

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

MINERAL SURVEY NO. 4389

Arizona Land District.

FIELD NOTES

Of The Survey Of The Mining Claim Of

Shorey C. Guess

Known As The

Katherine lode claim

Pima Mining District,

Pima County, Arizona

Section 15, Township 18 South, Range 12 East, G. & S.R.M.

Surveyed under order dated March 30, 1954

by T. N. Stevens
Mineral Surveyor.

Claim located October 3, 1953

Survey commenced April 28, 1954

Survey completed May 1, 1954

Address of claimant 2140 N. Campbell Ave., Tucson, Arizona

DATES OF AMENDED LOCATIONS

February 26, 1954

Survey No. 4389

This survey was made with a C.L. Berger & Son transit with horizontal limb $6 \frac{1}{4}$ ins. diam. with vertical circle 5 ins. diam., having two opposite verniers; 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 deflection angles referred to the meridian determined by the following observation.

Wednesday, April 28, 1954 at Cor. No. 3 Katherine lode in latitude $31^{\circ} 51' 45''$ N. and longitude $111^{\circ} 06' 34''$ W., I made a series of altitude observations upon the sun for azimuth at approximately equal time intervals, three each with the telescope in direct and reverse positions, bisecting the sun and reading the horizontal angle S-W to the sun.

Mean time of observation, 105th meridian	
standard time - - - - -	3h 02m P.M.
Declination of sun at mean time of	
observation - - - - -	$14^{\circ} 11' 56''$
Mean observed vertical angle to sun's center	$48^{\circ} 10' 14''$
Mean horizontal angle from reference point	$160^{\circ} 43'$
True bearing of reference point - - - - -	S. $85^{\circ} 52'$ E.

The lines were measured with a Keuffel & Esser steel tape 300 feet in length, the first foot graduated to tenths and hundredths; and a 100 ft. Lufkin steel tape, graduated to feet, tenths and hundredths; both tapes were compared with a standard and were correct at the time of the survey.

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 14° E.

Feet

KATHERINE LODGE

At Cor. No. 1 of the Katherine lode

Set an iron post, $3 \frac{1}{2}$ ft. long, 2 ins. diam., 18 ins. in the ground, surrounded by a mound of stone to top with leaden cap mkd. 1 K-4389 from which the Cor. to Secs. 10, 11, 14 and 15, T. 18 S., R. 12 E., bears N. $68^{\circ} 23'$ E., 3162.76 ft. dist.; a $1 \frac{1}{2}$ in. open pipe in old stone monument.

No other bearing objects are available.

Thence N. $85^{\circ} 52'$ W.

204.0	Wash 3 ft. wide, course southwesterly.
304.32	Lode line; discovery point bears S, $13^{\circ} 48'$ W., 1462 ft. dist. Set a mesquite post 3 ins. diam. by 3 ft. high, firmly in the ground and surrounded by a mound of stone, mkd. N.E.C.K.
340.0	Wash 3 ft. wide, course southeasterly.
608.64	Cor. No. 2. Set an iron post $3 \frac{1}{2}$ ft. long, 2 ins. diam., 18 ins. in the ground, surrounded by a mound of stone to top with leaden cap mkd. 2 K-4389. No bearing objects are available.

This survey was made with a U.L. Parker & Son transit with horizon-
 tal limb 6 1/4 ins. diam. with vertical circle 5 ins. diam., having
 two opposite verniers; 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 bearings in this record were determined by the method of de-
 lusion angles referred to the meridian determined by the following
 observation.

Wednesday, April 28, 1924 at Cor. No. 3 Katherine lode in latitude
 31° 21' 55" N and longitude 112° 06' 34" W. I made a series of alti-
 tude observations upon the sun for azimuth at approximately equal
 time intervals, three each with the telescope in direct and reverse
 positions, bisecting the sun and reading the horizontal angle 3-W
 to the sun.

Mean time of observation, 10:55 meridian
 Standard time ----- 10:30 A.M.
 Declination of sun at mean time of
 observation ----- 14° 11' 50"
 Mean observed vertical angle to sun's center 45° 10' 14"
 Mean horizontal angle from reference point 100° 49'
 True bearing of reference point ----- S. 25° 20' E.

The lines were measured with a Kellie & Hasser steel tape 300 feet
 in length, the first foot graduated to tenths and hundredths; and
 100 ft. Larkin steel tape, graduated to feet, tenths and hundredths;
 both tapes were compared with a standard and were correct at the
 time of the survey.

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 14° E.

KATHERINE LOBE

Feet

At Cor. No. 1 of the Katherine lode

Set an iron post 3 1/2 ft. long, 2 ins. diam., in the
 ground, surrounded by a mound of stone to top with leaden cap and
 1 K-389 from which the Cor. to Secs. 10, 11, 14 and 15, T. 18 S.,
 R. 12 E., bears N. 88° 22' E., 3165.76 ft. dist.; a 1 1/2 in. open
 pipe in old stone monument.

No other bearing objects are available.

Thence N. 82° 52' W.

Wash 3 ft. wide, course southerly.

204.0

Lode line; discovery point bears S. 13° 48' W., 1462 ft. dist.

304.32

Set a mesquite post 3 ins. diam., by 3 ft. high, firmly in the
 ground and surrounded by a mound of stone, marked S.E.C.K.

Wash 3 ft. wide, course southerly.

340.0

Cor. No. 2.

608.64

Set an iron post 3 1/2 ft. long, 2 ins. diam., in the ground,
 surrounded by a mound of stone to top with leaden cap and 2 K-389.

No bearing objects are available.

Survey No. 4389

Feet	
	Thence S. 13° 48' W.
92.0	Wash, 4 ft. wide, course southeasterly.
1500.0	Cor. No. 3.
	Set an iron post, 3 1/2 ft. long, 2 ins. diam., 18 ins. in the ground, surrounded by a mound of stone to top with leaden cap mkd. 3 K-4389.
	U.S.M.M. No. 1, bears S. 72° 18' W., 5455.95 ft. dist. consisting of a very old stone monument, 5 ft. base by 4 ft. high with an oak post 4 x 4 ins. showing 2 ft. above top of Mon. No markings distinguishable.
	Thence S. 85° 52' E.
40.97	NW. Cor. Sur. No. 276 Justice lode.
260.0	Center sand wash 30 ft. wide, course northeasterly.
304.32	Lode line; discovery point bears N. 13° 48' E., 38 ft. dist.
	Set a cedar post, 4 ins. diam., 3 1/2 ft. high, firmly in the ground, surrounded by a mound of stone, mkd. S.E.C.K.
340.97	N. end center Sur. No. 276 Justice lode, consisting of an old stone monument, from which U.S.M.M. No. 1 bears S. 73° 33' 30" W., 5773.82 ft. dist.
446.0	Center sand wash, 30 ft. wide, course easterly.
608.64	Cor. No. 4.
	This corner falls in center of sand wash where a permanent monument cannot be established.
	Thence N. 13° 48' E.
26.0	Set an iron post, 3 1/2 ft. long, 2 ins. diam., 18 ins. in the ground, surrounded by a mound of stone to top with leaden cap mkd. 4 K-4389 W.C.
73.0	Sand wash, 3 ft. wide, course southeasterly.
110.0	Road bears easterly and westerly.
984.0	Sand wash, 7 ft. wide, course southeasterly.
1500.0	Cor. No. 1 and place of beginning.

AREA	Acres
Total area Katherine lode - - - - -	20.661

Survey No. 4389

Feet		Acres
1500.0	Cor. No. 1 and place of beginning.	
944.0	Sand wash, 7 ft. wide, course southeasterly.	
110.0	Road bears easterly and westerly.	
73.0	Sand wash, 3 ft. wide, course southeasterly.	
26.0	Set an iron post, 3 1/2 ft. long, 2 ins. diam., 18 ins. in the ground, surrounded by a mound of stone to top with leaden cap mkd. I K-4389.	
	Thence N. 13° 48' E.	
	This corner falls in center of sand wash where a permanent monument cannot be established.	
608.64	Cor. No. 4.	
146.0	Center sand wash, 30 ft. wide, course easterly.	
	277.82 ft. dist.	
340.97	N. end center sm. no. 376 Justice lode, consisting of an old stone monument, from which U.S.M.N. No. 1 bears S. 73° 33' 30" W., 277.82 ft. dist.	
	Set a cedar post, 4 ins. diam., 3 1/2 ft. high, firmly in the ground, surrounded by a mound of stone, mkd. S.M.N.	
304.32	Lode line; discovery point bears N. 13° 48' E., 30 ft. dist.	
40.97	N. Cor. 207, no. 176 Justice lode.	
	Thence S. 85° 52' E.	
	dist. 181.82 ft. consisting of a very old stone monument, 5 ft. base by 4 ft. high with an oak post 4 x 4 ins. showing 3 ft. above top of Mon. No markings.	
	U.S.M.N. No. 1, bears S. 75° 18' W., 245.92 ft. dist. consisting of a very old stone monument, 5 ft. base by 4 ft. high with an oak post 4 x 4 ins. showing 3 ft. above top of Mon. No markings.	
1500.0	Cor. No. 2.	
92.0	Wash, 4 ft. wide, course southeasterly.	
	Thence S. 13° 48' W.	
	Set an iron post, 3 1/2 ft. long, 2 ins. diam., 18 ins. in the ground, surrounded by a mound of stone to top with leaden cap mkd. I K-4389.	

AREA

Acres

Total area Katherine lode - - - - - 10.661

Survey No. 4389

LOCATION

This survey is located in the NW 1/4 Sec. 15, T. 18 S., R. 12 E., G. & S.R. Meridian.

The survey is identical with the amended location as staked on the ground.

EXPENDITURES

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

- No. 1 The discovery shaft of the Katherine lode, the center of which is on the lode line 38 ft. from the center of line 3-4, 4 x 7 ft., 8 ft. deep.
Value \$100.0
- No. 2 A shaft, the center of which is on the center line 127 ft. from the center of line 3-4, 6 x 8 ft. (Timbered and gallows frame).
Value \$3600.0
- No. 3 A shaft, the center of which bears from Cor. No. 3 Katherine lode, N. 30° 38' E., 369 ft. dist., 8 x 8 ft., 8 ft. deep.
Value \$100.0
- No. 4 A shaft, the center of which bears from Cor. No. 3 Katherine lode, N. 26° 33' E., 422 ft. dist., 6 x 10 ft., 6 ft. deep.
Value \$100.0

OTHER IMPROVEMENTS

A frame ore bin, the SE. corner of which bears from the witness corner to Cor. No. 4 Katherine lode, N. 55° 07' W., 265 ft. dist., 20 x 20 ft., bearing of west side N. 14° E.

OTHER CORNER DESCRIPTIONS

A diligent search was made for the north and the west 1/4 corners; the NW. corner Sec. 15, T. 18 S., R. 12 E., and no evidence of same could be found or identified.

Sur. No. 276 Justice lode, the N. end line fails to furnish the course as given in the record and the tie from the NW. corner to U.S.M.M. No. 1 fails to furnish the course and distance as approved and the same are properly given in these field notes.

ADJOINING CLAIMS

On the north by Shorey lode, Uns., claimant herein.

On the east by Little Gem lode, Uns., claimant herein.

On the south by Sur. No. 276 Justice lode, Fred W. Fickett, claimant.

FIELD ASSISTANTS

Name	Capacity
E.H.Jenkins	Chainman
J.J.Walden	Chainman

LOCATION

This survey is located in the NW 1/4 sec. 15, T. 18 S., R. 12 E., G. & S.R. Meridian. The survey is identical with the amended location as shown on the ground.

EXHIBITS

The improvements and the value on the tract and improvements made upon or for the benefit of the location embraced in said claim of the claimant or his grantors are as follows:

- No. 1 The discovery shaft of the Katherline lode, the center of which is on the line 38 ft. from the center of line 1-4, 4 x 12 ft., 8 ft. deep. Value \$100.00
- No. 2 A shaft, the center of which is on the center line 125 ft. from the center of line 3-4, 6 x 8 ft. (timbered and galvanized frame). Value \$500.00
- No. 3 A shaft, the center of which bears from Cor. No. 3 Katherline lode, N. 20° 38' E., 209 ft. dist., 6 x 8 ft., 8 ft. deep. Value \$100.00
- No. 4 A shaft, the center of which bears from Cor. No. 3 Katherline lode, N. 20° 38' E., 422 ft. dist., 6 x 10 ft., 8 ft. deep. Value \$100.00

OTHER IMPROVEMENTS

A frame ore bin, the SE. corner of which bears from the witness corner to Cor. No. 4 Katherline lode, N. 20° 38' E., 209 ft. dist., 20 x 20 ft., bearing of west side N. 12° E.

OTHER CORNER DESCRIPTIONS

A diligent search was made for the north and the west 1/4 corner of the NW corner sec. 15, T. 18 S., R. 12 E., and no evidence of same could be found or identified.

Cor. No. 2's Justice lode, the N. end line fails to furnish the course as given in the record and the true NW corner to U.S.M.M. No. 1 fails to furnish the course and distance as approved and the same are properly given in these field notes.

ADJOINING CLAIMS

On the north by Sherey lode, 600 ft., claimant herein.
On the east by Little Gem lode, 600 ft., claimant herein.
On the south by Cor. No. 2's Justice lode, 700 ft., claimant herein.

FIELD ASSISTANTS


Name	Capacity
J. J. Weiden	Chairman
J. H. Jenkins	Chairman

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

CERTIFICATE OF SURVEYOR

I, T.N. Stevens, Mineral Surveyor,
 hereby certify upon honor that in pursuance of an order received from the
Office Cadastral Engineer, at Albuquerque, New Mexico,
 dated March 30, 1954, I have faithfully and correctly executed the survey
 of the mining claim of Shorey C. Guess
 known as the Katherine lode claim
 (lode, placer, or millsite)
 situate in
Section 15 T. 18 S., R12 E.,
G. & S. R. M. Meridian, Arizona, and designated
 (State)
 as Survey No. 4389, 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— 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.

Tucson, Arizona.
(Place)


(Mineral Surveyor)

May 20, 1954
(Date)

CERTIFICATE OF APPROVAL OF FIELD NOTES AND SURVEY OF
MINING CLAIM

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
PUBLIC SURVEY OFFICE

At Phoenix, Arizona
May 24, 1955

I, Office Cadastral Engineer at Phoenix, Arizona

do hereby certify that the forgoing and hereto attached Field Notes and return of the Survey of the

→ Mining Claim of Shorey C. Guess

....., known as the

Katherine lode

situate in Pima mining district,

Pima County Arizona

in Section 15, Township No. 18 South, Range No. 12 East

G. & S.R.M. designated as Survey No. 4389

executed by T.N. Stevens, Mineral

Surveyer, April 28 to May 1, 19 54, under my instructions dated

March 30, 1954, 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.

Everett H. Kimmell

Everett H. Kimmell
Office Cadastral Engineer.

