

MINERAL SURVEY No. 3935

Arizona Land District

FIELD NOTES

OF THE SURVEY OF THE MINING CLAIM OF

James E. Barney

KNOWN AS THE

RED CROSS lode

Oro Blanco Mining District,

Santa Cruz County, Arizona

Section 18., Township 23 S., Range 11 E. Unsvd.

G. & S.R.B. & M.

Surveyed under instructions dated March 12th., 19 24.

by Paul E. Fernald. U. S. Mineral Surveyor.

Claim located May 6th., 19 05.

Survey commenced June 1st., 19 24.

Survey completed June 3rd., 19 24.

Address of claimant Box 969, El Paso, Texas.

Address of Claimant's Attorney:- William G. Power.

DATES OF AMENDED LOCATIONS. Tucson, Ariz.

None.

U. S. MINERAL SURVEY NO. 3935.

Feet.	<u>RED CROSS</u> Lode.
	Beginning at Cor. No.1,
	A 1" iron pipe $4\frac{1}{2}$ feet long, set 6" in drill hole in bed-rock and surrounded by monument of stones. Galv. iron cap on pipe stamped 1 - 3935/
	Whence:- U.S.M.M.No.2, Oro Blanco Mining District, bears S $22^{\circ}32'W$, 2753.20 feet.
	Cor.No.3, P & B Lode, Survey No. 3042, bears N $51^{\circ}11'E$, 374.16 feet.
	Thence N $31^{\circ}23'E$.
300.00	East End Center - 4" Oak Post in monument of stones.
600.00	Cor. No.2.
	A 1" iron pipe $4\frac{1}{2}$ feet long with claw base, set 18" in ground and surrounded by monument of stones. Galv. iron cap on pipe stamped 2 - 3935.
	Thence N $58^{\circ}37'W$.
1500.00	Cor. No.3.,
	A 1" iron pipe $4\frac{1}{2}$ feet long with claw base, set 18" in ground and surrounded by monument of stones. Galv. iron cap on pipe stamped 3 - 3935.
	Thence S $31^{\circ}23'W$.
300.00	West End Center - 4" Oak Post in monument of stones.
575.00	Crosses center small draw running westerly.
600.00	Cor. No.4.
	A 1" iron pipe $4\frac{1}{2}$ feet long with claw base, set 8" in bed rock and surrounded by monument of stones. Galv. iron cap on pipe stamped 4 - 3935.
	Thence S $58^{\circ}37'E$
1500.00	Cor., No.1, the point of beginning.
	○
	Magnetic Variation at all corners of this survey $14^{\circ} E$.
	No suitable natural bearing objects available from any corner of this survey. The survey of this location is identical with same as staked upon the ground, and all survey corners are identical in position with the respective monuments of location.

LODE LINE:- As near as can be determined from the present state of developement, the vein of this location extends N 58°37'W - 400. feet and S 58°37'E - 1100. feet from the Discovery Point.

LOCATION:- This survey is located approximately in the ~~S.W. 1/4~~ of Section 18, T 23 S, R 11 E, G. & S.R.B. & M, Unsurveyed, in the Oro Blanco Mining District, Santa Cruz County, Arizona.

AREA:- This survey 20.661 acres.

EXPENDITURE OF FIVE HUNDRED DOLLARS:-

I certify that the value of labor and improvements made upon this claim by the claimant or its grantors is not less than Five Hundred Dollars, and that such improvements consist of:-

- No. 1. Discovery Cut, center of face of which is at point 400.00 on center line from West End Center. From Mouth, cut runs S 52°E, 4x29 feet to 11 foot face, thence 4x6 tunnel S 46°E- 64 feet; S 60°E- 62 feet; S 50°E- 19 feet to face.
Value \$ 1580.00
- No. 2. Cut and tunnel, center mouth of cut bearing S 88°28'E - 342.10 feet from Cor. No.4. Cut 4½ feet wide, S 32°15'E- 47 feet to 22 foot face; thence tunnel S 45°E- 38 feet, 4 feet wide and stoped 15 feet high; thence tunnel 4x6 - 8½ feet to face. Value \$ 1785.00
- No.3. Cut and tunnel, center mouth cut bearing N 22°6'W- 330.20 feet from Cor. No.1. Cut runs N 57°30'W - 4½x13 feet to 9 foot face, thence tunnel 4x6 - 43 feet to face.
Value \$ 480.00
- No.4. Shaft, center of which bears S 28°41'E - 609.30 feet from Cor. No.3. Shaft is 5x6 - 43 feet deep, incline to south, connecting at bottom with improvement No.1.
Value \$ 500.00

OTHER IMPROVEMENTS:-

None.

INSTRUMENT:- This survey was made with Deitzgen Transit No.

U.S. MINERAL SURVEY NO. 3935.

7256. Courses were deflected from the true meridian as determined by direct solar observation. Distances measured with 50 and 350 foot Chicago Steel Tapes.

REPORT:- The lines of this survey were run direct upon the ground. U.S. Mineral Monument No. 2, Oro Blanco Mining District, is located at the top of a prominent hill. The monument consists of a galvanized iron pipe, 2 inch outside diam., stamped "U.S.M.M.No.2 - O.B.D.", and extending 6 feet above the top of a stone monument 5 feet high and 8 feet in diam. across the top.

Corner No. 3, P & B Lode, Survey No. 3042, is a 1" iron pipe 4 feet above ground, surrounded by monument of stones. Square Brass cap on pipe marked "U.S. Mineral Survey No. 3042, 3 P & B."

Paul E. Fernald U.S. Mineral Surveyor.

Tucson, Arizona. ~~June 14th. 1924.~~

U.S. MINERAL SURVEY NO. 3935.

CALCULATION DIRECT SOLAR OBSERVATION, Monday, June 2nd, 1924.

Base, random line. Latitude N 31°25'48".

Direct. (l.l.) R 164°40'. A 37°57½' (- 1'15"). 4.14 P.M.

Reverse. (u.r.) R 164°46'. A 37° 8' (- 1'15"). 4.20 P.M.

Declination (U.S. Nautical Almanac) N 22° 14.9'

Solution by Logarithms.

Direct:- Cos. Q = + $\frac{\text{Sin. } 22^{\circ}14.9'}{\text{Cos. } 31^{\circ}25'48''}$ 9.578205 ✓
 9.931090 ✓
 9.647115 ✓
 $\frac{\text{Cos. } 37^{\circ}56'15''}{9.750213}$ ✓ + .56262 ✓

- tan. 31°25'48" 9.786127 ✓
 tan. 37°56'15" 9.891833 ✓
 9.677960 ✓ - .47639 ✓
 + .08623 ✓

Cos. 85°3'12" ✓
 164°40'
 249°43'12" ✓
 180°
 S 69°43'12"E. ✓

Reverse:- Cos. 37° 6'45" ✓ 9.647115 ✓
 9.901705 ✓
 9.745410 ✓ + .55643 ✓

Tan. 37° 6'45" ✓ 9.786127 ✓
 9.878887 ✓
 9.665014 ✓ - .46240 ✓
 + .09403 ✓

Cos. 84°36'17" ✓
 164°46'
 249°22'17" ✓
 180°
 S 69°22'17"E. ✓

Average Direct and Reverse:- S 69°32'45"E. ✓

Use S 69°33'E.

FINAL OATHS FOR SURVEYS.

LIST OF NAMES.

A list of the names of the individuals employed by Paul E. Fernald
 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 _____
 _____ James E. Barney _____
 known as the RED CROSS lode _____
 and showing the respective capacities in which they acted.

_____ Albert Rowden _____, *Chainman.*
 _____, *Chainman.*
 _____, *Acman.*
 _____, *Flagman.*

FINAL OATHS OF ASSISTANTS.

~~WX~~ I, Albert Rowden _____
 and _____, do solemnly swear that ^I ~~we~~ assisted Paul E.
Fernald _____, United States Mineral Surveyor, in marking the corners and surveying
 the boundaries of the mining claim of James E. Barney _____

 known as the RED CROSS lode _____
 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 ^{my} ~~our~~ knowledge and belief, faithfully
 and correctly executed, and the corner and boundary monuments established according to law and the instruc-
 tions furnished by the United States Surveyor-General for Arizona _____

_____ Albert Rowden _____, *Chainman.* ✓
 _____, *Chainman.*
 _____, *Acman.*
 _____, *Flagman*

Subscribed and sworn to by the above-named persons before me this 12th _____

day of June _____, 19 27

*My Commission expires
 November 30th 1927*

Notary Public

FINAL OATH OF U. S. MINERAL SURVEYOR.

I, Paul E. Fernald, U. S. Mineral Surveyor, do solemnly swear that, in pursuance of instructions received from the United States Surveyor General for Arizona, dated March 12th. 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 James E. Barney, known as the RED CROSS lode, situate in Oro Blanco Mining District, Santa Cruz County, Arizona, in Section 18, Township No. 23 S., Range No. 11 E., (Unsvd). G. & S.R.B. & M. and designated as Survey No. 3935, 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.

Paul E. Fernald, U. S. Mineral Surveyor.

Subscribed and sworn to by the said Paul E. Fernald U. S. Mineral Surveyor, before me O. T. Richey a Notary Public this 12th day of June, 1924

O. T. Richey Notary Public

My Commission expires November 30th 1927

(4-688.)

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

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

Phoenix, Arizona,

September 30, 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

James E. Barney

, known as the RED CROSS lode

, situate in Oro Blanco

Mining District, Santa Cruz County,

Arizona, in Section 18, Township No. 23 S,

Range No. 11 E., Unsur., and designated as Survey

No. 3935, 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 by claimant or his grantors, and

that said improvements consist of 3 cut and tunnels and 1 shaft, total

value \$4345.

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.

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,

September 30, 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

James E. Barney

, known as the

RED CROSS lode

situate in Oro Blanco mining district,

Santa Cruz County, Arizona

in Section 18, Township No. 23 S., Range No. 11 E., Unsur.
G. & S.R.B. & M.

, designated as Survey No. 3935

executed by Paul E. Fernald, U. S. Mineral

Surveyor, June 1 - 3, 1924, under my instructions dated

March 12, 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. Donohoe

U. S. Surveyor General for Arizona.