

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

MINERAL SURVEY NO. 4480

ARIZONA

Land District.

FIELD NOTES

Of The Survey Of The Mining Claim Of

~~PHELPS DODGE CORPORATION~~

Known As The

X I V NO. 13

Copper Mountain Mining District,

Greenlee County, Arizona

Section 33, Township 3 S., Range 29 E.

Surveyed under order dated February 19, 19 59.

by Oscar T. Smith
Mineral Surveyor.

Claim located September 14, 19 57

Survey commenced February 25, 19 59

Survey completed March 27, 19 59

Address of claimant Phelps Dodge Corporation
Morenci, Arizona

DATES OF AMENDED LOCATIONS

THE UNIVERSITY OF CHICAGO
DEPARTMENT OF CHEMISTRY
530 SOUTH EAST ASIAN AVENUE

CHICAGO, ILLINOIS 60607

Dear Sir:

RE: [Illegible]

[Illegible]

Yours truly,

[Illegible]

[Illegible]

[Illegible]

[Illegible]

[Illegible]

[Illegible]

[Illegible]

[Illegible]

[Illegible]

[Illegible]

[Illegible]

SURVEY NO. 4480

1

Notes

This survey was made with a Keuffel & Esser Co. Transit No. 131481 with horizontal limb, 5 ins. diam., having two double opposite verniers, and full vertical circle, 3.5 ins. diam., having one double vernier; the verniers read to one minute of arc; the eyepiece is equipped with a colored shade set in the dust shutter for making direct observations upon the sun. The instrument was in good condition at the time of the survey, and all adjustments were in good order.

All azimuths in this record were determined by the method of deflection angles referred to the meridian determined by the following observation:

March 10, 1959, at Cor. No. 4 of the XIV-No. 13 lode, in latitude $33^{\circ} 06' 37''$ N., and longitude $109^{\circ} 21' 31''$ W., I make a series of six altitude observations upon the sun for azimuth at approximately equal time intervals, three each with the telescope in direct and reversed positions, observing opposite limbs of the sun, and reading the horizontal angle from reference point 1482.00 ft. northward, clockwise to the sun.

Mean time of observation,
105th meridian standard time = $9^{\text{h}} 31^{\text{m}} 15^{\text{s}}$ a.m.

Declination of sun at
mean time of observation = $4^{\circ} 12' 46''$ S.

Mean observed vertical
angle to sun's center = $33^{\circ} 53' 12''$

Mean horizontal angle from ref-
erence point to sun's center = $109^{\circ} 29'$ NE.

True bearing to reference point = $N. 13^{\circ} 26' 58''$ E.

The lines were measured with a Keuffel & Esser steel tape, 500.00 ft. in length, graduated every foot for 500.00 ft., with the first and last foot graduated in tenths and hundredths; the tape was compared with a standard 100.00-foot invar 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 declination observed at each corner of the survey gave a uniform value of $13^{\circ} 40'$ E.

SURVEY NO. 4480

At Cor. No. 1 of the XIV No. 13 lode.

Set a copper coated steel pin, 18 ins. long, $5/8$ in. diam., 16 ins. in the ground, with brass cap mkd. XIV 13-1-4480; from which

The cor. of Secs. 32 and 33, T. 3 S., R. 29 E., and Secs. 4 and 5, T. 4 S., R. 29 E., G&SR Meridian, bears $S. 65^{\circ} 36' 50''$ W., 1909.34 ft. dist., an iron pipe 1 in. diam., 14 ins. above ground, firmly set, mkd. and witnessed as described in the official record.

No local bearing objects or bearing trees available.

Feet	Notes
	Thence N. 13° 27' E.
125.13	Intersect line 2-3, Sur. No. 4425, XIV #7 lode, and line 4-1, Sur. No. 4425, XIV No. 6 lode, at a point from which cor. No. 3, XIV #7 lode, bears S. 81° 34' E., 511.27 ft. dist., and cor. No. 4, XIV No. 6 lode, bears S. 81° 34' E., 410.47 ft. dist.
1482.00	Cor. No. 2, identical with cor. No. 2, Sur. No. 3101, Blue and Gray lode and Cor. No. 3, Sur. No. 3149, Camino No. 2 lode. Reset cor. with a copper coated steel pin, 18 ins. long, 5/8 in. diam., 16 ins. in ground, with brass cap mkd. XIV 13-2-4480-B and G-2-3101-C2-3-3149, from which A granite boulder, 4 ft. long, 2 ft. wide, 20 ins. above ground, mkd. BR-2-4480-2-3101-3-3149, bears N. 70° W., 7.55 ft. dist. Thence S. 73° 18' E.
294.86	Intersect line 3-4, Sur. No. 4425, XIV No. 6 lode, at a point from which Cor. No. 4 bears S. 8° 26' W., 1309.30 ft. dist.
299.57	Intersect Cor. No. 2, Sur. No. 3149, Camino No. 2 lode, identical with Cor. No. 3, Sur. No. 3149, Camino lode.
300.00	Lode line; discovery point bears S. 13° 27' W., 40 ft. dist.
308.07	Intersect Cor. No. 2, Sur. No. 1229, El Cajon lode.
590.00	Cor. No. 3 Point falls on granite boulder 20 ft. x 10 ft. 6 ins. above ground, mkd. with a cross (+), XIV 13-3-4480. A cor. of the location bears S. 73° 18' E., 10.00 ft. dist. No local bearing objects or bearing trees available. Thence S. 13° 27' W.
2.14	Intersect line 2-3, Sur. No. 1229, El Cajon lode, at a point from which Cor. No. 2 bears N. 72° 52' W., 282.05 ft. dist.
1482.00	Cor. No. 4 Set a copper coated iron pin, 18 ins. long, 5/8 in. diam., 16 ins. in the ground, with brass cap mkd. XIV 13-4-4480; from which Cor. No. 3, Sur. No. 4425, XIV #7 lode, bears N. 7° 58' 20" W., 218.36 ft. dist. Cor. No. 4, Sur. No. 4425, XIV No. 6 lode, bears N. 29° 21' 50" W., 265.09 ft. dist. Cor. No. 1, Sur. No. 1229, El Cajon lode, bears N. 74° 15' 30" W., 262.64 ft. dist. A cor. of the location bears S. 73° 18' E., 10.00 ft. dist. No local bearing objects or bearing trees available. Thence N. 73° 18' W.

CHANGES
Feet

- 62.31 Intersect line 3-4, Sur. No. 4425, XIV #7 lode, at a point from which cor. No. 3 bears N. 8° 26' E., 200.51 ft. dist.
- 262.90 Intersect line 1-2, Sur. No. 1229, El Cajon lode, at a point from which Cor. No. 2 bears N. 12° 43' E., 1483.20 ft. dist.
- 290.00 Lode line; discovery point bears N. 13° 27' E., 1442.00 ft. dist.
- 590.00 Cor. No. 1 and place of beginning.

AREAS

Acres

Total Area, XIV No. 13	20.041	
Area in conflict with:		
Sur. No. 3149, Camino lode	.0069	.007
Sur. No. 1229, El Cajon lode	9.246	9.246
Sur. No. 4425, XIV No. 6 lode	10.753	9.650
Sur. No. 4425, XIV No. 6 lode, exclusive of its conflict with Sur. No. 1229, El Cajon lode	9.650	1.111
Sur. No. 4425, XIV #7 lode	1.933	20.014
Sur. No. 4425, XIV #7 lode, exclusive of its conflict with Sur. No. 1229, El Cajon lode	1.111	20.041

LOCATION

This survey is located in lots 11 and 9, Sec. 33, T. 3 S., R. 29 E., Gila and Salt River Meridian.

The survey of the XIV No. 13 is wholly within the location as marked on the ground. Cors. 1 and 2 are identical with cors. of the location as marked on the ground; Cors. 3 and 4 differ to the extent previously shown.

EXPENDITURES

I certify that the value of the labor and improvements made upon or for the benefit of the lode location embraced in said mining claim by the claimant or its grantors is not less than \$500.00, and said improvements consist of:

- No. 1 The discovery cut of the XIV No. 13 lode, the face of which being the discovery point, is on the lode line 40.00 ft. S. 13° 27' W. from a point on line 2-3, 300 ft. from Cor. No. 2, 6 ft. wide, 12-ft. face, running N. 70° W., 9 ft. to face. Solid rock hand drilled. Value, \$648.00.

OTHER IMPROVEMENTS

None

OTHER CORNER DESCRIPTIONS AND SUPPLEMENTAL DATA

Sur. No. 3149, Camino No. 2 lode: Cor. No. 2 is on the east face of a 50-foot granite bluff, with a cross and proper markings 8 ft. above ground level. Cor. No. 3 is a 4" x 4" pine post firmly set and properly marked. Line 2-3 was found to be N. 73° 18' W., 299.57 ft., instead of N. 73° 20' W., 299.00 ft., as approved.

Chains

Sur. No. 3149, Camino lode: Cor. No. 2 is a 4" x 6" redwood post firmly set and properly marked. Cor. No. 3, identical with Cor. No. 2, Sur. No. 3149, Camino No. 2 lode. Line 2-3 was found to be N. 72° 52' W., 589.86 ft., instead of N. 73° 20' W., 604.50 ft., as approved.

Sur. No. 1229, El Cajon lode: Cor. No. 1 is a 2-inch iron pipe reset by owners. Cor. No. 2 was a 4" x 6" redwood post; I found pieces of rotten post in ground in mound of stone. Cor. No. 3 is identical with Cor. No. 2, Sur. No. 3149, Camino lode. Cor. No. 4 and accessories are destroyed. Line 1-2 was found to be N. 12° 43' E., 1487.60 ft. instead of N. 17° 19' E., 1500.00 ft., as approved. Line 2-3 was found to be S. 72° 52' E., 581.36 ft., instead of S. 72° 41' E., 600.00 ft., as approved. Line 3-4 was found to be S. 12° 43' W., 1487.60 ft., instead of S. 17° 19' W., 1500.00 ft., as approved. Line 4-1 was found to be N. 72° 52' W., 581.36 ft., instead of N. 72° 41' W., 600.00 ft., as approved.

Sur. No. 4425, XIV #7 lode: Cors. 3 and 4 are copper coated steel rods, set and marked as described in the official record. Lines 2-3 and 3-4 are shown as approved.

Sur. No. 4425, XIV No. 6 lode: Cors. 1, 3, and 4 are copper coated steel rods, set and marked as described in the official record. Lines 3-4 and 4-1 are shown as approved.

FIELD ASSISTANTS

Name

Capacity

Jay Markham

Chainman

Ed Coats

Chainman

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

CERTIFICATE OF SURVEYOR

April 24, 19 59

I, OSCAR T. SMITH

Mineral Surveyor, hereby certify upon honor that in pursuance of an order received from the Department of the Interior Bureau of Land Management, at Phoenix, Arizona

dated February 19, 1959, I have faithfully and correctly executed the survey of the mining claim of Phelps Dodge Corporation

known as the X I V NO. 13 (Lode, placer, or mill site)

situate in Copper Mountain, mining district, Greenlee County, Arizona, Sec. 33

T. 3 S., R. 29 E., Gila and Salt River Meridian, Arizona (State), and

designated as Survey No. 4480, which is represented in the foregoing field notes as having been executed by me and under my direction, and that said survey has been made in strict conformity with said order, the Manual of Instructions for the Survey of the Public Lands of the United States, and in the specific manner described in the foregoing field notes, and I do further certify that the labor expended and improvements made

upon or for the benefit of the above location(s) embraced in the said mining claim by

claimant(s) or its grantors are fully stated in my report therein, and that the character, extent, location, and itemized value thereof are specified therein with particularity and full detail, and that no portion of, or interest in, said labor and improvements so credited to this claim has been included in the estimate of expenditures upon any other claim.

Globe, Arizona (Place)

Oscar T. Smith (Mineral Surveyor)

CERTIFICATE OF APPROVAL

Bureau of Land Management--Survey Office (Office)

Phoenix, Arizona September 14, 1959 (Place) (Date)

The foregoing field notes of mineral survey No. 4480, in Copper Mountain Mining District--

Section 33, T. 3 S., R. 29 E., Gila & Salt River Meridian,

Arizona, executed by Oscar T. Smith, Mineral Surveyor, (State)

under order dated February 19, 1959, having been critically examined and the necessary corrections made prior to their certification by the surveyor, the field notes and the survey therein described are hereby approved.

Lester S. Mann (Signature)
Lester S. Mann

Office Cadastral Engineer (Title)

CERTIFICATE OF TRANSCRIPT

I CERTIFY that the foregoing transcript of field notes of the above described mineral survey No. is a true copy of the original field notes.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
OFFICE OF THE ASST. DIR.

Dear Sir:

I have the honor to acknowledge the receipt of your letter of the 12th inst. regarding the matter mentioned therein. The Bureau is currently reviewing the information provided and will advise you of the results of its investigation as soon as possible.

Very truly yours,
Assistant Director

OFFICE OF THE ASST. DIR.

Enclosed for the Bureau are the following documents:

- 1. Copy of letterhead memorandum dated 10/15/50.
- 2. Copy of report dated 10/15/50.
- 3. Copy of field notes dated 10/15/50.

Very truly yours,
Assistant Director

OFFICE OF THE ASST. DIR.

Very truly yours,
Assistant Director