

MINERAL SURVEY No. 4161

Arizona.

Land District

FIELD NOTES

OF THE SURVEY OF THE MINING CLAIM OF

Mrs. John Maloney

KNOWN AS THE

Pittsburg.

Oro Blanco

Mining District,

Santa Cruz

County,

Arizona.

Section s 18 and 19, Township 23 S., Range 11 E. G.&S.R.M

Surveyed under instructions dated March 21, 19 33.

By

[Handwritten signature]

U. S. Mineral Surveyor.

Claim located See location notice, 19

Survey commenced March 23, 19 33.

Survey completed March 27, 19 33.

Address of claimant Mrs. John Maloney, Tucson, Arizona
1416 East Mable Street

DATES OF AMENDED LOCATIONS

See Amended location notice.

Feet

MINERAL SURVEY NO 4161

Mineral survey No.4161 was made with a Gurley mountain transit with horizontal limb 6.5 ins. diam. having two opposite verniers and full vertical circle, 5 ins. diam. having one double vernier, 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. An AM altitude observation for azimuth and at noon on the meridian for latitude and time were made at a corner of the survey, the details of which observations are shown in the calculation sheets herewith submitted for examination.

All azimuths in this record are referred to the true meridian, by the method of deflection angles, and calculated courses.

The lines were measured with a Lufkin steel tape, 500 ft. in length graduated every foot, with the first and last foot graduations to tenths and hundredths.

The tape was correct at the time of the survey. All lines and connections of this survey were run directly upon the ground,

The magnetic variation observed at each corner gave a uniform value of 13°45'.E.

Pittsburg lode.

Beginning at cor. No.1 of the Pittsburg lode, identical with the Loc. Mon. and Cor. No.3, Sur. No.245 Warsaw lode, claimant unknown, where I- Set an iron pipe 2 ins. diam. with cap on top, 24 ins. above ground, set 18 ins. in the ground, and surrounded with md of stone, stamped 1 P-4161, 3 W. 245; from which the 1/4 Cor. bet. Secs 18 and 19 T. 23 S., R. 11 E. brs. S. 69°36'E. 296.14 ft.dist.

No other bearings are available.

Thence N. 58°51'W.

300.00

To N. end center, identical with the the Loc. Mon. and the N. end center Sur. No.245 Warsaw lode.

An iron pipe 3/4 ins. diam. driven in the center of an old monument and showing 3 1/2 ft. above ground , surrounded with md of stone,

Feet

MINERAL SURVEY NO. 4161
PITTSBURG lode.

mkd N. Cr. W., and N. Cr. P.

- 349.0 Top of retaining wall 10 ft. high.
- 440.0 Leaves retaining wall
- 600.00 To Cor. No.2, identical with Loc. Mon. and Cor. No.5, Sur. No.245

Warsaw lode,

Where I- Set an iron pipe 2 ins. diam. with cap on top, 24 ins. above ground, set 18 ins in the ground, in the center of an old monument, and surrounded with md of stone, stamped 2 P- 4161, 5 W- 245; from which the chimney of an old smelter in ruins brs. S.67°51'E., 247 ft. dist.

No other bearings are available.

Thence S.31°09'W.

- 73.00 To Cor. No.3, Sur. No.345 Normand lode, Claimant unknown.
- 241.00 Old road brs. northeasterly.
- 1363.72 Intersect line 5-3, Sur. No.346, Franco American lode at S.6°32'20" E., 10.46 ft. from Cor. No.5
- 1491.70 To Cor. No.6, Sur. No. 245 Warsaw lode
- 1500.00 To Cor. No.3, identical with Loc. Mon.

Where I- Set and iron pipe 2 ins. diam. with cap on top, 24 ins. above ground, set 18 ins. in the ground and surrounded with md of stone, stamped 3 P - 4161; from which U.S.M.M. No.2 brs. S.5°25'E, 785.55 ft. dist.

Cor. No.4, Sur. No.345 Norman lode brs. S.31°09'W., 56.7 ft.

Cor. No.5, Sur. No.346 Franco American lode brs.N.28°37'E., 144.7 ft.

Cor. No.3, Sur. No.346 Franco American lode brs.S.16°21'E., 488.9 ft.

An oak tree 8 ins. diam. brs. S.4°36'W., 69.8 ft. Blazed and scribed 3-4161 BT.

No other bearings are available.

Thence S.58°51'E

- 105.29 Intersect line 3-5 Sur. No.346 Franco American lode at S. 6°32'20"E., 182.68 ft. from Cor. No. 5.

See Supplemental Field Notes herein for line 2-3

Feet.

MINERAL SURVEY NO. 4161
PITTSBURG lode.

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

An iron pipe 3/4 ins. diam. driven firmly in the ground and showing 3 1/2 ft. above ground, surrounded with md of stone and mkd S. Cr. P. , whence Cor. No.1, Sur. No.245 Warsaw lode brs. N.88°09'E., 22 ft. dist.

600.00 To Cor. No.4, identical with loc. Mon. where 1-

Set an iron pipe 2 ins. diam. with cap on top, 24 ins. above ground, set 18 ins. in the ground and surrounded with md of stone, stamped 4 P -4161 .

Cor. No.2 Sur. No. 245 Warsaw lode brs. S. 58°51'E., 8 ft. dist.

No other bearings are available.

Thence N. 31°09'E.

0.33 Intersect line 1-2; Sur.No.245 Warsaw lode at N.56°28'50"W., 8.01 ft. from Cor. No.2 and S.56°28'50"E., 281.77 ft. from Cor. No.1

1165.00 Road brs. southeasterly.

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

LODE LINES.

The presumed course of the vein of the location embraced in this survey, counted from its discovery is as follows:

N.31°09'E., 650.0 ft. and 850.0 ft. S.31°09'W.,

AREA.

Acres.

Total area; Pittsburg lode ----- 20.661

Area in conflict with-

Sur. No.245 Warsaw lode ----- 20.547

Sur. No.245 Warsaw lode, exclusive of its conflict with Sur. No.346 Franco American lode ----- 20.403

Sur. No. 346 Franco American lode ----- 0.165

LOCATION.

This survey is located in the N.W. 1/4 Sec. 19 and the S.W. 1/4 Sec. 18, T. 23S., R. 11 E., G.& S. R. M. in the Coronado National forest.

See Suppl. Field Notes herein for Areas.

MINERAL SURVEY NO. 4161
PITTSBURG LODE.

EXPENDITURE OF \$500.00

I certify that the value of the labor and improvements made upon or for the lode location embraced in said mining claim, by the claimant or her grantors is not less than \$500.0 and that said improvements consist of:

No.1 The discovery shaft, the center of which being the discovery point is on the center line 650 ft. from the center of line 1-2, 5 x 7 ft. 250 ft. deep (timbered)

Value \$5000.00

No.2 A tunnel, the mouth of which brs. from Cor. No.2 S.20°15'W., 550.0 ft. 4 x 6 ft. running S.34°E., 50 ft. to point, thence S.18°15'E., 150 ft. and connecting with old workings but inaccessible.

Value \$2000.00

OTHER IMPROVEMENTS.

A deep shaft, the center of which brs. from Cor. No.2 S.10°W., 710 ft. 5 x 7 ft. depth unknown.

A tunnel, the mouth of which brs. from Cor. No.1 N.84°15'W., 370.0 ft. 4 x 6 ft. running S.30°W., 30 ft.

A cut, the mouth of which brs. from Cor. No.1, S.89°W. 400 ft. 4 1/2 ft. wide 8 ft. face running west 15 ft. to face.

A tunnel, the mouth of which brs. from Cor. No.1, S.86°15'W., 300 ft. 4 x 6 ft. running west 50 ft. to face.

A shaft, the center of which brs. from Cor. No.1, S.80°W., 145 ft. 4 x 6 ft. 50 ft. deep.

A tunnel, the mouth of which brs. from Cor. No.1 S.69°W., 400 ft. 4 x 6 ft. running N.60°W., 50 ft. to face.

A shaft, the center of which brs. from Cor. No.3, N.72°E., 330 ft. 4 x 15 ft. 8 ft. deep.

A shaft, the center of which brs. from Cor. No.3 N.83°39'E., 260.0 ft. 4 x 6 ft. 15 ft. deep.

A shaft, the center of which brs. from Cor. No.4 N.1°20'W., 166.0 ft. 4 x 6 ft. 400 ft. deep (caved)

A shaft the center of which brs. from Cor. No.4 N.1°20'W., 201 ft. 4 x 6 ft. depth unknown, but connects with the above 400 ft. shaft.

A tunnel, the mouth of which brs. from Cor. No.4 N.60°W. 75 ft. running N.31°E., 140 ft. to 400 ft. shaft. (stopped to surface)

A tunnel, the mouth of which brs. from Cor. No.4, N.31°E. 65 ft. 4 x 6 ft. running N.36°30'W., 50 ft. to point, thence N.13°W., 55 ft. connecting with 400 ft. shaft.

MINERAL SURVEY No.4161
PITTSBURG lode.

OTHER CORNER DESCRIPTIONS.

Sur. No.245 Warsaw lode, Sur. No.345 Normand lode, Sur. No.346 Franco American lode, all that remains now of the corners of these claims are old monuments with their posts rotted away. Their identities were established from their relative positions from U.S.M.M. No.2 and topographic features.

U.S.M.M. No.2 consists of a stone monument 4 1/2 ft. high with 8 ft. base and 5 ft. on top. In the center of monument is a 1 inch galvanized pipe, showing 8 ft. above the top of monument. There are no markings on the pipe.

The 1/4 Cor. bet. Secs. 18 and 19, T.23 S., R.11 E. is a standard G.L.O. iron post, stamped 1/4 S.18, S.19.

Sur. No.245 Warsaw lode, lines 6-1 and 1-2 shown in the record to be S.59°10'E. and each 300 ft. long. I find line 6-1 to be S.59°30'50"E., 318.47 ft. and line 1-2 to be S.56°28'50"E. 289.78 ft.

Line 2-3 I find to be correct as approved, N.30°50'E., 1500 ft.

Line 3-5 is N.58°51'W., instead of N.59°10'W., as shown in the record and line 5-6 is S.31°09'W., 1491.7 ft. instead of S.30°50'W., 1500 ft. as approved.

Sur. No.345 Normand lode. I find line 3-4 to be S.31°09'W., 1483.7 ft. instead of S.30°50'W., 1494.0 ft. as approved.

Sur. No.346 Franco American lode. I find line 3-5 to be N.6°32'20"W. instead of N.6°30'W., as approved.

The location notice of the Pittsburg lode states it is about 650 feet in a SOUTHERLY direction from U.S. M.M. No.2. This is a ~~typographical error~~ and should read NORTHERLY as the notice further states that the West side line of the claim joins the east side line of the Normand patented mine.

ADJOINING CLAIMS.

On the North by Pittsburg No.2 unsurveyed, claimant herein,

On the West by Sur. No.345 Normand lode and Sur. No.346 Franco-American lode.

On the South by Sur. No.345 Franco American lode, and Rita lode, unsurveyed, R.Sheehy, claimant.

On the East by Pittsburg No.1, unsurveyed, claimant herein.

OATH OF ASSISTANT.

There being no Notary Public available within long distance I proceeded to administer the necessary oath of assistant.

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MINERAL SURVEY NO.4161
PITTSBURG Lode.

MERIDIAN OBSERVATION FOR TIME AND LATITUDE.

Sunday March 26, 1933 in approx Lat 31°27' - Lon. 111.16

Setting -- 90°
 ϕ (-) --- 31°27'
 δ (+) --- 2°15' 43.8"
 v ----- 60°48' 43.8"

Position of telescope, Position of sun, watch time, Observed Ver. Ang

Direct	:	ϕ	:	11h59m	:	60°38'
Reversed	:	ϕ	:	12h 01m	:	61°00'
		Mean		12h 00m		60°49'

Refraction ----- - 32.4"
 Parallax ----- + 4.2"
 ----- 60°48'31.8"

$\delta = 2°15'43.8''$
 $\phi = 90° + \delta - h = 92°15'43.8''$
 $\phi = \frac{60°48'31.8''}{31°27'12''}$

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Watch time of apparent noon -----	12h 00m 00s
Apparent noon -----	12 00m 00s
Equation of time -----	5m 50.28
Local mean time of apparent noon -----	11h54m 10s
Watch fast of local mean time -----	5m 50s
-----	000

SOLAR OBSERVATION FOR AZIMUTH.

Taken Friday March 24, 1933 at 8:05 AM Solar time. Sun bisected
 Lat. 31°27'12" -- Lon 111°16' -- Difference in time 3 h 30 m
 Apparent dec'l - 1°21' 16.7"

Dec'l - 1°24' 45"
 $90° - \text{Dec}'l = 88°35'17'' = P$
 $\sin \frac{1}{2} A = \sqrt{\frac{\sin(S-L)(S-h)}{\cos L \cos h}}$

L = 31°27'12"
 h = 24°20'53" - App't h = 24°23', Ref. = 2.7"
 P = 88°35'17"
 2) 144 23 22
 72 11 41 - S

S-L = 40°44'29" 9.8146777
 S-h = 47°50'48" 9.8700242
 0.0690177
 0.0404542
 2) 19.7941738
 9.8970869 = 52°05'30"

104°11' = Azimuth of Sun.
 73°02' Ang to left from Sun.
 N.31°09'E Bearing of line 2-3

Set up at Cor. No.3, TS 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

Mrs. John Maloney

known as the Pittsburg

and showing the respective capacities in which they acted.

Edwin A. Stone, Chainman.

Chainman.

Acman.

Flagman.

FINAL OATHS OF ASSISTANTS

~~By~~ I, Edwin A. Stone

I

~~do~~ do solemnly swear that ~~we~~ assisted

T.N. Stevens

, United States Mineral Surveyor, in marking the corners and surveying

the boundaries of the mining claim of Mrs. John Maloney

known as the PITTSBURG 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 Office Cadastral Engineer, at Phoenix, Arizona.

Edwin A. Stone, Chainman.

Chainman.

Acman.

Flagman

Subscribed and sworn to by the above-named persons before me this 27th

day of March, 1933

T.N. Stevens

U.S. Mineral Surveyor

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 Office Cadastral Engineer, at Phoenix, Arizona, dated March 21, 1933, I have, in strict conformity to the laws of the United States, the official regulations and instructions thereunder, and the instructions of said Office Cadastral Engineer, faithfully and correctly executed the survey of the Mining Claim of Mrs. John Maloney, known as the PITTSBURG, situate in Oro Blanco Mining District, Santa Cruz County, Arizona, in Section^s 18, and 19, Township No. 23 S., Range No. 11 E., and designated as Survey No. 4161, 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 Office Cadastral Engineer with said instructions, and that all 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 her 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 Tom. K. Richey, Notary
Public, Pima County, Arizona this 15th
 day of April, 1933.

my Commission Expires
Jan. 30 - 1934.

Tom K Richey
 Notary Public.

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**CERTIFICATE OF APPROVAL OF FIELD NOTES AND SURVEY OF
MINING CLAIM**

**DEPARTMENT OF THE INTERIOR
PUBLIC SURVEY OFFICE**

At Phoenix Arizona

April 27, 1933.

Acting
I, Office Cadastral Engineer at Phoenix Arizona

do hereby certify that the foregoing and hereto attached Field Notes and Return of the Survey of the
Mining Claim of Mrs. John Maloney, widow of John Maloney, locator

....., known as the

PITTSBURG lode

situate in Oro Blanco mining district,

Santa Cruz County, Arizona

in Sections 18 and 19, Township No. 23 South, Range No. 11 East

G. & S. R. M., designated as Survey No. 4161

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

Surveyor, March 23 - 27, 1933, under my instructions dated

March 21, 1933, 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.

Sherman C. Fiske
Sherman C. Fiske

OFFICE CADASTRAL ENGINEER'S FINAL CERTIFICATE ON FIELD NOTES

Department of the Interior

PUBLIC SURVEY OFFICE

Phoenix, Arizona

April 27, 1933

Acting I, Office Cadastral Engineer at Phoenix, Arizona

do hereby certify that the foregoing transcript of the Field Notes, return and approval of the survey of the mining claim of Mrs. John Maloney, widow of John Maloney, locator

known as the PITTSBURG lode

situate in Oro Blanco

Mining District Santa Cruz County Arizona

in Sections 18 & 19, Township No. 23 South, Range No. 11 East, G. & S. R. M., and designated as Survey No. 4161

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.

I further certify that Five Hundred Dollars worth of labor has been expended or improvements made upon, or for the benefit of, each location embraced in said mining claim by claimant Mrs. John Maloney or her grantors,

and that said improvements consist of one shaft (discovery shaft) 250 ft. deep (timbered) 5 x 7 ft., Value \$5000.00 and

one tunnel, 4 x 6 ft., 200 ft. long, Value \$2000.00

Total value of above shaft and tunnel \$7000.00

Other improvements, value not appraised, consist of

six shafts, one cut, and five tunnels

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.

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MINERAL SURVEY No. 4161Arizona Land DistrictSUPPLEMENTAL**FIELD NOTES**

OF THE SURVEY OF THE MINING CLAIM OF

Mrs. John Maloney

KNOWN AS THE

PittsburgOro Blanco Mining District,Santa Cruz County, ArizonaSection s. 18 and 19, Township 23 S., Range 11 E., G. & S.R.M.Surveyed under instructions dated March 21, 1933By T.N. Stevens
U. S. Mineral Surveyor.Claim located See location notice, 1933Survey commenced March 23, 1933Survey completed March 27, 1933Address of claimant Mrs. John Maloney, Tucson, Arizona
1416 East Mable Street

DATES OF AMENDED LOCATIONS

See Amended location notice.

SUPPLEMENTAL FIELD NOTES

MINERAL SURVEY No. 4161

PITTSBURG lode

Feet	
	From Cor. No. 2 identical with Loc. Mon. and Cor. No. 5, Sur. No. 245 Warsaw lode, Thence S. 31° 09' W.
73.00	To Cor. No. 3, Sur. No. 345 Normand lode, Claimant un- known.
241.00	Old road brs. northeasterly.
1363.72	Intersect line 4-5, Sur. No. 346, Franco American lode at S. 6° 32' 20" E., 10.46 ft. from Cor. No. 5
1491.70	To Cor. No. 6, Sur. No. 245 Warsaw lode.
1500.00	To Cor. No. 3, identical with Loc. Mon. Where I set an iron pipe 2 ins. diam. with cap on top, 24 ins. above ground, set 18 ins. in the ground and surrounded with md. of stone, stamped 3 P-4161; from which U.S.M.M. No. 2 brs. S. 5° 25' E., 785.55 ft. dist.

Cor. No. 4, Sur. No. 345 Normand lode brs. S. 31° 09'
W., 56.7 ft.

Cor. No. 5, Sur. No. 346, Franco American lode brs.
N. 28° 37' E., 144.7 ft.

Cor. No. 3, Sur. No. 346 Franco American lode brs.
S. 16° 21' E., 488.9 ft.

An oak tree 8 ins. diam. brs. S. 4° 36' W., 69.8 ft.
Blazed and scribed 3-4161 BT

No other bearings are available.

AREA.

	Acres.
Total area, Pittsburg lode - - - - -	20.661
Area in conflict with -	
TRACT A hereinafter described - - - - -	0.144
Sur. No. 245 Warsaw lode, - - - - -	20.547
Sur. No. 245 Warsaw lode, exclusive of its con- flict with TRACT A - - - - -	20.403
Sur. No. 346 Franco American lode - - - - -	0.165
Sur. No. 346 Franco American lode, exclusive of its conflict with TRACT A - - - - -	0.021

TRACT A

That portion of Sur. No. 346 Franco American lode in
conflict with Pittsburg lode this survey, excluded by
said Franco American lode in favor of Sur. No. 245,
Warsaw lode, now abandoned, is bounded and described as

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SUPPLEMENTAL

**CERTIFICATE OF APPROVAL OF [^]FIELD NOTES ~~AND SURVEY~~ OF
MINING CLAIM**

UNITED STATES
DEPARTMENT OF THE INTERIOR
GENERAL LAND OFFICE
PUBLIC SURVEY OFFICE

At Phoenix, Arizona

September 17, 1934

Acting
I, [^]Office Cadastral Engineer at Phoenix, Arizona

do hereby certify that the foregoing and hereto attached [^]Supplemental Field Notes ~~and Return~~ of the Survey of the Mining Claim of Mrs. John Maloney, widow of John Maloney, locator, has been prepared in compliance with instructions from the Commissioner of the General Land Office dated August 24, 1934 (Phoenix 073714 "N" NFS) and that said Supplemental Field Notes of the Pittsburg lode situate in Oro Blanco mining district,

Santa Cruz County, Arizona

in Sections 18 and 19, Township No. 23 South, Range No. 11 East
G. & S.R.M., designated as Survey No. 4161

executed by T.N. Stevens, U. S. Mineral Surveyor, March 23-27, 19 33 under my instructions dated

March 21, 19 33 have been critically examined and the necessary [^]Supplemental 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.

[Handwritten signature]