

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

MINERAL SURVEY NO. 4415

Arizona Land District.

FIELD NOTES

Of The Survey Of The Mining Claim Of

Alvis F. Denison

Known As The

Hillcrest #24 lode

Mogollon Rim Mining District,

Coconino County, Arizona

Section 13, Township 11 North, Range 14 East

Surveyed under order dated September 7th, 1956

by Richard L. Merritt
Mineral Surveyor.

Claim located July 10th, 1952

Survey commenced September 23d, 1956

Survey completed November 1st, 1956

Address of claimant's attorney, Joseph H. Morgan
Luhrs Building
Phoenix, Arizona

DATES OF AMENDED LOCATIONS

Survey Number 4415

1.

-Chains

This survey was made with a Gurley transit No. 50962, with a 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 observations:

September 23, 1956, at Cor. No. 4, Hillcrest #24, in latitude $34^{\circ} 20' N.$, and longitude $110^{\circ} 48' 15'' W.$, 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 to the left to the sun, then reading angle from reference point to line 4-1.

Mean time of observation, 105th meridian standard time = $2^h 53' 45''$

Declination of sun at mean time of observation = $0^{\circ} 19' 50'' S.$

Mean observed vertical angle to sun's center = $39^{\circ} 02' 30''$

Mean horizontal angle from reference point to sun's center (counter-clockwise) = $13^{\circ} 15' 10''$

True bearing to reference point = $S. 69^{\circ} 01' 20'' W.$

Angle counter-clockwise from reference point to line 4-1 = $9^{\circ} 21'$

True course of line 4-1 = $S. 59^{\circ} 40' 20'' W.$

The lines were measured with a Lufkin steel tape 500 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 $15^{\circ} E.$

Feet

HILLCREST #24 LODGE

Beginning at cor. No. 1 of the Hillcrest #24 lode, identical with cor. No. 4, Survey No. 4360; Hillcrest No. 10 lode, on line 1-2, Survey No. 4360, Hillcrest No. 9 lode, a sandstone 10x4 ins., above ground, mkd. 4H10-4360. I mkd. stone 1-H24-4415, from which the quarter corner bet. secs. 13 and 24, T. 11 N., R. 14 E., Gila and Salt River Meridian, bears $S. 67^{\circ} 25' 45'' W.$, 799.48 ft. dist., an iron post, 1 in. diam., 12 ins. above the ground, with brass cap marked and witnessed as described in the official record.

A pine, 36 ins. diam., bears $N. 30^{\circ} 25' E.$, 23.62 ft. dist., mkd. X BT 4H10-4360. I add the marks 1H24-4415.

Thence $N. 30^{\circ} 20' W.$

Chain Feet	Description
1500.0	Cor. No. 2, identical with Cor. No. 3, Sur. No. 4360, Hillcrest No. 10 lode, Cor. No. 3, Sur. No. 4352, Campbell and Denison No. 5 lode, and Cor. No. 1, Sur. No. 4352, Campbell and Denison No. 4 lode. A sandstone 6 x 8 ins., 14 ins. above ground, mkd. X3CD5-1CD4-4352-3H10-4360; I add marks 2H24-4415; from which A pine, 24 ins. diam., bears N. 13° 11' W., 11.18 ft. dist., mkd. XBT-3CD5-1CD4-4352-3H10-4360; I add marks 2H24-4415.
300.0	Thence N. 59° 40' E. Lode line, identical with lode line Sur. No. 4352, Campbell and Denison No. 4 lode, discovery point bears S. 30° 20' E., 305.0 ft. dist.
600.0	Cor. No. 3, identical with Cor. No. 4, Sur. No. 4352, Campbell and Denison No. 4 lode, Cor. No. 2, Sur. No. 4352, Campbell and Denison No. 3 lode, Cor. No. 3, Sur. No. 4360 Hillcrest No. 21 lode. A sandstone, 12 x 4 x 8 ins. above ground, mkd. X 4CD4-2CD3-4352-3H21-4360; I add marks 3H24-4415; from which A pine, 20 ins. diam., bears S. 89° 22' W., 10.41 ft. dist., mkd. X BT 4CD4-2CD3-4352-3H21-4360; I add marks 3H24-4415. Thence S. 30° 20' E.,
1500.0	Cor. No. 4, identical with Cor. No. 2, Sur. No. 4360 Hillcrest No. 21 lode, on line 1-2 Sur. No. 4360 Hillcrest No. 9 lode, a sandstone 8 x 4 x 14 ins. above ground, mkd. X 2H21-4360; I add marks 4H24-4415; from which A pine, 12 ins. diam., bears S. 35° 06' E., 26.12 ft. dist., mkd. X BT 2H21-4360; I add marks 4H24-4415. Thence S. 59° 40' W.,
300.0	Lode line; on line 1-2 Sur. No. 4360 Hillcrest No. 9 lode, discovery point bears N. 30° 20' W., 1195 ft. dist.
600.0	Cor. No. 1, the place of beginning.

AREAS

Acres
20.661

Total area, Hillcrest #24 lode

LOCATION

This survey is located in the SE $\frac{1}{4}$ and the SW $\frac{1}{4}$ Sec. 13, T. 11 N., R. 14 E., Gila and Salt River Meridian, within the Sitgreaves National Forest, Coconino County, Arizona.

The survey of the Hillcrest #24 lode is identical with the location as marked on the ground. The location monuments, all mounds of stones 3 ft. base by 3 ft. high were rebuild alongside the corners of the claim.

Chains

EXPENDITURES

The improvements and the value of the labor and improvements made upon or for the benefit of the lode location embraced in said mining claim by the claimant or his grantors are as follows:

- No. 1 The discovery point of the Hillcrest #24 lode is on the lode line S. 30° 20' E., 305. ft. from the center of line 2-3.
No value
- No. 2 A trench, the south end of which bears S. 87° 20' E., 355. ft. from Cor. No. 2 Hillcrest #24 lode, 4 ft. wide, 3 ft. deep, running north 15 ft.
Value, \$50.00
- No. 3 A trench, the west end of which bears N. 89° E., 230 ft. from Cor. No. 2 Hillcrest #24 lode, 4 ft. wide, 6 ft. deep, running N. 85° E., 16 ft.
Value, \$60.00
- No. 4 A trench, the south end of which bears N. 80° 50' E., 500 ft. from Cor. No. 2 Hillcrest #24 lode, 4 ft. wide, 4 ft. deep, running N. 25° E., 14 ft.
Value, \$50.00
- No. 5 A trench, the west end of which bears N. 77° E., 518 ft. from Cor. No. 2 Hillcrest #24 lode, 4 ft. wide, 4 ft. deep, running east 15 ft.
Value, \$50.00
- No. 6 A trench, the north end of which bears S. 11° E., 145 ft. from Cor. No. 3 Hillcrest #24 lode, 12 ft. wide, 2 ft. deep, running S. 35° E., 40 ft.
Value, \$160.00
- No. 7 A trench, the west end of which bears S. 26° 10' W., 164 ft. from Cor. No. 3 Hillcrest #24 lode, 7 ft. wide, 4 ft. deep, running S. 85° E., 16 ft.
Value, \$60.00
- No. 8 A trench, the east end of which bears S. 47° W., 150 ft. from Cor. No. 3 Hillcrest #24 lode, 11 ft. wide, 4 ft. deep, running west 15 ft.
Value, \$120.00

OTHER IMPROVEMENTS

None.

OTHER CORNER DESCRIPTIONS AND SUPPLEMENTAL DATA

None.

FIELD ASSISTANTS

Name	Capacity
W. J. Cheek	Chainman
Cliff Phillips	Chainman

Chains	DESCRIPTION	Value
	The improvements and the value of the labor and improvements made upon or for the benefit of the land located and expressed in said minutes claim by the claimant or his agents are as follows:	
No. 1	A trench, the north end of which bears S. 20° E., 307 ft. from the center of line 1-2.	No value
No. 2	A trench, the south end of which bears S. 20° E., 311 ft. from Gov. No. 2 Hillcrest 25th lot, 1 ft. wide, 3 ft. deep, running	Value, \$50.00
No. 3	A trench, the west end of which bears N. 80° W., 310 ft. from Gov. No. 2 Hillcrest 25th lot, 1 ft. wide, 3 ft. deep, running	Value, \$50.00
No. 4	A trench, the south end of which bears S. 20° E., 310 ft. from Gov. No. 2 Hillcrest 25th lot, 1 ft. wide, 3 ft. deep, running	Value, \$50.00
No. 5	A trench, the west end of which bears S. 20° E., 311 ft. from Gov. No. 2 Hillcrest 25th lot, 1 ft. wide, 3 ft. deep, running	Value, \$50.00
No. 6	A trench, the north end of which bears S. 20° E., 311 ft. from Gov. No. 2 Hillcrest 25th lot, 1 ft. wide, 3 ft. deep, running	Value, \$50.00
No. 7	A trench, the west end of which bears S. 20° E., 311 ft. from Gov. No. 2 Hillcrest 25th lot, 1 ft. wide, 3 ft. deep, running	Value, \$50.00
No. 8	A trench, the east end of which bears S. 20° E., 310 ft. from Gov. No. 2 Hillcrest 25th lot, 1 ft. wide, 3 ft. deep, running west	Value, \$50.00

OTHER IMPROVEMENTS

OTHER CHANGES REQUIRING THE SUPERVISOR'S DATA

FIELD AGENTS

- Chairman
- Chairman
- Chairman

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

CERTIFICATE OF SURVEYOR

November 6, 1956

I, Richard L. Merritt,
 Mineral Surveyor, hereby certify upon honor that in pursuance of an order received from the United States
Department of the Interior, Bureau of Land Management, at Phoenix, Arizona
 dated September 7, 1956, I have faithfully and correctly executed the survey of
 the mining claim of Alvis F. Denison,
 known as the Hillcrest #24 lode
(Lode, placer, or mill site)
 situate in Section 13,
 T. 11 N., R. 14 E., G. and S. R. Meridian, Arizona, and
(State)
 designated as Survey No. 4415, 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 February 19, 1957
(Place) (Date)

The foregoing field notes of mineral survey No. 4415, in Section 13
Arizona, T. 11 North, R. 14 East, G. & S.R. Meridian,
(State) executed by Richard L. Merritt, Mineral Surveyor,

under order dated September 7, 1956, 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.

Everett H. Kimmell
 Everett H. Kimmell
 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.

