

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

MINERAL SURVEY NO. 4441

Arizona Land District.

FIELD NOTES

Of The Survey Of The Mining Claim Of

Phelps Dodge Corporation

Known As The

Redwall No. 66 (placer)

Verde Mining District,

Yavapai County, Arizona

Section 20, Township 16 North, Range 2 East, G. & S. R. M.

Surveyed under order dated October 29, 1957

by Richard L. Merritt
Mineral Surveyor.

Claim located November 7, 1955

Survey commenced November 15, 1957

Survey completed November 29, 1957

Address of claimant Evans, Kitchell and Jenckes, Attorneys
Phoenix, Arizona

DATES OF AMENDED LOCATIONS

Survey No. 4441

Chains Feet	<p>This survey was made with a Gurley transit No. 50962, with horizontal limb 6.25 ins. diam., having two double opposite verniers and full vertical circle 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.</p> <p>All azimuths in this record were determined by the method of deflection angles referred to the meridian determined by the following observations:</p> <p>November 22, 1957; at cor. No. 1 of the Redwall No. 66 placer, in latitude $34^{\circ} 45' N.$ and longitude $112^{\circ} 08' 50'' W.$, I made 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 the opposite limbs of the sun and reading the horizontal angle from cor. No. 4 of Redwall No. 66 placer to the right to the sun.</p> <p>Mean time of observation, 105 meridian standard time 10h26m30s a.m.</p>
Area 00.00	<p>Declination of sun at mean time of observation $-20^{\circ} 11' 10'' S.$</p> <p>Mean observed vertical angle to sun's center $-29^{\circ} 28' 52''$</p> <p>Mean horizontal angle from cor. No. 4 to sun's center $-105^{\circ} 58' 20''$</p> <p>True Bearing line 1-4 of Redwall No. 66 placer $N. 0^{\circ} 02' W.$</p> <p>The lines were measured with a Lufkin steel tape, 300 ft. in length, graduated every foot, the first and last foot being graduated to tenths and hundredths. The tape was compared with a Lufkin standard tape at the time of beginning the survey and found to be correct.</p> <p>The magnetic declination observed at each corner of the survey gave a uniform value of $15^{\circ} E.$</p>
1320.0	<p style="text-align: center;">REDWALL NO. 66 (PLACER)</p> <p>Beginning at cor. No. 1 of the Redwall No. 66 placer, identical with the southwest cor. of sec. 21, T. 16 N., R. 2 E., Gila and Salt River Meridian, an iron post with a brass cap, 2 ins. diam., 18 ins. above ground, firmly set, marked and witnessed as described in the official record.</p> <p style="text-align: center;">Thence West</p> <p>223.0 Center of road, bears $S. 61^{\circ} 00' E.$ and $N. 61^{\circ} 00' W.$</p> <p>660.0 Cor. No. 2.</p> <p>Set a granite stone, 36x12x6 ins., 18 ins. in the ground, mkd. X 2 R 66 - 4441.</p> <p style="text-align: center;">Thence $N. 0^{\circ} 02' W.$</p> <p>1320.0 Cor. No. 3.</p>

Survey No. 4441

Chains Feet		
	Set a malapais stone, 30x12x8 ins., 16 ins. in the ground, mkd. X R 66 - 4441.	3
	Thence East	
660.00	Cor. No. 4.	
	Set a limestone, 36x12x4 ins., 18 ins. in the ground, mkd. X 4 R 66 - 4441, from which	
	A limestone, 5x2.5 ft., 8 ins. above the ground, bears N. 60° 49' W., 22.51 ft., mkd. X.B.R. 4 R 66 - 4441.	
	A limestone, 6x10 ft., 5 ft. above the ground, bears S. 53° 41' W., 49.44 ft., mkd. X.B.R. 4 R 66 - 4441.	
	Thence S. 0° 02' E.	
493.0	Center of road, bears N. 87° E., and S. 87° W.	
1320.0	Cor. No. 1, and place of beginning.	

AREAS

Acres

Total area, Redwall No. 66 placer

20.00

LOCATION

This survey is located in the $SE\frac{1}{4}SE\frac{1}{4}$ of sec. 20, T. 16 N., R. 2 E., Gila and Salt River Meridian, unsurveyed, within the Prescott National Forest.

The survey of the Redwall No. 66 placer is identical with location or amended location as marked on the ground. The location monuments, all mounds of stone, 3 ft. base by 3 ft. high, were rebuilt alongside.

EXPENDITURES

The improvements and the value of the labor and improvements made upon or for the benefit of the placer location embraced in said mining claim by the claimant or its grantors are as follows:

No. 1. An interest in a common improvement described as follows:

An incline diamond drill hole, the center of which bears N. 81° 58' W., 294.60 ft. from cor. No. 1 of the Redwall No. 66 placer. The course of this drill hole is S. 81° E. and the vertical angle measured from the horizontal is 60°; the depth measured on the incline is 1115.0 ft. The diam. varies as follows: surface to 15.0 ft., depth 3 5/8 ins., 15.0 ft. depth to 306.0 ft. depth, 3 ins., 306.0 ft. depth to 700.0 ft. depth, 2 3/8 ins., 700.0 ft. depth to bottom 1115.0 ft. depth, 1 7/8 ins.

Value, \$12,188.54

Survey No. 4441

Chains
Feet

From the common improvement of this claim, the common improvements on Redwall No. 48, No. 41 and No. 40, placers of Survey No. 4440 and the common improvements on 69 Redwall placers, listed below, patented under Patent No. 1172648, all contiguous placer claims owned in common.

\$500. is credited to the placer of this claim.

Contiguous Patented Redwall Placer Claims of the Group

Redwall No. 39 through 39 inclusive

Redwall No. 42 through 47 inclusive

Redwall No. 49 through 65 inclusive

Redwall No. 67 through 73 inclusive

The common improvements as done on this group, and their total cost, and that portion of their total cost that was applied towards the group improvement is as tabulated below:

Item	Total Cost	Applied Cost	Difference
Diamond Drill Hole R-1	\$ 1,713.40	\$ 1,713.40	\$ 0
" " " R-2	1,314.20	1,314.20	0
" " " R-3	1,904.80	1,904.80	0
" " " R-4	1,849.20	1,849.20	0
" " " R-5	1,826.70	1,826.70	0
" " " R-6	1,484.10	1,484.10	0
" " " R-7	1,582.00	1,582.00	0
" " " R-8	1,838.70	1,838.70	0
" " " R-9	1,378.70	1,378.70	0
" " " R-10	1,822.00	1,822.00	0
" " " R-11	12,188.54	3,466.24	8,722.30
" " " R-12	954.30	954.30	0
" " " R-13	709.40	709.40	0
" " " R-14	1,586.10	1,586.10	0
" " " R-15	1,614.00	1,614.00	0
" " " R-16	1,780.40	1,780.40	0
" " " R-17	3,177.06	3,177.06	0
Construction of drill roads	<u>6,725.00</u>	<u>6,725.00</u>	<u>0</u>
	\$45,448.60	\$36,726.30	\$8,722.30

These statements are fully conformable with the intentions of the applicant as stated in the patent application of the 69 patented claims of the Redwall Group, as quoted below:

"The locations of each of the diamond drill holes and of the new roads constructed and old roads improved are shown on the map attached hereto as Exhibit 3 and by this reference made a part hereof. All of said work and improvements was done for the benefit of the group of claims for which patent is herewith applied, together with Redwall unpatented placer mining claims numbered 40, 41, 48 and 66, which were located by and at all times have been and now are owned and held by Phelps Dodge Corporation, as a part of the general system for prospecting, exploring and developing said claims as a contiguous group and all of said work and improvements was located, done and performed to benefit each claim in the amount of not less than \$500. The total cost and value of said work and improvements was in the amount of not less than \$36,726.30, of which amount \$2,000.00 is allocated for the

Survey No. 4441

Chains

Feet for the benefit of said Redwall unpatented placer mining claims numbered 40, 41, 48 and 66 and the balance, namely, \$34,726.30 is allocated for the benefit of the placer mining claims for which patent is herewith applied."

For clarification of these statements and facts, an engineering map of the Redwall Claims is herewith attached.

For clarification of the proportioning of monies expended on diamond drill hole number R-11 it is herewith pointed out that this hole was drilled at a predetermined inclination and bearing so that it would pass beyond the Redwall No. 66 claims south boundary at a point within the Martin dolomite. This first 445 ft. of R-11, drilled at a cost of \$3,466.24, tested the thickness, and gave samples for analyses of, the favorable Redwall Mississippian limestone, and was applied as a common improvement to the development of the 73 placers of the Redwall group. The remaining 670 ft. of the hole, drilled at a cost of \$8,722.30, was directed to test a potential mineral deposits target in the underlying pre-Cambrian schist to the south that is situated on unpatented lode claims that are contiguous and of common ownership. This latter expenditure was reserved to the future credit of these unpatented lode claims and was in no way claimed or used as an improvement to the placer claim or claims herein under consideration.

OTHER IMPROVEMENTS

None.

OTHER CORNER DESCRIPTIONS AND SUPPLEMENTAL DATA

None.

FIELD ASSISTANTS

William R. Amburn

Capacity Chairman

Keith Bunn

Chairman

DESCRIPTIVE REPORT ON REDWALL NO. 66 PLACER
SURVEY NO. 4441

CHESSE

The soil of Redwall No. 66 placer is clay and limestone. Vegetation consists of a few cedar trees and oak brush. No streams traverse the area embraced in this claim.

The character, extent and position of all surface and underground workings for mineral purposes and their cost is as follows:

No. 1

The incline diamond drill hole, the center of which bears N. 81° 58' W., 294.60 ft. from Cor. No. 1, Redwall No. 66 placer. The course of this drill hole is S. 81° E. and the vertical angle measured from the horizontal is 60°; the depth measured on the incline is 1115.0 ft. The diam. varies as follows: surface to 15.0 ft. depth, 3 5/8 ins., 15.0 ft. depth to 306.0 ft. depth, 3 ins., 306.0 ft. depth to 700.0 ft. depth, 2 3/8 ins., 700 ft. depth to bottom 1115.0 ft. depth, 1 7/8 ins.

Value \$12,188.54

The nearest center of trade is the town of Jerome, Arizona, which lies northeasterly 2.1 miles from this claim. Jerome is on State Highway 89-A, 33 miles from Prescott, the county seat of Yavapai County, Arizona.

This claim does not conflict with any patented or unpatented claims. A great number of patented claims lie to the northeast, east, and southeast of this claim. These claims comprise the Verde Mining District, one of the oldest and most highly developed districts in the State of Arizona. The approximate center of the Verde Mining District lies 1.5 miles in a northeasterly direction from this claim.

No mines, millsites, salt licks or salt springs are known to exist on this claim.

Water is not available on this claim. However, a dry process will be used in mining.

Richard L. Merritt
Richard L. Merritt
Mineral Surveyor

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DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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CERTIFICATE OF SURVEYOR

November 29, 1957

I, Richard L. Merritt,
 Mineral Surveyor, hereby certify upon honor that in pursuance of an order received from the Office
of Cadastral Engineer, at Phoenix, Arizona
 dated October 29, 1957, I have faithfully and correctly executed the survey of
 the mining claim of Phelps Dodge Corporation,
 known as the Redwall No. 66 placer
(Lode, placer, or mill site)
 situate in SE 1/4 SE 1/4 Sec. 20,
 T. 16 N., R. 2 E., G. and S. R. uns. Meridian, Arizona, and
(State)
 designated as Survey No. 4441, 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 placer location(s) embraced in the said mining claim by
(Lode or placer)
 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.

Prescott, Arizona
(Place)

Richard L. Merritt
(Mineral Surveyor)

CERTIFICATE OF APPROVAL

Bureau of Land Management--Survey Office
(Office)
Phoenix, Arizona March 11, 1959
(Place) (Date)

The foregoing field notes of mineral survey No. 4441, in
Section 20, T. 16 N., R. 2 E., Gila & Salt River Meridian,
Arizona, executed by Richard L. Merritt, Mineral Surveyor,
(State)
 under order dated October 29, 1957, 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
 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)

