



## **CONTACT INFORMATION**

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02/12/93

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES FILE DATA

PRIMARY NAME: EIGHTY-FIVE GROUP

ALTERNATE NAMES:

ALLEY CLAIMS

PIMA COUNTY MILS NUMBER: 535

LOCATION: TOWNSHIP 12 S RANGE 6 W SECTION 29 QUARTER N2  
LATITUDE: N 32DEG 21MIN 11SEC LONGITUDE: W 112DEG 54MIN 46SEC  
TOPO MAP NAME: AJO - 15 MIN

CURRENT STATUS: UNKNOWN

COMMODITY:

COPPER OXIDE

BIBLIOGRAPHY:

USBM FILE 463.2/14099  
ADMMR EIGHTY-FIVE MINE FILE  
ADDITIONAL HOLDING SEC. 30  
ADMMR "U" FILE CU 45

85 MINE

Cu

Plan

10-3

T. 12 S. R. 6 W.

R. H. Hodge

HODGE, R. H.  
*Rowood* Ajo, Arizona

4-26-43

See 85 MINE - Re Field Engineer's Report

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

FIELD ENGINEERS REPORT

85 mine  
Mine Alley Claims

Date May 3, 1962

District Ajo District, Pima County

Engineer Lewis A. Smith

Subject: Conference with Tom Alley, Box 155, Ajo, Arizona

Property: 32 Unpatented claims

Location: S21-22 T12S R6W (West of Phelps Dodge Pit.)

Reports: Charles Mitke reported on the property some years ago. He reported favorably, according to Alley.

Geology: The mineralization is in the Cornelia Monzonite and according to Alley is pretty well disseminated over the claims except for a few rich high grade streaks. The principal minerals include, malachite, chrysocolla, cuprite and some chalcocite and bornite. Several "sheet" faults have been opened by cuts and shallow workings. The rock alteration, according to Phelps Dodge engineers, is not dissimilar to that over parts of the Pit Area.

DEPARTMENT OF MINERAL RESOURCES  
STATE OF ARIZONA  
FIELD ENGINEERS REPORT

DEPT. MINERAL RESOURCES  
RECEIVED  
PHOENIX APR 27 1943  
ARIZONA

Mine 85 mine  
District Ajo  
Subject: Copper production survey/

Date April 26, 1943  
Engineer George A. Ballam

This group of 18 claims comprises 12 claims of the 85 proper and 6 of the Copper Rose, held by location by G. T. Alley and R. H. Hodge of Ajo. They extend due westward from the Baker group adjoining the New Cornelia pit on the west. The Baker group is optioned to Alley and Hodge. The properties extend through the Little Ajo Mts. to a point about 4 miles from the pit, the western boundary of Range 6 W where the U.S. Gunnery range begins. Unimproved desert roads over rolling to rough terrain give rather difficult access from Rowood and Ajo.

The claims lie in quartz monzonite and porphyritic quartz diorite areas lying to the west of the Phelps Dodge properties and described by Jas. Gilluly (U. S. Geol. Sur. Ariz. Bur. Mines Bull. 141.) The upper tier of claims, comprising 3, 4, and 5 of the 85 group and Copper Rose No. 2, lying in what is locally known as Cornelia monzonite, are traversed by a rather persistent east west vein which has been explored on claims 3 and 5, and to lesser extent on the Copper Rose. On No. 3 it has a width of 21 feet, dipping about 75° S. It has been opened by a cut of 4 feet on the hanging wall to a depth of 12 feet. A 42-inch channel cut at a depth of about 8 feet made in March 1943 yielded assays of 2.85% and 3.3% Cu, while a similar sample by Nebeker in Nov. 1941 showed 4.75 Cu. Gold values ran from 0.01 to 0.08 ozs. in this sampling.

On the ridge immediately above <sup>part of</sup> this cut which is in the wall of the wash, there is an old 300-foot churn drill hole reported to have shown copper throughout its depth with values as high as 16% in a zone of secondary enrichment below water level, here about 60 feet. This hole appears to be open. There are no further workings of consequence on No. 3. None of these workings were mentioned by Gilluly or in fact, there was no mention of any workings in the area west of the pit.

Farther east, on claim 5, there is a 52-foot shaft which, at the bottom showed 4.25% Cu on recent sampling. This is on higher ground and the water level is below 60 feet, only traces of sulfides being encountered. Sampling of a shallow shaft still farther east on the Copper Rose adjoining the Baker claims, showed 4.9 Cu.

The southern tiers of claims are in what is known locally as Cardigan gneiss in which porphyritic diorite and schists appear to predominate. There is strong mineralization over a width of 300 feet in places. Values are low, averaging below 1% except in spots, where, associated with specularite, there have been samples from 4.75% to 11.2% over workable areas. The values are in various forms of chrysocolla, with considerable pitch showing. There is also some oxide in the outcroppings. Little development has been done and there is no record of drilling despite widespread surface showings of ore of mill-grade.

For developing claim No. 3, which appears to offer some quick action, some diamond drilling should be done before sinking the 300-foot shaft contemplated by the owners. The formation is reliably reported to be a westward extension of the same ore body found in the Phelps Dodge pit where these hot-spots were likewise encountered. Gilluly did not recommend exploration in this direction, but apparently there was no information on the old drilling in the area.

George A. Ballam

DEPARTMENT OF MINERAL RESOURCES  
STATE OF ARIZONA  
FIELD ENGINEERS REPORT

Mine 85 Mine

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April 26, 1943

MEMORANDUM

' 85 mine  
(Ajo Dist.)

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

Alley wired me Friday asking me to come over and help him with his application for \$30,000 development loan on this property. He wants to sink a 300-foot shaft somewhere along the northerly ore-body. I spent Sunday on the property, returning Sunday night.

Apparently the company has discouraged any work to the west of the pit on these properties, all controlled by Alley. He charges that in the preparation of the 1937 report by Gilluly, this policy was very apparent. Gilluly claimed that there was no chance of finding any ore deposits in that direction on account of absence of cupolas in the monzonite roof there. There may not be another 'pit' but there is a lot of ore showing. Lord only knows how it got there under the circumstances, but I know how it can be got out, and possibly some more with the guidance of some moderate drilling. I hope the RFC will give it a tumble before they get hold of the 1937 report.

Alley, who is the new county supervisor, proposes to have the county put in a road, if, as and when a loan is approved. Of course, this must still be classed as a prospect, but it has the earmarks of one that can be put in quick production. A.S.&R found the samples satisfactory in  $\text{SiO}_2$  and asked Alley to ship.

*Geo A Ballam*

C O N F I D E N T I A L  
\* \* \* \* \*

AMERICAN SMELTING AND REFINING COMPANY

SOUTHWESTERN ORE PURCHASING DEPARTMENT

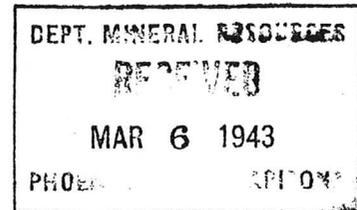
810 VALLEY BANK BUILDING

P. O. BOX 2229

TUCSON, ARIZONA

March 4, 1943

BRENT N. RICKARD  
MANAGER



Mr. Tom Alley  
Toms Grocery  
Ajo, Arizona

EIGHTY-FIVE MINE, NEAR AJO, ARIZONA

Dear Sir:

Mr. George Ballum, of the Department of Mineral Resources, was in my office the other day telling me about your copper prospect near Ajo. In looking through my files I find that in May 1941 the late Mr. Miles Carpenter brought in a sample from the Eighty-five Mine, advised that the property consisted of seven unpatented claims a few miles southwest of Ajo, and was owned jointly by you and Mr. R.H. Hodge. The sample was taken from the 50-foot shaft and from open cut 70 feet from the shaft. I sent the sample to our Hayden Plant for assays, which I reported in letter of May 23, 1941, to Mr. Hodge, as follows:

<u>Oz./ton</u>		<u>Per cent</u>				
<u>Gold</u>	<u>Silver</u>	<u>Copper</u>	<u>Insol.</u>	<u>Silica</u>	<u>Iron</u>	<u>Alumina</u>
0.24	0.24	2.75	72.5	58.5	7.2	13.1

At that time the net return f.o.b. Ajo figured \$4.53 per ton after deducting freight and smelting charges, on our usual open schedule with \$3.50 base charge and alumina penalty amounting to \$1.81 per ton. At the present time we could probably handle a small tonnage of this ore on a base charge of \$2.50 per ton and allowing 10% alumina free, which on assay quoted above would make a penalty of 78¢ per ton, or total treatment charge \$3.28 per ton. On this basis, under present metal prices and assuming zero quota for copper, the outcome would be about as follows:

Gold	pay per ton	\$	7.76
Copper			<u>4.04</u>
			\$11.80
Base charge	\$2.50		
Alumina penalty	<u>.78</u>		<u>3.28</u>
F.o.b. Hayden		\$	8.52
Freight + trans. tax			<u>2.07</u>
Net at Ajo on Smelter Set.		\$	6.45
Premium on 43.65% Cu @.05			<u>2.18</u>
Total per ton		\$	8.63

Mr. Tom Alley

-2-

March 4, 1943

I understand that in certain instances, in order to stimulate the production of copper-bearing siliceous ore, Metals Reserve Company has allowed additional premium of 5¢ per pound eligible copper, upon proper application and presentation of facts. Request for such additional premium should be made to  
Executive Secretary, Quota Committee  
Premium Price Plan, War Production Board  
Temporary "R" Bldg., Room 2047  
Washington, D.C.

If you have done any further development at this property since the time Mr. Carpenter talked with me in May 1941 I should be glad to have you drop me a line, particularly if you contemplate starting operation. The next time I am in Ajo I will call on you and should like to see the mine.

Yours very truly,

BRENT N. RICKARD

cc: Mr. Geo. A. Ballum  
P.O. Box 495, Tucson

P.S. If you contemplate making shipments from this property, you should establish zero quota for copper by making application to the Quota Committee at the address shown above, as explained in the enclosed outline of instructions.

B.N.R.

The sample Mr. Carpenter brought to the office in May 1941 looked like lime shale with green copper stain, mostly chrysocolla with some copper oxide and carbonate.

B.N.R.

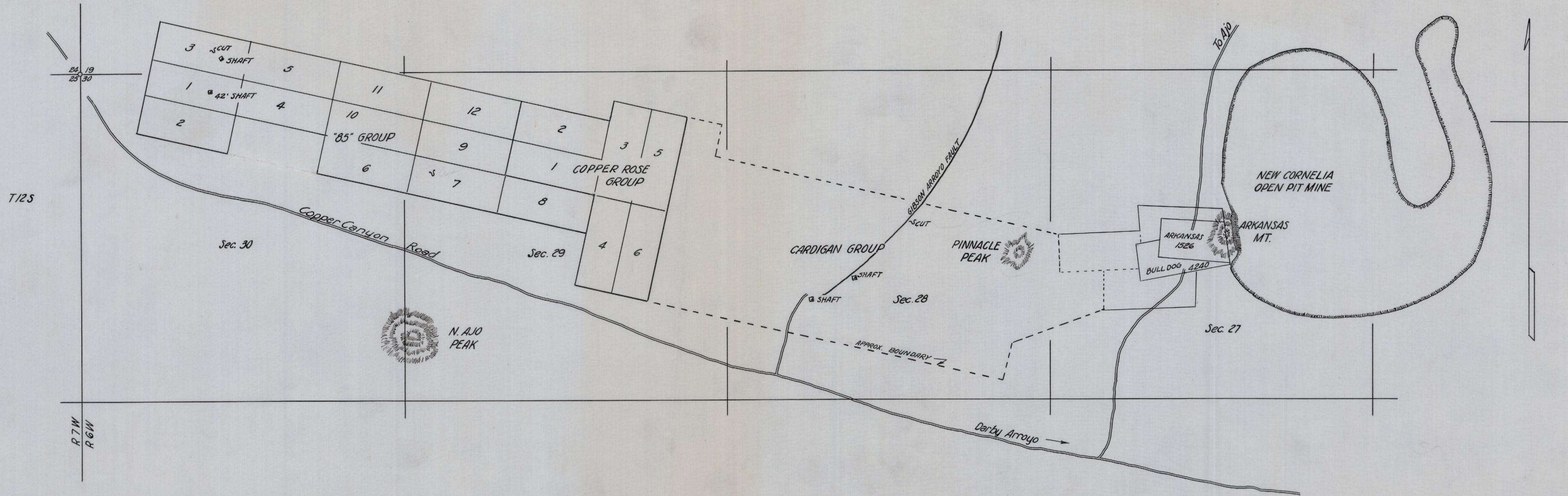


FIG. 1 - CLAIM MAP OF CARDIGAN, COPPER ROSE & "85" GROUPS OF LODE CLAIMS

