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12/28/88

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES FILE DATA

PRIMARY NAME: IRON CAP PROPERTY

ALTERNATE NAMES:

PINAL COUNTY MILS NUMBER: 71A

LOCATION: TOWNSHIP 1 S RANGE 12 E SECTION 21 QUARTER N2
LATITUDE: N 33DEG 20MIN 00SEC LONGITUDE: W 111DEG 08MIN 05SEC
TOPO MAP NAME: PICKETPOST MTN - 7.5 MIN

CURRENT STATUS: EXP PROSPECT

COMMODITY:

COPPER
GOLD LODE
SILVER

BIBLIOGRAPHY:

ADMMR IRON CAP PROPERTY FILE
PROPERTY MAY OVERLAP PRUDENTIAL GROUP CLAIMS

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES

VERBAL INFORMATION SUMMARY

1. Information from: Ken Phillips

Company:

Address:

2. Phone:

3. Mine:

4. ADMMR Mine File: IRON CAP PROPERTY

5. County: Pinal, MILS #71A

6. Summary of information received, comments, etc.:

This property is not the same Iron Cap as mentioned on page 160 of *Mineralogy of Arizona* by Anthony, Williams and Bideaux under pyrite.

It would appear from the property description in the 1917 engineers report that a visit to the property is justified to investigate the occurrence further and/or to determine if any work has been done on the property since the report was written.

The location of this property was changed from township 11 east to 12 east and the longitude changed to correspond to correct an error.

Date: December 28, 1988

Ken A. Phillips, Chief Engineer

REPORT ON THE LITTLE JIM AND
MINNESOTA PROPERTIES OF THE
ARIZONA SUPERIOR COPPER COMPANY

LOCATION: The Little Jim and Minnesota Claims of the Arizona Superior Company form a group of very promising copper claims lying directly to the Northwest of the Iron Cap Group. There are 21 claims in all, consisting of approximately 420 acres.

These claims are in the Magma Superior District, Pinal County, Arizona. This district includes the Magma, and Silver King mines as its most famous mines and there are a number of very promising new mines, which are now just beginning to get under way and may also develop into great mines. The town of Superior is about 3 miles from the Little Jim and Minnesota properties.

ACCESSIBILITY: A road could be built to the property from the Magma Superior Railroad. This road would not be more than 2 ½ miles long if built up the valley just North of the one, in which the road to Superior Queen property lies.

GEOLOGY: The country rock consists of quartz and schist. The quartz and schists show much copper on the surface, the schists especially containing many veins of copper. The main ledge, which shows on the adjoining property, continues on through the Little Jim and Minnesota Claims and on the surface shows an even greater width. The width and length of this ledge as disclosed by prospecting on the surface indicates a body of rich copper ore. This ore probably lies at no great depth and should be easily reached if proper equipment were at hand. There are numerous copper outcroppings on practically every claim of the group.

ORE VALUES: The best ore shown in the prospect holes that have already been dug is on Little Jim Claim. This is on the ledge and shows good ore right from the surface. The oxides appear strongly right from (the surface) appears (*sic.*). With greater depth the sulphides should become better in quality and quantity. On other claims of the group, samples and assays were taken, the results from which are shown in the following table. These samples are good average samples of ore that has already been uncovered. No attempt was made to pick out the best pieces.

CLAIM	ASSAY
Little Jim	6.1% Copper
Little Jim # 8	17.5% Copper
Little Jim # 7	3.9 % Copper
Minnesota # 11	14.3 % Copper

TOPOGRAPHY: The topography of the Little Jim and Minnesota Claims is typical of the Superior District. The claims are cut by hills and gulches, but none of the hills are excessively high or steep.

There appears to be a good steady water supply at two springs on the property.

CONCLUSIONS: An examination of the properties show string surface indications of large bodies of copper ore at depth. Good ore can probably be taken out a few feet from the surface and the amount and value of the ore should increase at greater depth.

The development work should be confined largely to that well under way at Little Jim Claim. If the present direction of the crosscut is continued it should show whether or not the string surface showing at this point indicates ore beneath. The trenches and cuts that have already been started on other claims should be continued to determine the extent of the mineralized area on the claims.

These claims where the schists show most prominently are the ones that appear to be the most mineralized. All of the claims of this group in the schist zone should be thoroughly prospected.

June 1st, 1917

Respectfully submitted,

Signed W.W. SIMON E. M.
Magma Mine, Superior Arizona

(retyped from carbon copy
by t.m. dec. 2001

Preliminary Report
on the

I R O N C A P P R O P E R T Y .

Pioneer Mining District,
Pinal County, Arizona.

7 Mi W of Superior
sec 21, 1S, 12E (RE-KAP)

THE PROPERTY.

The property consists of fifteen full sized unpatented, contiguous mining claims with an approximate area of 300 acres. The relative locations of the claims is shown in the attached sketch map.

LOCATION.

The claims are located in the Pioneer Mining District, Pinal County, Arizona. They are between three and four miles distant from the Magma Copper Co's. property in a north westerly direction.

ACCESSIBILITY.

A good automobile road leads from the town of Superior to the property a distance of seven miles. The nearest point on the Magma-Arizona Railroad is three miles distant.

TOPOGRAPHY.

The topography of the area of the claims may be described as sub-mountainous. The gulches are steep and rough, the hillsides stand at angles of from 25 to 30 degrees from the horizontal, but the general contours of the elevations are rounded and show the effect of long continued erosive action.

GEOLOGY.

The time available for the examination was insufficient for a detailed study of the geology, therefore it will be considered only in a general way.

The country rock is schist the foliations of which have, in general, an east and west strike and a dip between vertical and 75 degrees to the south. The schist is cut by N. E. and S.W. faults and by intrusive dykes of dolerite. Some of the schist shows intercallated bands of marble. In some parts the schist is highly epidotized showing the effect of heated alkaline subterranean waters.

The presence of the faults and the fine grained intrusives

are favorable to copper deposition.

ORE OCCURRENCES.

The development work consists of cuts of depths sufficient only to meet the requirements of the law for title work. Malachite and bournite appeared in all of the cut examined. The gold and silver values in the three samples taken are negligible but for samples taken from such shallow depths the copper contents are surprisingly high.

	Copper.	Gold.	Silver.
No.1.	0.9%	\$0.16	Trace.
No.2.	6.06%	0.24	\$0.10
No.3.	1.20%	Trace.	Trace.

Sample No.1. was cut across the face of the title cut on Claim No.1. The width sampled was 4 ft. Ore taken from this cut showed evidence of the replacement of the schist by bournite; a favorable indication.

Sample No.2. was taken from the dump of the title cut on Claim No.8.

Sample No.3. was taken from the face of the cut on No. 5 Claim across a width of 58 inches.

All of the ore taken from the cut showed evidence of the replacement of the schist by bournite and chalcopryrite. The development so far accomplished is entirely insufficient to give an idea as to the amount and extent of the ore that may be present. The out-croppings are generally covered with drift from the hill sides.

RECOMMENDATIONS.

Where ore has been discovered the ground should be trenched on each side of the discovery. The trenches should be deep enough to cut into the rock in place and should be run at right angles to the strike of the foliations of the schist. The trenches should not be placed further apart than 50 ft. and should be from 50 to 75 ft. in length. The information yielded by these trenches will serve to direct the future development of the ground intelligently.

I regard the property as promising and well worthy of

The Iron Cap Property.

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development and exploration. It is probable that the property may be most thoroughly tested by drilling. The ore occurrences so far visible are sufficient, in my opinion, to make it advisable to provide a fund of from \$40,000 to \$50,000 for exploration by this method.

Respectfully submitted,


Mining Engineer.

Phoenix, Arizona,

Feb. 2nd. 1917.

SKETCH MAP
of the
IRON CAP PROPERTY.

R. D. O. JOHNSON, E. M.

