

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

MINERAL SURVEY NO. 4473

Arizona Land District.

FIELD NOTES

Of The Survey Of The Mining Claim Of

R. E. Schnure and J. J. Buttermore

Known As The

Little Hope Lode

Cave Creek Mining District,

Maricopa County, Arizona

Section 4, Township 5 North, Range 4 East, G. & S.R.M.

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

by Robert Lenon
Mineral Surveyor.

Claim located April 3, 1953

Survey commenced February 10, 1957

Survey completed April 15, 1957

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

DATES OF AMENDED LOCATIONS

REPUBLIC OF THE PHILIPPINES
Department of Education
Division Office - Manila

MANILA, PHILIPPINES

1919-1920

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Survey No. 4473

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. south-east to the sun.

Mean time of observation,
105th meridian standard time $3^{\text{h}} 40^{\text{m}} 17^{\text{s}}$ $3^{\text{h}} 43^{\text{m}} 05^{\text{s}}$ 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 steel tape at the beginning of the survey and found to be correct.

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

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

LITTLE HOPE LODGE

Beginning at Cor. No. 1, Little Hope lode, Sur. No. 4473.

Found an iron pipe, 1 in. diam., firmly set in a stone mound, with brass cap attached, mkd. LH-1, to which I added 4473, from which

The $\frac{1}{4}$ sec. cor. of secs. 3 and 4, T. 5 N., R. 4 E., G. & S. R. M. bears S. $42^{\circ} 47'$ E., 2748.77 ft. dist.

Thence N. $77^{\circ} 32'$ E.

298.00 A scattered stone mound.

302.98 Lode line, discovery point bears S. $20^{\circ} 40'$ E., 670 ft. dist.

605.96 Cor. No. 2, falling on line 4-1, Sur. No. 2678, Henry W. Grady lode.

3

Survey No. 4473

Corners
Feet

	Found an iron pipe, 1 in. diam., firmly set in a stone mound, with brass cap attached, mkd. LH-2, to which I added 4473, from which
	Cor. No. 1, Sur. No. 2678, Henry W. Grady lode, bears N. 19° 21' W., 151.75 ft. dist.
	Thence S. 19° 21' E.
190.00	Gulch, 25 ft. wide, course S. 80° W.
560.00	Gulch, 10 ft. wide, course S. 60° W.
720.00	Gulch, 10 ft. wide, course N. 85° W.
1123.90	Cor. No. 3, identical with Cor. No. 4, Henry W. Grady lode, and Cor. No. 1, Mormon Girl lode, both of Sur. No. 2678.
	Found an iron pipe, 1 in. diam., a post, 4x4 ins. in size, in a stone mound alongside, with brass cap attached, mkd. MG-1-HWG-4-2678-LH-3, to which I added 4473, from which
	A schist outcrop, 24x36 ins., 4 ins. high, bears S. 82° 50' W., 5.0 ft. dist., mkd. X-BR-3-4426.
	Thence S. 21° 04½' E.
15.00	Road, 10 ft. wide, bears N. 80° W. and S. 80° E.
130.00	Road, 10 ft. wide, bears N. 80° E. and S. 80° W.
150.00	Road, 10 ft. wide, bears E. and W.
180.00	Gulch, 5 ft. wide, course S. 80° W.
210.00	Road, 5 ft. wide, bears N. 80° E. and S. 80° W.
309.50	Cor. No. 4, identical with Cor. No. 2, Sur. No. 2678, Mormon Mine No. 2 lode, and following on line 4-1, Sur. No. 2678, Mormon Girl lode.
	Found an iron pipe, 1 in. diam., stone mound alongside, with brass cap attached, mkd. Mor M No 2-2-2678-LH-4, to which I added 4473, from which
	A silicified boulder, 24x36 ins., 24 ins. high, bears S. 87° E., 3.0 ft. dist., mkd. X-BR-4-4473.
	Thence S. 77° 32' W.
276.65	A post, 4x4 ins. in size, set in a stone mound.
279.12	Lode line, discovery point bears N. 20° 40' W., 766.50 ft. dist.
569.30	Cor. No. 1, Sur. No. 2678, Mormon Mine No. 2 lode, a post, 4x4 ins. in size, set in a small stone mound; no markings.
582.10	Cor. No. 5.
	Found an iron pipe, 1 in. diam., stone mound alongside, firmly set with brass cap attached, mkd. LH-5, to which I added 4473.
	Thence N. 20° 40' W.
10.00	Road, 10 ft. wide, bears S. 80° W. and N. 80° E.

Survey No. 4473

Feet

30.00	Enter S. channel of gulch system, 10 ft. wide, course S. 80° W.
80.00	Leave N. channel of gulch system, 10 ft. wide, course S. 80° W.
135.00	Gulch, 5 ft. wide, course S. 80° W.
175.00	Road, 10 ft. wide, bears S. 80° W. and N. 80° E.
490.00	Road, 10 ft. wide, bears N. 45° E. and S. 45° W.
680.00	Gulch, 10 ft. wide, course S. 50° W.
1160.00	Gulch, 6 ft. wide, course S. 60° W.
1400.00	Gulch, 4 ft. wide, course S. 80° W.
1436.50	Cor. No. 1 and place of beginning.

AREAS

Total area, Little Hope lode

Acres

19.269

LOCATION

This survey is located in the NE $\frac{1}{4}$ of sec. 4, T. 5 N., R. 4 E., Gila and Salt River Base & Meridian, Maricopa County, Arizona.

This survey is identical with the location as marked on the ground by the General Land Office Segregation Survey of 1933.

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 cut of Little Hope lode, being on the lode line, 670 ft. from a point on line 1-2, 302.98 ft. from Cor. No. 1, the face of which being the discovery point, 4 ft. wide, runs S. 30° E., 12 ft. to an 8 ft. face.
Value \$100

No. 2 A shaft, 6x6 ft. in size, 6 ft. deep, the center of which bears N. 57° W., 60 ft. from Cor. No. 4.
Value \$100

No. 3

No. 4

* See page 4

OTHER IMPROVEMENTS

Approximately 2,000 ft. of ungraded road runs across Little Hope lode.

OTHER CORNER DESCRIPTIONS AND SUPPLEMENTAL DATA

Sur. No. 2678, Henry W. Grady lode: Cor. No. 1 is a stone in place, properly marked, stone mound alongside; line 3-4, identical with line 1-2, Mormon Girl lode, same survey, was found to be S. 69° 36 $\frac{1}{2}$ ' W., 565.80 ft. instead of S. 69° 33 $\frac{1}{2}$ ' W., 564.62 ft. as approved; line 4-1 was found to be N. 19° 21' W., 1275.65 ft. instead of N. 19° 30 $\frac{1}{2}$ ' W., 1274.0 ft. as approved.

Survey No. 4473

Observations

Sur. No. 2678, Mormon Girl lode: Line 4-1 was found to be approximately as approved; line 4-1 was found to run N, 21° 07' W., 488.57 ft. to Cor. No. 3, Mormon Mine No. 2, same survey, then N. 21° 04½' W., 864.09 ft. instead of N. 21° 10' W., 1360.04 ft. as approved.

Sur. No. 2678, Mormon Mine No. 2 lode: Cor. No. 3 is a 4x4 post, firmly set in a stone mound, with faint markings; line 1-2 was found to be N. 77° 32' E., 569.30 ft. instead of N, 77° 29' E., 568.41 ft. as approved; line 2-3 was found to be S. 21° 04½' E., 554.59 ft. instead of S. 21° 10' E., 552.86 ft. as approved; line 3-4 was found to be S. 18° 44' E., 780.83 ft. instead of S. 18° 46' E., 780.56 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 notice are due to errors in the location notice.

FIELD ASSISTANTS

Frank Eastman	Instrument man
Joe D. Alvarez	Chainman
Marlin E. Widger	Chainman

Expenditures

By letter of June 19, 1959, from Mineral Survey Robert Lenon. Filed with original notes.

- * No. 3 A bulldozer cut, 20 x 35 ft., 3 ft. deep, with the long dimension running N. 20° W; the SE cor. bears N. 21° W., 560 ft. from Cor. No. 4. Value, \$200.00
- * No. 4 A bulldozer cut, 12 x 35 ft., 2 ft. deep, with the long dimension running N. 20° W; the SE cor. bears N. 30° W., 570 ft. from Cor. No. 4. Value, \$100.00

OTHER IMPROVEMENTS

OTHER CORNER DESCRIPTIONS AND SUPPLEMENTAL DATA

Sur. No. 2678, Mormon Mine No. 2 lode: Cor. No. 3 is a 4x4 post, firmly set in a stone mound, with faint markings; line 1-2 was found to be N. 77° 32' E., 569.30 ft. instead of N, 77° 29' E., 568.41 ft. as approved; line 2-3 was found to be S. 21° 04½' E., 554.59 ft. instead of S. 21° 10' E., 552.86 ft. as approved; line 3-4 was found to be S. 18° 44' E., 780.83 ft. instead of S. 18° 46' E., 780.56 ft. as approved.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

CERTIFICATE OF SURVEYOR

March 21, 1959

I, Robert Lenon

Mineral Surveyor, hereby certify upon honor that in pursuance of an order received from the

Office of Cadastral Engineer, at Phoenix, Arizona

dated 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 Little Hope Lode
(Lode, placer, or mill site)

situate in Cave Creek Mining District, Maricopa County, Section 4

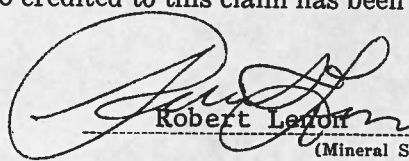
T. 5 North, R. 4 East, Gila & Salt River Meridian, Arizona, and
(State)

designated as Survey No. 4473, 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 its 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)


Robert Lenon
(Mineral Surveyor)

CERTIFICATE OF APPROVAL

Bureau of Land Management--Survey Office
(Office)

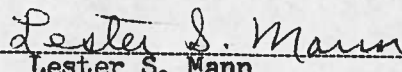
Phoenix, Arizona March 11, 1959
(Place) (Date)

The foregoing field notes of mineral survey No. 4473, in Section 4

T. 5 North, R. 4 East, Gila & Salt River Meridian,

Arizona, executed by Robert Lenon, Mineral Surveyor,
(State)

under order dated October 30, 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

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.

LENON ENGINEERING OFFICES

ROBERT LENON, P. E.

CONSULTING MINING ENGINEER

MAPS
REPORTS

SURVEYS
MINING

P. O. BOX 525
PATAGONIA, ARIZONA

Patagonia, June 19, 1959

P. O. BOX 257
NOGALES, ARIZONA

Bureau of Land Management
U. S. Public Survey Office
Box 148, Phoenix, Arizona



M. S. 4473
Little Hope

Gentlemen:

The following additional expenditures may be added to those already credited to this claim:

A bulldozer cut, 20 x 35 ft., 3 ft. deep, with the long dimension running N 20° W; the SE corn bears N 21° W, 560 ft. from Cor. No. 4. Value, \$200.

A bulldozer cut, 12 x 35 ft., 2 ft. deep, with the long dimension running N 20° W; the SE corn bears N 30° W, 570ft. from Cor. No. 4. Value \$100.

This will put the expenditures over the required \$500 for this claim.

Sincerely,

Mineral Surveyor

