

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

MINERAL SURVEY NO. 4467

Arizona

Land District.

FIELD NOTES

Of The Survey Of The Mining Claim Of

Leo E. Shoup

Known As The

Manganese #9 and Manganese #10 lodes

Long Valley

Mining District,

Coconino

County,

Arizona

Section 20, Township 14 N., Range 10 E., G. and S.R.M.

Surveyed under order dated Oct. 9th, 1958

by Richard L. Merritt

Mineral Surveyor.

Claim located 4 March, 1940

Survey commenced 21 July, 1959

Survey completed 18 August, 1959

Address of claimant Joseph H. Morgan, Atty. for Claimant  
Luhrs Bldg., Phoenix, Arizona

DATES OF AMENDED LOCATIONS

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SURVEY NO. 4467

Feet

Chains

This survey was made with a Burger transit No. 17503, with horizontal limb 5-1/8 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; a prismatic eyepiece with colored glass was attached to the eyepiece of the transit 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 the record were determined by the method of deflection angles referred to the meridian established by direct observation on the sun:

July 26, 1959, at cor. No. 1 of the Manganese #9 lode, in latitude 34°34'30"N., and longitude 111°19'20" W., turning from a reference point to the sun.

True bearing of reference point = S.40°49' E.

True bearing of line 1 - 2, Manganese #9 lode = N.40°49' W.

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 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 14°30' E.

MANGANESE #9 LODE

Beginning at cor. No. 1 of the Manganese #9 lode, identical with cor. No. 4 Sur. No. 4466 Manganese #5 lode.

An iron pipe, 1 in. diam., 6 ins. above the ground, mkd. M9-1, 4467 M5-4, 4466; from which

The southwest cor. sec. 20, T.14 N., R.10 E.; Gila and Salt River Meridian, bears S.50°51'35" W., 1375.51 ft. dist.

A mound of stones, exact point for sec. cor. determined by courses and distances from bearing tree.

A pine, 20 ins. diam., bears N.63°12' W., 39.57 ft. dist., mkd. X-M9-1, 4467 BT, M5-4, 4466 BT.

Thence N.40°49' W.

300.0 Lode, line, discovery point, bears N.36°01' E., 300 ft. dist.

600.0 Cor. No. 2, identical with cor. No. 3, Sur. No. 4466 Manganese #5 lode.

An iron pipe, 6 ins. above the ground, mkd. M9-2, 4467, M5-3, 4466.

Thence N.36°01' E.

1135.76 Cor. No. 3.

Set an iron pipe, 2 ft. long, 1 in. diam., 18 ins. in the ground, mkd. M9-3-4467; from which

A pine, 24 ins. diam., bears S.88°11' E., 9.20 ft. dist., mkd. X-M9-3, 4467 BT.

Thence S.40°49' E.

27.0 Center of road, bears N.25° E., and S.25° W.

300.0 Lode line; discovery point bears S.36°01' W., 1135.76 ft. dist.

507.84 Cor. No. 1 Manganese #10 lode of this survey.

600.0 Cor. No. 4.

On line 4 - 1, Manganese #10 lode of this survey.

Survey No. 4467

Feet

On line

Set an iron pipe, 2 ft. long, 1 in. diam., 18 ins. in the ground, mkd. M9-4, 4467.

Thence S.36°01' W.

861.0 Center of road, bears N.12° E., and S.12° W.

1435.76 Cor. No. 1, and place of beginning.

MANGANESE #10 LODE

Beginning at cor. No. 1 of the Manganese #10 lode.

On line 3 - 4 Manganese #9 lode of this survey.

Set an iron pipe, 2 ft. long, 1 in. diam., 18 ins. in the ground, mkd. M10-1, 4467; from which

The southwest cor. sec. 20, T.14 N., R.10 E., Gila and Salt River Meridian, bears S. 41°24' W., 2798.67 ft. dist.

Thence N.36°01' E.

1500.0 Cor. No. 2.

Set an iron pipe, 2 ft. long, 1 in. diam., 18 ins. in the ground, mkd. M10-2, 4467.

Thence S.40°49' E.

300.0 Lode line; discovery point bears S.36°01' W., 660 ft. dist.

600.0 Cor. No. 3.

Set an iron pipe, 2 ft. long, 1 in. diam., 18 ins. in the ground, mkd. M10-3, 4467; from which

A pine, 18 ins. diam., bears S.9°42' W., 13.90 ft. dist., mkd. X-M10-3, 4467 BT,

Thence S.36°01' W.

1500.0 Cor. No. 4.

Set an iron pipe, 2 ft. long, 1 in. diam., 18 ins. in the ground, mkd. M10-4, 4467; from which

A pine, 24 ins. diam., bears N.84°50' E., 15.34 ft. dist., mkd. X-M10-4, 4467 BT.

Thence N.40°49' W.

300.0 Lode line; discovery point bears N.36°01' E., 840 ft. dist.

507.84 Cor. No. 4 Manganese #9 lode of this survey.

600.0 Cor. No. 1, and place of beginning.

AREAS

Acres

Total area, Manganese #9 lode . . . . . 19.256 ✓

Total area, Manganese #10 lode. . . . . 20.118 ✓

Survey No. 4467

LOCATION

This survey is located in the NW 1/4, NE 1/4, SE 1/4, SW 1/4 sec. 20, T.14 N., R.10 E., Gila and Salt River Meridian, Coconino County, Arizona, within the Coconino National Forest.

The survey of the lodes of this claim are identical with the location notices as marked on the ground.

The location monuments, all mounds of stone, 3 ft. base, by 3 ft. high, were rebuilt alongside at the four corners of each lode.

EXPENDITURES

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 claimant or his grantors are as follows:

No. 1 The discovery point of the Manganese #9 lode is on the lode line N.36°01' E., 300 ft. from the center of line 1 - 2.

No. 2 A trench, the southeast end of which bears N.1°30' E., 70 ft. from cor. No. 1 of the Manganese #9 lode, 14 ft. wide, 3 ft. deep, running N.95° W., 70 ft. Value, \$300.

No. 3 A trench, the south end of which bears N.40°49' W., 57 ft. from cor. No. 1 of the Manganese #9 lode, 12 ft. wide, 2 ft. deep, running N.14° E., 20 ft. Value, \$70.

No. 4 A drill hole, the center of which bears N.36° W., 98 ft. from the center of line 1 - 2 Manganese #9 lode, 6 ins. diam., 40 ft. deep. Value, \$80.

No. 5 A drill hole, the center of which bears N.18°30' W., 193 ft. from the center of line 1 - 2 Manganese #9 lode, 6 ins. diam., 60 ft. deep. Value, \$120.

No. 6 A drill hole, the center of which bears N.24°30' W., 577 ft. from cor. No. 1 of the Manganese #9 lode, 6 ins. diam., 36 ft. deep. Value, \$70.

No. 7 A trench, the west end of which bears N.57° E., 207 ft. from cor. No. 2 of the Manganese #9 lode, 14 ft. wide, 1.5 ft. deep, running N.60° E., 40 ft. Value, \$100.

No. 8 A trench, the south end of which bears N.14°30' W., 613 ft. from Cor. No. 1 of the Manganese #9 lode, 14 ft. wide, 2 ft. deep, running N.30° E., 30 ft. Value, \$90.

No. 9 A trench, the south end of which bears N.50° E., 1285 ft. from cor. No. 2 of the Manganese #9 lode, 14 ft. wide, 2 ft. deep, running N.60° E., 21 ft. Value, \$50.

No. 10 A trench, the south end of which bears N.45°30' E., 199 ft. from cor. No. 2 of the Manganese #9 lode, 15 ft. wide, 3 ft. deep, running N.30° E., 35 ft. Value, \$100.

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Feet	
No. 11	A drill hole, the center of which bears N.37°30' E., 188 ft. from cor. No. 2 of the Manganese #9 lode, 6 ins. in diam., 12 ft. deep. Value, \$20.
No. 12	A drill hole, the center of which bears N.37°30' E., 298 ft. from cor. No. 2 of the Manganese #9 lode, 6 ins. diam., 21 ft. deep. Value, \$40.
No. 13	A trench, the north end of which bears N.41°30' E., 483 ft. from cor. No. 2 of the Manganese #9 lode, 14 ft. wide, 1 ft. deep, running S.15° E., 40 ft. Value, \$60.
No. 14	A trench, the south end of which bears N.10°30' W., 730 ft. from cor. No. 1 of the Manganese #9 lode, 14 ft. wide, 1 ft. deep, running N.45° E., 30 ft. Value, \$50.
No. 15	A drill hole, the center of which bears S.78°30' W., 790 ft. from cor. No. 4 of the Manganese #9 lode, 6 ins. diam., 21 ft. deep. Value, \$40.
No. 16	A trench, the east end of which bears S.20°30' W., 268 ft. from cor. No. 3 of the Manganese #9 lode, 14 ft. wide, 1 ft. deep, running N.75° W., 22 ft. Value, \$40.
No. 17	A drill hole, the center of which bears S.32° W., 238 ft. from cor. No. 3 of the Manganese #9 lode, 6 ins. diam., 21 ft. deep. Value, \$40.
No. 18	A drill hole, the center of which bears N.75° W., 578 ft. from cor. No. 4 of the Manganese #9 lode, 6 ins. diam., 21 ft. deep. Value, \$40.
No. 19	The discovery point of the Manganese #10 lode is on the lode line N.36°01' E., 840 ft. from the center of line 4 - 1. No. value.
No. 2	A shaft, the center of which bears N.39° E., 350 ft. from cor. No. 1 of the Manganese #10 lode, 12 x 6 ft., 5 ft. deep. Value, \$50.
No. 3	A shaft, the center of which bears S.47° E., 138 ft. from cor. No. 1 of the Manganese #10 lode, 6 x 6 ft., 4 ft. deep. Value, \$50.
No. 4	A trench, the north end of which bears S.14° E., 267 ft. from cor. No. 2 of the Manganese #10 lode, 14 ft. wide, 2 ft. deep, running S.35° W., 40 ft. Value, \$120.
No. 5	A trench, the west end of which bears S.16° E., 230 ft. from cor. No. 2 of the Manganese #10 lode, 12 ft. wide, 4 ft. deep, running S.55° E., 65 ft. Value, \$350.
No. 6	A shaft, the center of which bears N.79°30' W., 120 ft. from cor. No. 3 of the Manganese #10 lode, 10 x 6 ft., 4 ft. deep. Value, \$50.

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OTHER IMPROVEMENTS

None

OTHER CORNER DESCRIPTIONS AND SUPPLEMENTAL DATA

Line 3 - 4, Sur. No. 4466 Manganese #5 lode, was found to be correct as reported in Sur. No. 4466. SW cor. sec. 20, T.14 N., R.10 E., Gila and Salt River Meridian is a mound of stones; exact point for sec. cor. was determined by courses and distances from bearing trees.

I was unable to find either the west or the south  $\frac{1}{2}$  cor. sec. 20, T.14 N., R.10 E., Gila and Salt River Meridian.

FIELD ASSISTANTS

Name	Capacity
J. B. Sarvis	Chairman
Hiram Barnes	Chairman

OTHER IMPROVEMENTS

None

OTHER COURSE DESCRIPTIONS AND SUPPLEMENTAL DATA

Line 3 - A. Run. No. 1466 measured 4 1/2 miles, was found to be correct as reported in Run. No. 1466. SW cor. sec. 30, T. 14 N., R. 10 E., S. 10 S. was said to be a mound of stones; exact point for sec. cor. was determined by courses and distances from bearing trees. I was unable to find either the west or the south 1/4 cor. sec. 30, T. 14 N., R. 10 E., S. 10 S. and said to be a mound of stones.

FIELD ASSISTANTS

Name	Capacity
J. H. Garvin	Chairman
Wm Barnes	Chairman



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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CERTIFICATE OF SURVEYOR

18 August, 1959

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 9 October 1958, I have faithfully and correctly executed the survey of  
 the mining claim of Leo E. Shoup  
 known as the Manganese #9 and Manganese #10 lodes  
(Lode, placer, or mill site)  
 situate in Sec. 20  
 T. 14 N, R. 10 E, Gila and Salt River Meridian, Arizona, and  
(State)  
 designated as Survey No. 4467, 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 lode location(s) embraced in the said mining claim by  
(Lode or placer)  
 claimant(s) or his 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 November 16, 1959  
(Place) (Date)

The foregoing field notes of mineral survey No. 4467, in  
Section 20, T. 14 North, R. 10 East, Gila & Salt River Meridian,  
Arizona, executed by Richard L. Merritt, Mineral Surveyor,  
(State)  
 under order dated \_\_\_\_\_, 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

18 August, 19 59

I, Richard J. Herold, Surveyor, hereby certify upon honor that in pursuance of an order received from the office of the United States Mineral Surveyor at Phoenix, Arizona, dated 9 October, 1958, I have faithfully and correctly executed the survey of the mining claim of Leo E. Shoup known as the Herold No. 1 and Herold No. 2 located in the State of Arizona, Dec. 20, 1880, and designated as Survey No. 1449, 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 zone location (s) embraced in the said mining claim by grantor (s) or claimant (s) or heirs, as 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 are credited to this claim has been included in the estimate of expenditures upon any other claim.

*Richard J. Herold*  
Richard J. Herold  
Surveyor

Phoenix, Arizona  
Richard J. Herold

CERTIFICATE OF APPROVAL

The foregoing field notes of mineral survey No. 1449, in which the location of the zone is described as being in Section 30, Township 12 N., Range 10 E., Meridian, Arizona, executed by Richard J. Herold, Surveyor, under order dated \_\_\_\_\_, 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.

*Richard J. Herold*  
Richard J. Herold  
Surveyor

CERTIFICATE OF TRANSCRIPT

I certify that the foregoing transcript of field notes of the above-described mineral survey No. 1449 is a true copy of the original field notes.

UNITED STATES DEPARTMENT OF THE INTERIOR 9605 (956)  
BUREAU OF LAND MANAGEMENT M.S. 4467  
ARIZONA STATE OFFICE

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NOTICE OF CANCELLATION OF MINERAL SURVEY

The Manganese # 9 and Manganese # 10 lodes, Mineral Survey No. 4467, located in section 20, Township 14 North, Range 10 East, Gila and Salt River Meridian, Arizona, are hereby canceled.

These claims have not been filed with the Arizona State Office, Bureau of Land Management, in accordance with Section 314, 90 STAT. 2769, (43 U.S.C. 1744).

This cancellation was necessitated to clear the record.

The Mineral Survey Plat should be noted as follows:

"Manganese # 9 and Manganese # 10 lodes, M.S. 4467, were canceled January 24, 2007, by memo 9605 (956) M.S. 4467, which is now a part of the original field notes."

January 24, 2007  
Date

Stephen H. Hansen  
Chief Cadastral Surveyor of Arizona

