

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

MINERAL SURVEY NO. 4472

Arizona Land District.

FIELD NOTES

Of The Survey Of The Mining Claim Of

R. E. Schnure and J. J. Buttermore

Known As The

Red Cross and Copper Cross Lodes

Cave Creek Mining District,

Maricopa County, Arizona

Section 3 and 4, Township 5 North, Range 4 East, GSRM

Surveyed under orders dated February 4, 1957
October 30, 1958

by Robert Lenon
Mineral Surveyor.

Claim located April 4, 1954

Survey commenced February 10, 1957

Survey completed April 15, 1957

Address of claimant 376 No. 21st Avenue, Phoenix, Arizona

DATES OF AMENDED LOCATIONS

Mineral Survey No. 4472

Chains
Feet

This survey was made with a Berger Precise Transit No. 6072, with horizontal limb, $5\frac{1}{2}$ 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 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 double horizontal angles referred to the meridian determined by the following observations:

February 10, 1957, at Cor. No. 1, Survey No. 4426, Mormon Girl Extension lode, in latitude $33^{\circ} 48' N.$ and longitude $111^{\circ} 56' W.$, I make a series of four altitude observations upon the sun for azimuth at approximately equal time intervals, two each with the telescope in direct and reversed positions, observing opposite limbs of the sun, and reading the horizontal angles from Cor. No. 2, 1500 ft. SE. to the sun.

Mean time of observation,	(1)	(2)
105th meridian standard time:	3h 40m 17s	3h 43m 05s p.m.
Declination of sun at mean		
time of observation:	$14^{\circ} 11\frac{1}{2}' S.$	
Mean observed vertical angles		
to sun's center:	$25^{\circ} 52\frac{1}{2}'$	$25^{\circ} 23\frac{1}{2}'$
Mean horizontal angles from refer-		
ence point to sun's center:	$69^{\circ} 05\frac{1}{2}'$	$69^{\circ} 43'$
True bearing to reference point:	$S. 19^{\circ} 50' E.$	

The lines were measured with a Lufkin steel tape, 300 ft. in length, graduated every foot, with the end feet graduated to tenths, and a Lufkin steel tape, 100 ft. in length, graduated to feet, tenths and hundredths; both tapes were compared with a Lufkin standard at the time of beginning of the survey and found to be correct.

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

The geographic position at Cor. No. 3, Red Cross lode, was calculated to be in latitude $34^{\circ} 48' 04'' N.$ and longitude $111^{\circ} 56' 02'' W.$

The magnetic declination observed at each corner of the survey gave a uniform value of $14^{\circ} 15' E.$

RED CROSS LODGE

Beginning at Cor. No. 1, Red Cross lode.

Found an iron pipe, 1 in. diam., firmly set, stone mound alongside, with brass cap attached, mkd. RC-1, to which I added 4472; from which

The E. $\frac{1}{4}$ sec. cor. of sec. 4, T. 5 N., R. 4 E., G. & S.R.B. & M. bears $S. 0^{\circ} 16' 50'' E.$, 1999.44 ft. dist.

Thence $S. 21^{\circ} 33' E.$

125.00 Gulch, 5 ft. wide, course $S. 55^{\circ} W.$

1445.13 Intersect line 1-2, Copper Cross lode, this survey.

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Mineral Survey No. 4472

Chains Feet	
1452.40	<p>Cor. No. 2</p> <p>Found an iron pipe, 1 in. diam., in a stone mound, firmly set with a brass cap attached, mkd. RC-2, to which I added 4472.</p> <p>Thence S. 68° 18' 30" W.</p>
19.32	Intersect line 1-2, Copper Cross lode, this survey.
300.00	Lode line, discovery point bears N. 21° 30' W., 702.40 ft. dist.
597.84	<p>Cor. No. 3, falling on line 2-3, Sur. No. 2678, Mormon Girl lode.</p> <p>Found an iron pipe, 1 in. diam., firmly set in stone mound, with brass cap attached, mkd. RC-3, to which I added 4472.</p> <p>Thence N. 21° 41' 30" W.</p>
922.70	<p>Cor. No. 4, identical with Cors. Nos. 2 and 3, Mormon Girl and Henry W. Grady lodes, both of Sur. No. 2678.</p> <p>Found an iron pipe, 1 in. diam., firmly set in a stone mound, a post, 4x4 ins. in size alongside, with brass cap attached, mkd. HWG-3-MG-2-2678-RC-4, to which I added 4472; from which</p> <p>The bearing rock for Sur. No. 2678 cors. was seen; no new marks were made.</p> <p>Thence N. 21° 24' W.</p>
300.00	Gulch, 12 ft. wide, course N. 80° W.
410.00	Gulch, 10 ft. wide, course S. 80° W.
529.70	<p>Cor. No. 5, falling on line 2-3, Sur. No. 2678, Henry W. Grady lode.</p> <p>Found an iron pipe, 1 in. diam., firmly set, stone mound alongside, with brass cap attached, mkd. RC-5, to which I added 4472.</p> <p>Thence N. 68° 18' 30" E.</p>
300.00	Lode line, discovery point bears S. 21° 30' E., 750 ft. dist.
550.00	Gulch, 3 ft. wide, course S. 5° W.
598.62	Cor. No. 1 and place of beginning.
	<p style="text-align: center;">COPPER CROSS LODGE</p> <p>Beginning at Cor. No. 1, Copper Cross lode.</p> <p>Found an iron pipe, 1 in. diam., firmly set in a stone mound, with brass cap attached, mkd. TR37-1-CC-1, to which I added 4472; from which</p> <p>The ¼ sec. cor. common to secs. 3 and 4 bears S. 32° 44' 45" W., 519.21 ft. dist.</p> <p>A schist outcrop, 24x36 ins., 42 ins. high, facing SW., bears N. 38° 13' E., 16.1 ft. dist., mkd. X-BR-GC-1-4472.</p> <p>Thence N. 47° 43' E.</p>

Mineral Survey No. 4472

Chains Feet		
304.33	Intersect line 2-3, Red Cross lode, this survey.	
324.99	Intersect line 1-2, Red Cross lode, this survey.	
1500.00	Cor. No. 2 Found an iron pipe, 1 in. diam., firmly set in a stone mound, with brass cap attached, mkd. TR37-2-CC-2, to which I added 4472. Thence S. 42° 17' E.	
300.00	Lode line, discovery point bears S. 47° 43' W., 950 ft. dist.	
600.00	Cor. No. 3. Found an iron pipe, 1 in. diam., brass cap attached, firmly set, mkd. TR37-3-CC-3, to which I added 4472; from which A granite outcrop, 24x36 ins. high, bears N. 48° 13' E., 12.4 ft. dist., mkd. X-BR-CC-3-4472. Thence S. 47° 43' W.	
1500.00	Cor. No. 4. Found an iron pipe, 1 in. diam., firmly set in a stone mound, with brass cap attached, mkd. TR37-4-CC-4, to which I added 4472; from which A schist outcrop, 36x42 ins., .48 ins. high, bears N. 83° 08' E., 21.45 ft. dist., mkd. X-BR-CC-4472. Thence N. 42° 17' W.	
20.00	A shaft, 6x10 ft. in size, 10 ft. deep.	
300.00	Lode line, discovery point bears N. 47° 43' E., 550 ft. dist.	
600.00	Cor. No. 1 and place of beginning.	
AREAS		Acres
Total area, Red Cross lode		19.988
Area in conflict with:		
Copper Cross lode of this survey		0.002
Total area, Copper Cross lode		20.661
LOCATION		
This survey is located in secs. 3 and 4, T. 5 N., R. 4 E., G. & S. R.B. & M., Maricopa County Arizona.		
This survey is identical with the location as marked on the ground by the General Land Office Segregation Survey of 1933.		

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Mineral Survey No. 4472

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EXPENDITURES

The improvements and the value of the labor and improvements made upon or for the benefit of the lode locations are as follows:

- No. 1 The discovery point of Red Cross lode, being on the lode line, 750 ft. from a point on line 5-1, 300 ft. from Cor. No. 1.
No value
- No. 2 A cut, 4 ft. wide, the face of which bears S. 70° E., 150 ft. from Cor. No. 5, runs N. 20° E., 12 ft. to 6 ft. face.
Value, \$75
- No. 3 A cut, 5 ft. wide, the face of which bears E., 235 ft. from Cor. No. 5, 18 ft. face, runs N. 20° E., 30 ft. to face and portal of adit, 4x6 ft. in size, running N. 20° E., 35 ft. to breast.
Value, \$1,000
- No. 1 The discovery point of the Copper Cross lode, being on the lode line, 550 ft. from a point on line 4-1, 300 ft. from Cor. No. 1.
No value
- No. 2 A cut, 4 ft. wide, the face of which bears N. 21° E., 50 ft. from Cor. No. 4, runs N. 20° E., 8 ft. to 5 ft. face.
Value, \$50
- No. 3 A cut, 3 ft. wide, the face of which bears N. 30° E., 65 ft. from Cor. No. 4, runs N. 80° E., 6 ft. to 4 ft. face.
Value \$25
- No. 4 A trench, 3 ft. wide, the face of which bears N. 32° E., 160 ft. from Cor. No. 4, runs N. 20° E., 8 ft. to 2½ ft. face.
Value, \$25

OTHER IMPROVEMENTS

- A shaft, 4x6 ft. in size, 8 ft. deep, bears N. 5° E., 475 ft. from Cor. No. 3, Red Cross lode.
- A shaft, 5x7 ft. in size, 8 ft. deep, bears S. 38° 30' E., 305 ft. from Cor. No. 2, Copper Cross lode.
- A shaft, 6x10 ft. in size, 10 ft. deep, bears N. 42° W., 20 ft. dist. from Cor. No. 4, Copper Cross lode.

OTHER CORNER DESCRIPTIONS AND SUPPLEMENTAL DATA

Sur. No. 2678, Henry W. Grady lode: Line 2-3 is shown approx as approved.

Sur. No. 2678, Mormon Girl lode: Cor. No. 3 is a post, 4x4 ins. in size, set in stone mound, with faint markings; line 2-3 was found to be S. 21° 41' 30" E., 1352.40 ft. instead of S. 21° 49½' E., 1360.33 ft. as approved.

The ¼ sec. cor. common to secs. 3 and 4 is a GLO pipe, 1 in. diam., firmly set in stone mound, with brass cap attached, properly marked.

NOTE: Discrepancies between the survey and the location notices are due to errors in the location notices.

FIELD ASSISTANTS

Frank Eastman
Joe D. Alvarez
Marlin E. Widger

Instrumentman
Chainman
Chainman

Mineral Survey No. 4472

Chains

O

Supplement-Expenditures


April 14, 1959

- No. 5 A shaft, 6 x 10 ft. in size, 10 ft. deep; the center of which bears N. 42°17' W., 20 ft. from Cor. No. 4, Copper Cross lode. This expenditure falls across line 4-1 of this lode and has heretofore been listed in other improvements of this survey. An undivided one-half interest is to be credited to this claim on the above date.
Value \$300.
Value of $\frac{1}{2}$ interest: \$150.
- No. 6 A shaft, 6 x 10 ft. in size, 8 ft. deep; the center of which bears S. 80° W., 270 ft. from Cor. No. 3, Copper Cross lode. Measured April 13, 1959.
Value \$220.
- No. 7 A shaft, 6 x 6 ft. in size; 6 ft. deep; the center of which bears N. 73° W., 140 ft. from Cor. No. 3, Copper Cross lode. Measured April 13, 1959.
Value \$100.



Robert Lenon

Mineral Survey No. 4473

Chains	Supplement-Expenditures	Chains
	April 14, 1959	
	<p>A shaft, 6 x 10 ft. in size, 10 ft. deep; the center of which bears N. 43° 17' W., 20 ft. from Cor. No. 4, Copper Cross Lode. This expenditure falls across line 4-1 of this lode and has heretofore been listed in other improvements of this survey. An undivided one-half interest is to be credited to this claim on the above date.</p> <p>Value \$300. Value of 1/2 interest: \$150.</p>	No. 5
	<p>A shaft, 6 x 10 ft. in size, 8 ft. deep; the center of which bears S. 50° W., 270 ft. from Cor. No. 3, Copper Cross Lode. Measured April 13, 1959.</p> <p>Value \$280.</p>	No. 6
	<p>A shaft, 6 x 6 ft. in size, 6 ft. deep; the center of which bears N. 73° W., 140 ft. from Cor. No. 3, Copper Cross Lode. Measured April 13, 1959.</p> <p>Value \$100.</p>	No. 7
	 Robert Lennon	

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

CERTIFICATE OF SURVEYOR

March 21, 19 59

I, Robert Lenon,

Mineral Surveyor, hereby certify upon honor that in pursuance of an order received from the Dept. of the Interior, Bureau of Land Management, at Phoenix, Arizona

dated February 4, 1957
October 30, 1958, I have faithfully and correctly executed the survey of

the mining claim of R. E. Schnure and J. J. Buttermore,

known as the Red Cross and Copper Cross lodes
(Lode, placer, or mill site)

situate in Cave Creek Mining District, Maricopa County, Arizona, Secs. 3 and 4,

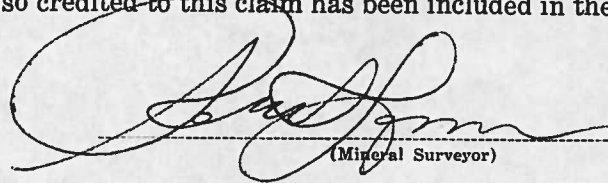
T. 5 N., R. 4 E., Gila and Salt River Meridian, Arizona, and
(State)

designated as Survey No. 4472, 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 lodes location(s) embraced in the said mining claim by
(Lode or placer)

claimant(s) or their 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.

Patagonia, Arizona
(Place)


(Mineral Surveyor)

CERTIFICATE OF APPROVAL

Bureau of Land Management--Survey Office
(Office)

Phoenix, Arizona March 11, 19 59
(Place) (Date)

The foregoing field notes of mineral survey No. 4472, in Sections 3 and 4

Arizona, T. 5 N., R. 4 E., Gila and Salt River Meridian,

Arizona, executed by Robert Lenon, Mineral Surveyor,
(State) February 4, 1957

under order dated October 30, 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

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.

