

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

MINERAL SURVEY NO. 4466

Arizona
Land District.

FIELD NOTES

Of The Survey Of The Mining Claim Of

Leo E. Shoup

Known As The
Manganese #s 3, 4 and 5 lodes
Black Diamond Nos. 1 and 2 lodes

Long Valley Mining District,
Coconino County, Arizona

Sections 19, 20, 29 and 30, Township 14 North, Range 10 East, G. and S.R.M.
9 Oct. 1958
Surveyed under order dated 13 May 1959, Amd., 19

by Richard L. Merritt
Mineral Surveyor.

Claim located 4 Mar., 29 Mar., 20 Apr., 1940

Survey commenced 21 July, 19 59

Survey completed 18 Aug., 19 59

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

DATES OF AMENDED LOCATIONS

THE UNIVERSITY OF CHICAGO
DEPARTMENT OF CHEMISTRY

RESEARCH REPORT

1954

1954

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Chains

Feet

This survey was made with a Burger transit No. 17503, with horizontal limb $5 \frac{1}{8}$ 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 on 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. 4 of the Manganese #5 lode, in latitude $34^{\circ}34'30''$ N., and longitude $111^{\circ}19'20''$ W., turning from a reference point to the sun.

True bearing of reference point = $S.40^{\circ}49' E.$

True bearing of line 3-4, Manganese #5 lode = $S.40^{\circ}49' E.$

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 $14^{\circ}30' E.$

MANGANESE #5 LODE

At cor. No. 1 of the Manganese #5 lode, identical with cor. No. 1 Manganese #3 lode, cor. No. 1 Manganese #4 lodes of this survey.

Set an iron pipe, 2 ft. long, 1 in. diam., 18 ins. in the ground, mkd M5-1, M3-1, M4-1., 4466, from which

The north east cor. sec. 30 T.14 N., R.10 E., Gila and Salt River Meridian bears $S.44^{\circ}46' W.$, 83.0 ft. dist.; a mound of stones exact point for corner determined by courses and distances from bearing tree.

A dead pine, 24 ins. diam., a bearing tree for sec. cor. bears $N.85^{\circ}20' E.$, 15.97 ft. dist.

Thence $N.40^{\circ}49' W.$

300.0 Lode line, discovery point bears $N.51^{\circ}15' E.$, 300 ft. dist.

600.0 Cor. No. 2, identical with cor. No. 4 of the Manganese #4 lode of this survey.

Set an iron pipe, 2 ft. long, 1 in. diam., 18 ins. in the ground, mkd. M5-2, M4-4, 4466; from which

A pine, 16 ins. diam., bears $N.11^{\circ}44' E.$, 8.83 ft. dist., mkd. X-M5-2, M4-4, 4466 BT.

Thence $N.51^{\circ}15' E.$

1293.0 Cor. No. 3, identical with cor. No. 2, Sur. No. 4467 Manganese #9 lode,

Set an iron pipe, 2 ft. long, 1 in. diam., 18 ins. in the ground, mkd. M5-3, 4466, M9-2, 4467.

Thence $S.40^{\circ}49' E.$

300.0 Lode line, discovery point bears $S.51^{\circ}15' W.$, 993.0 ft. dist.

Feet	
600.0	Cor. No. 4, identical with cor. No. 1 Sur. No. 4467 Manganese #9 lode. Set an iron pipe, 2 ft. long, 1 in. diam., 18 ins. in the ground mkd. M5-4, 4466, M9-1, 4467; from which A pine, 20 ins. diam., bears N.63°12' W., 39.57 ft. dist., mkd. X-M5-4, 4466 BT, M9-1, 4467 BT. Thence S.51°15' W.
1293.0	Cor. No. 1, and place of beginning. = MANGANESE #4 LODE Beginning at cor. No. 1 of the Manganese #4 lode, identical with cor. No. 1 Manganese #5 lode, cor No. 1 Manganese #3 lode of this survey. Thence S.67°01' W.
1325.06	Intersect line 2 - 3, Sur. No. 4383 Barbara 4 lode at a point from which cor. No. 3 bears S.45°57'30" E., 863.25 ft. dist.
1500.0	Cor. No. 2, identical with cor. No. 4 of the Manganese #3 lode of this survey. Set an iron pipe, 2.0 ft. long, 1 in. diam., 18 ins. in the ground, mkd. M4-2, M3-4, 4466. Thence N.40°49' W.
300.0	Lode line; discovery point bears N.67°01' E., 1490.0 ft. dist.
582.3	Intersect line 1 - 2 Sur. No. 4383 Barbara 4 lode at a point from which cor. No. 2 bears N.52°19'20" E., 110.03 ft. dist.
600.0	Cor. No. 3. Set an iron pipe, 2 ft. long, 1 in. diam., 18 ins. in the ground, mkd. M4-3-4466; from which Cor. No. 2 Sur. No. 4383 Barbara 4 lode bears N.61°22' E., 112.4 ft. dist. A pine, 24 ins. diam., bears S.63°00' E., 18.23 ft. dist., mkd. X-M4-3, 4466 BT. Thence N.67°01' E.
69.66	Intersect line 1 - 2 Sur. No. 4383 Barbara 4 lode at a point from which cor. No. 2 bears N.52°19'20" E., 43.62 ft. dist.
116.55	Intersect line 2 - 3 Sur. No. 4383 Barbara 4 lode at a point from which cor. No. 2 bears N.45°57'30" W., 12.02 ft dist.
1500.0	Cor. No. 4, identical with cor. No. 2 Manganese #5 lode of this survey. Thence S.40°49' E.
300.0	Lode line; discovery point bears S.67°01' W., 10.0 ft. dist.
600.0	Cor. No. 1, and place of beginning.

Feet	
	MANGANESE #3 LODE
	Beginning at cor. No. 1 of the Manganese #3 lode, identical with Cor. No. 1 Manganese #4, cor. No. 1 Manganese #5 lodes of this survey.
	Thence S.40°49' E.
300.0	Lode line; discovery point bears S.67°01' W., 10 ft. dist.
548.0	Center of road, bears N.69°11' E., and S.69°11' W.
600.0	Cor. No. 2, identical with cor. No. 1 Black Diamond No. 2 lode of this survey.
	Set an iron pipe, 2 ft. long, 1 in. diam., 18 ins. in the ground, mkd. M3-2, BD2-1, 4466.
	Thence S.67°01' W.
420.0	Center of road, bears N.47° E., and S.47° W.
1266.65	Intersect line 2 - 3 Sur. No. 4383 Barbara 4 lode at a point from which cor. No. 3 bears S.45°57'30" E., 242.87 ft. dist.
1500.0	Cor. No. 3, identical with cor. No. 4 Black Diamond No. 2, cor. No. 1 Black Diamond No. 1 lodes of this survey.
	Set an iron pipe, 2 ft. long; 1 in. diam., 18 ins. in the ground, mkd. M3-3, BD2-4, BD1-1, 4466.
	Thence N.40°49' W.
300.0	Lode line; discovery point bears N.67°01' E., 1490.0 ft. dist.
600.0	Cor. No. 4, identical with cor. No. 2 Manganese #4 lode of this survey.
	Thence N.67°01' E.
174.94	Intersect line 2 - 3 Sur. No. 4383 Barbara 4 lode at a point from which cor. No. 3 bears S.45°57'30" E., 863.25 ft. dist.
1500.0	Cor. No. 1, and place of beginning.
	BLACK DIAMOND NO. 2 LODE
	Beginning at cor. No. 1, identical with cor. No. 2 Manganese #3 lode of this survey, from which the northeast corner sec. 30, T.14N., R.10E, Gila and Salt River Meridian, bears N.48°45'10" W., 599.34 ft. dist.
	Thence S.40°49' E.
300.0	Lode line; discovery point bears S.67°01' W.; 1000 ft. dist.
600.0	Cor. No. 2.
	Set an iron pipe, 2 ft. long, 1 in. diam., 18 ins. in the ground, mkd. BD2-2, 4466; from which
	A pine, 32" in diam., bears N.29°53' W., 49.66 ft. dist., mkd. X-BD2-2, 4466 BT.
	Thence S.67°01' W.

Feet	
1500.0	Cor. No. 3, identical with cor. No. 2 Black Diamond No. 1 lode of this survey. Set an iron pipe, 2 ft. long, 1 in. diam., 18 ins. in the ground, mkd. BD2-3, BD1-2, 4466; from which A pine, 12 ins. diam., bears N.3°38' W., 15.32 ft. dist., mkd. X-BD2-3, BD1-2, 4466 BT. Thence N.40°49' W.
110.0	Center of road, bears N.4° E., and S.4° W.
300.0	Lode line; discovery point bears N.67°01' E., 500 ft. dist.
300.0	Intersect line 3 - 4 Sur. No. 4383 Barbara 4 lode at a point from which cor. No. 3 bears N.52°19'20" E., 244.26 ft. dist.
600.0	Cor. No. 4, identical with cor. No. 3 Manganese #3, cor. No. 1 Black Diamond No. 1 lodes of this survey; from which Cor. No. 3 Sur. No. 4383 Barbara 4 lode, bears S.78°42'40" E., 397.09 ft. dist. Thence N.67°01' E.
233.35	Intersect line 2 - 3, Sur. No. 4383 Barbara 4 lode at a point from which cor. No. 3 bears S.45°57'30" E., 242.87 ft. dist.
1080.0	Center of road, bears N.47° E., and S.47° W.
1500.0	Cor. No. 1, and place of beginning. BLACK DIAMOND NO. 1 Beginning at cor. No. 1 of the Black Diamond No. 1 lode, identical with cor. No. 3 Manganese #3, cor. No. 4 Black Diamond No. 2 lodes of this survey; from which The northeast cor. sec. 30, T.14 N., R.10 E., Gila and Salt River Meridian, bears N.43°29'05" E., 1351.87 ft. dist. Cor. No. 4 Sur. No. 4383 Barbara 4 lode, bears S.11°18' W., 456.38 ft. dist. Thence S.40°49' E.
300.0	Lode line; discovery point bears S.52°13' W., 600 ft. dist.
300.0	Intersect line 3 - 4 Sur. No. 4383 Barbara 4 lode, at a point from which cor. No. 4 bears S.52°19'20" W., 360.74 ft. dist.
490.0	Center of road, bears N.4° E., and S.4° W.
600.0	Cor. No. 2, identical with cor. No. 3 Black Diamond No. 2 lode of this survey. Thence S.52°13' W.
81.0	Center of road, bears S.10° E., and N.10° W.
472.5	Center of road, bears N.48° W., and S.48° E.

Feet

1061.50 Cor. No. 3.

Set an iron pipe, 2 ft. long, 1 in. diam., 18 ins. in the ground mkd. BDL-3, 4466; from which

A pine, 12 ins. diam., bears N.45°50' E., 15.16 ft. dist., mkd. -X-BDL-3, 4466 BT.

Thence N. 40° 49' W.

299.65 Intersect line 3 - 4 Sur. No. 4383 Barbara 2 lode, at a point from which cor. No. 3 bears N.52°08' E., 95.75 ft. dist.

300.0 Lode line; discovery point bears N.52°13' E., 461.5 ft. dist.

600.0 Cor. No. 4.

Set an iron pipe, 2 ft. long, 1 in. diam., 18 ins. in the ground, mkd. BDL-4-4466; from which

Cor. No. 3 Sur. No. 4383 Barbara 2 lode bears S.58°12'35" E., 319.90 ft. dist.

Thence N.52°13' E.

68.58 Intersect line 2 - 3 Sur. No. 4383 Barbara 2 lode at a point from which cor. No. 3 bears S.45°57'30" E., 302.87 ft. dist.

501.5 Center of road, bears S.48° E., and N.48° W.

673.69 Intersect line 2 - 3 Sur. No. 4383 Barbara 3 lode at a point from which cor. No. 3 bears S.45°57'30" E., 301.98 ft. dist.

1061.5 Cor. No. 1, and place of beginning.

AREAS

Acres

Total area, Manganese #5 lode. 17.798

Total area, Manganese #4 lode. 19.668

Area in conflict with Sur. No. 4383 Barbara 4 lode. 1.898

Total area, Manganese #3 lode 19.668

Area in conflict with Sur. No. 4383 Barbara 4 lode 2.677

Total area, Black Diamond No. 2 lode 19.668

Area in conflict with Sur. No. 4383 Barbara 4 lode 1.439

Total area, Black Diamond No. 1 lode 14.601

Area in conflict with Sur. No. 4383 Barbara 4 lode 2.571

Sur. No. 4383 Barbara 3 lode 4.158

Sur. No. 4383 Barbara 2 lode 0.566

LOCATION

This survey is located in the SE 1/4 sec. 19, SW 1/4 sec. 20, NW 1/4 Sec. 29, and NE 1/4 sec. 30, T.14 N., R.10 E., Gila and Salt River Meridian, Coconino County, Arizona, within the Coconino National Forest.

The survey of all lodes of this claim is 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 granters are as follows:

- No. 1 The discovery point of the Manganese #5 lode is on the lode line N.51°15' E., 300 ft. dist. from the center of line 1 - 2.
No value.
- No. 2 A drill hole, the center of which bears S.57° E., 287 ft. from cor. No. 2 of the Manganese #5 lode, 6 ins. diam., 36 ft. deep.
Value, \$72.
- No. 3 A drill hole, the center of which bears N.33° W., 138 ft. from cor. No. 1 of the Manganese #5 lode, 6 ins. diam., 20 ft. deep.
Value, \$40.
- No. 4 A trench, the southeast end of which bears N.8° E., 230 ft. from cor. No. 1 of the Manganese #5 lode, 14 ft. wide, 3 ft. deep, running N.45° W., 40 ft.
Value, \$160.
- No. 5 A trench, the east end of which bears S.54° W., 155 ft. from cor. No. 4 of the Manganese #5 lode, 14 ft. wide, 1 ft. deep, running West 25 ft.
Value, \$50.
- No. 6 A trench, the south end of which bears S.89°30' W., 142 ft. from cor. No. 4 of the Manganese #5 lode, 7 ft wide, 2 ft. deep, running N.15° W., 25 ft.
Value, \$50.
- No. 7 A trench, the north end of which bears N.47° W., 160 ft. from cor. No. 4 of the Manganese #5 lode, 14 ft. wide, 1 ft. deep, running S.37° W., 24 ft.
Value, \$35.
- No. 8 A drill hole, the center of which bears S. 23° W., 557 ft. from cor. No. 3 of the Manganese #5 lode, 6 ins. diam., 36 ft. deep.
Value, \$72.
- No. 9 A drill hole, the center of which bears S.38° W., 652 ft. from cor. No. 3 of the Manganese #5 lode, 6 ins. diam., 36 ft. deep.
Value, \$72.
- No. 10 A drill hole, the center of which bears S.11° W., 520 ft. from cor. No. 3 of Manganese #5 lode, 6 ins. diam., 36 ft. deep.
Value, \$72.
- No. 1 The discovery point of the Manganese #4 lode is on the lode line S.67°01' W., 10 ft. from the center of line 4 - 1.
No value.
- No. 2 A drill hole, the center of which bears N.48° E., 38 ft. from cor. No. 2 of the Manganese #4 lode, 6 ins. diam., 21 ft. deep.
Value, \$40.
- No. 3 A drill hole, the center of which bears N.17° E., 40 ft. from cor. No. 2 of the Manganese #4 lode, 6 ins. diam., 21 ft. deep.
Value, \$40.
- No. 4 A drill hole, the center of which bears N.8°30' W., 55 ft. from cor. No. 2 of the Manganese #4 lode, 6 ins. diam., 21 ft. deep.
Value, \$40.

- No. 5 A trench, the west end of which bears S.86°30' E., 205 ft. from the center of line 2 - 3 Manganese #4 lode, 14 ft. wide, 2 ft deep., running N.60° E., 35 ft.
Value, \$100.
- No. 6 A trench, the west end of which bears S.70° E., 450. ft. from cor. No. 3 of the Manganese #4 lode, 14 ft. wide, 2 ft. deep, running S.85° E., 35 ft.
Value, \$100.
- No. 7 A trench, the south end of which bears N.71° E., 188 ft. from the center of line 2 - 3 Manganese #4 lode, 14 ft. wide, 1½ ft. deep, running N.33° E., 30 ft.
Value, \$80.
- No. 8 A drill hole, the center of which bears N.61° E., 100 ft. from the center of line 2 - 3 Manganese #4 lode, 6 ins. diam., 21 ft. deep.
Value, \$40.
- No. 9 A drill hole, the center of which bears N.48° E., 110 ft. from the center of line 2 - 3 Manganese #4 lode, 6 ins. diam., 21 ft. deep.
Value, \$40.
- No. 10 A drill hole, the center of which bears N.35°30' E., 118 ft. from the center of line 2 - 3 Manganese #4 lode, 6 ins. diam., 21 ft. deep.
Value, \$40.
- No. 11 A drill hole, the center of which bears N.35°30' E., 130 ft. from the center of line 2 - 3 Manganese #4 lode, 6 ins. diam., 21 ft. deep.
Value, \$40.
- No. 12 A drill hole, the center of which bears S.51° E., 163 ft. from cor. No. 3 of the Manganese #4 lode, 6 ins. diam., 21. ft deep.
Value, \$40.
- No. 13 A drill hole, the center of which bears S.65° E., 275 ft. from cor. No. 3 of the Manganese #4 lode, 6 ins. diam., 21 ft. deep.
Value, \$40.
- No. 14 A drill hole, the center of which bears N.29°30' W., 70 ft. from the center line 2 - 3 Manganese #4 lode, 6 ins. diam., 21 ft. deep.
Value, \$40.
- No. 15 A drill hole, the center of which bears S.45° E., 198 ft. from cor. No. 3 of the Manganese #4 lode, 6 ins. diam., 21 ft. deep.
Value, \$40.
- No. 16 A trench, the south end of which bears S.73°30' E., 402 ft. from cor. No. 3 of the Manganese #4 lode, 14 ft. wide, 2 ft deep, running N.50° E., 35 ft.
Value, \$100.
- No. 17 A drill hole, the center of which bears S.35° E., 215 ft. from cor. No. 4 of the Manganese #4 lode, 6 ins. diam., 21 ft. deep.
Value, \$40.
- No. 18 A drill hole, the center of which bears S.1° E., 102 ft. from cor. No. 4 of the Manganese #4 lode, 6 ins. diam., 21 ft. deep.
Value, \$40.
- No. 19 A drill hole, the center of which bears N.69° E., 482 ft. from cor. No. 3 of the Manganese #4 lode, 6 ins. diam., 50 ft. deep.
Value, \$100.

- No. 20 A drill hole, the center of which bears N.74° E., 446 ft. from cor. No. 3 of the Manganese #4 lode, 6 ins. diam., 50 ft. deep.
Value, \$100.
- No. 1 The discovery point of the Manganese #3 lode is on the lode line S.67°01' W., 10 ft. from the center of line 1-2.
No value.
- No. 2 A trench, the north end of which bears N.44° E., 318 ft. from cor. No. 3 of the Manganese #3 lode, 15 ft. wide, 6 ft. deep, running S.5° E., 125 ft.
Value, \$1000.
- No. 3 A drill hole, the center of which bears N.28° W., 147 ft. from cor. No. 3 of the Manganese #3 lode, 6 ins. diam., 21 ft. deep.
Value, \$40.
- No. 4 A drill hole, the center of which bears N.27°30' W., 178 ft. from cor. No. 3 of the Manganese #3 lode, 6 ins. diam., 21 ft. deep.
Value, \$40.
- No. 5 A drill hole, the center of which bears N.30° W., 202 ft. from cor. No. 3 of the Manganese #3 lode, 6 ins. diam., 21 ft. deep.
Value, \$40.
- No. 6 A drill hole, the center of which bears S.44° E., 304 ft. from cor. No. 4 of the Manganese #3 lode, 6 ins. diam., 21 ft. deep.
Value, \$40.
- No. 7 A drill hole, the center of which bears N.81° E., 48 ft. from cor. No. 4 of the Manganese #3 lode, 6 ins. diam., 21 ft. deep.
Value, \$40.
- No. 1 The discovery point of the Black Diamond No. 2 lode is on the lode line N.67°01' E., 500 ft. from the center of line 3-4.
No value.
- No. 2 A trench, the north end of which bears S.67°01' W., 310 ft. from cor. No. 1 of the Black Diamond No. 2 lode, 14 ft. wide, 3 ft. deep, running S.10° E., 30 ft.
Value, \$135.
- No. 3 A trench, the north end of which bears S.46°30' W., 228 ft. from cor. No. 1 of the Black Diamond No. 2 lode, 14 ft. wide, 2 ft. deep, running S.10° W., 36 ft.
Value, \$100.
- No. 4 A trench, the northwest end of which bears S.48° W., 68 ft. from cor. No. 1 of the Black Diamond No. 2 lode, 16 ft. wide, 3 ft. deep, running S.50° E., 35 ft. dist.
Value, \$210.
- No. 5 A trench, the northeast end of which bears S.1°30' W., 213 ft. from cor. No. 1 of the Black Diamond No. 2 lode, 7 ft. wide, 3 ft. deep, running S.45° W., 21 ft. dist.
Value, \$50.
- No. 6 A shaft, the center of which bears N.83°30' E., 860 ft. from cor. No. 4 of the Black Diamond No. 2/6 x 6 ft., 5 ft. deep.
Value, \$50.
- No. 1 The discovery point of the Black Diamond No. 1 lode is on the lode line S.52°13' W., 600 ft. from the center of line 1-2.
No value.

Survey No. 4466

9.

No. 2 A trench, the center of the southwest end bears N.40°49' W., 240 ft. from cor. No. 3 of the Black Diamond No. 1 lode, average width, 85 ft.; average depth, 5 ft., running N.69°11' E., 260 ft.
Value, \$5000.

No. 3 A trench, the east end of which bears S.41°12' W., 152 ft. from cor. No. 1 of the Black Diamond No. 1 lode, 50 ft. wide, 20 ft. deep, running S.70° W., 95 ft.
Value, \$7000.

OTHER IMPROVEMENTS

A steel tank, the center of which bears S.55°20' E., 267.04 ft. from cor. No. 4 Black Diamond No. 1 lode, 53 ft. diam., 24 ft. high.

Claimant Last Chance Mining Corporation.

A two story frame building, the southwest corner of which bears N.86°21' E., 297 ft. from cor. No. 4 of the Black Diamond No. 1 lode 62 x 31 ft. in size, the long sides bear N.36° E.

Claimant Last Chance Mining Corporation.

OTHER CORNER DESCRIPTIONS AND SUPPLEMENTAL DATA

Sur. No. 4383 Barbara 4 lode, cors. No. 1,2,3 and 4 are sandstones properly marked. Lines 1 - 2, 2 - 3, 3 - 4 and 4 - 1 were found correct as approved.

Sur. No. 4383 Barbara 3 lode, cors. No. 1,2 and 3 are sandstones properly marked. Cor. No. 4 has been destroyed. Line 2 - 3 was found correct as approved. Lines 3 - 4 and 4 - 1 shown as approved.

Sur. No. 4383 Barbara 2 lode, cors. No. 2 and 4 are sandstones properly marked. Cor. No. 3 has been destroyed. Line 2 - 3 and 3 - 4 shown as approved. I was unable to find the east $\frac{1}{4}$ cor. sec. 30 T.14 N., R 10 E. Gila and Salt River Meridian.

FIELD ASSISTANTS

Name	Capacity
J. B. Sarvis	Chainman
Hiram Barnes	Chainman

No. 2 A trench, the center of the southeast end bears N.40°W. 240 ft. from cor. No. 3 of the black diamond No. 1 lodge, average depth 5 ft., running N. 69° 11' E., 260 ft. Value, \$2000.

No. 3 A trench, the east end of which bears S. 41° 12' W., 153 ft. from cor. No. 1 of the black diamond No. 1 lodge, 50 ft. wide, 30 ft. deep, running S. 70° W., 95 ft. Value, \$7000.

OTHER IMPROVEMENTS

A steel tank, the center of which bears S. 70° 40' W., 201.04 ft. from cor. No. 4 black diamond No. 1 lodge, 53 ft. diam., 24 ft. high. Chairman last fence lining completed. A two story frame building, the southeast corner of which bears S. 30° 31' W., 227 ft. from cor. No. 4 of the black diamond No. 1 lodge, 22 x 31 ft. in size, the long sides bear S. 30° E. Chairman last fence lining completed.

OTHER LAND DEPOSITIONS AND SUBSTANTIAL DATA

Sec. No. 1333 Barber's Lodge, cor. No. 1, 2, 3 and 4 are sandstones properly marked. Lines 1 - 2, 2 - 3, 3 - 4 and 4 - 1 were found correct as approved. Sec. No. 1333 Barber's Lodge, cor. No. 1, 2 and 3 are sandstones properly marked. Cor. No. 4 has been destroyed. Line 2 - 3 was found correct as approved. Lines 3 - 4 and 4 - 1 shown as approved. Sec. No. 1333 Barber's Lodge, cor. No. 2 and 4 are sandstones properly marked. Cor. No. 3 has been destroyed. Lines 2 - 3 and 3 - 4 shown as approved. I was unable to find the east 1/2 cor. sec. 30. T. M. W., T. L. E. Gila and Self River Meridian.

FIELD ASSISTANTS

Name	Capacity
W. E. Jarvis	Chairman
William Barnes	Chairman

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

CERTIFICATE OF SURVEYOR

~~18 August~~, 19~~59~~

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 Oct. 1958 and 13 May 1959, I have faithfully and correctly executed the survey of
 the mining claim of Leo E. Shoup
 known as the Manganese #s 3, 4 and 5 lodes; Black Diamond Nos. 1 and 2 lodes
(Lode, placer, or mill site)
 situate in secs. 19, 20, 29 and 30
 T. 14 North, R. 10 East Gila and Salt River Meridian, Arizona, and
 designated as Survey No. 4466, 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--Cadastral Survey Off.
(Office)
Phoenix, Arizona November 12, 1959
(Place) (Date)

The foregoing field notes of mineral survey No. 4466, in Sections 19, 20, 29 and 30
T. 14 North, R. 10 East, Gila & Salt River Meridian,
Arizona, executed by Richard L. Merritt, Mineral Surveyor,
(State)
 under order dated amended May 13, 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
 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.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

CERTIFICATE OF REVOLUTION

Section 16, Township 12N, Range 10E, T12N, R10E, S14, T12N, R10E, S14

Section 16, Township 12N, Range 10E, T12N, R10E, S14, T12N, R10E, S14

Section 16, Township 12N, Range 10E, T12N, R10E, S14, T12N, R10E, S14

Section 16, Township 12N, Range 10E, T12N, R10E, S14, T12N, R10E, S14

Section 16, Township 12N, Range 10E, T12N, R10E, S14, T12N, R10E, S14

Section 16, Township 12N, Range 10E, T12N, R10E, S14, T12N, R10E, S14

Section 16, Township 12N, Range 10E, T12N, R10E, S14, T12N, R10E, S14

Section 16, Township 12N, Range 10E, T12N, R10E, S14, T12N, R10E, S14

Section 16, Township 12N, Range 10E, T12N, R10E, S14, T12N, R10E, S14

Section 16, Township 12N, Range 10E, T12N, R10E, S14, T12N, R10E, S14

Section 16, Township 12N, Range 10E, T12N, R10E, S14, T12N, R10E, S14

Section 16, Township 12N, Range 10E, T12N, R10E, S14, T12N, R10E, S14

CERTIFICATE OF REVENUE

Section 16, Township 12N, Range 10E, T12N, R10E, S14, T12N, R10E, S14

Section 16, Township 12N, Range 10E, T12N, R10E, S14, T12N, R10E, S14

Section 16, Township 12N, Range 10E, T12N, R10E, S14, T12N, R10E, S14

Section 16, Township 12N, Range 10E, T12N, R10E, S14, T12N, R10E, S14

Section 16, Township 12N, Range 10E, T12N, R10E, S14, T12N, R10E, S14

Section 16, Township 12N, Range 10E, T12N, R10E, S14, T12N, R10E, S14

Section 16, Township 12N, Range 10E, T12N, R10E, S14, T12N, R10E, S14

Section 16, Township 12N, Range 10E, T12N, R10E, S14, T12N, R10E, S14

Section 16, Township 12N, Range 10E, T12N, R10E, S14, T12N, R10E, S14

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CERTIFICATE OF REVENUE

Section 16, Township 12N, Range 10E, T12N, R10E, S14, T12N, R10E, S14

Section 16, Township 12N, Range 10E, T12N, R10E, S14, T12N, R10E, S14

Section 16, Township 12N, Range 10E, T12N, R10E, S14, T12N, R10E, S14

Section 16, Township 12N, Range 10E, T12N, R10E, S14, T12N, R10E, S14

UNITED STATES DEPARTMENT OF THE INTERIOR 9605 (956)
BUREAU OF LAND MANAGEMENT M.S. 4466
ARIZONA STATE OFFICE

NOTICE OF CANCELLATION OF MINERAL SURVEY

The Manganese # 3, Manganese # 4, Manganese # 5, Black Diamond No. 1 and Black Diamond No. 2 lodes, Mineral Survey No. 4466, located in sections 19, 20, 29 and 30, 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 # 3, Manganese # 4, Manganese # 5, Black Diamond No. 1 and Black Diamond No. 2 lodes, M.S. 4466, were canceled January 24, 2007, by memo 9605 (956) M.S. 4466, which is now a part of the original field notes."

January 24, 2007
Date

Stephen K. Hansen
Chief Cadastral Surveyor of Arizona

