

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

MINERAL SURVEY NO. 4361

ARIZONA

Arizona Land District.

FIELD NOTES

Of The Survey Of The Mining Claim Of

Alvis F. Denison

Known As The

Hillcrest Nos. 13 to 20 inclusive, lode mining claims

Mogollon Rim Mining District,

Coconino County, Arizona

Sections 18 and 19, Township 11 North, Range 15 East, Gila and Salt River Meridian.

Surveyed under order dated October 22nd, 1951

by Richard L. Merritt
Mineral Surveyor.

Claim located August 1st, 1950

Survey commenced October 24th, 1951

Survey completed November 30th, 1951

Address of claimant Joseph H. Morgan, Attorney
Luhrs Building, Phoenix, Arizona

DATES OF AMENDED LOCATIONS

September 10th, 1951

This survey was made with a Berger 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 this record were determined by the method of deflection angles referred to the meridian determined by an A.M. altitude observation on the sun, the details of which observation are shown in the calculation sheets submitted for examination. Details of a meridian altitude observation on the sun for latitude and a meridian observation at noon for time are submitted for examination.

The lines were measured with a Lufkin steel tape 500 feet in length, graduated every foot, the first foot being graduated to tenths and hundredths.

All lines and connections of this survey were run by direct methods.

The magnetic variation observed at each corner of this survey gave a uniform value of 15°00' E.

Feet

HILLCREST NO. 14 LODE

At cor. No. 1 Hillcrest No. 14 lode, identical with cor. No. 1 Hillcrest No. 13 lode of this survey.

Set a sandstone, 30 x 10 x 4 ins., 16 ins. in the ground, mkd. X 1 H 14 - 1 H 13 - 4361; from which

The 1/4 cor. bet. secs. 18 and 19, T. 11 N., R. 15 E., G. and S. R. B. and M., bears S. 49°41'30" E., 455.89 ft. dist., an iron post, 3/4 ins. diam., 14 ins. above ground, with brass cap firmly set, marked and witnessed as described in the official record.

A pine, 24 ins. in diam., bears S. 76°20' W., 44.7 ft. dist., mkd. X B T 1 H 14 - 1 H 13 - 4361.

Thence S. 30°20' E.

1500.0

Cor. No. 2, identical with cor. No. 4 Hillcrest No. 13, cor. No. 1 Hillcrest No. 16, cor. No. 1 Hillcrest No. 15 lodes of this survey.

Set a sandstone, 26 x 14 x 5 ins., 16 ins. in the ground, mkd. X 2 H 14 - 4 H 13 - 1 H 16 - 1 H 15 - 4361; from which

A pine, 18 ins. diam., bears N. 15°46' W., 40.65 ft. dist., mkd. X B T 2 H 14 - 4 H 13 - 1 H 16 - 1 H 15 - 4361.

Thence S. 59°40' W.

300.0

Lode line; discovery point bears N. 30°20' W., 81 ft. dist.

600.0

Cor. No. 3, identical with cor. No. 4 Hillcrest No. 15, cor. No. 1 Hillcrest No. 19 lodes of this survey.

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Feet	Set a sandstone, 30 x 12 x 10 ins., 16 ins. in the ground, mkd. X 3 H 14 - 4 H 15 - 1 H 19 - 4361; from which A pine, 24 ins. diam., bears S. 51°11' E., 33.75 ft. dist., mkd. X B T 3 H 14 - 4 H 15 - 1 H 19 - 4361. Thence N. 30°20' W.
1500.0	Cor. No. 4. Set a sandstone, 28 x 8 x 6 ins., 16 ins. in the ground, mkd. X 4 H 14 - 4361; from which A pine, 30 ins. diam., bears S. 7°18' E., 30 ft. dist., mkd. X B T 4 H 14 - 4361. Thence N. 59°40' E.
300.0	Lode line; discovery point bears S. 30°20' E., 1419 ft. dist.
600.0	Cor. No. 1, and the place of beginning. HILLCREST NO. 13 LODE Beginning at cor. No. 1 of the Hillcrest No. 13 lode, identical with cor. No. 1 Hillcrest No. 14 lode of this survey. Thence N. 59°40' E.
1300.0	Lode line; discovery point bears S. 30°20' E., 1384 ft. dist.; location monument bears S. 59°40' W., 15 ft. dist.
303.43	Center of road, bears S. 76°42' E., and N. 76°42' W.
600.0	Cor. No. 2. Set a sandstone, 36 x 8 x 6 ins., 18 ins. in the ground, mkd. X 2 H 13 - 4361; from which A pine, 24 ins. diam., bears S. 8°04' W., 16.95 ft. dist., mkd. X B T 2 H 13 - 4361. Thence S. 30°20' E.
272.0	Center of road, bears S. 77°47' E., and N. 77°47' W.
1500.0	Cor. No. 3, identical with cor. No. 2 Hillcrest No. 16 lode of this survey. Set a sandstone, 28 x 12 x 4 ins., 16 ins. in the ground, mkd. X 3 H 13 - 2 H 16 - 4361; from which A pine, 16 ins. diam., bears S. 61°26' W., 12 ft. dist., mkd. X B T 3 H 13 - 2 H 16 - 4361. Thence S. 59°40' W.
300.0	Lode line; discovery point bears N. 30°20' W., 116 ft. dist.
600.0	Cor. No. 4, identical with cor. No. 1 Hillcrest No. 16, cor. No. 1 Hillcrest No. 15, cor. No. 2 Hillcrest No. 14 lodes of this survey.

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Feet	Thence N. 30°20' W.
1500.0	Cor. No. 1, and the place of beginning. HILLCREST NO. 16 LODE Beginning at cor. No. 1 Hillcrest No. 16 lode, identical with cor. No. 1 Hillcrest No. 15, cor. No. 2 Hillcrest No. 14, cor. No. 4 Hillcrest No. 13 lodes of this survey; from which The 1/4 cor. bet. secs. 18 and 19, T. 11 N., R. 15 E., G. and S. R. B. and M., bears N. 22°17'40" W., 1080.51 ft. dist., previously described. Thence N. 59°40' E.
300.0	Lode line; discovery point bears S. 30°20' E., 258 ft. dist.
600.0	Cor. No. 2, identical with cor. No. 3 Hillcrest No. 13 lode of this survey. Thence S. 30°20' E.
1500.0	Cor. No. 3. Set a sandstone, 26 x 8 x 6 ins., 16 ins. in the ground, mkd. X 3 H 16 - 4361; from which A pine, 18 ins. diam., bears N. 20°08' E., 17.3 ft. dist., mkd. X B T 3 H 16 - 4361. Thence S. 59°40' W.
300.0	Lode line; discovery point bears N. 30°20' W., 1242 ft. dist.
600.0	Cor. No. 4, identical with cor. No. 2 Hillcrest No. 15 lode of this survey. Set a sandstone, 28 x 12 x 6 ins., 16 ins. in the ground, mkd. X 4 H 16 - 2 H 15 - 4361; from which A pine, 18 ins. diam., bears N. 68°24' E., 22.45 ft. dist., mkd. X B T 4 H 16 - 2 H 15 - 4361. Thence N. 30°20' W.
1500.0	Cor. No. 1, and the place of beginning. HILLCREST NO. 15 LODE Beginning at cor. No. 1 Hillcrest No. 15 lode, identical with cor. No. 2 Hillcrest No. 14, cor. No. 4 Hillcrest No. 13, cor. No. 1 Hillcrest No. 16 lodes of this survey. Thence S. 30°20' E.
1500.0	Cor. No. 2, identical with cor. No. 4 Hillcrest No. 16 lode of this survey. Thence S. 59°40' W.
300.0	Lode line; discovery point bears N. 30°20' W., 1317 ft. dist.

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Feet	
600.0	<p>Cor. No. 3, identical with cor. No. 2 Hillcrest No. 19 lode of this survey.</p> <p>Set a sandstone, 30 x 12 x 4 ins., 16 ins. in the ground, mkd. X 3 H 15 - 2 H 19 - 4361; from which</p> <p>A pine, 20 ins. diam., bears S. 48°23' E., 19.47 ft. dist., mkd. X B T 3 H 15 - 2 H 19 - 4361.</p> <p>Thence N. 30°20' W.</p>
1500.0	<p>Cor. No. 4, identical with cor. No. 1 Hillcrest No. 19, cor. No. 3 Hillcrest No. 14 lodes of this survey.</p> <p>Thence N. 59°40' E.</p>
300.0	<p>Lode line; discovery point bears S. 30°20' E., 183 ft. dist.</p>
600.0	<p>Cor. No. 1, and the place of beginning.</p> <p style="text-align: center;">HILLCREST NO. 19 LODE of the Hillcrest No. 19 lode</p> <p>Beginning at cor. No. 1, identical with cor. No. 3 Hillcrest No. 14, cor. No. 4 Hillcrest No. 15 lodes of this survey; from which</p> <p>The 1/4 cor. bet. secs. 18 and 19, T. 11 N., R. 15 E., G. and S. R. B. and M., bears N. 4°44'15" E., 1307.23 ft. dist., previously described.</p> <p>Thence S. 30°20' E.</p>
1500.0	<p>Cor. No. 2, identical with cor. No. 3 Hillcrest No. 15 lode of this survey.</p> <p>Thence S. 59°40' W.</p>
300.0	<p>Lode line; identical with cor. No. 3 Hillcrest No. 17 lode of this survey; discovery point bears N. 30°20' W., 101 ft. dist.</p>
600.0	<p>Cor. No. 3, identical with cor. No. 3 Hillcrest No. 20 lode of this survey.</p> <p>On line 2-3 Hillcrest No. 17 lode of this survey.</p> <p>Set a sandstone, 24 x 10 x 4 ins., 16 ins. in the ground, mkd. X 3 H 19 - 3 H 20 - 4361; from which</p> <p>A pine, 24 ins. diam., bears S. 12°27' E., 36.63 ft. dist., mkd. X B T 3 H 19 - 3 H 20 - 4361.</p> <p>Thence N. 30°20' W.</p>
1500.0	<p>Cor. No. 4, identical with cor. No. 2 Hillcrest No. 20 lode of this survey.</p> <p>Set a sandstone, 28 x 10 x 10 ins., 16 ins. in the ground, mkd. X 4 H 19 - 2 H 20 - 4361; from which</p> <p>A pine, 20 ins. diam., bears N. 39°30' E., 37.10 ft. dist., mkd. X B T 4 H 19 - 2 H 20 - 4361.</p>

Feet	Thence N. 59°40' E.
300.0	Lode line; discovery point bears S. 30°20' E., 1399 ft. dist.
600.0	Cor. No. 1, and the place of beginning.
	HILLCREST NO. 20 LODE
	At cor. No. 1 Hillcrest No. 20 lode.
	Set a sandstone, 26 x 12 x 10 ins., 16 ins. in the ground, mkd. X 1 H 20 - 4361; from which
	The west 1/4 cor. sec. 19, T. 11 N., R. 15 E., G. and S. R. B. and M., bears S. 63°54'40" W., 1649.47 ft. dist., an iron post, 3/4 ins. diam., 15 ins. above ground, with brass cap, firmly set, marked and witnessed as described in the official record.
	A pine, 18 ins. diam., bears N. 21°27' E., 43.98 ft. dist., mkd. X B T 1 H 20 - 4361.
	Thence N. 59°40' E.
300.0	Lode line; discovery point bears S. 30°20' E., 1402 ft. dist.
600.0	Cor. No. 2, identical with cor. No. 4 Hillcrest No. 19 lode of this survey.
	Thence S. 30°20' E.
1500.0	Cor. No. 3, identical with cor. No. 3 Hillcrest No. 19 lode of this survey.
	Thence S. 59°40' W.
300.0	Lode line; discovery point bears N. 30°20' W., 98 ft. dist.
600.0	Cor. No. 4.
	On line 2-3 Hillcrest No. 17 lode of this survey.
	Set a sandstone, 24 x 8 x 8 ins., 16 ins. in the ground, mkd. X 4 H 20 - 4361; from which
	A pine, 18 ins. diam., bears N. 81°37' E., 21 ft. dist., mkd. X B T 4 H 20 - 4361.
	Thence N. 30°20' W.
1500.0	Cor. No. 1, and the place of beginning.
	HILLCREST NO. 17 LODE
	At cor. No. 1 Hillcrest No. 17 lode, identical with cor. No. 2 Hillcrest No. 18 lode of this survey.
	Set a sandstone, 30 x 10 x 8 ins., 16 ins. in the ground, mkd. X 1 H 17 - 2 H 18 - 4361; from which
	The south 1/4 cor. sec. 19, T. 11 N., R. 15 E., G. and S. R. B. and M., bears S. 25°55' E., 1384.52 ft. dist., an iron post, 3/4 ins. diam., 14 ins. above ground, with brass cap,

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Feet	firmly set, marked and witnessed as described in the official record.
	A pine, 18 ins. diam., bears N. 24°49' W., 43.33 ft. dist., mkd. X B T 1 H 17 - 2 H 18 - 4361.
	Thence N. 30°20' W.
300.0	Lode line; discovery point bears N. 59°40' E., 1359 ft. dist.
600.0	Cor. No. 2.
	Set a sandstone, 28 x 8 x 8 ins., 16 ins. in the ground, mkd. X 2 H 17 - 4361; from which
	A pine, 18 ins. diam., bears S. 77°15' W., 29.68 ft. dist., mkd. X B T 2 H 17 - 4361.
	Thence N. 59°40' E.
600.0	Cor. No. 4 Hillcrest No. 20 lode of this survey.
900.0	Lode line; Hillcrest No. 20 lode of this survey.
1200.0	Cor. No. 3 Hillcrest No. 20, identical with cor. No. 3 Hillcrest No. 19 lodes of this survey.
1500.0	Cor. No. 3, identical with lode line Hillcrest No. 19 lode of this survey.
	On line 2-3 Hillcrest No. 19 lode of this survey.
	Set a sandstone, 28 x 10 x 8 ins., 16 ins. in the ground, mkd. X 3 H 17 - 4361; from which
	A pine, 24 ins. diam., bears N. 66°12' E., 98.74 ft. dist., mkd. X B T 3 H 17 - 4361.
	Thence S. 30°20' E.
300.0	Lode line; discovery point bears S. 59°40' W., 141 ft. dist.
600.0	Cor. No. 4, identical with cor. No. 3 Hillcrest No. 18 lode of this survey.
	Set a sandstone, 24 x 8 x 4 ins., 16 ins. in the ground, mkd. X 4 H 17 - 3 H 18 - 4361; from which
	A pine, 18 ins. diam., bears N. 6°50' W., 14.45 ft. dist., mkd. X B T 4 H 17 - 3 H 18 - 4361.
	Thence S. 59°40' W.
1500.0	Cor. No. 1, and the place of beginning.
	HILLCREST NO. 18 LODGE
	At cor. No. 1 Hillcrest No. 18 lode.
	Set a sandstone, 26 x 12 x 10 ins., 16 ins. in the ground, mkd. X 1 H 18 - 4361; from which
	The south 1/4 cor. sec. 19, T. 11 N., R. 15 E., G. and S. R. B. and M., bears S. 22°33'10" E., 787.65 ft. dist., previously described.

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Feet	A pine, 16 ins. diam., bears N. 89° 33' W., 33.45 ft. dist., mkd. X B T 1 H 18 - 4361.
	Thence N. 30°20' W.
300.0	Lode line; discovery point bears N. 59°40' E., 1348 ft. dist.
600.0	Cor. No. 2, identical with cor. No. 1 Hillcrest No. 17 lode of this survey.
	Thence N. 59°40' E.
1500.0	Cor. No. 3, identical with cor. No. 4 Hillcrest No. 17 lode of this survey.
	Thence S. 30°20' E.
300.0	Lode line; discovery point bears S. 59°40' W., 152 ft. dist.
600.0	Cor. No. 4.
	Set a sandstone, 28 x 12 x 8 ins., 16 ins. in the ground, mkd. X 4 H 18 - 4361; from which
	A pine, 20 ins. diam., bears S. 8°57' W., 29.6 ft. dist., mkd. X B T 4 H 18 - 4361.
	Thence S. 59°40' W.
1500.0	Cor. No. 1, and the place of beginning.

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AREAS

	Acres
Total area, Hillcrest No. 14 lode	20.661
Total area, Hillcrest No. 13 lode	20.661
Total area, Hillcrest No. 16 lode	20.661
Total area, Hillcrest No. 15 lode	20.661
Total area, Hillcrest No. 19 lode	20.661
Total area, Hillcrest No. 20 lode	20.661
Total area, Hillcrest No. 17 lode	20.661
Total area, Hillcrest No. 18 lode	20.661

LOCATION

This survey is located in NW 1/4, NE 1/4, SE 1/4, and SW 1/4, sec. 19, SE 1/4, SW 1/4, sec. 18, T. 11 N., R. 15 E., G. and S. R. B. and M., within the Sitgreaves National Forest.

The survey of all lodes is identical with the locations amended as marked on the ground. The location monuments, all mounds of stones, 3 ft. base by 3 ft. high, were rebuilt alongside at the four corners of each claim.

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 Hillcrest No. 14 lode is on the lode

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- line, 1419 ft. S. 30°20' E., from the center of line 4-1.
No value.
- No. 2 A trench, the east end of which bears S. 69°00' W., 250 ft. from cor. No. 2 Hillcrest No. 14 lode; 12 ft. wide, 3 ft. deep, running S. 72° W., 65 ft.
Value, \$300.
- No. 3 A trench, the north end of which bears N. 88°04' W., 260 ft. from cor. No. 2 Hillcrest No. 14 lode; 12 ft. wide, 1 ft. deep, running S. 22° W., 50 ft.
Value, \$60.
- No. 4 A trench, the east end of which bears N. 63°35' W., 220 ft. from cor. No. 2 Hillcrest No. 14 lode; 12 ft. wide, 2.5 ft. deep, running S. 80° W., 60 ft.
Value, \$170.
- No. 5 A trench, the east end of which bears S. 59°40' W., 476 ft. from cor. No. 2 Hillcrest No. 14 lode; 13 ft. wide, 1 ft. deep, running N. 55° W., 60 ft.
Value, \$70.
- No. 1 The discovery point of the Hillcrest No. 13 lode is on the lode line, 1384 ft. S. 30°20' E., from the center of line 1-2.
No value.
- No. 2 A trench, the north end of which bears west 311 ft. from cor. No. 3 Hillcrest No. 13 lode; 12 ft. wide, 1.5 ft. deep, running S. 24° W., 40 ft.
Value, \$65.
- No. 3 A trench, the south end of which bears N. 50°17' E., 336 ft. from cor. No. 4 Hillcrest No. 13 lode; 13 ft. wide, 3 ft. deep, running N. 30° E., 65 ft.
Value, \$240.
- No. 4 A trench, the north end of which bears S. 74°41' W., 195 ft. from cor. No. 3 Hillcrest No. 13 lode; 13 ft. wide, 3.5 ft. deep, running S. 5° W., 45 ft.
Value, \$180.
- No. 5 A trench, the northwest end of which bears N. 1°03' E., 480 ft. from cor. No. 4 Hillcrest No. 13 lode; 12 ft. wide, 0.5 ft. deep, running S. 50° E., 35 ft.
Value, \$25.
- No. 1 The discovery point of the Hillcrest No. 16 lode is on the lode line, 258 ft. S. 30°20' E., from the center of line 1-2.
No value.
- No. 2 A trench, the south end of which bears S. 75°20' E., 365 ft. from cor. No. 1 Hillcrest No. 16 lode; 12 ft. wide, 3 ft. deep, running N. 25° E., 50 ft.
Value, \$165.
- No. 3 A hole, the center of which bears S. 17°20' W., 290 ft. from cor. No. 2 Hillcrest No. 16 lode; 6 ft. diam., 4 ft. deep.
Value, \$30.
- No. 4 A trench, the east end of which bears S. 5°02' W., 293 ft. from cor. No. 2 Hillcrest No. 16 lode; 12 ft. wide, 1 ft. deep, running S. 62° W., 35 ft.
Value, \$25.

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| No. 5 | A trench, the north end of which bears S. $0^{\circ}50'$ E., 313 ft. from cor. No. 2 Hillcrest No. 16 lode; 12 ft. wide, 2 ft. deep, running S. 35° W., 40 ft.
Value, \$100. |
| No. 6 | A trench, the east end of which bears N. $33^{\circ}12'$ W., 442 ft. from cor. No. 3 Hillcrest No. 16 lode; 12 ft. wide, 2 ft. deep, running S. 85° W., 60 ft.
Value, \$150. |
| No. 7 | A trench, the west end of which bears N. $43^{\circ}13'$ E., 180 ft. from cor. No. 4 Hillcrest No. 16 lode; 12 ft. wide, 3 ft. deep, running N. 70° E., 50 ft.
Value, \$165. |
| No. 1 | The discovery point of the Hillcrest No. 15 lode is on the lode line 183 ft. S. $30^{\circ}20'$ E., from the center of line 4-1.
No value. |
| No. 2 | A trench, the east end of which bears S. $24^{\circ}00'$ W., 347 ft. from cor. No. 1 Hillcrest No. 15 lode; 12 ft. wide, 4 ft. deep, running S. 70° W., 60 ft.
Value, \$280. |
| No. 3 | A trench, the north end of which bears S. $55^{\circ}20'$ E., 613 ft. from cor. No. 4 Hillcrest No. 15 lode; 13 ft. wide, 1.5 ft. deep, running S. 40° E., 45 ft.
Value, \$70. |
| No. 4 | A hole, the center of which bears S. $53^{\circ}40'$ E., 626 ft. from cor. No. 4 Hillcrest No. 15 lode; 4 ft. diam., 4 ft. deep.
Value, \$30. |
| No. 5 | A trench, the west end of which bears S. $41^{\circ}00'$ E., 569 ft. from cor. No. 4 Hillcrest No. 15 lode; 13 ft. wide, 1.5 ft. deep, running S. 60° E., 60 ft.
Value, \$95. |
| No. 6 | A trench, the west end of which bears S. $36^{\circ}12'$ E., 697 ft. from cor. No. 4 Hillcrest No. 15 lode; 12 ft. wide, 1 ft. deep, running N. 44° E., 25 ft.
Value, \$30. |
| No. 7 | A trench, the north end of which bears N. $68^{\circ}26'$ W., 638 ft. from cor. No. 2 Hillcrest No. 15 lode; 12 ft. wide, 1.5 ft. deep, running S. 18° W., 50 ft.
Value, \$80. |
| No. 8 | A trench, the south end of which bears N. $13^{\circ}12'$ W., 205 ft. from cor. No. 3 Hillcrest No. 15 lode; 12 ft. wide, 0.5 ft. deep, running N. 25° W., 60 ft.
Value, \$35. |
| No. 1 | The discovery point of the Hillcrest No. 19 lode is on the lode line, 1399 ft. S. $30^{\circ}20'$ E., from the center of line 4-1.
No value. |
| No. 2 | A trench, the east end of which bears S. $69^{\circ}24'$ W., 272 ft. from cor. No. 2 Hillcrest No. 19 lode; 13 ft. wide, 3 ft. deep, running west 60 ft.
Value, \$225. |

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| No. 3 | A trench, the south end of which bears N. 51°50' W., 285 ft. from the center of line 2-3 Hillcrest No. 19 lode; 13 ft. wide, 1.5 ft. deep, running N. 15° W., 60 ft.
Value, \$95. |
| No. 4 | A trench, the north end of which bears N. 84°18' W., 195 ft. from the center of line 2-3 Hillcrest No. 19 lode; 12 ft. wide, 2 ft. deep, running S. 3° W., 50 ft.
Value, \$125. |
| No. 5 | A trench, the south end of which bears S. 59°40' W., 537 ft. from cor. No. 2 Hillcrest No. 19 lode; 13 ft. wide, 3 ft. deep, running N. 3° W., 50 ft.
Value, \$180. |
| No. 6 | A trench, the south end of which bears N. 30°20' W., 259 ft. from cor. No. 3 Hillcrest No. 19 lode; 13 ft. wide, 2 ft. deep, running N. 17° E., 120 ft.
Value, \$300. |
| No. 7 | A trench, the east end of which bears N. 51°15' W., 403 ft. from cor. No. 2 Hillcrest No. 19 lode; 12 ft. wide, 1 ft. deep, running S. 54° W., 30 ft.
Value, \$35. |
| No. 1 | The discovery point of the Hillcrest No. 20 lode is on the lode line 1402 ft. S. 30°20' E., from the center of line 1-2.
No value. |
| No. 2 | A trench, the west end of which bears N. 45°38' E., 267 ft. from cor. No. 4 Hillcrest No. 20 lode; 13 ft. wide, 3.5 ft. deep, running N. 65° E., 65 ft.
Value, \$240. |
| No. 3 | A trench, the east end of which bears N. 65°23' W., 485 ft. from cor. No. 3 Hillcrest No. 20 lode; 13 ft. wide, 3 ft. deep, running N. 75° W., 60 ft.
Value, \$225. |
| No. 4 | A trench, the east end of which bears N. 46°04' W., 38 ft. from cor. No. 3 Hillcrest No. 20 lode; 12 ft. wide, 1.5 ft. deep, running N. 67° W., 50 ft.
Value, \$80. |
| No. 1 | The discovery point of the Hillcrest No. 17 lode is on the lode line 1359 ft. N. 59°40' E., from the center of line 1-2.
No value. |
| No. 2 | A trench, the north end of which bears S. 15°00' E., 280 ft. from cor. No. 3 Hillcrest No. 17 lode; 13 ft. wide, 3 ft. deep, running S. 12° W., 70 ft.
Value, \$260. |
| No. 3 | A trench, the east end of which bears N. 86°41' W., 370 ft. from cor. No. 4 Hillcrest No. 17 lode; 13 ft. wide, 3 ft. deep, running S. 65° W., 50 ft.
Value, \$185. |
| No. 4 | A trench, the east end of which bears S. 89°02' W., 333 ft. from cor. No. 4 Hillcrest No. 17 lode; 12 ft. wide, 0.5 ft. deep, running N. 71° W., 50 ft.
Value, \$25. |

- No. 5 A trench, the south end of which bears S. 78°24' W., 503 ft. from cor. No. 4 Hillcrest No. 17 lode; 13 ft. wide, 2 ft. deep, running N. 6° E., 50 ft.
Value, \$125.
- No. 6 A hole, the center of which bears S. 58°50' W., 255 ft. from cor. No. 3 Hillcrest No. 17 lode; 4 ft. diam., 3 ft. deep.
Value, \$25.
- No. 7 A trench, the west end of which bears N. 25°30' E., 368 ft. from cor. No. 1 Hillcrest No. 17 lode; 12 ft. wide, 1.5 ft. deep, running S. 65° E., 50 ft.
Value, \$80.
- No. 1 The discovery point of the Hillcrest No. 18 lode is on the lode line 1348 ft. N. 59°40' E., from the center of line 1-2.
No value.
- No. 2 A trench, the southeast end of which bears N. 62°50' W., 292 ft. from cor. No. 4 Hillcrest No. 18 lode; 13 ft. wide, 2 ft. deep, running N. 50° W., 70 ft.
Value, \$175.
- No. 3 A trench, the west end of which bears S. 86°20' E., 507 ft. from cor. No. 2 Hillcrest No. 18 lode; 13 ft. wide, 3.5 ft. deep, running S. 70° E., 70 ft.
Value, \$290.
- No. 4 A trench, the east end of which bears S. 59°40' W., 1200 ft. from cor. No. 4 Hillcrest No. 18 lode; 13 ft. wide, 1.5 ft. deep, running N. 65° W., 25 ft.
Value, \$40.

OTHER IMPROVEMENTS

None

FIELD ASSISTANTS

Name	Capacity
William J. Cheek	Chairman

(11)

REVENUE NO. 1001

11

<p>No. 5</p> <p>from car. No. 1 Hillcrest No. 18 lot; 13 ft. wide, 12 ft. deep, running S. 80° W. 15 ft.</p> <p>Value, \$200.</p>	<p>through the south end of which bears S. 75° W. 12 ft.</p>	<p>No. 5</p>
<p>No. 6</p> <p>from car. No. 1 Hillcrest No. 18 lot; 13 ft. wide, 12 ft. deep, running S. 80° W. 15 ft.</p> <p>Value, \$200.</p>	<p>to point of center of which bears S. 75° W. 12 ft.</p>	<p>No. 6</p>
<p>No. 7</p> <p>from car. No. 1 Hillcrest No. 18 lot; 13 ft. wide, 12 ft. deep, running S. 80° W. 15 ft.</p> <p>Value, \$200.</p>	<p>to point of center of which bears S. 75° W. 12 ft.</p>	<p>No. 7</p>
<p>No. 8</p> <p>from car. No. 1 Hillcrest No. 18 lot; 13 ft. wide, 12 ft. deep, running S. 80° W. 15 ft.</p> <p>Value, \$200.</p>	<p>to point of center of which bears S. 75° W. 12 ft.</p>	<p>No. 8</p>
<p>No. 9</p> <p>from car. No. 1 Hillcrest No. 18 lot; 13 ft. wide, 12 ft. deep, running S. 80° W. 15 ft.</p> <p>Value, \$200.</p>	<p>to point of center of which bears S. 75° W. 12 ft.</p>	<p>No. 9</p>
<p>No. 10</p> <p>from car. No. 1 Hillcrest No. 18 lot; 13 ft. wide, 12 ft. deep, running S. 80° W. 15 ft.</p> <p>Value, \$200.</p>	<p>to point of center of which bears S. 75° W. 12 ft.</p>	<p>No. 10</p>
<p>No. 11</p> <p>from car. No. 1 Hillcrest No. 18 lot; 13 ft. wide, 12 ft. deep, running S. 80° W. 15 ft.</p> <p>Value, \$200.</p>	<p>to point of center of which bears S. 75° W. 12 ft.</p>	<p>No. 11</p>
<p>OTHER INFORMATION</p>		
<p>Name</p>		
<p>PLUMB ASSISTANT</p>		
<p>Capacity</p>	<p>Name</p>	<p></p>
<p>Chairman</p>	<p>William J. Clark</p>	<p></p>

SURVEY NO. 4361

MERIDIAN ALTITUDE OBSERVATION ON THE SUN FOR LATITUDE.

Instrument at Cor. No. 3, Hillcrest No. 17.

October 28th, 1951.

Observed vertical angle to upper limb of sun		42° 55' 00"
Correction for refraction and parallax		<u>57"</u>
		42° 54' 03"
Sun's semi diameter		<u>16' 08"</u>
Vertical angle to sun's center		42° 37' 55"
Subtract 42° 37' 55" from 90° =		<u>47° 22' 05"</u>
Sun's declination October 28th, 1951		
Oh G.C.T. =		12° 46.4'
Reduced to longitude 110° 47' 26"		
$\frac{110.79}{15} = 7.386 + 12.0 =$		19.386
Equation of time	16 ^m 4.2 ^s	
+ 19.386 x 21 ^s	<u>4.07^s</u>	
	16 ^m 08.27 ^s	=
		<u>.269</u>
		19.117 hrs.
19.117 x .85		<u>16.25'</u>
		13° 02.65'
Declination		<u>13° 02' 39"</u>
Latitude		34° 19' 26"
Corrected to Cor. No. 1, Hillcrest No. 18		<u>18"</u>
	Latitude	34° 19' 08"

MERIDIAN OBSERVATION AT NOON FOR TIME.

October 29th, 1951.

Noon solar time		12.00 Hrs.
Add west longitude	$\frac{110° 48' 03"}{15} =$	<u>7.3867 Hrs.</u>
		19.3867 Hrs.
Less equation of time	16 ^m 9.2 ^s	
+ 19.3867 x .18 ^s	<u>3.5^s</u>	
	16 ^m 12.7 ^s	=
		<u>.27 "</u>
		19.1167 Hrs.
Zone correction to 105th Meridian Mountain Time		<u>7. Hrs.</u>
		12.1167 Hrs.
12.1167 Hrs. =		12 ^h 07 ^m
Watch time observation west limb sun		12 ^h 03 ^m 40 ^s
Watch time observation east limb sun		12 ^h 05 ^m 52 ^s
Average time		12 ^h 04 ^m 46 ^s
Watch slow		2 ^m 14 ^s

SURVEY NO. 4361

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A. M. SOLAR OBSERVATION FOR AZIMUTH.

OCTOBER 28TH, 1951.

Transit at Cor. No. 1, Hillcrest No. 18.

Watch Time	Hor. Angle Lt.	Ver. Angle
9 - 24 - 45	15° 42'	29° 14'
9 - 30 - 35	14° 26'	30° 07'
Average Vertical Angle		29°40'30"
Refraction and parallax		<u>1'30"</u>
Altitude		29°39'00"
Watch time of observation		9h27m40s
9.461 hrs. + 7.0 hrs. = 16.461 hrs.		
Declination 0 ^h G.C.T. =		12°46.4'
16.461 x .85		<u>13.99'</u>
Declination		13°00.39' = 13°00'23"
Cos. A = $\frac{\text{Sin. Dec.}}{\text{Cos. Alt.} \times \text{Cos. Lat.}}$ - Tan. Lat. x Tan. Alt.		
Cos. A = $\frac{.2250597}{.8259125 \times .8690636}$		- .6826370 x .5692339
Cos. A = -.3135538		- .3885801 = .7021339
A =		45°24'05"
Average Hor. Angle		= <u>15°04'</u>
Course of line 2-1, Hillcrest No. 18		S.30°20'05" E. ✓

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

CERTIFICATE OF SURVEYOR

I, Richard L. Merritt, Mineral Surveyor,
 hereby certify upon honor that in pursuance of an order received from the Office of
Cadastral Engineering, at Albuquerque, New Mexico,
 dated October 22nd, 1951, I have faithfully and correctly executed the survey
 of the mining claims of Alvis F. Denison
 known as the Hillcrest Nos. 13 to 20 inclusive,
 (~~lodes placer, or millsite~~)
 situate in
Sections 18 and 19, T. 11 N., R. 15 E.,
Gila and Salt River Base and Meridian, Arizona, and designated
 (State)
 as Survey No. 4361, which is represented in the fore-
 going 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 ex-
 pended and improvements made upon or for the benefit of the lode
 (~~lode or placer~~)
 location ~~s~~ embraced in the said mining claim by claimant— 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)

November 30, 1951
(Date)

**CERTIFICATE OF APPROVAL OF FIELD NOTES AND SURVEY OF
MINING CLAIM**

**UNITED STATES
DEPARTMENT OF THE INTERIOR**

~~GENERAL LAND OFFICE~~
~~FIELD SURVEY OFFICE~~

BUREAU OF LAND MANAGEMENT
Division of Cadastral Engineering

At Albuquerque, New Mexico

January 30, 1952

I, Office Cadastral Engineer at Albuquerque, New Mexico

do hereby certify that the foregoing and hereto attached Field Notes and Return of the Survey of the
Mining Claim of ALVIS F. DENISON

....., known as the
Hillcrest Nos. 13 to 20 inclusive, lode mining claims

situate in Mogollon Rim mining district,

Coconino County, Arizona

in Sections 18 and 19, Township No. 11 North, Range No. 15 East,

G&SRM, designated as Survey No. 4361

executed by Richard L. Merritt, Mineral

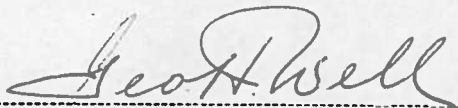
Surveyor, October 24 to November 30, 1951, 19 , under my instructions dated

October 22, 1951, 19 , have been critically examined and the necessary

corrections and explanations made, and the said Field Notes and Return, and the Survey they describe,

are hereby approved. The certified copy of the location certificate filed by the applicant for survey is

included and made a part of these field notes.



Geo. H. Well, Office Cadastral Engineer.

CERTIFICATE OF ADOPTION OF FIELD NOTES AND SUMMARY OF
FIELD WORK

UNITED STATES
DEPARTMENT OF THE INTERIOR

BUREAU OF LAND MANAGEMENT
WASHINGTON, D. C.

I, _____, of the _____
 County, _____ State, do hereby certify that the
 following field notes and summary of field work
 were prepared by _____
 of the _____
 and that the same are true and correct
 copies of the original notes and summary
 as they appear in the files of the
 Bureau of Land Management, Department of the Interior,
 Washington, D. C.

Witness my hand and seal of office this _____ day of _____
 19____.

 Director, Bureau of Land Management