

MINERAL SURVEY No. 4177

ARIZONA *Land District*

FIELD NOTES

OF THE SURVEY OF THE MINING CLAIM OF

The Arizona Copper Company, a corporation

KNOWN AS THE

ARROWHEAD

Greenlee Gold Mountain *Mining District,*

Greenlee *County,* Arizona.

Section 15, Township 4 S, Range 29 E,
G & S R B & M

Surveyed under instructions dated Sept. 17, *19* 34

By Ralph L. Motz
U. S. Mineral Surveyor.

Claim located January 1, *19* 03

Survey commenced October 14 *19* 34

Survey completed October 15, *19* 34

Address of claimant's Attorneys, John H. Page & Co.,
Phoenix, Arizona.

DATES OF AMENDED LOCATIONS

August 11, 1934.

SURVEY NO. 4177 - Arizona

Feet

Mineral Survey No. 4177 was made with a Gurley & Sons Precise Transit, Light Mountain Model, with horizontal limb 6.25 inches in diameter, having two double opposite verniers, and full vertical circle 5 inches in diameter, having one double vernier; the verniers read to one minute of arc; the eye piece is equipped with a prismatic eye piece with colored glass slide for making direct observations upon the sun. The instrument was in good condition at the time of survey and all adjustments were in good order. An a.m. altitude observation of the sun for time and azimuth, and at noon on the meridian for latitude, were made at Cor. No. 3 of the Arrowhead lode, the details of which observations are shown in the calculation sheets herewith submitted for examination.

All azimuths in this record are referred to the true meridian thus determined, by the course of deflection angles and calculated courses.

The lines were measured with a Lufkin steel tape; 150 feet in length, graduated to feet, tenths and hundredths for entire length; a Kueffel & Esser steel tape, 300 feet in length, graduated to feet, tenths and hundredths for entire length; and a Lufkin steel tape, 25 feet in length, graduated to feet, tenths inches and fractions of inches for entire length. All tapes were compared with a Lufkin standard at the time of the beginning of survey, and found correct.

All lines and connections of this survey were run by direct methods.

The magnetic variation observed at each corner of the survey gave a uniform value of 13° 50' E.

ARROWHEAD

Beginning at Cor, No. 1 of the Arrowhead lode, where I

Set a quartzite rock, 24x9x6 ins., 14 inches in the ground to bed rock, for Cor, No. 1, marked A-1-4177 from which

A quartzite ledge, 32x45 ins., 12 inches above the ground, bears S. 25° 25' E. 45.6 ft. dist., marked BR x A-1-4177

A quartzite ledge, 22x34 ins., 18 inches above the ground, bears N. 30° 04' W. 34.7 ft. dist., marked BR x A-1-4177

The East 1/4 Cor. of Sec. 15, T. 4 S., R. 29 E., G. & S. R. B. & M; an iron post, 1 in. diameter, 12 inches above ground, firmly set, with brass cap properly marked bears S. 71° 54' E. 1533.0 ft. dist.

Thence S. 30° 04' W.

275.27 Original location for the east end center, being a mound of rocks 3 feet high with 3 feet base.

550.27 Cor. No. 2

Situated on line 2+3 of Survey No. 4168 Detroit No. 1 lode at N 25° 00' W 346.94 ft. from Cor. No. 2 thereof; also situated on the north line of Lot 4, Sec. 15, T. 4 S., R. 29 E., G. & S. R. B. & M. at West 1733.07 ft. from the East 1/4 Cor. thereof.

Feet

Set a quartzite rock, 26x10x7 ins., 15 inches in the ground for Cor. No. 2, marked A-2-4177; from which

A monument of rocks, 3 feet high with 3 feet base, bears westerly 4 feet.

A quartzite ledge, 30x75 inches, 18 inches above the ground, bears N.79° 46' E. 45.7 ft. dist., marked BR x A-2-4177

A quartzite ledge, 29x56 inches, 8 inches above the ground, bears N.15° 57' W. 28.9 ft. dist., marked BR x A-2-4177

Thence WEST

217.0 Center of Coronado Trail, road 18 feet wide, bears northwesterly and southeasterly.

414.0 North edge of Chase Creek, course easterly.

690.0 South edge of Chase Creek.

747.0 Center of narrow guage railroad, bears N.74° W. and S.74° E.

765.8 Cor. No. 3

Set a quartzite rock, 26x9x6 inches, 16 inches in the ground for Cor. No. 3, marked A-3-4177, from which

A monument of rocks, 3 feet high with 3 feet base, bears southwesterly 3 feet.

A granite ledge, 86x125 inches, 57 inches above the ground, bears S.51° 18' W. 19.5 ft. dist., marked BR x A-3-4177.

A granite ledge, 30x105 inches, 31 inches above the ground, bears S.59° 50' E. 48.9 ft. dist., marked BR x A-3-4177.

A Situated on line 1-2 of Survey No. 2887 Ajax lode.

Thence N.30° 04' E.

4.6 Center of narrow guage railroad, bears N.74° W. and S.74° E.

13.5 South edge of Chase Creek, course easterly.

64.0 North edge of Chase Creek.

138.0 Center of Coronado Trail, road 18 feet wide, bears northwesterly and southeasterly.

275.0 Original location for the west end center, being a mound of rocks 3 feet high with 3 feet base.

330.51 To Cor. No. 1 of Survey No. 2887 Ajax lode and Cor. No. 3 of Survey No. 4168 Novo No. 14 lode.

550.27 Cor. No. 4

Set a porphyry rock, 26x12x8 inches, 16 inches in the ground, for Cor. No. 4, marked A-4-4177; from which

A monument of rocks, 3 feet high with 3 feet base, bears southeasterly 4 feet.

A porphyry ledge, 31x76 inches, 37 inches above the ground, bears N.78° 08' W. 12.5 ft., dist., marked

Feet

BR x A-4-4177.

A porphyry ledge, 48x75 inches, 20 inches above the ground, bears N. 60° 47' E. 14.7 ft. dist., marked BR x A-4-4177.

Thence EAST

268.04 Intersect line 2-3 of Survey No. 4168 Novo No. 14 lode at N. 63° 18' E. 423.28 ft. from Cor. No. 3 thereof; also intersect line 2-3 of Survey No. 4168 Detroit No. 1 lode at N. 25° 00' W. 872.4 ft. from Cor. No. 2 thereof; Cor. No. 2 of this survey bears S. 25° 00' E. 525.46 ft. from this point.

765.80 Cor. No. 1 and place of beginning.

LODE LINE.

The presumed course of the vein on this survey, counted from the point of discovery is:
West 160 feet and East 605.8 ft.

Areas.

	acres
Total area arrowhead lode - - - - -	8.372
Area in conflict with	
Survey No. 4168 Novo No. 14 lode - - - - -	0.585
Survey No. 4168 Detroit No. 1 lode - - - - -	2.721
	<u>3.306</u>
	5.062

LOCATION.

This survey is located in the N E. 1/4 of Sec. 15, T. 4 S., R. 29 E., G. & S. R. B. & M.

The survey of this lode location is identical with the amended location as marked on the ground.

EXPENDITURE OF \$500.

I certify that the value of the labor and improvements made upon this lode location by the claimant or its grantors is not less than \$500, and that said improvement consists of:-

No. 1 The discovery tunnel, a point in which is the discovery point, said point being on the lode line 160.0 ft. from the west end center. From the discovery point, tunnel 5 x 7 feet in size runs N. 12° E. 10.0 ft. to point X. From point X tunnel 5 x 6 ft. in size runs N. 12° E. 18.0 ft. to breast. From point X drift 4 x 6 ft. in size runs N. 72° E. 18.0 ft. to breast. From discovery point tunnel 5 x 7 ft. in size runs S. 12° W. 71.0 ft. to point Y. From point Y drift 4 x 7 ft. in size runs N. 72° E. 37.0 ft. to point Z. From point Z drift 4 x 7 ft. in size runs N. 12° E. 42.0 ft. to breast. From point Z drift 4 x 7 ft. in size runs N. 72° E. 40.0 ft. to breast. From point Y tunnel 5 x 7 ft. in size runs S. 12° W. 44.0 ft. to portal. At portal of tunnel is an open cut, 8 ft. wide, 10 ft. face running S. 12° W. 10 ft. to mouth.
Value of tunnel, drifts and open cut-\$2714.00

FINAL OATHS FOR SURVEYS

LIST OF NAMES

A list of the names of the individuals employed by Ralph L. Motz

United States Mineral Surveyor, to assist in running, measuring, and marking the lines, corners, and boundaries described in the foregoing field notes of the survey of the mining claim of _____

the Arizona Copper Company

known as the Arrowhead

and showing the respective capacities in which they acted.

Charles N. Stevens, Chainman.

_____, Chainman.

_____, Axman.

_____, Flagman.

FINAL OATHS OF ASSISTANTS

~~we~~, I, Charles N. Stevens

and _____, do solemnly swear that we assisted _____

Ralph L. Motz, United States Mineral Surveyor, in marking the corners and surveying

the boundaries of the mining claim of the Arizona Copper Co.

known as the Arrowhead

represented in the foregoing field notes as having been surveyed by said mineral surveyor and under his

direction; and that said survey has been in all respects, to the best of our knowledge and belief, faithfully

and correctly executed, and the corner and boundary monuments established according to law and the instruc-

tions furnished by the Office Cadastral Engineer, at Phoenix, Arizona.

Charles E. Stevens, Chainman.

_____, Chainman.

_____, Axman.

_____, Flagman.

Subscribed and sworn to by the above-named persons before me this 15th

day of October, 1934

M. Danielson

Notary Public, in and for the County of Greenlee, State of Arizona.

GOVERNMENT PRINTING OFFICE

6-1048

My commission expires Sept 2nd 1935



FINAL OATH OF U. S. MINERAL SURVEYOR

I, Ralph L. Motz, U. S. Mineral Surveyor,
do solemnly swear that, in pursuance of instructions received from the Office Cadastral
Engineer, at Phoenix, Arizona, dated September 17, 1934,
I have, in strict conformity to the laws of the United States, the official regulations
and instructions thereunder, and the instructions of said Office Cadastral Engineer,
faithfully and correctly executed the survey of the mining claim of
the Arizona Copper Company, a corporation, known as the
Arrowhead,
situate in Greenlee Gold Mountain Mining District,
Greenlee County, Arizona, in Section
15, Township No. 4 S., Range No. 29 E, G & S R B & M
and designated as Survey No. 4177, as represented
in the foregoing field notes, which accurately show the boundaries of said mining claim
as distinctly marked by monuments on the ground, and described in the attached copy of
the location certificate, which was received by me from the Office Cadastral Engineer
with said instructions, and that all corners of said survey have been established and
perpetuated in strict accordance with the law, official regulations and instructions
thereunder; and I do further solemnly swear that the foregoing are the true and original
field notes of said survey and my report therein, and that the labor expended and im-
provements made upon said mining claim by claimant or its
grantors are as therein fully stated, and that the character, extent, location, and
itemized value thereof are specified therein with particularity and full detail, and
that no portion of said labor or improvements so credited to this claim has been in-
cluded in the estimate of expenditures upon any other claim.

Ralph L. Motz
(U. S. Mineral Surveyor)

Subscribed and sworn to by the said Ralph L. Motz

U. S. Mineral Surveyor, before me D. M. Simpson, Notary Public

this 16th

day of October, 1934

D. M. Simpson
Notary Public, in and for the
County of Cochise, State of Arizona.
My commission expires August 9th 1937

OFFICE CADASTRAL ENGINEER'S FINAL CERTIFICATE ON FIELD NOTES

Department of the Interior

PUBLIC SURVEY OFFICE

Phoenix, Arizona

November 5, 1934

I, Office Cadastral Engineer Phoenix, Arizona

do hereby certify that the foregoing transcript of the Field Notes, return and approval of the survey of the mining claim of The Arizona Copper Company, a corporation

known as the ARROWHEAD

situate in Greenlee Gold Mountain

Mining District Greenlee County Arizona

in Section 15, Township No. 4 South, Range No. 29 East, and

designated as Survey No. 4177, has been correctly copied from the originals on file in this office; that said Field Notes 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, or for the benefit of, each location embraced in said mining claim by claimant The Arizona Copper Company, or its grantors, a corporation and that said improvements consist of 1 tunnel, 4 drifts and 1 open cut Value \$2,714.00.

and that no portion of said labor or improvements has been included in the estimate of expenditures upon any other claim.

I further certify that the plat thereof, filed in the U. S. Land Office at Phoenix, Arizona is correct and in conformity with the foregoing Field Notes.

SHERMAN C. FISKE

Acting Office Cadastral Engineer.

CERTIFICATE OF APPROVAL OF FIELD NOTES AND SURVEY OF
MINING CLAIM

UNITED STATES
DEPARTMENT OF THE INTERIOR
GENERAL LAND OFFICE
PUBLIC SURVEY OFFICE

At Phoenix, Arizona

November 5, 1934

I, Office Cadastral Engineer at Phoenix, Arizona

do hereby certify that the foregoing and hereto attached Field Notes and Return of the Survey of the
Mining Claim of The Arizona Copper Company, a corporation

....., known as the

ARROWHEAD

situate in Greenlee Gold Mountain mining district,

in Section 15, Township No. 4 South, Range No. 29 East
G. & S. R. B. & M.

....., designated as Survey No. 4177

executed by Ralph L. Motz, U. S. Mineral

Surveyor, October 14th and 15th, 1934, under my instructions dated

September 17th, 1934, have been critically examined and the necessary

corrections and explanations made, and the said Field Notes and Return, and the Survey they describe,

are hereby approved. The certified copy of the location certificate filed by the applicant for survey is

on file in this office and a true copy of said certified copy of said location certificate is included and

made a part of the transcript of the field notes.

Sherman C. Fiske
Acting Office Cadastral Engineer.