

Nov. 4, 1944  
June 11, 1943

4-683

MINERAL SURVEY No. 4235

Arizona Land District

### FIELD NOTES

OF THE SURVEY OF THE MINING CLAIM OF

Magma Copper Company

KNOWN AS THE

LAKE ERIE NO. 3, and LAKE ERIE NO. 4 lodes

Pioneer Mining District,

Pinal County, Arizona

Section 36, Township 1 S., Range 12 E., G.&S.R.M.

Surveyed under instructions dated February 3, 19 40

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

Claim located October 24, 1910, 19

Survey commenced October 28, 19 42

Survey completed October 30,, 19 42

Address of claimant 's attorney, Edward W. Rice, Box 893,  
Globe, Arizona.

#### DATES OF AMENDED LOCATIONS

January 10, 1940.

## Mineral Survey No. 4235 - Arizona.

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## Feet

Mineral Survey No. 4235 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. All azimuths in this record are referred to the true meridian as determined in Mineral Survey No. 4231, which said survey is about 400 feet easterly of Cor. No. 1 of the Lake Erie No. 4 lode of this survey, by the method of deflection angles and calculated courses.

The lines were measured with a Keuffel & Esser steel tape, 100 feet in length, graduated to feet, tenths and hundredths of feet for the entire length; a Keuffel & Esser steel tape, 300 feet in length, graduated to feet, tenths and hundredths of feet for the entire length; a Lufkin steel tape, 25 feet in length, graduated to feet, inches and fractions of inches for the entire length. All tapes were compared with a Lufkin standard steel tape at the time of beginning the 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 14° 15' E.

## LAKE ERIE NO. 3 lode.

Beginning at Cor. No. 1 of the Lake Erie No. 3 lode

Identical with Cor. No. 4 of the Lake Erie No. 4 lode of this survey, and situated on line 5-1 Survey No. 2995 Horse Shoe lode

Set an iron post, 2 inches in diameter, 3 feet long, 18 inches in the ground, with a brass cap, mkd. LE3-1-LE4-4-4235; from which

A dacite rock in place, 48x54 ins., 28 ins. above ground; bears S. 35° 16' E., 22.0 ft., mkd. BR X LE3-1-4235

A dacite rock in place, 37x49 ins., 31 ins. above ground, bears N. 74° 19' W., 8.1 ft., mkd. BR X LE3-1-4235

The  $\frac{1}{4}$  Sec. Cor. between Secs. 25 and 36, T. 1 S., R. 12 E., G. & S. R. M., bears N. 59° 55' E., 1109.8 ft., being an iron post with brass cap, properly set and marked as described in the official record.

Thence S. 5° 29' E.,

360.0 Cross power line, course westerly

939.0 Cross highway, Globe to Superior, 30 feet wide, course northwesterly

1492.0 Cor. No. 2

Identical with Cor. No. 3 of the Lake Erie No. 4 lode of this survey, and situated on line 3-4 of Sur. No. 2996 Aldridge lode, being

An iron pin, 1/2 inch in diameter set at exact point,

Feet	
	on the edge of a vertical cliff, limestone, 15 feet high, 20 feet long, parallel with highway, cliff adjacent to iron pin is mkd. LE3-2-LE4-3-4235; from which
	A limestone ledge, 25x38 ins., 24 ins. above ground bears S. 88° 24' W., 17.8 ft., mkd. BR X LE3-2-4235
	Thence S. 88° 24' W.,
115.0	Cross highway, Globe to Superior, 30 feet wide, course southeasterly.
169.3	Cor. No. 4 Survey No. 2996 Aldridge lode, also intersect line 3-4 Survey No. 2994 Reddy Pay lode at a point from which Cor. No. 3 bears N. 17° 23' W., 414.6 ft.
300.0	Intersect the south end of the lode line at the original location for the south end center, being a monument of rocks, 3 ft. high, 3 ft. base
492.4	Cor. No. 3
	Set an iron pipe, 2 inches in diameter, 3 ft. long, 18 ins. in the ground, in a mound of rocks, with brass cap mkd. LE3-3-4235; from which
	The original location for the southwest corner bears S. 88° 24' W., 107.6 ft., being a pine post, 4 ins. sq., 4 ft. long, set 18 ins. in the ground in a mound of rocks.
	A dacite rock in place, 66x103 ins., 64 ins. above ground, bears S. 89° 09' W., 18.4 ft., mkd. BR X LE3-3-4235
	Cor. No. 2 Survey No. 2144 Silver <sup>and</sup> Copper Pocket lode and Cor. No. 3 Survey No. 2994 Reddy Pay lode, bears N. 26° 12' E., 451.0 ft., being a dacite rock, 6x14 ins., 16 ins. above ground, properly marked.
	Thence N. 9° 30' W.,
336.5	Intersect lines 1-2 Survey No. 2144 Silver <sup>and</sup> Copper Pocket lode and 2-3 Survey No. 2994 Reddy Pay lode at a point from which Cor. No. 2 of the Silver <sup>and</sup> Copper Pocket lode and Cor. No. 3 of the Reddy Pay lode bears N. 74° 03' E., 264.85 ft.
610.0	Cross highway, Globe to Superior, 30 ft. wide, course easterly
730.0	Witness corner for Cor. No. 4, which I mark also as a witness corner for Cor. No. 2 Survey No. 2144 Queen No. 2 lode
	Set an iron pipe, 2 ins. diameter, 3 ft. long, 18 ins. in the ground, with brass cap, mkd. WC-Q2-2-2144-LE3-4-4235
768.0	Cross highway, Globe to Superior, 30 ft. wide, course westerly
791.8	Point for Cor. No. 4 <sup>on cut of highway,</sup> identical with point for Cor. No. 2 Survey No. 2144 Queen No. 2 lode, determined as herein-after described
	From this point, Cor. No. 3 Survey No. 2144 Silver &

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## Feet

- Copper Pocket lode bears N. 47° 14' E., 317.4 ft., being a limestone rock 6x10 ins., 12 ins. above ground, properly marked, witnessed by a palo verde tree. Cor. No. 2 Survey No. 2144 Silver and Copper Pocket lode bears S. 9° 17' E., 599.6 ft. from Cor. No. 3 thereof
- Thence N. 1° 27' W.,
- 148.35 Intersect line 3-4 Survey No. 2144 Silver and Copper Pocket lode at a point from which Cor. No. 3 bears N. 74° 09' E., 246.14 ft.
- 476.0 Cross power line, course westerly
- 704.3 Cor. No. 5
- Identical with Cor. No. 1 Survey No. 2995 Horse Shoe lode and situated on line 2-3 Survey No. 2144 Queen No. 2 lode,
- Being an iron pipe, 2 ins. diameter, 18 ins. above the ground in a monument of rocks, with brass cap, mkd. HS-1-2994; LE3-5-4235; from which
- A dacite rock in place, 25x38 ins., 9 ins. above ground, bears S. 37° 27' E., 42.1 ft., mkd. BR X LE3-5-4235
- A dacite rock in place, 38x73 ins., 19 ins. above ground, bears N. 14° 06' E., 13.9 ft., mkd. BR X LE3-5-4235
- The original location for the northwest corner bears S. 88° 24' W., 101.7 ft., being a pine post, 4 ins. sq., 30 ins. above ground, set in a mound of rocks
- Thence N. 88° 24' E.,
- 198.3 Intersect the north end of the lode line at the original location for the north end center, being a monument of rocks, 3 ft. high, 3 ft. base
- 498.3 Cor. No. 1 and place of beginning.
- LAKE ERIE NO. 4 lode
- Beginning at Cor. No. 1 of the Lake Erie No. 4 lode
- Situated on line 5-1 Survey No. 2995 Horse Shoe lode
- Set an iron pipe, 2 ins. in diameter, 3 ft. long, 18 ins. in the ground, with brass cap mkd. LE4-1-4235; from which
- Point for Cor. No. 5 Survey No. 2995 Horse Shoe lode bears N. 88° 24' E., 402.7 ft.
- Witness corner for Cor. No. 5 Survey No. 2995 Horse Shoe lode bears N. 88° 24' E., 373.1 ft.
- A dacite ledge, 60x144 ins., 84 ins. above ground bears N. 51° 51' W., 34.7 ft., mkd. BR X LE4-1-4235
- A dacite ledge, 39x47 ins., 28 ins. above ground bears S. 59° 04' E., 24.5 ft., mkd. BR X LE4-1-4235

Feet		Feet
	The 1/4 Sec. Cor. of Secs. 25 and 36, T. 1 S., R. 12 E., G. & S. R. M. bears N. 33° 50' E., 649.5 ft., previously described	
	Thence S. 5° 31' 30" E.,	
480.0	Cross power line, course westerly	
850.0	Cross highway, Globe to Superior, 30 ft. wide, course southwesterly	
1352.0	Cross highway, Globe to Superior, 30 ft. wide, course easterly	
1492.0	Cor. No. 2	
	Set an iron pipe, 2 ins. in diameter, 3 ft. long, 18 ins. in the ground, with brass cap, mkd. LE4-2-4235	
	Thence S. 88° 24' E.,	
14.7	East side of circular steel tank, 112 ft. in diameter	
126.7	West side of tank	
300.0	Intersect the south end of the lode line at the original location for the south end center, being a monument of rocks, 3 ft. high, 3 ft. base	
400.4	Cor. No. 3 Survey No. 2996 Aldridge lode	
560.0	Cross highway, Globe to Superior, 30 ft. wide, course northeasterly	
600.0	Cor. No. 3	
	Identical with Cor. No. 2 of the Lake Erie No. 3 lode of this survey	
	Thence N. 5° 29' W.,	
553.0	Cross highway, Globe to Superior, 30 ft. wide, course northwesterly	
1132.0	Cross power line, course westerly	
1492.0	Cor. No. 4	
	Identical with Cor. No. 1 of the Lake Erie No. 3 lode of this survey	
	Thence N. 88° 24' E.,	
300.0	Intersect the north end of the lode line at the original location for the north end center, being a monument of rock, 3 ft. high, 3 ft. base	
599.0	Cor. No. 1 and place of beginning,	

#### LODE LINES

The presumed course of the vein of each of the several lode locations embraced in this survey, counted from the respective points of discovery, is as follows:-

Lake Erie No. 3 lode, N. 5° 29' W., 66 ft., and, S. 5° 29' E., 1426 ft.

Lake Erie No. 4 lode, N. 5° 29' W., 340 ft., and, S. 5°

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Feet

29' E., 1152 ft.

AREAS acres

Total area, Lake Erie No. 3 lode - - - - - 17.824

Area in conflict with

Sur. No. 2144 Silver and Copper Pocket lode - - - 3.603  
 Sur. No. 2994 Reddy Pay lode - - - - - 2.496

Total area, Lake Erie No. 4 lode - - - - - 20.486

LOCATION

This survey is located in Lots 2 and 3, Sec. 36, T. 1 S., R. 12 E., G. & S. R. M., within the Crook National Forest.

The survey of the Lake Erie No. 4 lode is identical with the boundaries as marked on the ground in the amended location. The survey of the Lake Erie No. 3 lode is identical with the boundaries as marked on the ground in the amended location except as noted on the plat.

EXPENDITURE OF \$500

I certify that the value of the labor and improvements made upon or for the benefit of each of the lode locations embraced in said mining claim by the claimant or its grantors is not less than \$500, and that said improvements consist of:

Lake Erie No. 3

No. 1 The discovery cut of the Lake Erie No. 3 lode, the face of which being the discovery point is on the center line 66 ft. from the north end center; 4 ft. wide, 10 ft. face, running N. 75° W., 18 ft. to face  
 Value \$75

Lake Erie No. 4

No. 1 The discovery cut of the Lake Erie No. 4 lode, the face of which being the discovery point is on the center line 340 ft. from the north end center; 4 ft. wide, 11 ft. face, running S. 5° E., 20 ft. to face  
 Value \$100

No. 2 An open cut, the mouth of which bears S. 38° 40' E., 375 ft. from Cor. No. 4 of the Lake Erie No. 4 lode; 6 ft. wide, 10 ft. face, running S. 10° W., 18 ft. to face  
 Value \$100

No. 3 An open cut, the mouth of which bears S. 34° 45' E., 351 ft. from Cor. No. 4 of the Lake Erie No. 4 lode; 9 ft. wide, 8 ft. face, running S. 35° E., 10 ft. to face  
 Value \$75

No. 4 A shaft, the center of which bears S. 31° 46' E., 560 ft. from Cor. No. 4 of the Lake Erie No. 4 lode; 6x8 ft. in size, 20 ft. deep  
 Value \$400

No. 5 An open cut, the mouth of which bears S. 3° 38' E., 525 ft. from Cor. No. 1 of the Lake Erie No. 4 lode; 5 ft. wide, 10 ft. face, running N. 50° W., 24 ft. to face and portal of tunnel, 4x6 ft. in size, runs N. 50° W., 20 ft. to breast and a raise 6x8 ft. in size, 12 ft. high to surface  
 Value \$665

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No. 6 An open cut, the mouth of which bears N. 0° 30' W., 293 ft. from Cor. No. 3 of the Lake Erie No. 4 lode; 5 ft. wide, 8 ft. face, running North 17 ft. to face and portal of tunnel 5x6 ft. in size, runs North 14 ft. to breast  
Value \$280

No. 7 An open cut, the mouth of which bears N. 16° 35' E., 260 ft. from Cor. No. 3 of the Lake Erie No. 4 lode; 5 ft. wide, 10 ft. face, running N. 6° W., 17 ft. to face and portal of tunnel, 5x6 ft. in size, runs N. 6° W., 20 ft. to breast  
Value \$400

No. 8 An open cut, the mouth of which bears N. 14° 25' E., 184 ft. from Cor. No. 3 of the Lake Erie No. 4 lode; 5 ft. wide, 10 ft. face, running West 25 ft. to face and portal of tunnel, 5x6 ft. in size, runs West 32 ft. to breast  
Value \$605

No. 9 An open cut, the mouth of which bears N. 34° 28' E., 205 ft. from Cor. No. 3 of the Lake Erie No. 4 lode; 5 ft. wide, 5 ft. face, running N. 6° W., 18 ft. to face  
Value \$50

No. 10 An open cut, the mouth of which bears N. 75° 41' E., 275 ft. from Cor. No. 3 of the Lake Erie No. 4 lode; 5 ft. wide, 8 ft. face, running North 12 ft. to face and portal of tunnel, 4x6 ft. in size, runs North 40 ft. to breast  
Value \$650

A 1/150th interest in the No. 2 main working shaft of the claimant, located on the Silver Tip lode, Survey No. 2144, and described in Survey No. 4231, has been allotted to each of the claim of this survey.  
Value of a 1/150th interest \$2683.33

A 1/150th interest in various drifts from this shaft and also described in Survey No. 4231 has been allotted to each of the claims of this survey  
Value of a 1/150th interest \$6518.73

A map showing the location of the 150 claims sharing in the above workings, and a map of the underground improvements, are filed herewith.

OTHER CORNER DESCRIPTIONS.

Its locus was determined as hereinafter reported.  
Survey No. 2144 Queen No. 2 lode: Cor. No. 1 is a limestone rock, 4x10 ins., 8 ins. above ground, properly marked; Cor. No. 2 was missing; Cor. No. 3 is a post set in a monument of rock, marked 3-2144-Q 2 and 2-2995 H; I find line 2-3 to be N. 1° 27' W., 1304.0 ft. instead of N. 0° 45' W., 1417.5 ft. as reported. (N. 1° 27' W., agrees with the course of such line as reported in Survey No. 2995). Silver & Copper Pocket lode: Cor. Nos. 2 and 3 have been described. Cor. Nos. 1 and 4 are limestone rocks properly set and marked. I find line 1-2 to be N. 74° 03' E., 1450.0 ft., instead of N. 75° 25' E., 1500.0 ft. as approved; line 2-3 to be N. 9° 17' W., 599.6 ft. instead of N. 8° 08' W., 600 ft. as approved; line 3-4 to be S. 74° 09' W., 1454.0 ft. instead of S. 75° 25' W., 1500 ft. as approved.  
Survey No. 2994 Reddy Pay lode: Cor. No. 3 has been described. Cors. 2 and 4 are posts, properly set and marked. I check lines 2-3 and 3-4 as approved.

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Survey No. 2995 Horse Shoe lode:- Cor. No. 1 has been described. The witness corner for Cor. No. 5 is a post properly set and marked. I check line 5-1 as approved.

Survey No. 2996 Aldridge lode:- Cor. Nos. 3 and 4 are monuments of rocks, corners missing. There is no other trace of these corners. I find line 3-4 to <sup>b</sup>S. 88° 24' W., instead of S. 86° 13' W., as approved.

## ADJOINING CLAIMS.

In addition to the official surveys referred to in the foregoing field notes, the claims of this survey are adjoined on the east by the Lake Erie No. 8 lode, and on the south by the Sitting Bull lode, both unsurveyed and both belonging to the claimant herein.

## REPORT.

The locus of the point for Cor. No. 2 Survey No. 2144 Queen No. 2 lode, was determined by extending line 2-1 of Survey No. 2995 Horse Shoe lode to an intersection with a line from Cor. No. 1 Survey No. 2144 Queen No. 2 lode extended N. 88° 11' E., as shown in the record of Survey No. 2994 Reddy Pay and other lodes, line 2-1 of Survey No. 2995 Horse Shoe lode, according to the record, being coincident with line 3-2 Survey No. 2144 Queen No. 2 lode. Survey No. 2144 on the ground is at such a variance from the original record thereof that any attempt to reestablish this corner from the original record would be inadvisable.



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GENERAL LAND OFFICE

**FINAL OATHS FOR SURVEYS**

**LIST OF NAMES**

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

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 LAKE ERIE NO. 3 and LAKE ERIE NO. 4 lodes

and showing the respective capacities in which they acted.

James R. Gilbert, *Chainman.*

\_\_\_\_\_, *Chainman.*

\_\_\_\_\_, *Azman.*

\_\_\_\_\_, *Flagman.*

**FINAL OATHS OF ASSISTANTS**

~~We~~ I, James R. Gilbert

and \_\_\_\_\_, do solemnly swear that ~~we~~ I assisted Ralph L. Motz

\_\_\_\_\_, United States Mineral Surveyor, in marking the corners and surveying

the boundaries of the mining claim of Magma Copper Company

known as the Lake Erie No. 3 and Lake Erie No. 4 lodes,

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

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

James R. Gilbert, *Chainman.*

\_\_\_\_\_, *Chainman.*

\_\_\_\_\_, *Azman.*

\_\_\_\_\_, *Flagman.*

Subscribed and sworn to by the above-named persons before me this 2nd

day of November, 19 42

W. H. Miescher

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

My commission expires Feb. 3, 1945.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GENERAL LAND OFFICE

FINAL OATH OF MINERAL SURVEYOR

I, Ralph L. Motz, Mineral Surveyor,  
do solemnly swear that, in pursuance of instructions received from the Office Cadastral  
Engineer, at Phoenix, Arizona, dated February 3, 1940,  
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 \_\_\_\_\_  
Magna Copper Company, known as the  
LAKE ERIE NO. 3 and LAKE ERIE NO. 4 lodes,  
situate in Pioneer Mining District,  
Pinal County, Arizona, in Section  
36, Township No. 1 S., Range No. 12 E., G.&S.R.M.  
and designated as Survey No. 4235, 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 included  
in the estimate of expenditures upon any other claim.

Ralph L. Motz  
(Mineral Surveyor)

Subscribed and sworn to by the said Ralph L. Motz  
Mineral Surveyor, before me W. H. Miescher, Notary Public  
this 2nd  
day of November, 1942

W. H. Miescher

Notary Public, in and for the County  
of Cochise, State of Arizona.  
My commission expires Feb. 3, 1945.



OFFICE CADASTRAL ENGINEER'S FINAL CERTIFICATE ON FIELD NOTES

United States  
Department of the Interior  
GENERAL LAND OFFICE  
PUBLIC SURVEY OFFICE

Phoenix, Arizona

July 3, 19 43

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 LAKE ERIE NO. 3, and LAKE ERIE NO. 4 lodes

situate in Pioneer

Mining District Pinal County Arizona

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

designated as Survey No. 4235, 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 10 cuts, 1 shaft, 5 tunnels, and 1 raise, value \$3400. A 1/150th interest in the No. 2 main working shaft of the claimant and the various drifts therefrom, value, \$9202.06, is credited to each of the claims in this survey.

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 District Land Office at Phoenix, Arizona is correct and in conformity with the foregoing Field Notes.

E. A. Thompson  
Acting Office Cadastral Engineer.