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AUG-2 1919  
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4-683

MINERAL SURVEY No. 3598

Arizona Land District.

# FIELD NOTES

OF THE SURVEY OF THE MINING CLAIM OF

Little Ajo Mining Company

KNOWN AS THE

FIRE FLY, FIRE FLY No.1, FIRE FLY No.2 lodes

Ajo Mining District,

Pima County, Arizona,

Section 27, Township 12 S, Range 6 W., G & S.R.M. Unapproved

Surveyed under instructions dated June 20, 19 19

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

Claim located See location notices, 19  
Survey commenced July 1, 19 19  
Survey completed July 4, 19 19  
Address of claimant's Atty, Ralph W. Langworthy,  
Tucson, Ariz

### DATES OF AMENDED LOCATIONS.

SURVEY NO. 3598  
FIRE FLY LODE Cont'd

A pine post 4 ins. square by 4 ft. long set firmly in the ground and surrounded with a md of stone 3 1/2 ft. base by 3 ft high. Scribed, 4 F.F.-3 F.F.2-3598. Whence the 1/4 Cor. bet. Secs. 27,34 T.12 S., R. 6 W., unapproved brs. S. 19.34' 30" W., 741.5 feet. No other bearings are available  
Thence N. 2°-52' E.  
Va. 13°-30' E.

1500. To Cor. No. 1. The place of beginning.

FIRE FLY NO.1 LODE

Beginning at Cor. No. 1 On line 2-3. Sur. No. 1526, Butte Lode, at N. 86°-17' W. 592.67 ft. from Cor. No. 2.

Identical with Cor. No. 2 Sur. No. 3488 Hope No. 1 Lode.

An iron pipe 3 1/2 ins. in diam. showing 24 ins. above ground, surrounded with md of stones, with copper plate on top stamped U.S.M.S. 3488 - 2 Hope 1, and chiseled 1-F.F. No. 1 -3598 on S. face.

Whence, U.S.M.M. No. 1 bears N. 72°-07'-40" E. 2580.76 ft.

Thence N. 86°-17' W.  
Va. 13°-30' E.

160 Wagon Road.

300 To N. End Center.

A pine post 4 ins. square by 4 ft. long, set firmly in the ground and surrounded with a md. of stone 3 1/2 ft base by 3 ft high. Scribed N. Cr.F.F.1.

599.70 To Cor. No. 2.

Identical with Cor. No. 1 Fire Fly No. 2 lode of this Survey.

A pine post 4 ins. square by 4 ft long, set firmly in the ground and surrounded with a md. of stone 3 1/2 ft base by 3 ft. high. Scribed 2 F.F.1-1-F.F.2 - 3598.

MINERAL SURVEY NO. 3598  
FIRE FLY LODE

Feet

Beginning at Cor. No. 1. Identical with Cor. No. 2, Fire Fly No. 2 lode of this Survey.

A pine post 4 ins. square, by 4 ft long, set firmly in the ground and surrounded with a md. of stone 3 1/2 ft. base by 3 ft. high. Scribed 1 F.F. - 2 F.F. 2 - 3598. Whence; - U.S.M.M. No. 1 bears N. 78°-56'-20" E. 3722.55 ft.

Thence N. 86°-17' W.  
Va. 13°-30' E.

300.00

To N. End Center.

A pine post 4 ins. square by 4 ft. long, set firmly in the ground, and surrounded with a md. of stone 3 1/2 ft. base by 3 ft. high. Scribed N. Cr., F.F. 1 - 3598.

600.00

To Cor. No. 2.

A pine post 4 ins. square by 4 ft. long, set firmly in the ground and surrounded with a md. of stone, 3 1/2 ft base by 3 ft high. Scribed 2-F.F. 3598. Cor. No. 3 Sur. No. 1526 Arkansas lode brs. N. 86° 10' W., 598.27 ft. No other bearings are available.

Thence S. 2°-52' W.  
Va. 13°-30' E.

1500.

To Cor. No. 3.

A pine post 4 ins. square by 4 ft. long, set firmly in the ground and surrounded with a md. of stone, 3 1/2 ft base by 3 ft. high. Scribed 3 F.F. 3598. No bearings are available.

Thence S. 86°-17' E.  
Va. 13°-30' E.

300.

To S. end Center.

A pine post 4 ins. square by 4 ft. long, set firmly in the ground and surrounded by a md of stone 3 1/2 ft. base by 3 ft high. Scribed S. Cr. F.F.

600

To Cor. No. 4. Identical with Cor. No. 3 Fire Fly No 2 Lode of this Survey.

SURVEY NO. 3598  
FIRE FLY NO. 1 lode Cont'd

Feet

Thence S 2°-52' W.  
Va. 13°-30' E.

1500. To Cor. No.3. Identical with Cor. No.4, Fire Fly No.2 lode of this Survey.

A pine post 4 ins. square by 4 ft. long, set firmly in the ground and surrounded with a md. of stone, 3½ ft base by 3 ft high. Scribed 3 F.F.1, 4 F.F.2 - 3598.

No bearings available.

Thence S.86°-17' E.  
Va. 13°-30'E.

299.70 To S. End Center.

A pine post 4 ins. square by 4 ft long, set firmly in the ground and surrounded with a md. of stone 3½ ft base by 3 ft high. Scribed S.Cr. F.F.1.

599.70 To Cor. No.4. Identical with Cor. No. 3, Sur.No.3488 Hope No.1 lode.

An iron pipe 3½ ins. in diam, showing 24 ins. above ground, surrounded with a md. of stone with copper plate on top stamped U.S.M.S. 3488-3 Hope 1, and chiseled 4-F.F. No.1-3598 on N. face.

No bearings are available.

Thence N.2°-52' E.  
Va. 13°-30'E.

1500. To place of beginning.

FIRE FLY NO. 2 lode.

Beginning at Cor. No. 1. On line 2-3 Sur.No. 1526 Butte lode.

Identical with Cor. No.2 Fire Fly No.1 lode of this Survey, heretofore described, Whence, U.S.M.M.No.1 bears N. 76°-09' E., 3146.13 ft.

Thence N. 86°-17' W.  
Va. 13°-30' E.

300 To N. End Center.

SURVEY NO. 3598  
FIRE FLY NO.2 Lode, Cont'd.

Feet

A pine post 4 ins. square by 4 ft long, set firmly in the ground and surrounded with a md of stone 3½ ft. base by 3 ft high. Scribed N.Cr.F.F.2.

303.54 Cor. No.2,-3 Sur. No. 1526, Arkansas and Butte lodes respectively.

600. To Cor. No.2. Identical with Cor. No.1 Fire Fly lode of this Survey, heretofore described.

Thence S.2°-52'W.  
Va. 13°-30'E.

1500. To Cor. No.3 . Identical with Cor. No.4 Fire Fly lode of this Survey, heretofore described.

No bearings available.

Thence S. 86°-17' E.  
Va. 13°-30' E.

300 To S. End Center.

A pine post 4 ins. square by 4 ft.long, set firmly in the ground and surrounded with a md. of stone,3½ ft. base by 3 ft high. Scribed S.Cr.F.F.2.

600 To Cor.No.4 . Identical with Cor. No.3 Fire Fly No.1 lode of this survey, heretofore described.

No bearings are available.

Thence N.2°-52' E  
Va 13°-30' E.

1500 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; Fire Fly lode - lode - 1385 ft. S.2°-52' W. and 115 ft. N. 2°-52' E; Fire Fly No. 1 lode 1350 ft S. 2°-52' W. and 150 ft. N 2°-52' E; Fire Fly

SURVEY NO. 3598

LODE LINES, Cont'd

No. 2 lode 1480 ft. S. 2°-52' W. and 20 ft. N. 2°-52' E.

AREA,

Total area Fire Fly lode 20.659 acres

Total area Fire Fly No.1 lode 20.649 acres

Total area Fire Fly No.2 lode 20.659 acres

*Total* 61.967

The survey of this claim is identical with the original locations, all corners of which were found in place.

LOCATION.

This Survey is located in the S.E. 1/4 and S.W. 1/4  
T.12 S. R.6 W.  
Sec. 27, R.6, W. T.12 S., G. and S.R.M. Unapproved

EXPENDITURE OF FIVE HUNDRED DOLLARS.

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

Fire Fly lode;

No.1. The discovery shaft of the Fire Fly lode, the center of which being the discovery point, on the center line 115 ft. from center of line 1-2, 5 x 5 ft. 10 ft. deep.

Value \$100.00

No.2. A shaft, the center of which bears from Cor. No.1, Fire Fly lode, S.63°-30'W. 320 ft, 5 x 7 ft. 7 ft. deep.

Value \$70.00

No.3. A shaft, the center of which bears from Cor. No.1 Fire Fly lode, S.51°-15'W. 170 ft. 4 x 6 ft. 15 ft. deep.

Value \$150.00

SURVEY NO. 3598  
EXPENDITURE OF FIVE HUNDRED DOLLARS, Cont'd

Fire Fly lode, Cont'd.

No.4 . A diamond drill hole which bears from Cor.

No.1, Fire Fly lode, S.40°-33' W., 147.70 ft. 1½ ins.  
diam. 1410 ft. deep.

Value \$7050.00

No.5. A shaft, the center of which bears from Cor.

No.3, Fire Fly lode, N.28°-52'E., 695 ft., 4 x 6 ft.  
15 ft. deep.

Value \$150.00

No.6. A shaft, the center of which bears from Cor.

No.3, Fire Fly lode, N. 30°-52' E., 710 ft, 4 x 6 ft.  
15 ft. deep.

Value \$150.00

Fire Fly No.1 lode.

No.1 The discovery shaft of the Fire Fly No.1 lode,  
the center of which being the discovery point on the  
lode line - 150 ft. from line 1-2, 300 ft. from Cor.  
No.1, 5 x 8 ft. 6 ft. deep.

Value \$60.00

No.2 A shaft, the center of which bears from Cor.No.

1 Fire Fly No.1 lode, S.44°-52' W., 220 ft. 4 x 6 ft, 12  
ft. deep.

Value \$120.00

No.3 A diamond drill hole which bears from Cor.No.

1, Fire Fly No.1 lode, S.76°-52' W. 220 ft., 3 ins. in  
dia. 1720 ft deep.

Value \$10,000.

No.4 A shaft, the N.E. corner of which bears from Cor.

No.1 Fire Fly No.1 lode, S.76°-52' W. 220 ft, 4 x 6 ft.  
25 ft deep.

Value \$250.00

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SURVEY NO. 3598  
EXPENDITURE OF FIVE HUNDRED DOLLARS, Cont'd

Fire Fly No.2 lode.

No.1 The discovery shaft of the Fire Fly No.2 lode the center of which being the discovery point, on the center line 20 ft. from center of line 1-2, 5 x 10 ft, 10 ft deep.

Value \$175.00

No.2 A churn drill hole, the center of which bears from Cor. No.2 Fire Fly No.2 lode, S.47°-29' E. 131.2 ft. 5 ins. in dia. 260 ft. deep.

Value \$1300.00

INSTRUMENT

This Survey was made with a Gurley Mountain Transit. The courses were deflected from the true meridian as determined by direct solar observation. 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. All tie lines were run directly upon the ground.

U. S. M.M. No.1 consists of an iron pipe  $2\frac{1}{2}$  ins. in.dia. by 15 ft. high, surrounded with a mound of stone - stamped - U.S.M.M.No.1, Ajo Mining Dist.Pima County. Est. Dec.14 1882 by L.D.Chillson. Re-~~set~~<sup>set</sup>, Dec.28-1917, by Paul Fernald.

Cor. Nos.2-3, Sur.No.1526 Arkansas and Butte lodes, <sup>Claimant unknown</sup> consists of a pine post 4 ins. square, showing 3 ft. above ground, surrounded with md. of stone. Scribing thereon could not be identified.

Cor.No.3, Sur. 1526. Arkansas lode, consists of a pine post, 2 x 4 ins. showing 3 ft above ground surrounded with md.of stone. Scribing thereon could not be identified.

## SURVEY NO. 3598

## REPORT Cont'd

Cor.No.2. Sur.No.1526, Butte lode, consists of an iron pipe  $3\frac{1}{2}$  ins. in diam. showing 24 ins. above ground, surrounded with md. of stone, with copper plate on top stamped U.S.M.S. 1526 - 3 Cora 1 - 2 Butte.

Lines 2-3, Sur. No. 1526, Butte and Arkansas lodes, fail to furnish the course and distance as approved (N.  $86^{\circ}30'$  W. 1500 ft), and same are properly given in these field notes.

The  $1/4$  cor. bet. Secs 27-34 T. 12 S., R. 6 W., unapproved consists of an iron pipe with brass cap on top, stamped S.27, S. 34- $1/4$

## ADJOINING CLAIMS.

On the North, Sur. No. 1526, Arkansas and Butte lodes; on the East, Sur. No.3488, Hope No.1 lode; on the South, Mary B lode, Unsur. M. G.M. lode, unsur. King Bee lode, Unsur; on the West, Meyer Fraction lode Unsur, Mary Alice lode, Unsur. Otto Mo. lode, Unsur. Bull Dog lode, Unsur. Claimant unknown.

# 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

LITTLE AJO MINING COMPANY

known as the FIRE FLY, FIRE FLY No.1, FIRE FLY No. 2 lodes

and showing the respective capacities in which they acted.

Henry Wehrsmith, Chainman.

, Chainman.

, Arman.

, Flagman.

## FINAL OATHS OF ASSISTANTS.

~~We~~ I, Henry Wehrsmith

~~we~~, do solemnly swear that <sup>I</sup>~~we~~ assisted

T.N. Stevens, United States Mineral Surveyor, in marking the corners and surveying the boundaries of the mining claim of Little Ajo Mining Company

known as the FIRE FLY, FIRE FLY No. 1, FIRE FLY No. 2 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

Henry Wehrsmith, Chainman.

, Chainman.

, Arman.

, Flagman

Subscribed and sworn to by the above-named persons before me this 14<sup>th</sup>

day of July, 1919

My Commission Expires July 20, 1920

Loabel 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 June 20, 1919, 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 Little Ajo Mining Company, known as the FIRE FLY, FIRE FLY No. 1, FIRE FLY No. 2 lodes, situate in Ajo Mining District, Pima County, Arizona, Unsurveyed, in Section 27, Township No. 12 S., Range No. 6 W., C. & S. R. N. Unappreciated, and designated as Survey No. 3598, 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 its 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. Lauder  
 a Notary Public this 14<sup>th</sup>  
 day of July, 1919

My Commission Expires July 10, 1920

*Isabel M. Lauder*  
Notary Public

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

Department of the Interior,

OFFICE OF U. S. SURVEYOR-GENERAL,

Phoenix, Arizona,

March 31, 1919.

I, U. S. Surveyor-General for Arizona

do hereby certify that the foregoing transcript of the Field Notes, return and approval of the survey of the mining claim of Little Ajo Mining Company

known as the FIRE FLY, FIRE FLY NO.1, FIRE FLY NO.2 Lodes

situate in Ajo

Mining District, Pima County, Arizona

in Section 27, Township No. 12 S., Range No. 6 W., G.S.R.M., Unapproved, and

designated as Survey No. 3598, 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 claim by claimant or its grantors, and that said improvements consist of 9 shafts and 3 drill holes.

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.

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,

March 31, 1919.

I, U. S. Surveyor-General for Arizona

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

known as the FIRE FLY, FIRE FLY NO.1, FIRE FLY NO.2, Lodes

situate in Ajo mining district, Pima County, Arizona

in Section 27, Township No. 12 S., Range No. 6 W., G. & S.R.M. Unapp'd.

designated as Survey No. 3598

executed by T. N. Stevens, United States Mineral

Surveyor, July 1-4, 1919, under my instructions dated June 20, 1919, have been critically examined and the necessary cor-

rections and explanations made, and the said Field Notes and Return, and the Survey they describe, are hereby approved. A true copy of the copy of the location certificate filed by the applicant for survey is included in the field notes.

Handwritten signature of the Surveyor-General

U. S. Surveyor-General for Arizona.