

DEC-8 1923

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MINERAL SURVEY No. 3914

Arizona Land District

FIELD NOTES

OF THE SURVEY OF THE MINING CLAIM OF

Phelps Dodge Corporation

KNOWN AS THE

PIZARRO, MINNESOTA, DAISY, LOOK OUT, and ORGAN Lodes

Copper Mountain Mining District,

Greenlee County, Arizona

Section s 8 and 17, Township 4 S., Range 29 E. G.&S.R. M.

Surveyed under instructions dated September 5, 19 23

by J. N. Stevens U. S. Mineral Surveyor.

Claim located See location notices, 19

Survey commenced September 19, 19 23

Survey completed September 23, 19 23

Address of claimant Jos P. Hodgson, Agent and Atty. in fact for claimant Morenci, Arizona.

DATES OF AMENDED LOCATIONS.

Feet.

MINERAL SURVEY NO. 3914

PIZARRO Lode.

Beginning at Cor. No.1, identical with Loc. Mon. and Cor. No.1 Minnesota lode and Cor. No. 5 Daisy lode, both of this Sur.

A pine post 4 ins. sq by 4 ft. high, set firmly in the ground and surrounded with md. of stone 3 1/2 ft. base by 3 ft. high, scribed 5D, 1 P, 1 M - 3914, whence the 1/4 Cor. bet. Sec. 8-17 T. 4 S., R. 29 E brs. N. 78° 55' 30" W., 342.85 ft.

No other bearings are available.

Thence N.18°15' E.  
Va. 13° 30' E.

289.17 To E. end center.

An oak post 4 ins. diam. by 4 ft. high, set firmly in the ground and surrounded with md of stone 3 1/2 ft. base by 3 ft. high.,  
Scribed E. Cr. P.

598.17 To Cor. No.2, identical with Loc. Mon.

A pine post 4 ins sq by 4 ft. high, set firmly in the ground and surrounded with md of stone 3 1/2 ft. base by 3 ft. high, scribed 2 P - 3914.

Cor. Nos. 1-2 Sur. No.3110 Ontario Nos. 3 - 4 lodes, claimant herein brs. N.87°54'30" W., 641.6 ft.

No other bearings are available.

Thence N.71°39'W.  
Va. 13° 30' E.

441.44 Intersect line 1-2 Sur. No.3110 Ontario No.4 lode at N. 62°31'E., 250.46 ft. from Cor. No. 2 and S. 62°31'W., 1249.54 ft. from Cor. No.1

750.0 To N. side center Mon.

Sur. No.3110

800.93 Intersect lines 2-3 and 4-1, Ontario No.4 and Ontario No.3 lodes respectively at N.27°29'W., 257.86 ft. from Cor. Nos. 1-2 and S. 27°29' E., 342.14 ft. from Cor. Nos. 3-4.

1401.32 Intersect lines 1-2 and 3-4 Sur. No.3110 Ontario No.1 and Ontario No.3 lodes respectively at S.74°28'W., 427.6 ft. from Cor. Nos. 1-4 and N. 74°28'E., 1024.2 ft. from Cor. Nos 2-3.

1500.00 To Cor. No.3.

On surface of granite cliff 10 ft. high by 25 ft. long , chiseled with cross (x) 3 P- 3914, with md, of stone 3 ft. base by 2 1/2 ft. high alongside.

Feet.	MINERAL SURVEY NO. 3914 PIZARRO LODE- Cont'd.
	<p>Loc. Mon. brs. N. 71° 39' W., 3 ft.</p> <p>No other bearings are available.</p> <p>Thence S. 18° 15' W. Va. 13° 30' E.</p>
66.19	Intersect lines 1-2 and 3-4 Sur. No. 3110, Ontario Nos. 1 and 3 lodes respectively at S. 74° 28' W., 546.33 ft. from Cor. Nos. 1-4 and N. 74° 28' E., 905.47 ft. from Cor. Nos. 2-3.
300.00	<p>To W. end center.</p> <p>A pine post 4 ins. sq. by 4 ft. high, set firmly in the ground and surrounded with md. of stone 3 1/2 ft. base by 3 ft. high.</p> <p>Scribed W. Cr. P.</p>
598.17	<p>To Cor. No. 4</p> <p>A pine post 4 ins. sq. by 4 ft. high, set firmly in the ground and surrounded with md. of stone 3 1/2 ft. base by 3 ft. high, scribed 4 P - 3914.</p> <p>Loc. Mon. brs. N. 71° 39' W., 3.0 ft. Ontario No. 3 lode Cor. No. 1, Sur. No. 3110 brs. N. 82° 59' 30" E., 977.17 ft.</p> <p>No other bearings are available.</p> <p>Thence S. 71° 39' E., Va. 13° 30' E.</p>
259.83	Intersect line 1-2 Sur. No. 3110 Ontario No. 3 lode at S. 74° 28' W., 750.67 ft. from Cor. No. 1 and N. 74° 28' E., 701.13 ft. from Cor. No. 2 .
600.00	To Cor. No. 1 Daisy lode of this Sur., hereinafter described.
750.00	To S. end center Mon.
1500.00	To Cor. No. 1, the place of beginning.
	<p>MINNESOTA Lode.</p> <p>Beginning at Cor. No. 1, identical with Loc. Mon. and Cor. No. 1 Pizarro lode and Cor. No. 5 Daisy lode both of this Sur. heretofore described, whence the 1/4 Cor. Bet. Secs 8-17, T. 4 S., R. 29E., brs. N. 78° 55' 30" W., 342.85 ft.</p> <p>Thence S. 71° 36' E. Va. 13° 30' E.</p>
300.00	To S. end center.

Feet.

MINERAL SURVEY NO. 3914

MINNESOTA Lode- Cont'd.

A pine post 4 ins. sq by 4 ft. high, set firmly in the ground and surrounded with md. of stone 3 1/2 ft. base by 3 ft. high, scribed S. Cr. M.

600.00 To Cor. No.2, identical with Loc. Mon. and Cor. Nos. 1 and 4 , Organ and Daisy lodes respectively of this Sur., also Cor. No.22 Sur. No.1033 A. Arthur Lode, Claimant herein.

A pine post 4 ins sq by 4 ft. high, set firmly in the ground and surrounded with md of stone 3 1/2 ft. base by 3 ft. high , scribed 2 M., 4 D., 1 O.,-3914 and 22 A.,-1033 A.

No bearings are available.

Thence N. 18° 15' E.  
Va. 13° 30' E.

750.0 To E. side center Mon.

1488.4 To Cor. Nos.23-26, Sur.No.1033A., Arthur and General Miles lodes.

1500.00 To Cor. No.3, identical with Loc. Mon. and Cor. No.1 Sur. No.3414 South Dakota lode, claimant herein.

A pine post 4 x 6 ins. set firmly in the ground and showing 4 ft. above ground, scribed 3 M-3914 and 1 S D - 3414.

Cor. No.1 Sur. No.3110 Ontario No.4 lode brs.N. 73°21'W.,169.33 ft.

No other bearings are available.

Thence N. 71° 36' W.  
Va. 13° 30' E.

174.58 Intersect line 4-1 Sur. No.3110 Ontario No.4 lode at N. 27°29' W., 7.43 ft. from Cor. No.1.

300.00 To N. end center.

A pine post 3 ins. diam. by 4 ft. high, set firmly in the ground and surrounded with md of stone 3 1/2 ft. base by 3 ft. high Scribed N. Cr. M.

600.00 To Cor. No.4, identical with Loc. Mon. and Cor. No.2 Sur. No. 3414 South Dakota lode.

A pine post 4 x 6 ins. showing 4 ft. above ground, surrounded with md of stone 3 1/2 ft. base by 3 ft. high, scribed 4 M-3914 and 2 S D -3414

Feet.

## MINERAL SURVEY NO. 3914

## MINNESOTA Lode- Cont'd.

A porphyry ledge 15 ft. long by 5 ft. high, chiseled with cross (x)  
S D 2 - 3414 and 4 M - 3914, brs. S. 22° W., 5.2 ft.

No other bearings are available.

Thence S. 18° 15' W.  
Va. 13° 30' E.

448.17 Intersect line 1-2 Sur No. 3110 Ontario No. 4 lode at S. 62° 31' W.,  
617.1 ft. from Cor. No.1 and N. 62° 31' E., 882.9 ft. from Cor. No. 2  
750.00 To W. side center Mon.  
901.83 To Cor. No.2 Pizarro lode of this Sur. heretofore described.  
1201.83 To E. end center Pizarro lode of this Sur., heretofore described.  
1500.00 To Cor. No. 1, the place of beginning.

## DAISY Lode.

Beginning at Cor. No.1, On line 4-1 Pizarro lode of this Sur.

Lode of this Sur.

A pine post 4 ins. sq by 4 ft. high, set firmly in the ground and  
surrounded with md of stone 3 1/2 ft. base by 3 ft. high, scribed

1 D - 3914, whence the 1/4 Cor. bet. Secs. 8-17 T. 4 S. R. 29 E.

brs. S. 67° 13' E., 561.59 ft.

Loc. Mon. brs. N. 18° 23' E., 0.79 ft.

No other bearings are available.

Thence S. 18° 23' W.  
Va. 13° 30' E.

299.21 To W. end center.

A pine post 4 ins. sq by 4 ft. high, set firmly in the ground  
and surrounded with md of stone 3 1/2 ft. base by 3 ft. high, scribed

W. Cr. D.

599.21 To Cor. No.2, identical with Loc. Mon. and Cor. No.1 Look Out Lode  
of this Sur.

A pine post 4 ins. sq by 4 ft. high, set firmly in the ground  
and surrounded with md of stone 3 1/2 ft. base by 3 ft. high,

Scribed 2 D, 1 L O - 3914.

Cor. No.1 Sur. No.1032 A. Producer lode brs. N. 81° 03' E., 24.14  
ft.

No other bearings are available.

Feet.	MINERAL SURVEY NO. 3914
	DAISY Lode - Cont'd.
	Thence S. 71° 36' E. Va. 13° 30' E.
12.10	Intersect line 3-4 Sur. No.1032 A. producer lode at S. 58° 30' W., at 14.49 ft. from Cor. No. 4
34.60	Intersect line 4-1 Sur. No.1032 A. Producer lode at S. 31° 30' E., 17.21 ft. from Cor. No.4
1500.00	To Cor. No. 3, identical with Loc. Mon. and Cor. No. 4 Look Out lode of this Sur. On line 4-1 Organ lode of this Sur.  A pine post 4 ins. sq. by 4 ft. high, set firmly in the ground and surrounded with md. of stone 3 1/2 ft. base by 3 ft. high , scribed 3 D, 4 L O - 3914.  No bearings are available  Thence N. 16° 23' E. Va. 13° 30' E.
300.00	To E. end center.  A pine post 4 ins. sq. by 4 ft. high, set firmly in the ground and surrounded with md. of stone 3 1/2 ft. base by 3 ft. high, scribed E. Cr. D.
600.00	To Cor. No. 4, identical with Loc. Mon. and Cor. Nos. 2-1 Minnesota and Organ lodes respectively of this Sur. also Cor. No.22 Sur. No. 1033 A. Arthur lode., heretofore described.  Thence N. 71° 36' W. Va/ 13° 30' E.
300.00	To S. end center Minnesota lode of this Sur., heretofore described.
600.00	To Cor. No.5, identical with Cor. Nos. 1-1, Minnesota and Pizarro lodes of this Sur., heretofore described.  Thence N. 71°39' W. Va. 13° 30' E.
750.00	To S. side center Mon. Pizarro lode of this Sur.
900.00	To Cor. No. 1, the place of beginning.
	LOOK OUT Lode.
	Beginning at Cor. No. 1, identical with Loc. Mon. and Cor. No.2 Daisy lode of this Sur., heretofore described, whence the 1/4 Cor. Bet. Secs 8 - 17 T. 4 S. R. 29 E., brs. N.63°34'50"E., 789.16 ft.

Feet.	MINERAL SURVEY NO. 3914
	LOOK OUT Lode - Cont'd.
	Cor. No.4 Sur. No.1032 A. Producer lode brs. N. 81° 03'E., 24.14 ft.
	No other bearings are available.
	Thence S. 18° 23' W. Va. 13° 30' E.
14.36	Intersect line 3-4 Sur. No.1032A Producer lode at S. 58° 30' W.,
	33.27ft. from Cor. No.4
300.00	To W. end center.
	A pine post 4 ins. sq by 4 ft. high, set firmly in the ground and surrounded with md. of stone 3 1/2 ft. base by 3 ft. high, scribed W. Cr. L O.
600.00	To Cor. No. 2, identical with Loc. Mon.
	A pine post 4 ins. sq by 4 ft. high, set firmly in the ground and surrounded with md. of stone 3 1/2 ft. base by 3 ft. high, scribed 2 L O-3914.
	Cor. Nos. 1 and 2, Sur. Nos. 1032 A and 3376 Producer and Granada lodes respectively brs. N. 83° 20' E., 530.15 ft.
	No other bearings are available.
	Thence S. 71° 36' E. Va. 13° 30' E.
291.06	Intersect lines 1-2 Sur. No.1032 A Producer and Sur. No.3376
	Granada lodes at S.58°30' W., 293.65 ft. from Cor. Nos. 1 and 2 Producer and Granada lodes respectively.
746.95	Intersect line 2-3 Sur. No.3376 Granada lode at S. 31° 30' E., 348.72
	ft. from Cor. No. 2 and N. 31° 30' W., 251.28 ft. from Cor. No.3.
1075.46	Intersect line 1-2 Sur. No.3376 Prescott lode at S. 58° 30' W.,
	235.4 ft. from Cor. No.2 and N. 58° 30' E., 1264.6 ft. from Cor.
	No. 1
1440.92	Intersect line 2-3 Sur. No.3376 Prescott lode at S. 31° 30' E.,
	279.55 ft. from Cor. No.2. and N.31° 30' W.,320.45 ft. from Cor.No.3
1500.00	To Cor. No.3, identical with Loc. Mon. and on line 4-1 Organ lode
	of this Sur.
	A pine post 4 ins. sq by 4 ft. high, set firmly in the ground and surrounded with md of stone 3 1/2 ft. base by 3 ft. high, scribed
	3 L O- 3914

Feet.

MINERAL SURVEY NO.3914  
LOOK OUT Lode - Cont'd.

Cor. No.2 Sur. No.3376 Prescott lode brs.H.  $38^{\circ} 11' W.$ , 326.96ft.

No other bearings are available.

Thence N.  $18^{\circ} 23' E.$

Va.  $13^{\circ} 30' E.$

300.00 To E. end center.

A pine post 4 ins. sq by 4 ft. high, set firmly in the ground and surrounded with md. of stone  $3 \frac{1}{2}$  ft. base by 3 ft. high,

Scribed E. Cr. L O.

600.00 To Cor. No.4, identical with Loc. Mon. and Cor. No. 3 Daisy lode of this Sur., heretofore described.

Thence N.  $71^{\circ} 36' W.$

Va.  $13^{\circ} 30' E.$

1465.40 Intersect line 4-1 Sur. No.1032 A Producer lode at S.  $31^{\circ} 30' E.$ , 17.21 ft. from Cor. No.4 and N.  $31^{\circ} 30' W.$ , 582.79 ft. from Cor. No.1.

1487.90 Intersect line 3-4 Sur. No.1032 A Producer lode at S.  $58^{\circ} 30' W.$ , 14.49 ft. from Cor. No.4.

1500.00 To Cor. No. 1, the place of beginning.

ORGAN Lode.

Beginning at Cor. No.1, identical with Loc. Mon. and Cor. Nos.2 and 4 Minnesota and Daisy lodes respectively of this Sur. and Cor. No.22 Sur. No.1033 A, Arthur lode, heretofore described, whence the  $\frac{1}{4}$  Cor. bet. Secs. 8-17 T. 4 S., R. 29 E. brs. N.  $74^{\circ} 15' 45'' W.$ , 941.08 ft.

Thence S.  $71^{\circ} 40' E.$

Va.  $13^{\circ} 30' E.$

300.00 To N. end center, identical with S. end Center Sur. No.1033 A Arthur lode.

A pine post 4 ins. sq by 4 ft. high, set firmly in the ground and surrounded with md of stone  $3 \frac{1}{2}$  ft. base by 3 ft. high, scribed N. Cr. O and S Cr. A.

600.00 To Cor. No.2, identical with Loc. Mon. and Cor. No.21 Sur. No.1033 A Arthur lode, on line 3-4 Sur. No.3413 Tough Nut lode, claimant herein at S.  $18^{\circ} 23' W.$ , 100.0 ft. from Cor. No.4

A pine post 4 ins sq by 4 ft. high, set firmly in the ground and



Feet.

## MINERAL SURVEY NO. 3914

## ORGAN Lode - Cont'd.

surrounded with md. of stone 3 1/2 ft. base by 3 ft. high, scribed  
2 0 - 3914 and 21 A-1033 A.

U.S.L.M. No.1654 brs. S.79°31'30" E., 2823.7 ft.

No other bearings are available.

Thence S. 18° 23' W.

Va. 13° 30' E.

1153.60 Intersect line 3-4 Sur. No.3413 Owl lode, claimant herein, at  
N.76°55'E., 485.4 ft. from Cor. No.3.

1384.60 To Cor. No.3 Sur. No.3413 Tough Nut lode.

1406.62 To Cor. No.3.

A pine post 4 ins. sq. by 4 ft. high, set firmly in the ground  
and surrounded with md of stone 3 1/2 ft. base by 3 ft. high,  
scribed 3 0-3914.

Loc. Mon. brs. S. 18°23' W., 94 ft.

No other bearings are available.

Thence N. 71°40' W.

Va. 13° 30' E.

300.00 To S. end center.

A pine post 4 ins. sq. by 4 ft. high set firmly in the ground  
and surrounded with md. of stone 3 1/2 ft. base by 3 ft. high,  
scribed S. Cr. 0.

414.02 To Cor. No.3 Sur. No.3413 Owl lode, and Cor. Nos.2 and 3 Sur. No.  
3376 Armada and Prescott lodes respectively.

600.00 To Cor. No.4.

A pine post 4 ins. sq. by 4 ft. high, set firmly in the ground  
and surrounded with md of stone 3 1/2 ft. base by 3 ft. high,  
scribed 4 0-3914.

Loc. Mon. brs. S. 18°23' W., 94 ft.

No other bearings are available.

Thence N. 18° 23' E.

Va. 13° 30' E.

156.86 Intersect line 2-3 Sur. No.3376 Prescott lode at N.31°30' W., 243.2  
ft. from Cor. No.3 and S. 31°30' E., 356.8 ft. from Cor. No.2

206.62 To Cor. No.3 Look Out lode of this Sur., heretofore described.

Feet.

MINERAL SURVEY NO. 3914

ORGAN Lode - Cont' d

- 806.62 To Cor. Nos 4 and 3 Look Out and Daisy lodes respectively of this Sur., heretofore described
- 1106.62 To E. end center Daisy lode of this Sur., heretofore described.
- 1406.62 To Cor. No.1, the place of beginning.

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LODE LINES.

As near as can be determined from the present developments, the veins of the several locations embraced in this claim, extend as follows from their respective discovery points:-

- Pizarro lode, 600 ft. S. 71° 39' E., and 900 ft. N. 71° 39' W.
- Minnesota lode, 100 ft. S. 18° 15' W., and 1400 ft. N. 18° 15' E.
- Daisy lode, 750 ft. S. 71° 36' E., and 750 ft. N. 71° 36' W.
- Look Out lode, 410 ft. S. 71° 36' E., and 1090 ft. N. 71° 36' W.
- Organ lode. 175 ft. S. 18° 23' W., and 1231.62 ft. N. 18° 23' E.

AREA.

	Acres	Acres
Total area Pizarro lode-----		20.598
Area in conflict with,		
Sur. No. 3110, Ontario No. 1 lode-----	0.075	
Sur. No. 3110, Ontario No. 3 lode-----	3.683	
Sur. No. 3110, Ontario No. 4 lode-----	0.741	
Total area Minnesota lode-----		20.661
Area in conflict with:-		
Sur. No. 3110, Ontario No. 4 lode-----	2.241	
Total area Daisy lode -----		20.653
Area in conflict with:-		
Sur. No. 1032 A Producer lode-----	20.003	
Total area Look Out lode-----		20.661
Area in conflict with:-		
Sur. No. 1032 A Producer lode-----	4.205	
Sur. No. 3376 Granada lode-----	1.175	
Sur. No. 3376 Prescott lode-----	0.755	
Total area Organ lode-----		19.375
Area in conflict with:-		
Sur. No. 3376 Prescott lode-----	0.335	
Sur. No. 3413 Owl lode-----	1.202	

## MINERAL SURVEY NO. 3914

The survey of each lode of this location is identical with the respective locations as staked upon the ground, except as shown in the above field notes.

## LOCATION.

This survey is located in the S 1/2 Sec. 8 and the N. 1/2 Sec. 17, T. 4 S., R. 29 E., in the Copper Mountain Mining District, Greenlee County, Arizona.

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## EXPENDITURE OF FIVE HUNDRED DOLLARS.

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

## PIZARRO Lode.

No.1, the discovery point, on the lode line 600 ft. from point on line 1-2 at N. 18°15' E., 298.17 ft. from Cor. No.1. A md of stone on cropping.

No value.

No.2 A cut, the mouth of which brs. from Cor. No.1 N.31° W., 120 ft. 4 1/2 ft. wide, 8 ft. face, running N. 18° E., 20 ft. to face.

Value \$100.00

No.3 A cut, the mouth of which brs. from Cor. No.1 N. 31° W., 50 ft. 4 1/2 ft. wide, 8 ft. face, running N.5° E., 20 ft. to face.

Value \$100.00

An undivided 1/5 interest in improvement No.2, Look Out lode, hereinafter described, credited to this lode.

Value \$600.00

## MINNESOTA Lode.

No.1, the discovery point, on the center line 100 ft. from the center of line 1-2. A monument of stone on cropping.

No value.

No.2, A tunnel, the mouth of which brs. from Cor. No.1 N. 61° E., 200 ft. 4 x 6 ft. running N. 5° W., 90 ft. to face.

Value \$900.00

An undivided 1/5 th interest in improvement No.2, Look Out lode, hereinafter described, credited to this lode.

Value \$600.

MINERAL SURVEY NO. 3914

REPORT -- Cont'd.

DAISY Lode.

No.1, the discovery point, on the lode line, 750 ft. from the center of line 3-4. A monument of stone, on cropping.

No value.

No.2 A tunnel, the mouth of which brs. from Cor. No.4 N. 82° W., 725 ft., 4 x 6 ft. running N. 75° W., 100 ft. to face.

Value \$1000.00

No.3, A shaft, the center of which brs. from Cor. No.4 N. 78° W., 810 ft. 4 x 6 ft., 40 ft. deep.

Value \$400.00

No.4, A shaft, the center of which brs. from Cor. No.1 S. 63° 30' E., 420 ft. 4 x 6 ft., 40 ft. deep.

Value \$400.00

No.5, A tunnel, the mouth of which brs. from Cor. No.3 N. 41° 45' W., 275 ft. 4 x 6 ft. running S. 41° 30' W., 50 ft. to face.

Value \$500.00

No.6, A trench 6 ft. wide, 6 ft. deep, the east end of which brs. from Cor. No.3 N. 64° 30' W., 300 ft. running N. 70° W., 25 ft.

Value \$ 300.00

An undivided 1/5 interest in improvement No.2 Look Out lode, hereinafter described, credited to this lode.

Value \$600.00

LOOK OUT Lode.

No.1, the discovery tunnel, the mouth of which being the discovery point is on the center line, 410 ft. from the center of line 3-4 4 x 6 ft. running N. 3° E., 20 ft. to face.

Value \$200.00

No.2, A tunnel, the mouth of which brs. from Cor. No.3 N. 58° 15' W., 390. ft. 4 x 6 ft. running N. 5° E., 300 ft. to face.

Total value \$3000.00

This tunnel is a practicable and feasible main working tunnel in the course of construction for the development of the five claims of this group, consisting of the Pizarro, Minnesota, Daisy, Look Out, and Organ lodes, as by drifting and cross-cutting therefrom in different directions towards and under the several mentioned claims

## MINERAL SURVEY NO. 3914

## EXPENDITURE OF FIVE HUNDRED DOLLARS - Cont'd.

the entire group may be advantageously developed and ore extracted therefrom, as all the discoveries are from 100 to 400 ft. above the present floor of this tunnel.

This improvement is therefore a common improvement for the benefit of each of the five mentioned claims.

An undivided  $1/5$  interest in this tunnel, value \$600.00 is properly accredited to each of the above mentioned claims.

## ORGAN Lode.

No. 1 The discovery point on the center line, 175 ft. from the center of line 3-4, A monument of stone on cropping.

No value.

No. 2 A tunnel, the mouth of which hrs. from Cor. No. 3 N.  $52^{\circ}15'$  W., 225 ft. 4 x 6 ft. running N.  $8^{\circ}$  W., 90 ft. to face.

Value \$900.00

No. 3 A shaft, the center of which hrs. from Cor. No. 1 S.  $9^{\circ}30'$  W., 150 ft. 4 x 6 ft. 8 ft. deep.

Value \$80.00

No. 4 A tunnel, the mouth of which hrs. from Cor. No. 1 S.  $12^{\circ}$  W., 580 ft., 4 x 6 ft. running S.  $70^{\circ}$  E., 65 ft. to face.

Value \$650.00

An undivided  $1/5$  interest in improvement No. 2 Look Out lode, heretofore described, credited to this lode.

Value \$600.00

## INSTRUMENT.

This survey was made with a Gurley mountain transit, the courses were deflected from the true meridian, as determined by direct solar observations. The distances were measured with a 500 ft. steel tape.

## REPORT

The lode line of each location of this claim was run directly upon the ground, and the corners were established by running around the claims.

The  $1/4$  Cor. bet. Secs. 8-17 T. 4 S., R. 29 E. consists of an iron post with brass cap on top, properly set and stamped  $1/4$  S-8 -S 17.

MINERAL SURVEY NO. 3914

REPORT - Cont'd.

U.S. L.M. No.1654 is a pine post 6 ins. sq. by 8 ft. high, surrounded with md. of stone 6 ft. base by 4 1/2 ft. high, scribed U.S. L.M. No. 1654.

Sur. No.3110 Ontario No.1, Ontario No.3 and Ontario No.4 lodes.

All corners consist of pine posts, properly set and scribed with the number of the corner and the survey, except Cor.No.1, Ontario No.4 lode of which no evidence remains of its location. The conflict with this survey was therefore calculated from the records.

Sur. No.3414 South Dakota lode. All corners are pine posts 4 x 6 ins.4 ft. high, properly set and scribed with the number of the corner and the survey. I find line 1-2 to be correct as approved.

Sur. No.1033 A. General Miles and Arthur lodes. All corners consist of pine posts 4 ins. sq. properly set and scribed with the number of the corner and the survey. Line 22-23 Arthur lode fails to furnish the course and distance as approved (N.18°20'E.,1500 ft.) and same is properly given in these field notes.

Sur. No.3413 Tough Nut and Owl lodes. All corners consist of pine posts properly set and scribed with the number of the corner and the survey, I find all courses and distances to be correct as approved.

Sur. No.3376 Prescott and Granada lodes. All corners consist of pine posts properly set and scribed with the number of the corner and the survey. I find all courses and distances to be correct as approved.

Sur. No.1032 A Producer lode. All that remains of Cor.Nos.4-3 are mds.of stone. I find line 4-1 to be correct as approved.

Cor. Nos.1-2 are both pine posts 4 x 6 ins. 4 ft. high, properly set and scribed with the number of the corner and the Sur.

## MINERAL SURVEY NO. 3914

## ADJOINING CLAIMS.

On the north by Sur. No. 3110, Ontario Nos. 1-3 and 4 lodes, Sur. No. 3414 South Dakota lode, and Sur. No. 1033 A. Arthur lode.

On the east by Sur. No. 1033 A. General Miles and Arthur lodes and Sur. No. 3413 Tough Nut lode.

On the south by Sur. No. 3413 Owl lode, Sur. No. 3376 Armada, Prescott, and Granada lodes and Sur. No. 1032 A. Producer lode.

On the West by Sur. No. 1032 A. Producer lode, Alhambra, and Pilot lodes, unsurveyed and Sur. No. 3110 Ontario Nos. 1 and 3 lodes.

All belonging to claimant herein.

## SOLAR OBSERVATION.

*do not include in transcript.*

Direct solar observation taken Wednesday, Sept. 19, 1923 at 9:33 AM solar time. Sun bisected. - Lat.  $33^{\circ} 05'$  Lon.  $109^{\circ} 23'$

Difference in time 4 h 50m. Apparent declination  $-1^{\circ} 47' 4.2''$   
 $4' 39''$   
 Dec'l =  $1^{\circ} 42' 25''$

P = 90 - Dec'l =  $88^{\circ} 17' 35''$

L =  $33^{\circ} 05'$   
 H =  $45^{\circ} 03'$   
 P =  $88^{\circ} 17' 35''$   
 $2) 166^{\circ} 25' 35''$   
 S =  $83^{\circ} 12' 47''$

$$\sin \frac{1}{2} A = \sqrt{\frac{\sin (S-L) (S-H)}{\cos L \cos H}}$$

S-L =  $50^{\circ} 07' 47''$  ✓ - 9.8850771 ✓  
 S-H =  $38^{\circ} 09' 47''$  ✓ - 9.7909192 ✓  
 0.0768195 ✓  
 0.1508947 ✓  
 2) 19.9037105  
 9.9518552 -  $63^{\circ} 31'$  =  $\frac{1}{2} A$   
 $127^{\circ} 02'$  = A.  
 $180^{\circ} - 127^{\circ} 02' = S. 52^{\circ} 58' E$  = Course of sun.  
 $71^{\circ} 21'$  = Ang. to right from Sun.  
 $S. 18^{\circ} 23' S$  = Course of line.

Set up at Cor. No. 1 Look Out - F S to Cor. No. 2

# FINAL OATHS FOR SURVEYS.

## LIST OF NAMES.

A list of the names of the individuals employed by T. N. Stevens

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 \_\_\_\_\_

Phelps Dodge Corporation

known as the PIZARRO, MINNESOTA, DAISY, LOOK OUT, and ORGAN Lodes

and showing the respective capacities in which they acted.

John H. Dexter, Chainman.

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

\_\_\_\_\_, Axman.

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

## FINAL OATHS OF ASSISTANTS.

We, I, John H. Dexter

~~and~~ \_\_\_\_\_, do solemnly swear that <sup>I</sup>we assisted \_\_\_\_\_

T. N. Stevens, United States Mineral Surveyor, in marking the corners and surveying the boundaries of the mining claim of Phelps Dodge Corporation

known as the PIZARRO, MINNESOTA, DAISY, LOOK OUT, and ORGAN 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 <sup>my</sup>our knowledge and belief, faithfully and correctly executed, and the corner and boundary monuments established according to law and the instructions furnished by the United States Surveyor-General for Arizona.

John H. Dexter, Chainman.

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

\_\_\_\_\_, Axman.

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

Subscribed and sworn to by the above-named persons before me this 6th

day of December, 1923

My Commission Expires June 4, 1924

Label M. Linder  
Notary Public



4-686.

# FINAL OATH OF U. S. MINERAL SURVEYOR.

I, T. N. Stevens, U. S. Mineral Surveyor, do solemnly swear that, in pursuance of instructions received from the United States Surveyor General for Arizona, dated September 5 1923, I have, in strict conformity to the laws of the United States, the official regulations and instructions thereunder, and the instructions of said Surveyor General, faithfully and correctly executed the survey of the Mining Claim of Phelps Dodge Corporation, known as the PIZARRO, MINNESOTA, DAISY, LOOK OUT, and ORGAN Lodes, situate in Copper Mountain Mining District, Greenlee County, Arizona, in Sections 8 and 17, Township No. 4 S., Range No. 29 E. G. & S. R. M., and designated as Survey No. 3914, 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 Surveyor General with said instructions, and that all the 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.

*T. N. Stevens*

U. S. Mineral Surveyor.

Subscribed and sworn to by the said T. N. Stevens  
 U. S. Mineral Surveyor, before me Isabel M. Lander  
 a Notary Public this 6th  
 day of December, 1923

My Commission Expires June 4, 1924

Isabel M. Lander  
 Notary Public

(4-688.)

U. S. SURVEYOR GENERAL'S FINAL CERTIFICATE ON  
FIELD NOTES.

DEPARTMENT OF THE INTERIOR,  
OFFICE OF U. S. SURVEYOR GENERAL,

Phoenix, Arizona.

February 25, 1924.

I, U. S. Surveyor General for District of Arizona,  
do hereby certify that the foregoing transcript of the Field Notes, return and approval  
of the Survey of the mining claim of

Phelps Dodge Corporation,  
known as the PIZARRO, MINNESOTA, DAISY, LOOK OUT, and  
ORGAN lodes, situate in Copper Mountain

Mining District, Greenlee County,  
Arizona, in Sections 8 and 17, Township No. 4 S.,  
Range No. 29 E., and designated as Survey

No. 3914, 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.

And I further certify that five hundred dollars' worth of labor has been expended  
or improvements made upon said mining claims <sup>or for each of</sup> by claimant or its grantors, and  
that said improvements consist of 1 trench, 2 cuts, 3 shafts, and 7  
tunnels, total value \$8530.

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.

Charles M. Donahoe

United States Surveyor General for Arizona.

4-687

**SURVEYOR GENERAL'S CERTIFICATE OF APPROVAL OF FIELD NOTES  
AND SURVEY OF MINING CLAIM**

**DEPARTMENT OF THE INTERIOR  
OFFICE OF U. S. SURVEYOR GENERAL**

.....Phoenix, Arizona,.....

.....February 25....., 1924

I, U. S. Surveyor General for .....District of Arizona.....

do hereby certify that the foregoing and hereto attached Field Notes and Return of the Survey of the  
Mining Claim of .....

.....Phelps Dodge Corporation.....

....., known as the

.....PIZARRO, MINNESOTA, DAISY, LOOK OUT, and ORGAN lodes.....

situate in .....Copper Mountain..... mining district,

.....Greenlee..... County, .....Arizona.....

in Section s 8 and 17....., Township No. ....4 S. ...., Range No. ....29 E. ....

....., designated as Survey No. ....3914.....

executed by .....T. N. Stevens....., U. S. Mineral

Surveyor, .....September 19 = 23....., 1923, under my instructions dated

.....September 5....., 1923, 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.

*Charles M. Donohoe*

U. S. Surveyor General for .....Arizona.....