

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

MINERAL SURVEY NO. 4440

Arizona Land District.

FIELD NOTES

Of The Survey Of The Mining Claim Of

Phelps Dodge Corporation

Known As The

Redwall No. 40, Redwall No. 41, and Redwall No. 48 placers

Verde Mining District,

Yavapai County, Arizona

Unsurveyed Sections 17 and 20, Township 16 North, Range 2 East, G. and S. R. Meridian

Surveyed under order dated October 29, 19 57

by Richard L. Merritt
Mineral Surveyor.

Claim located October 26, November 1, 19 55

Survey commenced November 15, 19 57

Survey completed November 29, 19 57

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

DATES OF AMENDED LOCATIONS

Chains
Feet

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.

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

Nov. 20, 1957, at cor. No. 1 of the Redwall No. 41 placer, in latitude 34°45'50"N., and longitude 112°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 opposite limbs of the sun, and reading the horizontal angle from cor. No. 4 of Redwall No. 41 placer to the right to the sun.

Mean time of observation, 105th meridian standard time	10h36m a.m.
Declination of sun at mean time of observation	-19°45' S.
Mean observed vertical angle to sun's center	-30°42'
Mean horizontal angle from cor. No. 4 Redwall No. 41 placer to sun's center	-152°52'
True bearing to cor. No. 4 Redwall No. 41 placer	-North

The lines were measured with a Lufkin steel tape 300 feet 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 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 16°E.

Survey No. 4440

Redwall No. 48 Placer

Beginning at cor. No. 1 of the Redwall No. 48 placer, identical with cor. No. 1, Redwall No. 41 placer of this survey, and the southwest cor. of sec. 16, T.16 N., R.2 E., Gila and Salt River Meridian; an iron post with a brass cap, 2 ins. diam., 18 ins. above the ground, firmly set, marked and witnessed as described in the official record.

Thence S.0°02'E.

18.0 Center of road, bears N.62°45'E., and S.62°45'W.

1,043.0 Center of road, bears S.70°15'E., and N.70°15'W.

1,320.0 Cor. No. 2.

This corner falls in center of road; drove a boat spike 1/2 in. diam., 10 ins. long, 1 in. below surface. Road bears N.30°E., and S.30°W.

Thence West
16 ins.

12.0 Set a granite stone, 28x12x6 ins. in the ground, for witness Cor. No. 2, mkd. X.W.C. 2 R 48 - 4440.

Chains
Feet

660.0 Cor. No. 3.

Set a granite stone 30x16x6 ins., 16 ins. in the ground, mkd. X 3 R 48 - 4440.

Thence N.0°02'W.

650.0 Center of road, bears N.67°W., and S.67°E.

768.0 Center of road, bears N.24°45'E., and S.24°45'W.

1,150.0 Center of road, bears N.89°30'W., and S. 89°30'E.

1,320.0 Cor. No. 4, identical with Cor. No. 1 Redwall No. 40 and Cor. No. 2 Redwall No. 41 placers of this survey.

Set a granite stone, 32x10x6 ins., 16 ins. in the ground, mkd. X 4 R 48, 1 R 40, 2 R 41 - 4440.

Thence East

660.0 Cor. No. 1 and place of beginning.

Redwall No. 41 Placer

Beginning at cor. No. 1 of the Redwall No. 41 placer, identical with cor. No. 1 of the Redwall No. 48 placer of this survey and with the southwest cor. of sec. 16, T.16 N., R. 2 E., Gila and Salt River Meridian.

Thence West

660.0 Cor. No. 2, identical with Cor. No. 4 Redwall No. 48 and Cor. No. 1 Redwall No. 40 placers of this survey.

Thence North

500.0 Center of road, bears N.56°45'E., and S.56°45'W.

948.0 Center of road, bears S.46°45'E., and N.46°45'W.

1,015.0 Center of road, bears S.40°50'E., and N.40°50'W.

1,213.0 Center of road, bears N.75°15'E., and S.75°15'W.

1,277.0 Center of road, bears N.80°15'E., and S.80°15'W.

1,320.0 Cor. No. 3, identical with Cor. No. 4 Redwall No. 40 placer of this survey,

Set a granite stone, 28x12x6 ins., 16 ins. in the ground, mkd. X 3 R 41, 4 R 40 - 4440.

Thence East

118.0 Center of road, bears N.72°55'E., and S.72°55'W.

300.0 Center of road, bears S.75°30'E., and N.75°30'W.

466.0 Center of road, bears N.52°15'E., and S.52°15'W.

660.0 Cor. No. 4.

Set a granite stone, 36x14x10 ins., 16 ins. in the ground, mkd. X 4 R 41 - 4440, from which

A granite rock in place, 36x24 ins., 18 ins. above the ground, bears N.51°30'W., 22.61 ft., mrkd. X.B.R. 4 R 41 - 4440.

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Survey No. 4440

Chains Feet	
	A granite rock in place, 36x24 ins., 12 ins. above the ground, bears S.4°16'W., 15.14 ft., mkd. X.B.R. 4 R 41 - 4440.
	Thence South
30.0	Center of road, bears S.82°45'E., and N.82°45'W.
61.0	Center of road, bears East and West.
158.0	Center of road, bears S.76°E., and N.76°W.
1,320.0	Cor. No. 1, and place of beginning.
	Redwall No. 40 Placer
	Beginning at Cor. No. 1 Redwall No. 40 placer, identical with Cor. No. 2 Redwall No. 41 and Cor. No. 4 Redwall No. 48 placers of this survey, from which
	The southwest cor. sec. 16, T.16 N., R.2 E., Gila and Salt River Meridian, bears East, 660.0 ft. dist.
	Thence West
516.0	Center of road, N.34°W., and S.34°E.
660.0	Cor. No. 2
	Set a limestone, 36x12x8 ins., 18 ins. in the ground, mkd. X 2 R 40 - 4440.
	Thence North
1,320.0	Cor. No. 3.
	Set a malpais stone, 30x14x8 ins., 16 ins. in the ground, mkd. X 3 R 40 - 4440, from which
	A malpais stone, 30x30 ins., 10 ins. above the ground, bears N. 84°37'W., 22.95 ft., mkd. X.B.R. 3 R 40 - 4440.
	A malpais stone, 24x24 ins., 36 ins. above the ground, bears S.29°44'W., 14.13 ft., mkd. X.B.R. 3 R 40 - 4440.
	Thence East
660.0	Cor. No. 4, identical with Cor. No. 3 Redwall No. 41 placer of this survey.
	Thence South
43.0	Center of road, bears N.80°15'E., and S.80°15'W.
107.0	Center of road, bears N.75°15'E., and S.75°15'W.
305.0	Center of road, bears N.40°50'W., and S.40°50'E.
372.0	Center of road, bears S.46°45'E., and N.46°45'W.
820.0	Center of road, bears N.56°45'E., and S.56°45'W.
1,320.0	Cor. No. 1, and place of beginning.

Cinhrs-

AREAS

	Acres
Total area, Redwall No. 40 placer	20.0
Total area, Redwall No. 41 placer	20.0
Total area, Redwall No. 48 placer	20.0

LOCATION

This survey is located in the SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 17, and the NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 20 of T.16 N., R.2 E., Gila and Salt River Meridian, unsurveyed, within the Prescott National Forest.

The survey of the Redwall No. 40 placer, Redwall No. 41 placer, and the Redwall No. 48 placer is identical with the respective 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 each of the placer locations 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:

A drill hole, the center of which bears N. 10°25'W., 195.3 ft. from Cor. No. 2 Redwall No. 48 placer; diam. from surface to 30. ft. depth, 3 ins.; from 30. ft. depth to bottom 202. ft. depth, 2-3/8 ins.
Value, \$1,614.

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

A drill hole, the center of which bears N. 7°13'E., 700.55 ft. from Cor. No. 2 of the Redwall No. 41 placer; diam. from surface to 10. ft. depth, 3-5/8 ins., from 10. ft. depth to 20. ft. depth, 3 ins., from 20. ft. depth to bottom 288. ft. depth, 2-3/8 ins.
Value, \$1,780.40.

From the common improvements on this claim, the common improvement on Redwall No. 66 placer survey 4441, and the common improvements on 69 Redwall placers patented under Patent No. 1172648, all contiguous placer claims owned in common, \$500. is credited to each of the placers of this claim.

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OTHER IMPROVEMENTS

None.

OTHER CORNER DESCRIPTIONS AND SUPPLEMENTAL DATA

None.

FIELD ASSISTANTS

Name	Capacity
William R. Amburn	Chainman
Keith Bunn	Chainman

**Total value of common improvements \$3,394.40, of this sum \$1,894.40 was credited to 69 Redwall placers patented under Patent #1172648, all contiguous placer claims owned in common. Of the remaining \$1,500.00 one third interest, \$500.00, is credited to each of the placers of this claim.

DESCRIPTIVE REPORT ON REDWALL NO. 40,
REDWALL NO. 41 AND REDWALL NO. 48
PLACERS OF SURVEY NO. 4440

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Chains-

The soil of Redwall No. 40, Redwall No. 41 and Redwall No. 48¹⁰ placers of Survey No. 4440, 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. A drill hole, the center of which bears N.10°25'W., 195.3 ft. from Cor. No. 2 Redwall No. 48 placer; diam. from surface to 30. ft. depth, 3 ins., from 30. ft. depth to bottom 202. ft. depth, 2-3/8 ins.

Value, \$1,614.

No. 2. A drill hole, the center of which bears N.7°13'E., 700.55 ft. from Cor. No. 2 of the Redwall No. 41 placer; diam. from surface to 10. ft. depth, 3-5/8 ins., from 10. ft. depth to 20. ft. depth, 3 ins., from 20. ft. depth to bottom 288. ft. depth, 2-3/8 ins.

Value, \$1,780.40.

The nearest center of trade is the town of Jerome, Arizona, which lies southeasterly 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 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 southeasterly 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

DESCRIPTIVE REPORT ON REDEWELL NO. 40
REDEWELL NO. 41 AND REDEWELL NO. 42
LACERS OF SURVEY NO. 1440

Chains

The soil of Redwell No. 40, Redwell No. 41 and Redwell No. 42 consists of a clay and limestone. Vegetation consists of a few cedar trees and oak brush. Streams traverse the area embraced in this claim.

The character, extent and position of all surface and underground lodes for mineral purposes and their location are as follows:

No. 1. A drill hole, the center of which bears N. 10° 25' W., 192.3 ft. from cor. No. 2 Redwell No. 48 placer; diam. from surface to 30 ft. depth, 3 in.; from 30 ft. depth to bottom 20.2 ft. depth, 2-3/8 in. Value, \$1,614.

No. 2. A drill hole, the center of which bears N. 7° 13' E., 700.25 ft. from cor. No. 2 of the Redwell No. 41 placer; diam. from surface to 10 ft. depth, 3-5/8 in.; from 10 ft. depth to 20 ft. depth, 3 in.; from 20 ft. depth to bottom 288 ft. depth, 4-3/8 in. Value, \$1,780.40.

The nearest center of trade in the town of Jerome, Arizona, which lies northwesterly 2.1 miles from this claim. Jerome is on State Highway 89-1, 23 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 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 southeasterly direction from this claim.

No mines, shafts, salt lakes 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
Mineral Surveyor

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

CERTIFICATE OF SURVEYOR

November 29, 19 57

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. 40, Redwall No. 41, and Redwall No. 48 placers
(Lode, placer, or mill site)
 situate in SE 1/4 SE 1/4 Sec. 17 and NE 1/4 NE 1/4 Sec. 20 (unsurveyed)
 T. 16 N., R. 2 E., G. and S. R. Meridian, Arizona, and
(State)
 designated as Survey No. 4440, 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 January 27, 19 59
(Place) (Date)

The foregoing field notes of mineral survey No. 4440, in SE 1/4 SE 1/4 Sec. 17 and NE 1/4 NE 1/4 Sec. 20
(unsurveyed), 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)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
CERTIFICATE OF SURVEYOR

November 20, 1907

Richard J. Harrell

Surveyor General of the State of Arizona

Phoenix, Arizona

Arizona

October 20, 1907

John J. Harrell

John J. Harrell, of the County of Maricopa, State of Arizona

has filed for record a certain plat of land in the County of Maricopa, State of Arizona

containing a certain tract of land in the County of Maricopa, State of Arizona

to-wit: A certain tract of land in the County of Maricopa, State of Arizona

containing a certain tract of land in the County of Maricopa, State of Arizona

to-wit: A certain tract of land in the County of Maricopa, State of Arizona

containing a certain tract of land in the County of Maricopa, State of Arizona

to-wit: A certain tract of land in the County of Maricopa, State of Arizona

containing a certain tract of land in the County of Maricopa, State of Arizona

to-wit: A certain tract of land in the County of Maricopa, State of Arizona

CERTIFICATE OF APPROVAL

Richard J. Harrell

Surveyor General

I, the undersigned, Surveyor General of the State of Arizona, do hereby certify that the

above described plat of land is a true and correct copy of the original filed for

record in the County of Maricopa, State of Arizona, and that the same is

correctly described and contains a true and correct copy of the original filed for

record in the County of Maricopa, State of Arizona, and that the same is

correctly described and contains a true and correct copy of the original filed for

record in the County of Maricopa, State of Arizona, and that the same is

CERTIFICATE OF TRANSPORT

I, the undersigned, Surveyor General of the State of Arizona, do hereby certify that the

above described plat of land is a true and correct copy of the original filed for

record in the County of Maricopa, State of Arizona, and that the same is

correctly described and contains a true and correct copy of the original filed for

record in the County of Maricopa, State of Arizona, and that the same is