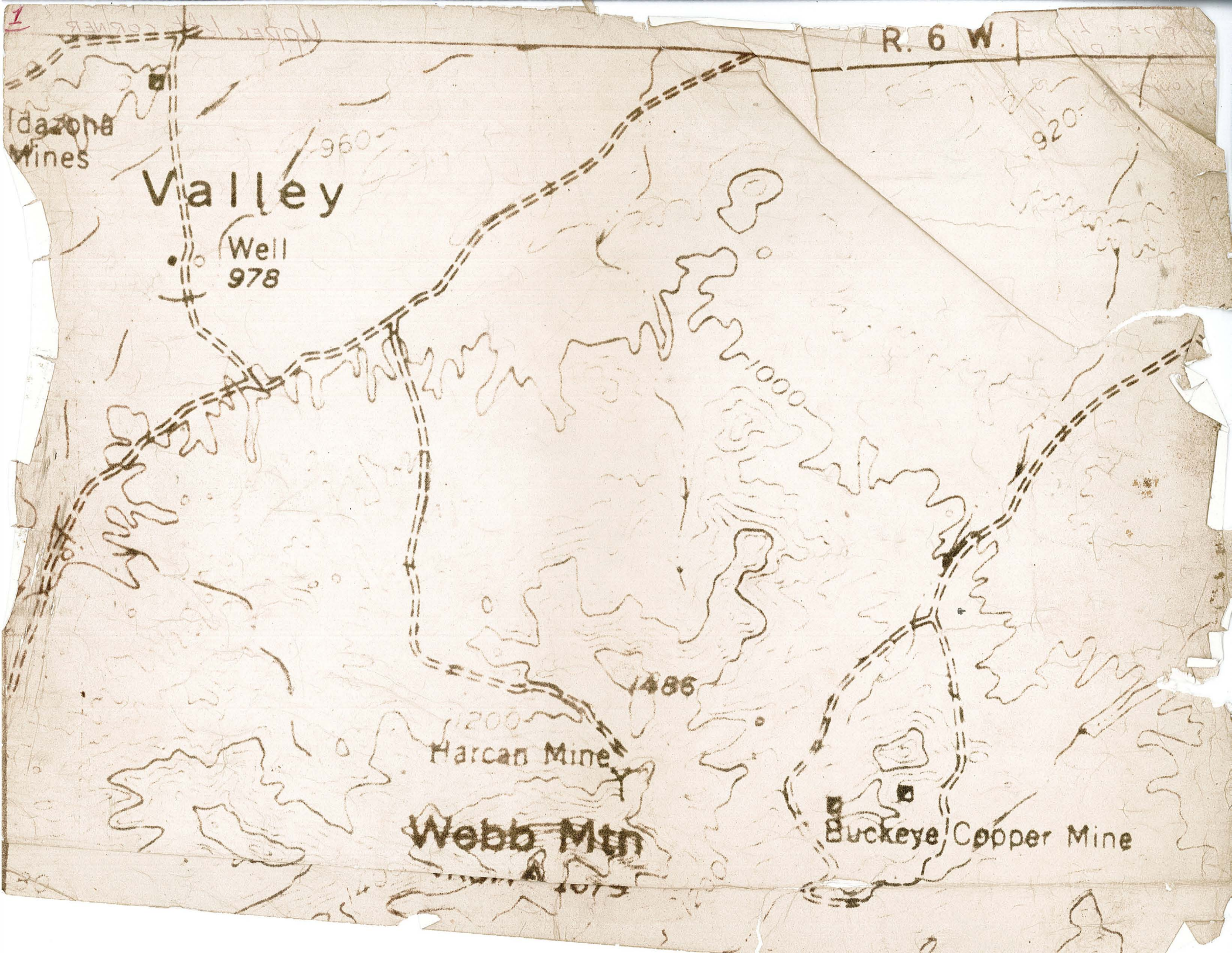
1. Information from: John Lemons
Address: Phoenix
2. Mine: _____ 3. No. of Claims - Patented 1
Unpatented 0
4. Location: West side of south end of Sierra Estrella - 3 miles airline SSW of Gillespie Dam.
5. Sec. 9 Tp. 35 Range 5N 6. Mining District _____
7. Owner: Lemons Brothers
8. Address: _____
9. Operating Co.: _____
10. Address: _____
11. President: _____ 12. Gen. Mgr.: _____
13. Principal Metals: Copper 14. No. Employed: _____
15. Mill, Type & Capacity: _____
16. Present Operations: (a) Down ☐ (b) Assessment work ☐ (c) Exploration ☒
(d) Production ☐ (e) Rate _____ tpd.
17. New Work Planned: _____
18. Misc. Notes: Mr. Lemons brought some pieces of granite and granite gneiss (?) to the office. Two larger pieces were said by him to run about 2 1/2 % copper with gold and silver values. Chrysocolla sparingly present and cuprite and chalcocite very possibly present & account for the grade. - chalcocite much less than cuprite. Considerable limonite. He said there was a large area over which, similar material extended on the north side of the prominent hill in the section. A good case of dimensions but believe he said the showings covered some 600 x 300 feet with a prominent, probably gneiss, ridge. An epidote dike cuts off one end - not mineralized on the other side.

Date: 12/28/67

(Signature)

F. P. Kneight

(Field Engineer)



R. 6 W.

920

960

Valley

Well
978

1000

486

1200

Harcan Mine

Webb Mtn

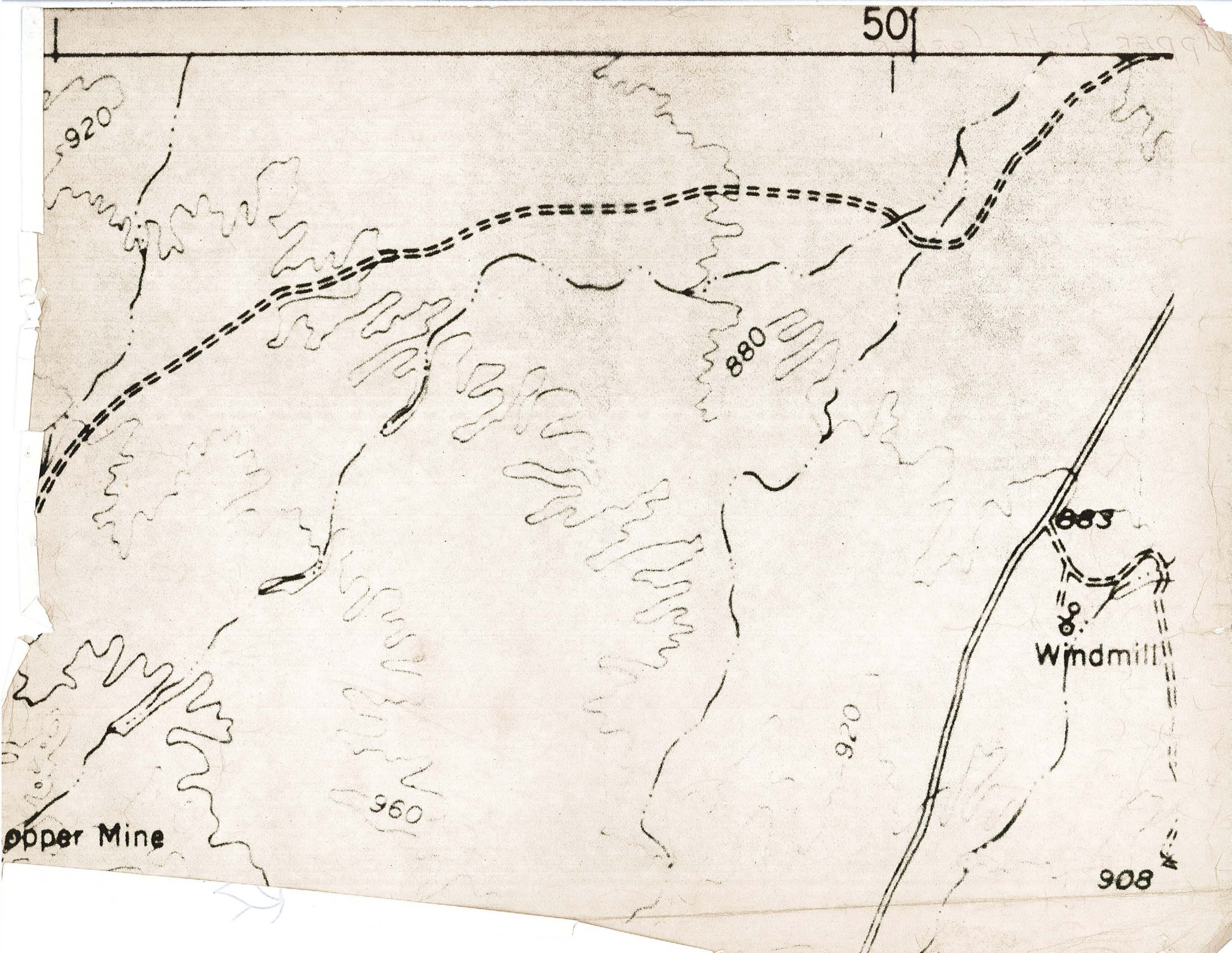
Buckeye Copper Mine

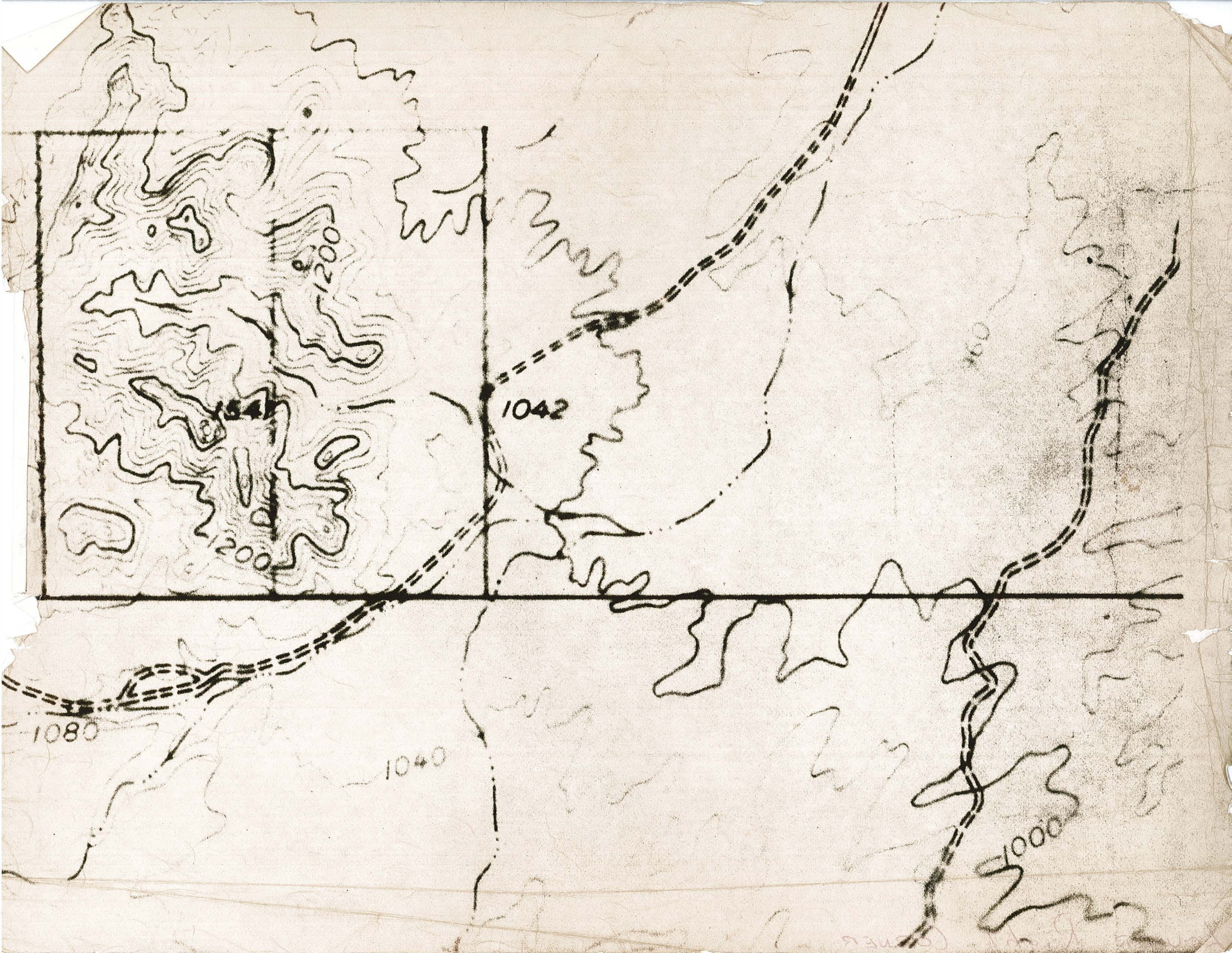
VADM 1879

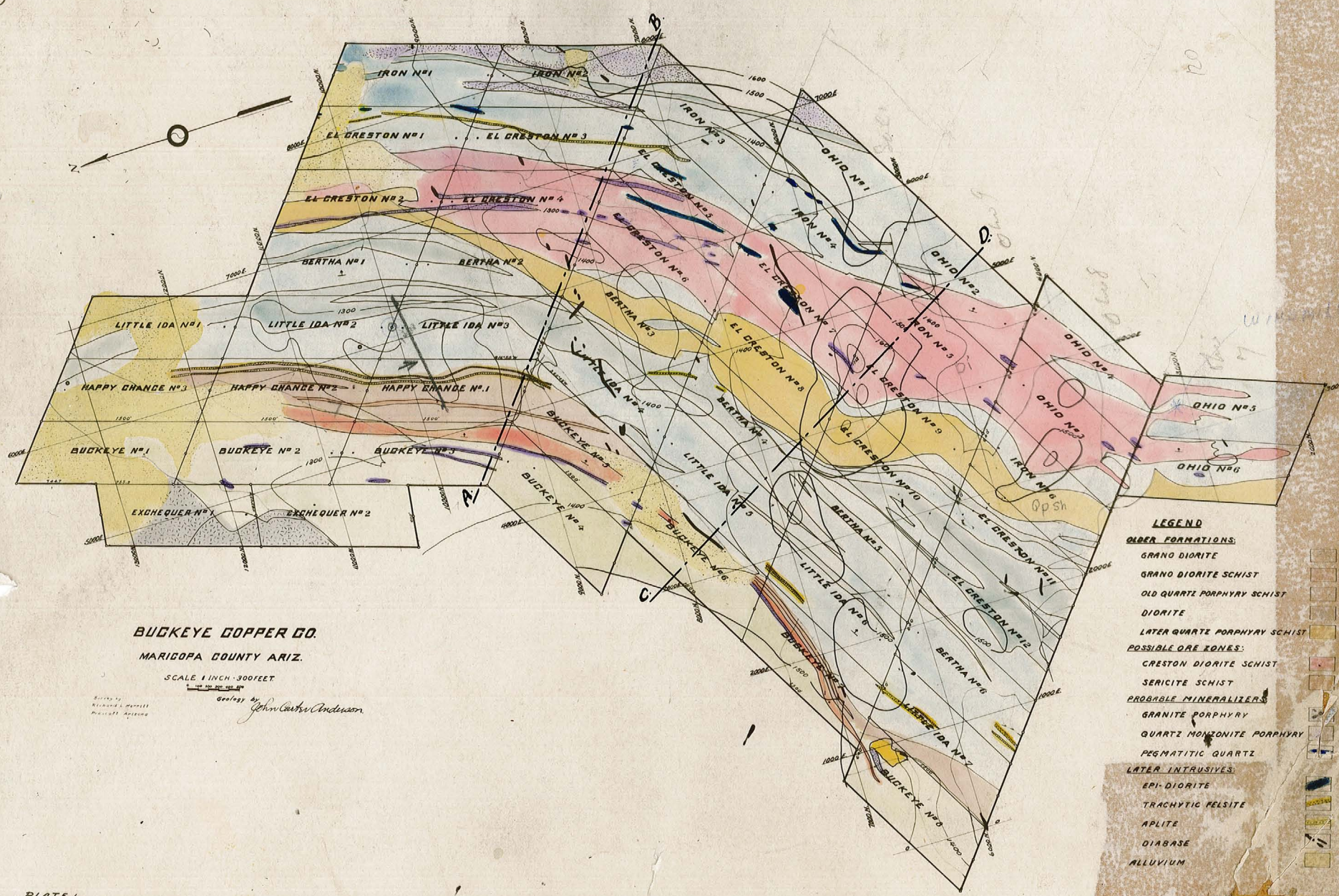
Buckeye Copper Mine
Well

Lower left corner









BUCKEYE COPPER CO.
MARICOPA COUNTY ARIZ.

SCALE 1 INCH = 300 FEET

Surveyed by
Richard L. Hays
March 1911 Arizona

Geology by
John Carter Anderson

LEGEND

OLDER FORMATIONS:

- GRANODIORITE
- GRANODIORITE SCHIST
- OLD QUARTZ PORPHYRY SCHIST
- DIORITE
- LATER QUARTZ PORPHYRY SCHIST

POSSIBLE ORE ZONES:

- CRESTON DIORITE SCHIST
- SERICITE SCHIST
- PROBABLE MINERALIZATION
- GRANITE PORPHYRY
- QUARTZ MONZONITE PORPHYRY
- PEGMATITIC QUARTZ

LATER INTRUSIVES:

- EPIDIORITE
- TRACHYTIC FELSITE
- APLITE
- DIABASE
- ALLUVIUM