

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

MINERAL SURVEY NO. 4481

ARIZONA

Land District.

FIELD NOTES

Of The Survey Of The Mining Claim Of

PHILPS DODGE CORPORATION

Known As The

Pilot, Moor, Alhambra, Cracker Jack, and Republic.

Copper Mountain Mining District,

Greenlee County, Arizona

Section 8, 17, & 18, Township 4S, Range 29 E.

Surveyed under order dated February 20, 19 59

by Oscar T. Smith  
Mineral Surveyor.

Claim located See Reverse side, 19

Survey commenced March 27, 19 59

Survey completed May 1, 19 59

Address of claimant Phelps Dodge Corporation  
Morenci, Arizona

DATES OF AMENDED LOCATIONS

See Reverse Side

Name of Location	Date of Original Location	Amended Location
Pilot ✓	Aug. 13, 1903 ✓	Nov. 13, 1958 ✓
Moor ✓	Jan. 1, 1898 ✓	
Alhambra ✓	Jan. 1, 1898 ✓	
Cracker Jack ✓	Aug. 24, 1903 ✓	
Republic ✓	Aug. 24, 1903 ✓	

## SURVEY NO. 4481

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## Chains

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 15, 1959, at cor. No. 3 of the Alhambra lode, in latitude  $33^{\circ} 04' 20''$  N., and longitude  $109^{\circ} 22' 27''$  W., I make a series of six altitude observations upon the sun for azimuth at approximately equal time intervals, three each with the telescope indirect and reversed positions, observing opposite limbs of the sun, and reading the horizontal angle from reference point 1482.00 ft. Southwestward counter clockwise to the sun.

Mean time of observation,  
105th meridian standard time - 9h58m a.m.

Declination of sun at mean  
time of observation -  $2^{\circ} 14' 09''$  S.

Mean observed vertical angle  
to sun's center -  $40^{\circ} 19' 58''$

Mean horizontal angle from  
reference point to sun's center =  $110^{\circ} 37' 10''$  S.W.

True bearing to reference point -  $S. 58^{\circ} 29' 48''$  W.

The lines were measured with a Keuffel and 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 ft. 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.

## Feet

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## PILOT LODE

At cor. No. 1 of the Pilot lode

Set a copper coated steel pin 18 ins. long,  $5/8$  in. diam., 16 ins. in the ground, with brass cap mkd. P-1-4481; from which

The  $1/4$  sec. cor. of secs. 8 and 17, T. 4 S., R. 29 E., G. & S. R. M., bears  $S. 57^{\circ} 29' 56''$  E., 576.83



Feet Chains	
	ft. dist., an iron pipe 1 in. diam., 14 ins. above ground firmly set, mkd. and witnessed as described in the official record.
	Cor. No. 4 Sur. No. 3914 Pizarro lode, bears N. 80° 21' 30" W., 607.22 ft. dist.
	No local bearing objects or bearing trees available.
	Thence S. 18° 29' 30" W.
93.06	Intersect cor. No. 1 Sur. No. 3914 Daisy lode, on line 4-1 Sur. No. 3914 Pizarro lode, from which cor. No. 4 bears N. 71° 32' 30" W., 600.00 ft. dist.
331.63	Lode line; discovery point bears N. 31° 30' W., 25 ft. dist.
663.26	Cor. No. 2 on line 1-2 Sur. No. 3914 Daisy lode and on line 2-3 Alhambra lode of this survey. Set a copper coated steel pin 18 ins. long, 5/8 in. diam., 16 ins. in the ground, with brass cap mkd. P-2-4481. No local bearing objects or bearing trees available. Thence N. 31° 30' W.
567.47	Cor. No. 2 Alhambra lode and cor. No. 3 Cracker Jack lode of this survey.
689.78	Intersect line 1-2 Sur. No. 3110 Ontario No. 3 lode at a point from which cor. No. 2 bears S. 74° 34' 30" W., 474.37 ft. dist.
1167.47	Cor. No. 2 Cracker Jack lode of this survey.
1300.66	Intersect line 3-4 Sur. No. 3110 Ontario No. 3 lode identical with line 1-2 Sur. No. 3110 Ontario No. 1 lode at a point from which cors. No. 2 and 3 bear S. 74° 34' 30" W., 429.46 ft. dist.
1338.75	Cor. No. 3 Set a copper coated steel pin 18 ins. long, 5/8 in. diam., 16 ins. in the ground, with brass cap mkd. P-3-4481. No local bearing objects or bearing trees available. Thence N. 18° 29' 30" E.
331.63	Lode line; discovery point bears S. 31° 30' E., 1313.75 ft. dist.
663.26	Cor. No. 4 on line 3-4 Sur. No. 3110 Ontario No. 1 lode. Set a copper coated steel pin 18 ins. long, 5/8 in. diam., 16 ins. in the ground, with brass cap mkd. P-4-4481,

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3.

<p>Feet Chains</p>	<p>from which cor. No. 4, Sur. No. 3110, Ontario No. 1 lode, bears N. 74° 34' 30" E., 538.58 ft. dist.</p>
	<p>No local bearing objects or bearing trees available. Thence S. 31° 30' E.</p>
<p>553.61</p>	<p>Intersect cor. No. 3 Sur. No. 3914 Pizarro lode.</p>
<p>610.88</p>	<p>Intersect line 1-2 Sur. No. 3110 Ontario No. 1 lode identical with line 3-4 Sur. No. 3110 Ontario No. 3 lode at a point from which cors. 1 and 4 bear N. 74° 34' 30" E., 493.65 ft. dist.</p>
<p>1221.76</p>	<p>Intersect line 1-2 Sur. No. 3110 Ontario No. 3 lode at a point from which cor. No. 2 bears S. 74° 34' 30" W., 1003.06 ft. dist.</p>
<p>1338.75</p>	<p>Cor. No. 1 and place of beginning.</p>
<p>ALHAMBRA LODE</p>	
	<p>Beginning at cor. No. 1 of the Alhambra lode, identical with cor. No. 1 Moor lode, cor. No. 2 Republic lode, cor. No. 4 Cracker Jack lode of this survey.</p>
	<p>Set a copper coated steel pin 18 ins. long, 5/8 in. diam., 16 ins. in the ground with a brass cap mkd. A-1-M-1-R-2-C J-4-4481, from which the cor. of secs. 7, 8, 17 and 18, T. 4 S., R. 29 E., G. &amp; S. R. M. bears N. 31° 15' 40" W., 731.65 ft. dist., an iron pipe 1 in. diam., 12 ins. above ground, firmly set, mkd. and witnessed as described in the official record.</p>
	<p>No local bearing objects or bearing trees available.</p>
	<p>Thence N. 58° 30' E.</p>
<p>1500.0</p>	<p>Cor. No. 2, identical with cor. No. 3 Cracker Jack lode and on line 2-3 Pilot lode of this survey.</p>
	<p>Set a copper coated steel pin 18 ins. long, 5/8 in. diam., 17 ins. in the ground, with brass cap mkd. A-2-C J-3-4481.</p>
	<p>No local bearing objects or bearing trees available.</p>
	<p>Thence S. 31° 30' E.</p>
<p>300.0</p>	<p>Lode line; discovery point bears S. 58° 30' W., 1000.0 ft. dist.</p>
<p>567.47</p>	<p>Intersect cor. No. 2 Pilot lode of this survey, on line 1-2 Sur. No. 3914 Daisy lode, from which cor. No. 2 identical with cor. No. 1 Sur. No. 3914 Lookout lode bears S. 18° 29' 30" W., 29.01 ft. dist.</p>
<p>600.0</p>	<p>Cor. No. 3, identical with cor. No. 4 Sur. No. 1032-A Producer lode.</p>



Feet	
	<p>Set a copper coated steel pin 18 ins. long, 5/8 in. diam., 16 ins. in the ground with brass cap mkd. A-3-4481-P-1-1032-A, from which</p> <p>Cor. No. 2 Sur. No. 3914 Daisy lode bears N. 89° 29' 50" W., 26.20 ft. dist., identical with cor. No. 1 Sur. No. 3914 Lookout lode.</p> <p>No local bearing objects or bearing trees available.</p> <p>Thence S. 58° 30' W.</p>
10.57	Intersect line 2-3 Sur. No. 3914 Daisy lode, identical with line 4-1 Sur. No. 3914 Lookout lode at a point from which cors. 2 and 1 bear N. 71° 29' 30" W., 18.12 ft. dist.
38.77	Intersect line 1-2 Sur. No. 3914 Lookout lode at a point from which cor. No. 1 bears N. 18° 29' 30" E., 21.60 ft. dist.; identical with cor. No. 2 Sur. No. 3914 Daisy lode.
1500.0	<p>Cor. No. 4, identical with cor. No. 3 Sur. No. 1032-A Producer lode, cor. No. 2 Sur. No. 3376 Irving lode, cor. No. 2 Moor lode of this survey.</p> <p>Set a copper coated steel pin 18 ins. long, 5/8 in. diam., 16 ins. in the ground with brass cap mkd. A-4-M-2-4481-P-3-1032-A-I-2-3376.</p> <p>No local bearing objects or bearing trees available.</p> <p>Thence N. 31° 30' W.</p>
300.00	Lode line; discovery point bears N. 58° 30' E., 500.0 ft. dist.
600.0	Cor. No. 1, and place of beginning.
	<b>CRACKER JACK LODGE</b>
	Beginning at cor. No. 1 of the Cracker Jack lode, identical with cor. No. 1 Republic lode of this survey.
	<p>Set a copper coated steel pin 18 ins. long, 5/8 in. diam., 16 ins. in the ground, with brass cap mkd. C J-1-R-1-4481; from which</p> <p>The cor. of secs. 7, 8, 17 and 18 bears N. 30° 10' 20" W., 131.68 ft. dist., previously described.</p> <p>No local bearing objects or bearing trees available.</p> <p>Thence N. 58° 30' E.</p>
1069.16	Intersect line 2-3 Sur. No. 3110 Ontario No. 3 lode at a point from which cor. No. 2 bears S. 27° 22' 30" E., 347.22 ft. dist.



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1500.0	<p>Cor. No. 2, on line 2-3 Pilot lode of this survey.</p> <p>Set a copper coated steel pin 18 ins. long, 5/8 in. diam., 16 ins. in the ground with brass cap mkd. C J-2-4481, from which cor. No. 2 Sur. No. 3110 Ontario No. 3 lode bears S. 21° 16' 24" W., 572.46 ft. dist.</p> <p>No local bearing objects or bearing trees available.</p> <p>Thence S. 31° 30' E.</p>
300.0	Lode line; discovery point bears S. 58° 30' W., 1420.0 ft. dist.
447.67	Intersect line 1-2 Sur. No. 3110 Ontario No. 3 lode at a point from which cor. No. 2 bears S. 74° 34' 30" W., 474.37 ft. dist.
600.0	<p>Cor. No. 3, identical with cor. No. 2 Alhambra lode of this survey.</p> <p>Thence S. 58° 30' W.</p>
1500.0	<p>Cor. No. 4, identical with cor. No. 1 Alhambra lode, cor. No. 1 Moor lode, cor. No. 2 Republic lode of this survey.</p> <p>Thence N. 31° 30' W.</p>
300.0	Lode line; discovery point bears N. 58° 30' E., 80.0 ft. dist.
600.0	Cor. No. 1, and place of beginning.
<b>REPUBLIC LODE</b>	
	<p>Beginning at cor. No. 1 of the Republic lode, identical with cor. No. 1 of Cracker Jack lode of this survey.</p> <p>Thence S. 31° 30' E.</p>
300.0	Lode line; discovery point bears S. 58° 30' W., 50.0 ft. dist.
600.0	<p>Cor. No. 2, identical with cor. No. 4 Cracker Jack lode, cor. No. 1 Alhambra lode, cor. No. 1 Moor lode of this survey.</p> <p>Thence S. 58° 30' W.</p>
1500.0	<p>Cor. No. 3, identical with cor. No. 4 Moor lode of this survey, cor. No. 2 Sur. No. 3376 Cordova lode.</p> <p>Point falls on a rock slide, set a copper coated steel pin 18 ins. long, 5/8 in. diam., with brass cap in a redwood post 4 ft. long, 4 ins. sq., 3-1/2 ft. in the rocks, with top mkd. R-3-M-4-4481-C-2-3376.</p> <p>No local bearing objects or bearing trees available.</p> <p>Thence N. 31° 30' W.</p>



Feet	
300.0	Lode line; discovery point bears N. 58° 30' E., 1450.0 ft. dist.
600.0	Cor. No. 4. Set a copper coated steel pin 18 ins. long, 5/8 in. diam., 16 ins. in the ground, with brass cap mkd. R-4-4481. No local bearing objects or bearing trees available. Thence N. 58° 30' E.
1500.0	Cor. No. 1, and place of beginning.
<b>MOOR LODGE</b>	
Beginning at cor. No. 1 of the Moor lode, identical with cor. No. 2 Republic lode, cor. No. 4 Cracker Jack lode, cor. No. 1 Alhambra lode of this survey. Thence S. 31° 30' E.	
300.0	Lode line; discovery point bears S. 58° 30' W., 700.0 ft. dist.
600.0	Cor. No. 2, identical with cor. No. 4 Alhambra lode of this survey, cor. No. 3 Sur. No. 1032-A Producer lode, cor. No. 2 Sur. No. 3376, Irving lode. Thence S. 58° 30' W.
1500.0	Cor. No. 3, identical with cor. No. 1 Sur. No. 3376 Irving lode, cor. No. 2 Sur. No. 3376 Cayuga lode, cor. No. 3 Sur. No. 3376 Cordova lode. Set a copper coated steel pin 18 ins. long, 5/8 in. diam., 16 ins. in the ground, with brass cap mkd. M-3-4481-I-1-C-2-C-3376. No local bearing objects or bearing trees available. Thence N. 31° 30' W.
300.0	Lode line; discovery point bears N. 58° 30' E., 800.0 ft. dist.
600.0	Cor. No. 4, identical with cor. No. 3 Republic lode of this survey, cor. No. 2 Sur. No. 3376 Cordova lode. Thence N. 58° 30' E.
1500.0	Cor. No. 1, and place of beginning.
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<b>AREAS</b>	
Total area, pilot lode Area in conflict with-	
<b>Acres</b> 15.613	



SURVEY NO. 4481

Chains	Acres
Sur. No. 3914 Pizarro lode	4.762
Sur. No. 3110 Ontario No. 3 lode	7.124
Sur. No. 3110 Ontario No. 3 lode, exclusive of its conflict with:	
(1) Sur. No. 3914 Pizarro lode	3.149
(2) Sur. No. 3914 Pizarro lode and Tract A, hereinafter described	3.083
Sur. No. 3110 Ontario No. 1 lode	3.784
Sur. No. 3110 Ontario No. 1 lode, exclusive of its conflict with:	
(1) Sur. No. 3914 Pizarro lode	3.751
(2) Sur. No. 3914 Pizarro lode and Tract B, hereinafter described	3.746
Total area, Alhambra lode	20.661
Area in conflict with-	
Sur. No. 3914 Daisy lode	.010
Sur. No. 3914 Lookout lode	.004
Total area, Cracker Jack lode	20.661
Area in conflict with-	
Sur. No. 3110 Ontario No. 3 lode	4.212
Total area, Moor lode	20.661
Total area, Republic lode	20.661

TRACT A AND TRACT B

That portion of Sur. No. 3110 Ontario No. 1 lode and Ontario No. 3 lode in conflict with Pilot lode of this survey, excluded by said Ontario No. 1 and Ontario No. 3 lodes in favor of Pizarro lode location abandoned by Sur. No. 3914 Pizarro lode, and is bounded and described as follows:

TRACT A

Beginning at cor. No. 4 Sur. No. 3914 Pizarro lode-  
 Thence S. 71° 32' 30" E., 259.82 ft. to line 1-2 Ontario No. 3;  
 Thence S. 74° 34' 30" W., 8.88 ft. to a point on same line;  
 Thence N. 71° 32' 30" W., 255.44 ft. to location cor. of Pizarro lode;  
 Thence N. 18° 21' 30" E., 534.92 ft. to line 3-4 Ontario No. 3 lode;  
 Thence N. 74° 34' 30" E., 3.58 ft. to a point on same line;  
 Thence S. 18° 21' 30" W., 531.96 ft. to place of beginning.

Tract A contains .066 acres.

TRACT B

Beginning at cor. No. 3 Sur. No. 3914 Pizarro lode-  
 Thence S. 18° 21' 30" W., 66.21 ft. to line 1-2 Ontario No. 1 lode;  
 Thence S. 74° 34' 30" W., 3.58 ft. to a point on same line;  
 Thence N. 18° 21' 30" E., 68.20 ft. to location cor. of Pizarro lode;  
 Thence S. 71° 32' 30" E., 2.98 ft. to place of beginning.

Tract B contains .005 acres.

LOCATION

This survey is located in lots 7 and 10, sec. 8, lot 9 of sec. 17, lot 10 and NE 1/4 of the NE 1/4 of sec. 18, T. 4 S., R. 29 E. of G. & S. R. M.

Chains	<p>The survey of the Pilot, Alhambra, Cracker Jack, Republic and Moor lodes is identical with the respective location or amended location as marked on the ground.</p>
	<p><b>EXPENDITURES</b></p>
	<p>The improvements and 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 claimants or its grantors is not less than \$500.00, and said improvements are as follows:</p>
No. 1	<p>The discovery point of the Pilot lode, being on the lode line 25.00 ft. from a point on line 1-2 331.63 ft. from cor. No. 1. No value.</p>
No. 2	<p>A shaft, the center of which bears N. 9° 35' E., 310.0 ft. from cor. No. 2 Pilot lode; 4x6 ft., 8 ft. deep. Value, \$100.</p>
No. 1	<p>The discovery point of the Alhambra lode, being on the lode line 500.00 ft. from a point on line 4-1, 300.00 ft. from cor. No. 1. No value.</p>
No. 2	<p>A cut 15 ft. wide, the face of which bears S. 32° E., 192.0 ft. from cor. No. 1 Alhambra lode, runs S. 58° W., 20 ft. to 15 ft. face. Value, \$1125.</p>
No. 1	<p>The discovery point of the Cracker Jack lode, being on the lode line 80.00 ft. from a point on line 4-1, 300.00 ft. from cor. No. 1. No value.</p>
No. 2	<p>A cut 5 ft. wide, the face of which bears S. 72° 20' E., 200.00 ft. from cor. No. 1 Cracker Jack lode, runs S. 70° W., 10 ft. to 7 ft. face. Value, \$100.</p>
No. 3	<p>A cut and tunnel, 10 ft. wide, the face, also being the portal of tunnel, of which bears S. 47° 20' W., 650.00 ft. from cor. No. 2 Cracker Jack lode, runs N. 10° E. 17 ft. to a 10 ft. face, a tunnel 4x5 ft. in size runs N. 10° E., 30 ft. to breast. Value, \$1025.</p>
No. 1	<p>The discovery point of the Republic lode, being on the lode line 50.00 ft. from a point on line 1-2, 300.00 ft. from cor. No. 1. No value.</p>
No. 2	<p>A tunnel 4x6 ft. in size, the portal of which bears S. 30° E., 105.00 ft. from cor. No. 1 Republic lode, runs S. 55° W., 40 ft. to breast. Value, \$960.</p>
No. 3	<p>A cut 8 ft. wide, the face of which bears S. 40° W., 332.00 ft. from cor. No. 1 Republic lode, runs W. 15 ft. to 5 ft. face. Value, \$150.</p>



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No. 4	A shaft, the center of which bears S. 43° 25' W., 368.00 ft. from cor. No. 1 Republic lode 6x6 ft., 5 ft. deep. Value, \$100.
No. 1	The discovery point of the Moor lode, being on the lode line 700.00 ft. from a point on line 1-2, 300.00 ft. from cor. No. 1. No value.
No. 2	A cut 15 ft. wide, the face of which bears S. 29° E., 195.00 ft. from cor. No. 1 Moor lode, runs S. 60° W., 10 ft. to 7 ft. face. Value, \$265.
No. 3	A cut 4 ft. wide, the face of which bears N. 73° 40' W., 460.00 ft. from cor. No. 2 Moor lode, runs N. 20° W., 6 ft. to 10 ft. face. Value, \$120.
No. 4	A shaft, the center of which bears S. 64° 40' W., 495.00 ft. from cor. No. 2 Moor lode, 5x7 ft., 4 ft. deep. Value, \$100.
No. 5	A cut 10 ft. wide, the face of which bears N. 55° 30' E., 180.00 ft. from cor. No. 3 Moor lode, runs N. 12 ft. to 6 ft. face. Value, \$175.
	An interest in a common improvements described as follows:
No. 3	A cut and tunnel, 12 ft. wide, the face, also being the portal of tunnel, of which bears S. 37° W., 370.00 ft. from cor. No. 2 Alhambra lode, runs N. 15° E., 40 ft. to a 12 ft. face; a tunnel 4x5 ft. in size runs N. 15° E., 25 ft. to breast. Value, \$1940.
	This improvement is in the course of construction for the development of two lodes of this survey, Pilot lode and Alhambra lode, which are contiguous lode claims owned in common within the range of benefit of said improvements.
	Five hundred dollars or over has been expended in this improvement in such a manner as tends to the development of each lode of this survey subsequent to its location and to the time since which common ownership and contiguity have prevailed; therefore, an undivided one-half interest in its value is hereby credited to each of said lodes.
	An undivided one-half interest in the cut and tunnel described above, valued at \$970.00, was credited to the Pilot lode of this survey.
	An undivided one-half interest in the cut and tunnel described above, valued at \$970.00, was credited to Alhambra lode of this survey.
	Except as above stated, no portion of or interest in

Chains

this improvement has been credited heretofore as patent expenditures to any lode claim.

## OTHER IMPROVEMENTS

None.

## OTHER CORNER DESCRIPTIONS AND SUPPLEMENTAL DATA

Sur. No. 3110 Ontario No. 1 lode: Cors. Nos. 1 and 2 were 4x4 pine post and were rotted off at ground level. Found pieces of rotten post in ground in mound of stone. Cors. Nos. 3 and 4 are destroyed. Cors. Nos. 3 and 4 were reestablished from line 1-2. From line 1-2 to line 2-3 is shown an angle of  $101^{\circ} 57'$ , 600.00 ft. dist. From line 1-2 to line 4-1 is shown an angle of  $78^{\circ} 03'$ , 600.00 ft. dist. Line 1-2 was found to be S.  $74^{\circ} 34' 30''$  W., 1451.80 ft. instead of S.  $74^{\circ} 28'$  W., 1451.80 ft. as approved. Line 2-3 was found to be N.  $27^{\circ} 22' 30''$  W., 600.00 ft. instead of N.  $27^{\circ} 29'$  W., 600.00 ft. as approved. Line 3-4 was found to be N.  $74^{\circ} 34' 30''$  E., 1451.80 ft. instead of N.  $74^{\circ} 28'$  E., 1451.80 ft. as approved. Line 4-1 was found to be S.  $27^{\circ} 22' 30''$  E., 600.00 ft. instead of S.  $27^{\circ} 29'$  E., 600.00 ft. as approved.

Sur. No. 3110 Ontario No. 3 lode: Cor. No. 1 a 4x4 in. pine post 2 ft. above ground in mound of stone, firmly set and properly mkd. Cor. No. 2 has been destroyed. Cors. Nos. 3 and 4, identical with cors. Nos. 1 and 2, Sur. No. 3110 Ontario No. 1 lode. Cor. No. 2 was reestablished by extending line 2-3 Sur. No. 3110 Ontario No. 1 lode, S.  $27^{\circ} 20' 30''$  E., 600.00 ft. as approved. Line 1-2 was found to be S.  $74^{\circ} 30' 30''$  W., 1451.80 ft. instead of S.  $74^{\circ} 28'$  W., 1451.80 ft. as approved. Line 2-3 was found to be N.  $27^{\circ} 22' 30''$  W., 600.00 ft. instead of N.  $27^{\circ} 29'$  W., 600.00 ft. as approved. Line 4-1 was found to be S.  $27^{\circ} 22' 30''$  E., 600.00 ft. instead of S.  $27^{\circ} 29'$  W., 600.00 ft. as approved.

Sur. No. 3914 Pizarro lode: Cors. Nos. 1 and 2 were destroyed. Cors. Nos. 3 and 4 were destroyed. Cors. 3 and 4 were reestablished from lines 1-2 and 3-4 of Sur. No. 3110 Ontario No. 3 lode. From line 3-4 to line 4-1 is shown an angle of  $89^{\circ} 54'$ , 1500.00 ft. dist. Line 3-4 was found to be S.  $18^{\circ} 21' 30''$  W., 598.17 ft. dist., instead of S.  $18^{\circ} 15'$  W., 598.17 ft. dist. as approved. Line 4-1 was found to be S.  $71^{\circ} 32' 30''$  E., 1500.00 ft. dist. instead of S.  $71^{\circ} 39'$  E., 1500.00 ft. as approved. Tie from cor. No. 1 to the  $1/4$  sec. cor. of secs. 8 and 17 was found to be N.  $79^{\circ} 23' 10''$  W., 343.58 ft. dist. instead of N.  $78^{\circ} 55' 30''$  W., 342.85 ft. dist. as approved.

Sur. No. 3914 Daisy lode: Cor. No. 1 was destroyed. Cor. No. 2 was destroyed. Cors. Nos. 3 and 4 were destroyed. Cor. No. 1 is shown to be S.  $71^{\circ} 39'$  E., 600.00 ft. dist. from cor. No. 4 Sur. No. 3914 Pizarro lode. Cor. No. 2 is shown to be S.  $18^{\circ} 23'$  W., 599.21 ft. dist. from cor. No. 1. Cor. No. 3 is shown to be S.  $71^{\circ} 36'$  E., 1500.00 ft. dist. from cor. No. 2. Line 1-2 was found to be S.  $18^{\circ} 29' 30''$  W., 599.21 ft. dist. instead of S.  $18^{\circ}$



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23' W., 599.21 ft. as approved. Line 2-3 was found to be S.  $71^{\circ} 29' 30''$  E., 1500.00 ft. instead of S.  $71^{\circ} 36'$  E., 1500.00 ft. as approved. The tie from cor. No. 1 to the  $1/4$  sec. cor. of secs. 8 and 17 was found to be S.  $66^{\circ} 45'$  E., 561.59 ft. instead of S.  $67^{\circ} 13'$  E., 561.59 ft. as approved.

Sur. No. 3914, Look Out lode: Cors. Nos. 1 and 4 are identical with cors. Nos. 2 and 3 Sur. No. 3914 Daisy lode. Cors. Nos. 2 and 3 were destroyed.

Cor. No. 2 is shown to be S.  $18^{\circ} 23'$  W., 600.00 ft. from cor. No. 1. Line 1-2 was found to be S.  $18^{\circ} 29' 30''$  W., 600.00 ft. instead of S.  $18^{\circ} 23'$  W., 600.00 ft. as approved. Line 4-1 identical with line 2-3 Sur. No. 3914 Daisy lode.

Sur. No. 1032-A Producer lode: Cors. Nos. 1 and 4 were destroyed.

Cors. Nos. 2 and 3 are 4x6 in. pine post 3 ft. above ground in mound of stone, firmly set and properly mkd. Line 3-4 is shown to be at right angles to line 2-3. Line 2-3 was found to be N.  $31^{\circ} 30'$  W., 600.00 ft. instead of N.  $31^{\circ} 35'$  W., 600.00 ft. as approved. Line 3-4 was found to be N.  $58^{\circ} 30'$  E., 1500.00 ft. instead of N.  $58^{\circ} 25'$  E., 1500.00 ft. as approved.

Sur. No. 3376 Irving lode: Cor. No. 1 a 4x6 in. pine post 3 ft. above ground in mound of stone, firmly set and properly mkd. Cor. No. 2 identical with cor. No. 3 Sur. No. 1032-A Producer lode. Line 1-2 correct as approved.

Sur. No. 3376 Cordova lode: Cor. No. 2 a 4x6 pine post 3 ft. above ground in mound of stone, firmly set and properly mkd. Cor. No. 3 identical with cor. No. 1 Sur. No. 3376 Irving lode. Line 2-3 correct as approved.

## FIELD ASSISTANTS

Name	Capacity
Jay Markham	Chainman
Ed Coats	Chainman

SURVEY NO. 4421

Chains

<p>Cor. No. 3510 living fence. Cor. No. 1 and 2 are in ground in round of stone, firmly set and properly marked. Cor. No. 3 is shown to be in line with line 2-3. Line 2-3 was found to be 1. 319.301 W. 100.00 ft. and ahead of N. 31. 531 W. 100.00 ft. as approved. Line 2-4 was found to be 1. 319.301 W. 100.00 ft. as approved. Cor. No. 3510 living fence. Cor. No. 1 and 2 are in ground in round of stone, firmly set and properly marked. Cor. No. 3 is shown to be in line with line 2-3. Line 2-3 was found to be 1. 319.301 W. 100.00 ft. and ahead of N. 31. 531 W. 100.00 ft. as approved. Line 2-4 was found to be 1. 319.301 W. 100.00 ft. as approved.</p>	<p>Cor. No. 3510 living fence. Cor. No. 1 and 2 are in ground in round of stone, firmly set and properly marked. Cor. No. 3 is shown to be in line with line 2-3. Line 2-3 was found to be 1. 319.301 W. 100.00 ft. and ahead of N. 31. 531 W. 100.00 ft. as approved. Line 2-4 was found to be 1. 319.301 W. 100.00 ft. as approved.</p>
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FIELD ASSISTANTS

Geoffrey  
C. Graham  
C. Graham

W. H. ...  
L. ...  
L. ...



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

CERTIFICATE OF SURVEYOR

May 1, 1959, 19

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 20, 1959, I have faithfully and correctly executed the survey of the mining claim of Phelps Dodge Corporation

known as the Pilot, Moor, Alhambra, Cracker Jack, and Republic (Lode, placer, or mill site)

situate in Copper Mountain, mining district, Greenlee County, Arizona, Secs. 8, 17 & 18

T. 4 S., R. 29 E., Gila and Salt River Meridian, Arizona (State), and

designated as Survey No. 4481, 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 December 2, 1959 (Place) (Date)

The foregoing field notes of mineral survey No. 4481, in Sections 8, 17 and 18

T. 4 South, R. 29 East, Gila & Salt River Meridian,

Arizona, executed by Oscar T. Smith, Mineral Surveyor,

under order dated February 20, 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.

(Title)

1911

FORM NO. 1

THIS IS TO CERTIFY that the following

LAND OFFICE

OFFICE OF THE

COMMISSIONER

OF LANDS

OF THE STATE

OF ARIZONA

DOES HEREBY

CERTIFY

THAT

THE

SIGNATURE

OF THE

COMMISSIONER

OF LANDS

OF THE STATE

OF ARIZONA

IS

TRUE

AND

CORRECT

IN

ALL