

APR-9 1922
1

MINERAL SURVEY No. 3890

Arizona Land District

FIELD NOTES

OF THE SURVEY OF THE MINING CLAIM OF

Patrick Guerin

KNOWN AS THE

EXTENSION and HILL TOP Lodes.

Old Hat Mining District,

Pima County, Arizona

Section s 21-22 UNS, Township 11 S., Range 16 E., G. & S. R. M.

Surveyed under instructions dated March 10, 1923

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

Claim located See location notices, 19

Survey commenced March 21, 1923

Survey completed March 23, 1923

Address of claimants R. W. Langworthy, Tucson, Arizona.

DATES OF AMENDED LOCATIONS.

See location notices

Feet.	MINERAL SURVEY NO. 3890
	EXTENTION Lode.
	Beginning at Cor. No.1, identical with Loc. Mon. and Cor. No.1 Sur. No.3878 Hill Bird lode, Claimant herein.
	On granite ledge 10 ft. high, by 25 ft. long, chiseled with cross (X) 1-HB-3878, 1-Ex-3890, with md. of stone 3 1/2 ft. base by 3 ft. high alongside, whence the N.E. Cor. Sec.21, T. 11S., R. 16 E. brs. 3022.1 ft. An oak tree 24 ins. diam. brs. S.40° W. N. 3° 11' 50" W., 56.9 ft. Blazed and scribed 1-3878, 1-3890 BT
	No other bearings are available.
	Thence S. 10° 48' E. Va. 13° 30' E.
300.0	To W. end center, identical with E. end center Sur. No.3878 Hill Bird lode.
	An oak 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 E. Cr. HB and W. Cr. Ex.
600.0	To Cor. No. 2, identical with Loc. Mon. and Cor. Nos. 1-2, Sur. No. 3878 Baltimore and Hill Bird lodes respectively.
	A granite boulder in place 3 x 1 ft. 1 in. above ground, chiseled with cross (X) 1-B, 2-HB - 3878 and 2 Ex-3890, with md. of stone 3 1/2 ft. base by 3 ft. high alongside.
	An oak tree 24 ins. diam. brs. S.34° W., 14.1 ft. Blazed and scribed 1-2, -3878 and 2-3890, - BT.
	No other bearings are available.
60.	Thence N. 79° 12' E. Va. 13° 30' E. Gulch, brs. southeasterly.
1500.0	To Cor. No.3, identical with Loc. Mon.
	A limestone rock 6 x 12 x 8 ins. above ground, set 12 ins. in the ground, chiseled with cross (x) 3-Ex,-3890 with md. of stone 3 1/2 ft. base by 3 ft. high alongside.
	No bearings are available.
	Thence N. 10° 48' W. Va. 13° 30' E.
40.0	Gulch brs. southeasterly.
300.0	To E. end center. An oak 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.

Feet.

MINERAL SURVEY NO. 3890

EXTENTION LODE † Cont'd.

high, scribed E. Cr. Ex.

600.0 To Cor. No. 4, identical with Loc. Mon.

A granite rock 7 x 12 x 8 ins. above ground, set 12 ins. in the ground, chiseled with cross (x) 4 Ex- 3890, with md. of stone 3 1/2 ft. base by 3 ft. high alongside.

An oak tree 8 ins. diam. brs. S. 52° E., 27.4 ft. blazed and scribed 4-3890 B T .

No other bearings are available.

Thence S. 79° 12' W.
Va. 13° 30' E.

614.0 Gulch brs southeasterly.

1200.0 To Cor. No. 2, Hill Top Lode of this Sur. hereinafter described.

1450.0 Gulch brs. southeasterly.

1500.0 To Cor. No. 1, the place of beginning.

HILL TOP Lode.

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

A granite rock 8 x 10 x 8 ins. above ground, set 12 ins. in the ground, chiseled with cross (x) 1 H T - 3890, with md. of stone 3 1/2 ft. base by 3 ft. high alongside, whence the N. E. Cor. Sec. 21 T. 11 S. R. 16 E. brs. N. 8° 24' 50" W., 2397.5 ft.

An oak tree 12 ins. diam. brs. S. 13° E., 56 ft. Blazed and scribed 1-3890 Bt.

No other bearings are available.

Thence S. 10° 48' E.
Va. 13° 30' E.

300.00 To E. end center. *Alpine po*

An oak 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 E. Cr. H T.

600.00 To Cor. No. 2, identical with Loc. Mon. and on line 4-1 Extention lode of this Sur.

A limestone rock 5 x 10 x 8 ins. above ground, set 12 ins. in the ground, chiseled with cross (x) 2 H T- 3890 with md. of stone 3 1/2 ft. base by 3 ft. high alongside.

Feet.

MINERAL SURVEY NO. 3890

HILL TOP Lode- Cont'd.

Thence S. 79° 12' W.
Va. 13° 30' E.

- 250.0 Gulch brs. southeasterly.
- 300.0 To Cor. No.1 Sur. No.3878 Hill Bird Lode, identical with Cor. No.1 Extention lode of this Sur. heretofore described.
- 1500.00 To Cor. No.3, identical with Loc. Mon. and Cor. No. 3 Sur. No.3878 Iron Cap lode.

A granite rock 10 x 12 x 8 ins. above ground, set 12 ins. in the ground, chiseled with Cross (x) 3-IC 3878, 3-H T 3890, with md. of stone 3 1/2 ft. base by 3 ft. high alongside.

An oak tree 8 ins. diam. brs S. 80° 45' W., 39.9 ft. Blazed and scribed 3-3878, 3-3890 B T.

Thence N. 10 ° 48' W.
Va. 13° 30' E.

- 300.0 To W. end center. An oak 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 W. Cr. H T.

- 600.0 To Cor. No. 4, identical with Loc. Mon. and on line 2-3 Sur. No. 3878 Iron Cap lode.

A granite rock 4 x 10 x 8 ins above ground, set 12 ins. in the ground, chiseled with cross (x) 4 HT- 3890 with md. of stone 3 1/2 ft. base by 3 ft. high alongside.

An oak tree 12 ins. diam. brs S. 53° E., 16.5 ft.

No other bearings are available.

Thence N. 79° 12' E.
Va. 13° 30' E.

- 1500.00 To Cor. No. 1 the place of beginning.

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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:-

Extention lode, 150 ft. S. 79° 12' W., and 1350 ft. N. 79° 12' E.

Hill Top lode, 430 ft., N. 79° 12' E., and 1070 ft. S. 79° 12' W.

MINERAL SURVEY NO. 3890

Area.

	Acres
Total area Extention lode-----	20.661 ✓
Total area Hill Top lode-----	20.661 ✓

The survey of each lode of this location is identical with the respective locations as staked upon the ground.

LOCATION.

This survey is located in the E 1/2 of the E. 1/2 Sec. 21 and the W.1/2 of the W.1/2 Sec. 22, Unsurveyed, T.11 S., R. 16 E. G. & S. R. M. - In the Coronado National Forest.

-----oCo-----

EXPENDITURE OF FIVE HUNDRED DOLLARS.

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

EXTENTION Lode.

No.1 the discovery cut, the mouth of which being the discovery point is on the center line 150 ft. from the center of line 1-2 4 1/2 ft. wide, 8 ft. face, running N. 79° E., 15 ft. to face.

Value \$100.

No. 2 A shaft, the center of which brs. from Cor. No.2 N. 43° E. 345 ft., 4 x 6 ft. 10 ft. deep.

Value \$100.0

No.3 A cut, the mouth of which brs. from Cor. No.2 N. 48° E., 260 ft. 4 ft. wide, 8 ft. face, running N. 20° E. 12 ft. to face.

Value \$80.0

No.4 A shaft, the center of which brs. from Cor. No.4 S.59° 15'W., 750 ft. 4 x 6 ft. 8 ft. deep.

Value \$80.0

No. 5 A cut, the center of which brs. from Cor. No.4 S.68° 15'W., 740 ft. 4 ft. wide, 8 ft. face, running S. 60° W., 12 ft. to face.

Value \$80.0

Feet.

MINERAL SURVEY NO. 3890

Improvement No.11 on the Lucky Jim lode, Sur. No. 3878.

A tunnel, the mouth of which brs. from Cor. No.3 N. 59°45' W., 140 ft. 4 x 6 ft. running N. 23° 35' E. 155.8 ft. to Sta. 2, thence N. 27° 35' E., 33.65 ft. to Sta. 3.

At N. 27° 35' E., 11 ft. from Sta. 2 a drift 4 x 6 ft. running N. 10° W., 46 ft. to face .

From Sta. 3 thence N. 9° 30' W. 32 ft. to Sta. 4, thence N.17°35'W., 21.7 ft. to Sta. 5, thence N.31°20' W., 33.1 ft. to Sta. 6.

At N. 31°20' W.,15 ft. from Sta. 5 A drift 4 x 6 ft. running N. 50° E. 35 ft. to face.

From Sta. 6 thence N. 1° 50' W., 19.8 ft. to Sta. 7

From Sta. 6 thence N. 78° W., 14 ft. to face.

From Sta. 7 thence N. 20°55' W. 36.5 ft. to Sta. 8.

thence N. 34°17' W., 13.1 ft. to Sta. 9, thence N. 4° 22' W., 21.2 ft.

to Sta. 10, thence N. 21° 34' W., 21.1 ft. to Sta. 11, thence

N.2° 04' W., 33.2 ft. to Sta. 12, thence N. 3° 38' W., 32.3 ft. to

Sta. 13, thence N. 16° 52' E., 21 ft. to Sta. 14, thence N. 12° 02' E.,

34 ft. to Sta. 15.

At N. 12° 02' E., 10 ft. from Sta. 14 a drift 4 x 6 ft. running

N. 75° E., 38 ft. to face.

From Sta. 15, thence N. 7° 10' E., 32.4 ft. to Sta. 16, thence

N. 10° 45' W., 39.8 ft. to Sta. 17.

N.

At 10° 45' W., 4 ft. from Sta. 16 is an upraise 4 x 6 ft. 35 ft.

high.

From Sta. 17, thence N. 11° 51' E., 14.9 ft. to Sta. 18, thence

N. 15° 36' W., 42 ft. to, Sta. 19, thence N. 1° 06' W., 27.5 ft. to

face. Total length of tunnel 798.05 ft.

Total value \$7980.0

An undivided 1/7 th interest is assigned to this claim, Value \$1140.

This tunnel is a practicable and feasible main working tunnel in the course of construction for the development of the five claims of Sur. No.3878 consisting of the Baltimore, Hill Bird, Iron Cap, Lucky Jim and Spring Brook lodes, together with the Extension and Hill Top lodes of this Sur. all belonging to claimant herein,

MINERAL SURVEY NO. 3890,

EXPENDITURE OF FIVE HUNDRED DOLLARS.

^B
~~As~~ by drifting and cross-cutting therefrom in different directions towards and under the several mentioned claims the entire group may be advantageously developed and ore extracted therefrom, as all the discoveries are above the present floor of this tunnel.

This improvement is therefore a common improvement for the benefit of each of the seven mentioned claims.

An undivided 1/7 interest in this tunnel, value \$1140.00 is properly accredited to each of the above mentioned claims.

HILL TOP Lode.

No.1, The discovery shaft on the center line, 430 ft. from the center of line 1-2, 4 x 6 ft. 8 ft. deep.

Value \$80.00

No.2, A cut, the mouth of which brs. from Cor. No.2, N. 52° 15' W., 290 ft. 4 1/2 ft. wide 10 ft. face running N. 30° E., 15 ft. to face. from face is a tunnel 4 x 6 ft. running N. 30° E., 5 ft. to face.

Value Cut and tunnel \$ 150.0

No. 3, A cut, the mouth of which brs. from Cor. No.2 N. 57° W., 280 ft. 4 ft. wide 10 ft. face, running N. 30° E., 15 ft. to face.

Value \$100.0

No.4, A cut, the mouth of which brs. from Cor. No. 2 N. 57° W., 265 ft. 4 ft. wide, 10 ft. face, running N. 30° E., 15 ft. to face.

Value \$100.0

No. 5, A cut, the mouth of which brs. from Cor. No.2 N.78°30' W. 250 ft. 4 1/2 ft wide, 10 ft. face running N. 62° E. 18 ft. to face from face is a tunnel 4 x 6 ft. running N. 62° E.3 ft. to face.

Value of cut and tunnel \$130.

No. 6, A cut, the mouth of which is on line 2-3 57 ft. from Cor. No. 2, 4 ft. wide, 6 ft. face, running North 12 ft. to face.

Value \$60.0

No. 7, A cut, the mouth of which is on line 2-3 , 45 ft. from Cor. No.2, 4 ft. wide, 6 ft. face, running North 12 ft. to face.

Value \$60.0

MINERAL SURVEY NO. 3890

EXPENDITURE OF FIVE HUNDRED DOLLARS.

Hill Top lode.

An undivided 1/7 th interest in improvement No.11 , Sur. No.3878
Lucky Jim lode, credited to this lode.

Value.\$ 1140.0

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.

The N.E. Cor. Sec. 21 T. 11 S. R. 16 E. consists of a granite rock 8 x 12 x 12 ins. above ground, chiseled with 3 notches on the E. face and 3 notches on the S. face.

Sur. No.3878, Baltimore, Hill Bird and Iron Cap lode, All corners consist of stone properly set and chiseled with the number of the corner and the Survey. I find all courses and distances to be correct.

Adjoining Claims.

On the Southby Sur. No. 3878 Hill Bird lode

On the West by Sur. No. 3878 Iron Cap lode.

do not include in transcript

MINERAL SURVEY NO. 3890

Direct solar observation taken Thursday March 22, 1923

2.52 P.M. Solar time- Sun bisected. Lat. 32°27' Lon. 110° 43'

Difference in time 10 h 15'

Apparent declination 0° 20' 15.2"
 10' 7"
 0° 30'

$P = 90^\circ - \text{Dec}'l = 89^\circ 30'$

$L = 32^\circ 27'$
 $H = 40^\circ 58'$
 $P = 89^\circ 30'$
 2) $\frac{162^\circ 55'}{81^\circ 27' 30''} = S$

$\text{Sin } 1/2 A = \sqrt{\frac{\text{Sin } (S-L) (S-H)}{\text{Cos } L \text{ Cos } H}}$

$S-L = 49^\circ 00' 30'' \checkmark$ 9.8778348 \checkmark
 $S-H = 40^\circ 29' 30'' \checkmark$ 9.8124704 \checkmark
 0.0737296 \checkmark
 0.1220006 \checkmark
 2) $\frac{19.8860354 \checkmark}{9.9430172 \checkmark} = 61^\circ 17' = 1/2 A.$
 $122^\circ 34' \div A.$

180°
 $\frac{122^\circ 34'}{57^\circ 26' \text{ W. Course of Sun.}}$
 $68^\circ 14' \text{ Angle to left from Sun.}$
 $S 10^\circ 48' \text{ E. - Course of line.}$

Set up at Cor. No.1 Extention lode, F.S. to Cor. No.2

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

Patrick Guerin

known as the EXTENTION and HILL TOP Lodes

and showing the respective capacities in which they acted.

W.H. Coplen, Chainman.

Chainman.

Asman.

Flagman.

FINAL OATHS OF ASSISTANTS.

-We, I, W.H. Coplen

and _____, do solemnly swear that ^I we assisted _____

T.N. Stevens, United States Mineral Surveyor, in marking the corners and surveying

the boundaries of the mining claim of Patrick Guerin

known as the EXTENTION and HILL TOP 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.

W.H. Coplen, Chainman.

Chainman.

Asman.

Flagman.

Subscribed and sworn to by the above-named persons before me this 7th

day of April, 1923

My Commission Expires June 4, 1924

Label M. Gauder
Notary Public

4-686.

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, 1923, 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 Patrick Guerin, known as the EXTENTION and HILL TOP lodes, situate in Old Hat Mining District, Pima County, Arizona, in Section 21-22 UNS, Township No. 11 S., Range No. 16 E., G.&S. R. M., and designated as Survey No. 3890, 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 claimant or his 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 Isabel M. Lander
a Notary Public this 7th
day of April, 1923

Isabel M. Lander
Notary Public

My Commission Expires June 4, 1924

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

DEPARTMENT OF THE INTERIOR,

OFFICE OF U. S. SURVEYOR GENERAL,

Phoenix, Arizona.

April 30, 1923.

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

Patrick Guerin

, known as the EXTENTION and HILL TOP Lodes

, situate in Old Hat

Mining District, Pima County,

Arizona, in Sections 21-22 Uns., Township No. 11 S.,

Range No. 16 E., G. & S.R.M., and designated as Survey

No. 3890, 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 said mining claim^{or for each of} by claimant or his grantors, and
that said improvements consist of 9 cuts, 3 shafts, 2 tunnels and 2/7
of the value of improvement No. 11 on the Lucky Jim lode,
Survey No. 3878, total value \$3400.

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.

Frank P. Trott

United States Surveyor General for Arizona.

4-687

**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,

April 30, 1923

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

Patrick Guerin

, known as the

EXTENTION and HILL TOP Lodes

situate in Old Hat mining district,

Pima County, Arizona

in Sections 21-22 Insur., Township No. 11 S., Range No. 16 E.

, designated as Survey No. 3890

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

Surveyor, March 21 - March 23, 1923, under my instructions dated

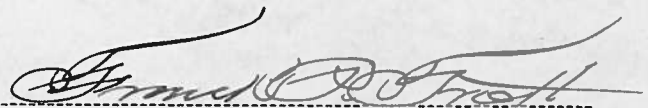
March 10, 1923, have been critically examined and the necessary

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.



U. S. Surveyor General for Arizona.