

MINERAL SURVEY No. 3934

Arizona Land District.

FIELD NOTES

OF THE SURVEY OF THE MINING CLAIM OF

Mary A. Meehan and C. H. Conrad, Jr.

KNOWN AS THE

SUN RISE and CALENA Lodes

Meyers Mining District,

Pima County, Arizona.

Section 16, Township 14 S., Range 4 W.

Surveyed under instructions dated March 10, 19 24

by T. N. Stevens U. S. Mineral Surveyor.

Claim located See location notices, 19

Survey commenced April 1., 19 24

Survey completed April 4., 19 24

Address of claimant John W. Hayes, Ajo, Ariz. Atty. for Claimant

DATES OF AMENDED LOCATIONS.

Feet.

MINERAL SURVEY NO. 3934

SUN RISE Lode.

Beginning at Cor. No.1, identical with Loc. Mon.

An iron pipe, 1 in diam. with brass cap on top, 18 ins. above ground, set 18 ins. in the ground, stamped 1 S R -3934 with md. of stone 3 1/2 ft. base by 3 ft. high alongside, whence the ^{W.C.} 1/4 Cor. bet. Secs. 16-21 T. 14 S. R. 4 W., brs. S. 6° 20' E., 921.1 ft.

U.S.M.M. No.1 brs. S. 6° 21' E., 926.6 ft.

S.W. Cor. Sur. No. 309 Gun Sight lode brs., N.66° E., 28.5 ft.

A monument at the intersection of the N. side line Sur. No. 311 Morning Star lode with the N. side line Sur. No.309 Gun Sight lode Claimants unknown, brs. N. 57° 01' E., 112.54 ft.

No other bearings are available.

Thence N. 72° 06' W.

Va. 13° 30' E.

104.89 Intersect N. side line Sur. No. 311 Morning Star lode at S.81°30'W. 265.38 ft. from N.E. Cor. and N. 81° 30' E., 1164.62 ft. from N.W. Cor.

300.00 To S. end center, identical with Loc. Mon.

A palo Verde post 4 ins. diam. by 4 ft. high, set firmly in the ground and surrounded with md of stone 3 1/2 ft. base by 3 ft. high Scribed S. Cr. S.R.

600.00 To Cor. No. 2, identical with Loc. Mon. and Cor. No.1 Galena lode of this Sur.

An iron pipe 1 in. diam. with brass cap on top , 18 ins. above ground, set 18 ins. in the ground, stamped 2 S R, 1 G - 3934 with md. of stone 3 1/2 ft. base by 3 ft. high alongside .

No bearings are available.

Thence N. 28° 51' E.

Va. 13° 30' E.

1233.00 To Cor. No. 3, identical with Loc. Mon. and Cor. No. 4 Galena lode of this Sur.

An iron pipe 1 in. diam. with brass cap on top, 18 ins. above ground, set 18 ins. in the ground, stamped 3 S R, 4 G.-3934 with md. of stone 3 1/2 ft. base by 3 ft. high alongside.

No bearings are available.

Feet.

MINERAL SURVEY NO. 3934

SUN RISE Lode- Cont'd.

Thence S. 72° 06' E.
Va. 13° 30' E.

300.0 To N. end center, identical with Loc. Mon.
A palo Verde post 4 ins. diam. by 4 ft. high, set firmly in the ground and surrounded with md of stone 3 1/2 ft. base by 3 ft. high, Scribed N. Cr. S R.

600.0 To Cor. No.4.
An iron pipe 1 in. diam. with brass cap on top, 18 ins. above ground, set 18 ins in the ground, Stamped 4 S R - 3934 , with md of stone 3 1/2 ft. base by 3 ft. high alongside.
Loc. Mon. brs. S. 72° 06' E., 2.5 ft.

No other bearings are available.

Thence S. 28° 51' W.
Va. 13° 30' E.

1174.33 Intersect N. side line Sur. No.311, Morning Star lode at S. 81° 30' W., 135.83 ft. from N.E Cor. and N. 81° 30' E., 1294.17 ft. from N.W. Cor.

1233.0 To Cor. No. 1, the place of beginning.

GALENA Lode.

Beginning at Cor. No.1, identical with Loc. Mon. and Cor. No.2 Sun Rise lode of this Sur. heretofore described, whence the 1/4 Cor bet. Secs. 16-21, T. 14 S., R. 4 W. brs. S. 31° 30' E., 1289.3 ft.

Thence N. 72° 06' W.,
Va. 13° 30' E.

300.0 To S. end Center, identical with Loc. Mon.
A palo Verde post 4 ins. diam. by 4 ft. high, set firmly in the ground and surrounded with md. of stone 3 1/2 ft. base by 3 ft. high, Scribed S. Cr. G.

600.0 To Cor. No.2
An iron pipe 1 in. diam. with brass cap on top, 18 ins. above ground, set 18 ins. in the ground, stamped 2 G.-3934 with md. of stone 3 1/2 ft. base by 3 ft. high alongside.

Loc. Mon. brs. N. 81° 12' W., 111.0 ft.

F.M.
Cor. No.3 Sur. No.3933, Gillett lode brs. S. 40° 36' W., 205.87 ft.

No other bearings are available.

Feet.

MINERAL SURVEY NO. 3934

GALENA Lode- Cont'd.

Thence N. 28° 51' E.
Va. 13° 30' E.

1233.0 To Cor. No. 3.

An iron pipe 1 in. diam., with brass cap on top, 18 ins. above ground, set 18 ins. in the ground, stamped 3 G.-3934 with md. of stone 3 1/2 ft. base by 3 ft. high alongside.

Loc. Mon. brs. N. 72° 06' W., 106 ft.

No other bearings are available.

Thence S. 72° 06' E.
Va. 13° 30' E.

300.0 To N. end center, identical with Loc. Mon.

A palo verde post 4 ins. diam. by 4 ft. high, set firmly in the ground and surrounded with md. of stone 3 1/2 ft. base by 3 ft. high.

Scribed N. Cr. C.

600.0 To Cor. No. 4, identical with Loc. Mon. and Cor. No. 3 Sun Rise lode of this Sur., heretofore described.

Thence S. 28° 51' W.
Va. 13° 30' E.

1233.0 To Cor. No. 1, the place of beginning.

LODE LINES.

As near as can be determined from the present developments, the veins of the several locations embraced in this claim, extend as follows from their respective discovery points.

Sun Rise lode, 515.0 ft. S. 28° 51' W., and 718.0 ft., N. 28° 51' E.

Galena lode, 100.0 ft. S. 28° 51' W., and 1133.0 ft. N. 28° 51' E. ✓

AREA.

Total area Sun Rise lode-----	Acres. ✓
Area in conflict,	16.674 ✓
Sur. No. 311 Morning Star lode-----	0.069 ✓
Total area Galena lode -----	16.674 ✓

LOCATION.

This survey is located in the S. 1/2 Section 16, T. 14 S., R. 4 W.,
G. & S. R. M. ✓

Feet.

MINERAL SURVEY No. 3934

EXPENDITURE OF FIVE HUNDRED DOLLARS.

I certify that the value of the labor and improvements made upon of for the benefit of each of the locations embraced in said mining claim by the claimants or their grantors is not less than five hundred dollars, and that said improvements consist of :

SUN RISE Lode.

No.1, The discovery cut, the mouth of which being the discovery point is on the center line, 515 ft. from the center of line 1-2 5 ft. wide, 8 ft. face, running S. 20° E., 15 ft. to face.
Value \$100.0

No.2, A cut, the mouth of which is on the center line 590.0 ft. from the center of line 1-2. 5 ft. wide, 8 ft. face, running S.6° E., 15 ft. to face.
Value \$100.0

No.3, A tunnel, the mouth of which hrs. from Cor. No. 4 S. 53° W., 690.0 ft. 4 X 6 ft. running South 30 ft. to face.
Value \$300.0

No.4 A shaft, the center of which hrs. from Cor. No. 4 S.55° W., 570. ft. 4 X 6 ft. 10 ft. deep.
Value \$100.0

No.5 An inclined shaft, the center of which hrs. from Cor. No. 4 S. 61° 45' W., 485 ft. 4 X 6 ft. 100 ft. deep.
Value \$1000.0

No.6 A shaft, the center of which hrs. from Cor. No. 4 S.68°45' W., 410.0 ft. 4 X 6 ft. 8 ft. deep.
Value \$80.0

No.7 A shaft, the center of which hrs. from Cor. No.4 S.79° W., 350.0ft. 4 X 6 ft. 8 ft. deep.
Value \$80.0

No.8 A-shaft, the center of which hrs. from Cor. No.4 N. 77° W., 270 ft. 4 X 6 ft. 15 ft. deep.
Value \$150.0

GALENA Lode.

No.1 The discovery point, on the center line, 100 ft. from the center of line 1-2 , A md. of stone on cropping,
No value.

No.2 A shaft, the center of which hrs. from Cor. No.2 N.81°45' E., 235 ft., 4 X 6 ft. 30 ft. deep.
Value \$300.0

MINERAL SURVEY NO. 3934

EXPENDITURE OF FIVE HUNDRED DOLLARS.

GALENA Lode- Cont'd.

No. 3 A cut, the mouth of which hrs. from Cor. No. 2 S. $74^{\circ} 15' E.$,
240 ft. 5 ft. wide, 8 ft. face, running N. $8^{\circ} 30' W.$, 15 ft. to face.

Value \$100.0

No. 4 A shaft, the center of which hrs. from Cor. No. 2 N. $65^{\circ} 15' E.$,
270 ft. 4 X 6 ft. 8 ft. deep.

Value \$80.0

No. 5 A shaft, the center of which hrs from Cor. No. 2 N. $54^{\circ} 15' E.$,
310 ft. 4 X 6 ft. 8 ft. deep.

Value \$80.0

No. 6 A shaft, the center of which hrs. from Cor. No. 3, S. $6^{\circ} 30' W.$,
560.0 ft. 4 X 6 ft. 8 ft. deep.

Value \$80.0

No. 7 A shaft, the center of which hrs. from Cor. No. 3, S. $5^{\circ} 15' W.$,
540 ft. 4 X 6 ft. 8 ft. deep.

Value \$80.0

No. 8 A shaft, the center of which hrs. from Cor No. 3, S. $4^{\circ} W.$,
390. ft. 4 X 6 ft. 10 ft. deep.

Value \$100.0

No. 9 A shaft, the center of which hrs. from Cor. No. 3, S. $6^{\circ} 30' W.$?
315. ft. 4 X 6 ft. 10 ft. deep.

Value \$ 100.0

No. 10 A shaft, the center of which hrs. from Cor. No. 3, S. $12^{\circ} 30' E.$,
340. ft. 4 X 6 ft. 50 ft. deep.

Value \$ 500.0

No. 11, A shaft, the center of which hrs. from Cor. No. 3 S. $67^{\circ} E.$,
220. ft. 4 X 6 ft. 8 ft. deep.

Value \$ 80.0

INSTRUMENT.

This survey was made with a Gurley mountain transit, the courses were deflected from the true meridian, as determined by direct solar observations. The distances were measured with a 500 ft. steel tape.

REPORT.

The lode line of each location of this claim was run directly upon the ground, and the corners were established by running around the claims.

MINERAL SURVEY NO. 3934

REPORT Cont'd.

The ^{W.C.} 1/4 Cor. bet. Secs. 16-21 T. 14S., R. 4 W., Consists of an iron pipe with brass cap on top, properly set and stamped ^{W.C.} S.16-S.21, 1/4.

U.S. M.M: No.1 consists of a md. of stone about 4 1/2 ft. base by 4 ft. high. It has no post or markings. It is situated on the summit of the highest hill in the Vicinity and was pointed out to me as the original monument.

The S.W. Cor. Sur. No.309 Gun Sight lode consists of a md of stone with no markings.

A monument at the intersection of the N. side line Sur. No. 311 Morning Star lode with the W. side line Sur. No: 309 Gun Sight lode, consists of a 2 x 4 in. post 4 ft. high, set in md of stone apparently built many years ago but well preserved, marked M S NEC on W. face and G S on E face. This Mon. described in the records as marked M.S. M.C. . Its identity was determined without doubt from the location of the improvements on the Gun Sight lode and its relative position from U. S. M. M. No.1

I was unable to identify any of the corners of Sur. No. 311 Morning Star lode except the Mon. above described, the record was therefore adopted in determining the conflict with this survey.

ADJOINING CLAIMS.

On the North by Liberty Bond No.1; Uns.; Claimant unknown.

On the East by Sur. No.311 Morning Star lode, claimant unknown.

On the South by Sur. No.311 Morning Star lode.

On the West by Sun Down lode, Uns. Geo. Sayers, Claimant.

do not include in transcript.

MINERAL SURVEY NO. 3934

SOLAR OBSERVATION.

Direct solar observation taken Friday April, 4th, 1924 at 3:15

P.M. Solar time.- Sun bisected- Lat. $32^{\circ}13'$ - Lon. $112^{\circ}40'$

Difference in time, 10 h 45 m

Apparent declination $5^{\circ}41'48.1''$ ✓
 $10'14''$ ✓
 Dec'l = $5^{\circ}52'02''$ ✓

P = 90° - Dec'l = $84^{\circ}08'$ ✓

L = $32^{\circ}13'$

H = $38^{\circ}09'$

P = $84^{\circ}08'$

2) $154^{\circ}30'$ ✓
 $77^{\circ}15' > S.$ ✓

$$\sin 1/2 A = \frac{\sqrt{\sin(S-L)(S-H)}}{\cos L \cos H}$$

S-L = $45^{\circ}02'$ ✓

S-H = $39^{\circ}06'$ ✓

9.8497375 ✓

9.7998062 ✓

0.0726101 ✓

0.1043586 ✓

2) 19.8265124 ✓

$9.9132562 = 54^{\circ}58'50'' = 1/2 A.$

$109^{\circ}57'40'' = A.$

$180^{\circ} - 109^{\circ}57'40'' = 70^{\circ}02'20'' W. =$ Bearing of Sun.

$37^{\circ}51'40''$

Ang. to right = $107^{\circ}54'$

180

N. $72^{\circ}06' W.$ Bearing of line .

Set up at Cor. No. 4 Sun Rise lode- F.S. to Cor. No.3.

FINAL OATHS FOR SURVEYS.

LIST OF NAMES.

A list of the names of the individuals employed by T.N. Stevens

United States Mineral Surveyor, to assist in running, measuring, and marking the lines, corners, and boundaries described in the foregoing field notes of the survey of the mining claim of _____

Mary A. Meehan and C. H. Conrad, Jr.

known as the SUN RISE and GALENA lodes

and showing the respective capacities in which they acted.

Martin Waer, Jr., *Chainman.*

_____, *Chainman.*

_____, *Acman.*

_____, *Flagman.*

FINAL OATHS OF ASSISTANTS.

~~We~~, I, Martin Waer, Jr.

~~and~~ _____, do solemnly swear that ~~we~~ ^I assisted T.N. Stevens

_____, United States Mineral Surveyor, in marking the corners and surveying the boundaries of the mining claim of Mary A. Meehan and C.H. Conrad, Jr.

known as the SUN RISE and GALENA lodes

represented in the foregoing field notes as having been surveyed by said mineral surveyor and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, faithfully and correctly executed, and the corner and boundary monuments established according to law and the instructions furnished by the United States Surveyor-General for Arizona

Martin Waer, Jr., *Chainman.*

_____, *Chainman.*

_____, *Acman.*

_____, *Flagman.*

Subscribed and sworn to by the above-named persons before me this 19th

day of April, 1924

My Commission Expires June 4, 1924

Isabel M. Lander
Notary Public

FINAL OATH OF U. S. MINERAL SURVEYOR.

I, T. N. Stevens, U. S. Mineral Surveyor, do solemnly swear that, in pursuance of instructions received from the United States Surveyor General for Arizona, dated March 10, 1924, I have, in strict conformity to the laws of the United States, the official regulations and instructions thereunder, and the instructions of said Surveyor General, faithfully and correctly executed the survey of the Mining Claim of Mary A. Meehan and G. E. Conrad, Jr., known as the Sun Rise and Galena Lodes, situate in Meyers Mining District, Pima County, Arizona, in Section 16, Township No. 14 S., Range No. 4 W., G. & S. R. M., and designated as Survey No. 3254, as represented in the foregoing field notes, which accurately show the boundaries of said mining claim as distinctly marked by monuments on the ground, and described in the attached copy of the location certificate, which was received by me from the Surveyor General with said instructions, and that all the corners of said survey have been established and perpetuated in strict accordance with the law, official regulations and instructions thereunder; and I do further solemnly swear that the foregoing are the true and original field notes of said survey and my report therein, and that the labor expended and improvements made upon said mining claim by claimants or their grantors are as therein fully stated, and that the character, extent, location, and itemized value thereof are specified therein with particularity and full detail, and that no portion of said labor or improvements so credited to this claim has been included in the estimate of expenditures upon any other claim.

T. N. Stevens.
U. S. Mineral Surveyor.

Subscribed and sworn to by the said T. N. Stevens
U. S. Mineral Surveyor, before me Sabel M. Rauder
a Notary Public this 19th
day of April, 1924

~~My Commission Expires June 4, 1924~~

Sabel M. Rauder
Notary Public

U. S. SURVEYOR GENERAL'S FINAL CERTIFICATE ON
FIELD NOTES.

DEPARTMENT OF THE INTERIOR,

OFFICE OF U. S. SURVEYOR GENERAL,

Phoenix, Arizona.

June 6, 1924.

I, U. S. Surveyor General for District of Arizona,
do hereby certify that the foregoing transcript of the Field Notes, return and approval
of the Survey of the mining claim of

Mary A. Meehan and C. H. Conrad, Jr.,

, known as the SUNRISE and GALENA lodes

, situate in Meyers

Mining District, Pima County,

Arizona, in Section 16, Township No. 14 S.,

Range No. 4 W., and designated as Survey

No. 3934, has been correctly copied from the originals on
file in this office; that said Field Notes furnish such an accurate description of said
mining claim as will, if incorporated into a patent, serve fully to identify the premises,
and that such reference is made therein to natural objects or permanent monuments as
will perpetuate and fix the locus thereof.

And I further certify that five hundred dollars' worth of labor has been expended
or improvements made upon ^{each of} said mining claims by claimants or their grantors, and
that said improvements consist of 3 cuts, 1 tunnel and 14 shafts,
total value \$3410.

and that no portion of said labor or improvements has been included in the estimate of
expenditures upon any other claim.

I further certify that the plat thereof, filed in the U. S. Land Office at Phoenix,
Arizona, is correct and in conformity with the foregoing Field Notes.

Charles M. Donohoe

United States Surveyor General for Arizona.

SURVEYOR GENERAL'S CERTIFICATE OF APPROVAL OF FIELD NOTES AND SURVEY OF MINING CLAIM

DEPARTMENT OF THE INTERIOR OFFICE OF U. S. SURVEYOR GENERAL

Phoenix, Arizona,

June 6, 1924

I, U. S. Surveyor General for District of Arizona

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

Mary A. Meehan and C. H. Conrad, Jr.,

, known as the

SUN RISE and GALENA lodes

situate in Meyers mining district,

Pima County, Arizona

in Section 16, Township No. 14 S., Range No. 4 W.

, designated as Survey No. 3934

executed by T. N. Stevens, U. S. Mineral

Surveyor, April 1 - 4, 1924, under my instructions dated

March 10, 1924, 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

on file in this office and a true copy of said certified copy of said location certificate is included and

made a part of the transcript of the field notes.

Charles M. Donohue

U. S. Surveyor General for Arizona.