

MINERAL SURVEY No. 4150

ARIZONA

Land District

FIELD NOTES

OF THE SURVEY OF THE MINING CLAIM OF

Magma Copper Company

KNOWN AS THE

Spring Lode

Pioneer

Mining District,

Pinal

County, Arizona

Sections 25 and 36, Township 1 S., Range 12 E., G. & S. R. M., in the Crook National Forest Surveyed under instructions dated September 10 19 31

By Edwin T. Stewart

U. S. Mineral Surveyor.

Claim located February 4, 19 14.

Survey commenced September 17, 19 31.

Survey completed September 21, 19 31.

Address of claimant's Attorneys Rice & Mathews, Globe, Arizona.

DATES OF AMENDED LOCATIONS

This survey was made with a C. L. Berger & Sons engineers transit, No. 6217, with horizontal limb 6.25 ins. diameter, having two double opposite verniers and full vertical circle 5 ins. diameter, having one double vernier; the verniers read to one minute of arc; the eye piece of the telescope is equipped with a colored glass set in the dust shutter for making direct observations on the sun. An auxiliary telescope that may be used on top or at the side of the main telescope of the instrument is equipment for observations when the sun is too high for direct observations. The instrument was in good condition at the time of the survey, and all adjustments were checked and found in good order. Observations of the Sun for azimuth were made at the north end center and at the southeast corner of the Spring lode, one of these observations being reduced for time. The latitude was obtained from the township plat of T. 1 S., R. 12 E., and verified by an observation made at the time of executing the survey. The details of the observations are shown on the calculation sheets submitted herewith for examination. All azimuths in these notes are referred to the true meridian thus determined by the method of turned angles and calculated courses.

The lines were measured with a 650 ft. and a 50 ft. steel tapes made by the Lufkin Rule Company. The 650 ft. tape is graduated every foot, with an extra ft. before the zero mark graduated to tenths and hundredths of a ft. The 50 ft. tape is graduated to feet, tenths and hundredths. Both of these tapes have recently been compared with a tape of known length and found correct.

All the lines of the survey were run by direct methods except those that were traversed and calculated, and for which I submit calculation sheets herewith.

The magnetic variation observed at each corner of the survey is 14°-00' E.

Feet

SPRING LODGE.

Beginning at Cor. No. 1 of the Spring lode, which agrees with N. E. Cor. of the location.

Set a standard 2 in. iron pipe, 3 ft. long, with brass cap mkd. 1-S-4150, 14 ins. below the surface, over a steel bar 5/8ths in. in diameter driven in a crack in the dacite bed rock, and surrounded it with a monument of stone for Cor. No. 1, from which

The corner of sections 25 and 36 on the east boundary of T. 1 S., R. 12 E., G. & S. R. M., bears S. 20°-59'-40" E. 688.59 ft. dist.; an iron post with brass cap, and mound of stone alongside; properly set and mkd.

A point on dacite out crop bears N. 25°-27' W. 18.26 ft. dist.; mkd. X B.R.-1-4150.

Thence S. 09°-40'-30" W.

1032.50 Center of Miami-Superior Highway, bears N. 51° E. and S. 51° W.

1335.00 Right bank of Queen Creek, course S. 73° W.

1387.00 Left bank of Queen Creek.

1399.80 Cor. No. 2, which agrees with S. E. Cor. of the location.

Set a standard 2 in. iron pipe, 3 ft. long, with brass cap mkd. 2-S.-4150, on the dacite bed rock, over a 5/8ths in. steel bar grouted in drill hole with sulphur, and surrounded it with a monument of stone for Cor. No. 2, from which

A point on top of dacite boulder, 8 x 16 x 16 ft. out of the ground, bears N. 27°-46' W. 8.88 ft. dist.; mkd. X B.R.-2-S-4150.

Thence S. 65°-10' W.

215.00 Left bank of Queen Creek, course S. 20° W.

300.10 S. E. C. monument of the location; a monument of stone 4 ft. base, 3 ft. high.

372.00 Right bank of Queen Creek.

596.20 Witness Cor. No. 3.

A 4 x 4 pine post, 4.7 ft. long, with copper plate mkd. Wit. Cor.-3-S-4150 nailed on top, and bolted to the northeast face of concrete retaining wall.

600.20 Cor. No. 3, which agrees with S. W. Cor. of the location.

This corner falls in the east side of the Miami-Superior Highway where a monument above the surface would interfere with traffic, so I--

Set a standard 2 in. iron pipe, 18 ins. long, with brass cap mkd. 3-S-4150, 5 ins. below the surface of the ground for Cor. No. 3, from which

A point on the east face of dacite bluff bears S. 65°-10' W. 29.37 ft. dist.; mkd. X B.R.-3-S-4150.





# FINAL OATHS FOR SURVEYS

## LIST OF NAMES

A list of the names of the individuals employed by Edwin T. Stewart

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

Magma Copper Company

known as the Spring lode

and showing the respective capacities in which they acted.

C.A. Pennington, Chainman.

....., Chainman.

....., Axman.

....., Flagman.

## FINAL OATHS OF ASSISTANTS

We, .....

and I, C.A. Pennington, do solemnly swear that <sup>I</sup>we assisted

Edwin T. Stewart, United States Mineral Surveyor, in marking the corners and surveying

the boundaries of the mining claim of Magma Copper Company

known as the Spring lode

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.

C.A. Pennington, Chainman.

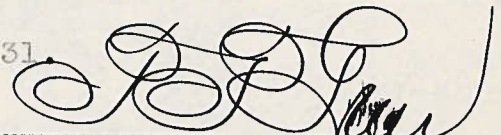
....., Chainman.

....., Axman.

....., Flagman.

Subscribed and sworn to by the above-named persons before me this 9th

day of November, 19 31.



My commission expires  
December 3, 1932.

Notary Public, Gila  
County, Arizona.

FINAL OATH OF U. S. MINERAL SURVEYOR.

I, Edwin T. Stewart, U. S. Mineral Surveyor, do solemnly swear that, in pursuance of instructions received from the Office Cadastral Engineer, at Phoenix, Arizona, dated September 10, 1931, 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 Magma Copper Company, known as the Spring lode, situate in Pioneer Mining District, Pinal County, Arizona, in Section 25 and 36, Township No. 1 S., Range No. 12 E., G. & S. R. M., in the Crook National Forest, and designated as Survey No. 4150, 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 improvements 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 included in the estimate of expenditures upon any other claim.

Edwin T. Stewart
U. S. Mineral Surveyor.

Subscribed and sworn to by the said Edwin T. Stewart
U. S. Mineral Surveyor, before me P. P. Greer a notary public,
this 9th
day of November, 1931

My commission expires
December 3, 1932.

[Handwritten signature of P. P. Greer]

Notary Public, Gila
County, Arizona.

OFFICE CADASTRAL ENGINEER'S FINAL CERTIFICATE ON FIELD NOTES

Department of the Interior

PUBLIC SURVEY OFFICE

Phoenix, Arizona,

December 17, 1931

I, Office Cadastral Engineer At Phoenix, Arizona,

do hereby certify that the foregoing transcript of the Field Notes, return and approval of the survey of the mining claim of

Magma Copper Company

known as the SPRING lode

situate in Pioneer

Mining District Pinal County Arizona

in Section 25 & 36 Township No. 1 S., Range No. 12 E., and

designated as Survey No. 4150, 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 or its grantors,

and that said improvements consist of 2 shafts, 1 cut, 1 station, and 2 tunnels, value \$167,580, also a 1-145th interest, value \$2908.28 in a main working shaft on the Silver Tip lode, Sur. No. 2144.

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.

John D. Adams

Office Cadastral Engineer.



4-687

CERTIFICATE OF APPROVAL OF FIELD NOTES AND SURVEY OF  
MINING CLAIM

DEPARTMENT OF THE INTERIOR  
PUBLIC SURVEY OFFICE

At Phoenix, Arizona,

December 17, 1931

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 \_\_\_\_\_

Magma Copper Company

\_\_\_\_\_, known as the

SPRING lode

situate in \_\_\_\_\_ Pioneer \_\_\_\_\_ mining district,

Pinal County, Arizona,

in Sections 25 & 36, Township No. \_\_\_\_\_ 1 S., Range No. 12 E.,

\_\_\_\_\_, designated as Survey No. \_\_\_\_\_ 4150

executed by \_\_\_\_\_ Edwin T. Stewart \_\_\_\_\_, U. S. Mineral

Surveyor, \_\_\_\_\_ September 17 - 21 \_\_\_\_\_, 1931, under my instructions dated

\_\_\_\_\_ September 10 \_\_\_\_\_, 1931, 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.

  
Office Cadastral Engineer.