

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

MINERAL SURVEY NO. 4449

.....  
..... Arizona ..... Land District.

**FIELD NOTES**

Of The Survey Of The Mining Claim Of

.....  
..... Alvis F. Denison .....

Known As The

.....  
..... Little Pine #s 4, 5, and 6 lodes .....

.....  
..... Mogollon Rim ..... Mining District,

.....  
..... Coconino County, Arizona .....

Section s 13 and 24 ....., Township No. 11 N. ....., Range No. 14 E., G. and S.R. Meridian  
.....  
..... Arizona .....

Surveyed under order dated April 4th, ....., 19 58

by Richard L. Merritt .....,  
Mineral Surveyor.

Claim located November 20th, ....., 19 50

Survey commenced June 3rd, ....., 19 58

Survey completed June 30th, ....., 19 58

Address of claimant Joseph H. Morgan, Atty, 322 Luhrs Bldg., 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:

June 4, 1958, at south end center Little Pine #4 lode in latitude 34°19'30" N and longitude 110°48'30" W, I made a series of six altitude observations upon the sun for azimuth at approximately-equal time intervals, three each with telescope in direct and reversed positions, observing opposite limbs of the sun, and reading the horizontal angle from a reference point about 300 ft. southwest to the left to the sun.

Mean time of observation, 105th meridian standard time 9h 18m 30s

Declination of sun at mean time of observation 22°25'30"

Mean observed vertical angle to sun's center 48°46'30"

Mean horizontal angle from reference point to sun's center 145°11'10"

True bearing to reference point on line 1-2, Little Pine #4 lode S 59°40'10" W.

The lines were measured with a Lufkin steel tape 400 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 15° E.

LITTLE PINE #4 LODE

Beginning at cor. No. 1 of the Little Pine #4 lode, identical with cor. No. 1, Survey 4360, Hillcrest No. 10 lode, on line 4-1, Survey 4360, Hillcrest No. 12 lode.

A sandstone, 10 x 6 ins., 14 ins. above the ground, mkd. X H16-1 - 4360. I mkd. stone IP4-1 - 4449; from which

The 1/4 cor. between sects. 13 and 24, T.11N., R.14E., Gila and Salt River Meridian, bears S. 89°00' W., 220.41 ft. dist.; an iron post, 3/4 ins. diam., with a brass cap, 12 ins. above the ground, marked and witnessed as described in the official record.

A pine, 18 ins. diam., bears S. 46°49' E., 31.06 ft. dist., mkd. X LP-4-1 - 4449 B T. Thence S. 59°40' W.



Chains  
Feet

300.0 Lode line; discovery point bears N. 30°20' W., 1395.0 ft. dist.

600.0 Cor. No. 2, identical with cor. No. 1 Little Pine #5 lode of this survey, on line 4-1, Survey No. 4360, Hillcrest No. 12 lode.

Set a sandstone, 24 x 12 x 3 ins., 13 ins. in the ground, mkd. X LP4-2 - IP5-1 - 4449.

Thence N. 30°20' W.

1500.0 Cor. No. 3, identical with cor. No. 4, Little Pine #5 lode of this survey and cor. No. 3, Survey 4352, Campbell and Denison No. 7 lode, and with cor. No. 4, Survey 4352, Campbell and Denison No. 6 lode, a sandstone, 12 x 4 ins., 12 ins. above the ground, mkd. CD7-3 - CD6-4 - 4352. I mkd. stone LP4-3 - IP5-4 - 4449; from which

A pine, 14 ins. diam., bears S. 56° 40' E., 44.27 ft. dist., mkd., XLP4-3 - IP5-4 - 4449 B T.

Thence N. 59°40' E.

300.0 Lode line; discovery point bears S. 30°20' E., 105.0 ft. dist.

600.0 Cor. No. 4, identical with cor. No. 2, Survey 4360, Hillcrest No. 10 lode, cor. No. 3, Survey 4352, Campbell and Denison No. 6 lode, cor. No. 4, Survey 4352, Campbell and Denison No. 5 lode, a sandstone, 18 x 4 ins., 13 ins. above the ground, mkd. X H10-2 - 4360 - CD6-3 - CD5-4 - 4352. I mkd. stone LP4-4 - 4449; from which

A pine, 14 ins. diam., bears N. 10°10' W., 18.14 ft. dist., mkd. X LP4-4 - 4449 B T.

Thence S. 30°20' E.

1500.0 Cor. No. 1, and place of beginning.

#### LITTLE PINE #5 LODE

Beginning at cor. No. 1 of the Little Pine #5 lode, identical with cor. No. 2 Little Pine #4 lode of this survey, on line 4-1, Sur. No. 4360, Hillcrest No. 12 lode, from which

The 1/4 cor. between secs. 13 and 24, T.11N., R.14E., Gila and Salt River Meridian, bears N. 44°50'15" E., 421.9 ft. dist.

Thence S. 59°40' W.

300.0 Lode line; discovery point bears N. 30°20' W., 1410.0 ft. dist.

600.0 Cor. No. 2, identical with cor. No. 3 Little Pine #6 lode of this survey, and cor. No. 4, Survey 4360, Hillcrest No. 12 lode, a sandstone, 10 x 4 ins., 12 ins. above the ground, mkd. X H12-4 - 4360. I mkd. stone LP5-2 - IP6-3 - 4449; from which

A pine, 24 ins. diam., bears S. 78°09' W., 24.53 ft. dist., mkd. X LP5-2 - IP6-3 - 4449 B T.

Thence N. 30°20' W.

1500.0 Cor. No. 3, identical with cor. No. 2 Little Pine #6 lode of this survey, cor. No. 4, Survey 4352, Campbell and Denison No. 8 lode,

Survey No. 4449

Chains Feet	
100.00 100.00 100.00	<p>cor. No. 4, Survey 4352, Campbell and Denison No. 7 lode, a sandstone, 13 x 5 ins., 14 ins. above the ground, mkd. X CD-8-4 - CD7-4 - 4352. I mkd. stone LP5-3 - LP6-2 - 4449; from which</p> <p>A pine, 14 ins. diam., bears S. 23°16' E., 28.15 ft. dist., mkd. X LP5-3 - LP6-2 - 4449 B T.</p>
300.00	<p>Thence N. 59°40' E.</p> <p>Lode line; discovery point bears S. 30°20' E., 90.0 ft. dist.</p>
600.00	<p>Cor. No. 4, identical with cor. No. 3 Little Pine #4 lode of this survey, cor. No. 3, Survey 4352, Campbell and Denison No. 7 lode, cor. No. 4, Survey 4352, Campbell and Denison No. 6 lode.</p> <p>Thence S. 30°20' E.</p>
1500.00	<p>Cor. No. 1, and place of beginning.</p>
1500.00	<p><b>LITTLE PINE #6 LODE</b></p> <p>Beginning at cor. No. 1 of the Little Pine #6 lode, identical with cor. No. 4, Survey 4352, Campbell and Denison No. 9 lode, cor. No. 1, Survey 4352, Campbell and Denison No. 8 lode, a sandstone 12 x 4 ins., 14 ins. above the ground, mkd. X CD9-4 - CD8-1 - 4352. I mkd. stone LP6-1 - 4449; from which</p>
1000.00	<p>The cor. common to secs. 13, 14, 23, and 24, T. 11N., R. 14E., Gila and Salt River Meridian, bears S. 54°54' W., 675.08 ft. dist.; an iron post with brass cap, 2 ins. diam., 14 ins. above the ground, marked and witnessed as described in the official record.</p>
600.00	<p>A pine, 26 ins. diam., bears S. 7°40' E., 21.19 ft. dist., mkd. X LP6-1 - 4449 B T.</p> <p>Thence N. 59°40' E.</p>
300.00	<p>Lode line; discovery point bears S. 30°20' E., 65.0 ft. dist.</p>
600.00	<p>Cor. No. 2, identical with Cor. No. 3 Little Pine #5 lode of this survey, cor. No. 4, Survey 4352, Campbell and Denison No. 8 lode, Cor. No. 4, Survey 4352, Campbell and Denison No. 7 lode.</p> <p>Thence S. 30°20' E.</p>
1500.00	<p>Cor. No. 3, identical with cor. No. 2 Little Pine #5 lode of this survey, cor. No. 4, Survey 4360, Hillcrest No. 12 lode.</p> <p>Thence S. 59°40' W.</p>
300.00	<p>Lode line; discovery point bears N. 30°20' W., 1435.0 ft. dist.</p>
600.00	<p>Cor. No. 4</p> <p>Set a sandstone, 24 x 16 x 4 ins., 13 ins. in the ground, mkd. X LP6-4 - 4449; from which</p> <p>A pine, 18 ins. diam., bears N. 62°53' W., 44.28 ft. dist., mkd. X LP6-4 - 4449 B T.</p> <p>Thence N. 30°20' W.</p>
1500.00	<p>Cor. No. 1, and place of beginning.</p>



Chains  
Feet

AREAS

Acres  
20.661  
20.661  
20.661

Total area, Little Pine #4 lode  
Total area, Little Pine #5 lode  
Total area, Little Pine #6 line

LOCATION

This survey is located in the SW 1/4 sec. 13, the SE 1/4 sec. 13, the NW 1/4 sec. 24, and the NE 1/4 sec. 24, T.11N., R.14E., Gila and Salt River Meridian, within the Sitgreaves National Forest.

The survey of the Little Pine #4 lode, Little Pine #5 lode, Little Pine No. 6 lode, 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 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 Little Pine #4 lode is on the lode line S. 30° 20' E., 105.0 ft. from the center of line 3-4.  
Value, No Value.
- No. 2. A trench, the north end of which bears S. 39° 45' W., 290.0 ft. from cor. No. 4 Little Pine #4 lode, 18.0 ft. wide, 18.0 ft. deep, running S. 5° E., 93.0 ft.  
Value, \$1000.
- No. 3. A trench, the east end of which bears S. 16° W., 114.0 ft. from Cor. No. 4 Little Pine #4 lode, 12.0 ft. wide, 2.0 ft. deep, running S. 50° W., 63.0 ft.  
Value, \$120.
- No. 4. A trench, the north end of which bears N. 59° 40' E., 60.0 ft. from cor. No. 3 Little Pine #4 lode, 8.0 ft. wide, 7.0 ft. deep, running S. 40° E., 21.0 ft.  
Value, \$50.
- No. 5. A trench, the west end of which bears N. 81° E., 180.0 ft. from cor. No. 3 Little Pine #4 lode, 8.0 ft. wide, 3.0 ft. deep, running N. 50° E., 20.0 ft.  
Value, \$50.
- No. 6. A trench, the east end of which bears S. 53° E., 169.0 ft. from cor. No. 3 Little Pine #4 lode, 7.0 ft. wide, 3.0 ft. deep, running S. 70° W., 20.0 ft.  
Value, \$50.
- No. 7. A trench, the north end of which bears S. 65° E., 235.0 ft. from cor. No. 3 Little Pine #4 lode, 12.0 ft. wide, 3.0 ft. deep, running S. 15° W., 63.0 ft.  
Value, \$325.
- No. 8. A trench, the south end of which bears N. 30° 20' W., 485.0 ft. from cor. No. 2 Little Pine #4 lode, 12.0 ft. wide, 1.0 ft. deep, running N. 35° E., 30.0 ft.  
Value, \$30.

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Chains Feet	
No. 9.	A trench, the south end of which bears N. 22°30' W., 358.0 ft. from cor. No. 2 Little Pine #4 lode, 12.0 ft. wide, 2.0 ft. deep, running N. 20° W., 61.0 ft. Value, \$150.
No. 10.	A shaft, the center of which bears N. 18°30' W., 390.0 ft. from cor. No. 2 Little Pine #4 lode; 5 x 5 ft., 20.0 ft. deep. Value, \$300.
No. 1.	The discovery trench of the Little Pine #5 lode, the center of the width of which being the discovery point, is on the lode S. 30° 20' E., 90.0 ft. from the center of line 3-4, 18.0 ft. wide, 5.0 ft. deep, running N. 10° E., 35.0 ft. and S. 10° W., 65.0 ft. from lode line. Value, \$700.
No. 2.	A trench, the west end of which bears N. 76°30' E., 243.0 ft. from cor. No. 3 Little Pine #5 lode, 12.0 ft. wide, 6.0 ft. deep, running S. 75° E., 23.0 ft. Value, \$150.
No. 3.	A trench, the north end of which bears S. 81° E., 75.0 ft. from cor. No. 3 Little Pine #5 lode, 6.0 ft. wide, 6.0 ft. deep, running S. 50° E., 22.0 ft. Value, \$75.
No. 4.	A trench, the west end of which bears S. 30°20' E., 90.0 ft. from cor. No. 3 Little Pine #5 lode, 14.0 ft. wide, 1.0 ft. deep, running N. 50° E., 47.0 ft. Value, \$50.
No. 5.	A trench, the west end of which bears S. 30°20' E., 200.0 ft. from cor. No. 3 Little Pine #5 lode, 14.0 ft. wide, 1.0 ft. deep, running N. 50° E., 44.0 ft. Value, \$50.
No. 6.	A trench, the north end of which bears S. 10° E., 274.0 ft. from cor. No. 4 Little Pine #5 lode, 12.0 ft. wide, 2.0 ft. deep, running S. 35° W., 85.0 ft. Value, \$200.
No. 7.	A trench, the east end of which bears S. 15° E., 758.0 ft. from cor. No. 4 Little Pine #5 lode, 5.0 ft. wide, 5.0 ft. deep, running N. 85° W., 20.0 ft. Value, \$50.
No. 8.	A trench, the east end of which bears N. 52° W., 787.0 ft. from cor. No. 1 Little Pine #5 lode, 10.0 ft. wide, 5.0 ft. deep, running S. 85° W., 20.0 ft. Value, \$100.
No. 9.	A trench, the north end of which bears N. 30°20' W., 485.0 ft. from cor. No. 1 Little Pine #5 lode, 12.0 ft. wide, 1.0 ft. deep, running S. 35° W., 22.0 ft. Value, \$25.
No. 1.	The discovery point of Little Pine #6 lode, is on the lode line S. 30°20' E., 65.0 ft. from the center of line 1-2. No Value.



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Survey No. 4449

Chains  
Feet

- No. 2. A trench, the north end of which bears S. 46° W., 260.0 ft. from cor. No. 2 Little Pine #6 lode, 18.0 ft. wide, 8.0 ft. deep, running S. 20° W., 93.0 ft. Value, \$1000.
- No. 3. A trench, the north end of which bears S. 50° E., 367.0 ft. from cor. No. 1, Little Pine #6 lode, 5.0 ft. wide, 6.0 ft. deep, running S. 15° W., 27.0 ft. Value, \$75.
- No. 4. A trench, the north end of which bears S. 43° E., 385.0 ft. from cor. No. 1 Little Pine #6 lode, 5.0 ft. wide, 6.0 ft. deep, running S. 40° W., 24.0 ft. Value, \$60.
- No. 5. A trench, the north end of which bears S. 7° W., 26.0 ft. from cor. No. 2 Little Pine #6 lode, 9.0 ft. wide, 6.0 ft. deep, running S. 20° E., 22.0 ft. Value, \$100.
- No. 6. A trench, the north end of which bears S. 22° W., 138.0 ft. from cor. No. 2 Little Pine #6 lode, 14.0 ft. wide, 3.0 ft. deep, running S. 7° E., 82.0 ft. Value, \$250.
- No. 7. A trench, the east end of which bears S. 30° 20' E., 90.0 ft. from cor. No. 2 Little Pine #6 lode, 14.0 ft. wide, 1.0 ft. deep, running S. 50° W., 33.0 ft. Value, \$50.00
- No. 8. A trench, the east end of which bears S. 30° 20' E., 200.0 ft. from cor. No. 2 Little Pine #6 lode, 14.0 ft. wide, 1.0 ft. deep, running S. 50° W., 156.0 ft. Value, \$75.
- No. 9. A trench, the west end of which bears S. 56° 50' E., 610.0 ft. from cor. No. 1 Little Pine #6 lode, 7.0 ft. wide, 7.0 ft. deep, running N. 60° E., 20.0 ft. Value, \$90.
- No. 10. A trench, the south end of which bears N. 14° 30' W., 860.0 ft. from cor. No. 4 Little Pine #6 lode, 6.0 ft. wide, 7.0 ft. deep, running N. 20° E., 20.0 ft. Value, \$75.
- No. 11. A trench, the east end of which bears N. 48° 30' W., 780.0 ft. from cor. No. 3 Little Pine #6 lode, 10.0 ft. wide, 5.0 ft. deep, running S. 60° W., 21.0 ft. Value, \$100.

OTHER IMPROVEMENTS

None.

OTHER CORNER DESCRIPTIONS AND SUPPLEMENTAL DATE

The tie from cor. No. 1, Survey 4352, Campbell and Denison No. 8 lode to the SE cor. sec. 14, T. 11N, R. 14E., Gila and Salt River Meridian, was found to be S. 54° 54' W., 675.08 ft. instead of S. 54° 50' W., 675.08 as reported.

The line bet. the S. 1/4 sec. cor. of secs. 13, 14, 23 and 24, was found to be N. 89° 58' 40" W., 2643.06 ft. dist., instead of S. 89° 59' W., 2646.60 ft. as shown in the record.



Survey No. 4449

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Chains Feet	FIELD ASSISTANTS		Capacity
	Name		Capacity
	J. B. Sarvis		Chainman
	Keith Bunn		Chainman
	Edward Bowers		Chainman

Chains

FIELD ASSISTANTS

Serial  
List

1  
2  
3

1  
2  
3

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

CERTIFICATE OF SURVEYOR

June 30th, 19 58

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 April 4th, 1958, I have faithfully and correctly executed the survey of  
 the mining claim of Alvis F. Denison  
 known as the Little Pine #s 4, 5, and 6 lodes  
(Lode, placer, or mill site)  
 situate in Mogollon Rim Mining Districts, in secs. 13 and 24  
T. No. 11 N., R. No. 14 E., G. and S. R. Meridian, Arizona, and  
(State)  
 designated as Survey No. 4449, 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  
(Lode or placer) location(s) embraced in the said mining claim by  
 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 February 20, 19 59  
(Place) (Date)

The foregoing field notes of mineral survey No. 4449, in Secs. 13 and 24  
 \_\_\_\_\_, T. 11 N., R. 14 E., G&SR Meridian,  
 \_\_\_\_\_, executed by Richard L. Merritt, Mineral Surveyor,  
(State)  
 under order dated April 4, 1958, 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)



CERTIFICATE OF SURVEYOR

June 30, 1928

Richard J. Harshiff

CITIZEN OF [illegible] [illegible]

April 15, 1928

Alvin P. Darnish

Little Pine No. 1, 2, and 3

Location in [illegible] [illegible]

Arizona

[Faint, mostly illegible text, likely describing the survey details and findings.]

Prescott, Arizona

CERTIFICATE OF APPROVAL

[Faint, mostly illegible text, likely the approval section of the certificate.]

CERTIFICATE OF TRANSFER

[Faint, mostly illegible text, likely the transfer section of the certificate.]