

MINERAL SURVEY No. 4160

CORONADO NATIONAL FOREST

ARIZONA Land District

FIELD NOTES

OF THE SURVEY OF THE MINING CLAIM OF

SEVERIANO CASTRO

KNOWN AS THE

OLD HAT and MADRUGADA lodes

OLD HAT Mining District,

PINAL County, ARIZONA

Section 16, Township 10 South, Range 16 East

Surveyed under instructions dated October 3, 1932

By Emmet R. Marx U. S. Mineral Surveyor.

Claims located January 5, 1938

Survey commenced October 11, 1932

Survey completed October 16, 1932

Address of claimant care of Clifford R. McFall, Attorney, Consolidated National Bank Bldg. Tucson, Arizona.

DATES OF AMENDED LOCATIONS

None

Feet

SURVEY NO. 4160

Mineral Survey No. 4160 was made with a Young and Sons Mountain Transit No. 6855, with a Smith Solar Attachment. The horizontal limb of the transit is 6 ins. in diameter and has two verniers reading to one minute of arc. It has a vertical arc of 60° with one vernier reading to one minute. The instrument was in good condition at the time of the survey and all adjustments were in good order. The meridian was determined by an observation on Polaris at Eastern Elongation at Corner No. 2 of the Old Hat Lode, the details of which observation are shown in the calculation sheets herewith submitted for examination. All azimuths in this record are referred to the true meridian thus determined, by the method of deflection angles and calculated courses.

The lines were measured with a Keuffel and Esser flat wire tape No. 7610, 500 feet in length, graduated every foot, the foot at either end being graduated to tenths; and with a Keuffel and Esser 50 ft. steel tape graduated to hundredths throughout. Both tapes were less than one year old and were unbroken and unrepaired.

All lines and connections of this survey were run by direct methods.

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OLD HAT LODE.

Beginning at Cor. No. 1 of the Old Hat Lode, where I -  
Set an iron pipe, with brass cap, for Cor. No. 1, mkd. x  
O.H. 1 4160; from which

The  $\frac{1}{4}$  sec. cor. of secs. 16 and 21, T. 10 S., R. 16 E.,  
G. & S.R. B. & M., bears S. 17° 33' W., 1341.0 ft. dist.; a  
limestone 6x8x14 ins. above ground, firmly set, marked  
and witnessed as described in the official record.

An oak tree, 8 ins. diam., bears N. 49° 42' E., 177.9 ft.  
dist., mkd. x OH 1-4160 BT

Apache Peak, bears S. 70° 25' W.

Rice Peak, bears S. 32° 56' W.

North edge of flat top of Table Mt., bears N. 35° 59' E.

A corner of the location bears S. 85° 43' W., 101.1 ft.  
dist.

Magnetic variation was 15° 10' E.

Thence N. 89° 20' E.

175.6 A corner of the location, on ridge bearing N. and S.

309.0 Set an iron pipe, with brass cap, for the center of  
South end line, mkd. x S.E.C. O.H. 4160 .

313.0 A small ravine, course North.

446.0 Cor. No. 2

Set an iron pipe, with brass cap, for Cor. No. 2, mkd. x  
O.H. 2 M. 1 4160; in a position identical with that of  
a corner of the location; from which

The  $\frac{1}{4}$  sec. cor. of secs. 16 and 21, T. 10 S., R. 16 E.,  
G. & S.R. B. & M., bears S. 33° 31' W., 1539.8 ft. dist.

A granite rock in place, 15x24 ins., 17 ins. above the  
ground, bears N. 21° 35' E., 65.2 ft. dist., mkd. x BR OH  
2 4160

- Feet An oak tree, 14 ins.diam., bears N.59°02'W., 109.7 ft. dist., mkd. x OH 2 4160 BT  
The lookout tower on Mt. Bigelow, bears S.0°59'W.  
Bassett Peak, bears S.81°56'E.  
The magnetic variation was 14°35'E.  
Thence N.14°37'W.
- 384.0 Center of road, in an arroya 20 ft.wide, course N.50°E., known as Bonito Wash.
- 1132.0 Ridge, bears E. and W.
- 1444.6 Cor. No.3  
Identical in position with a corner of the location.  
Set an iron pipe, with brass cap, for Cor.No.3, mkd. x O.H. 3 M.5 4160 ; from which  
an oak tree, 6 ins.diam., bears S.50°05'E., 35.2 ft. dist., mkd. x OH 3 4160 BT  
an oak tree, 8 ins.diam., bears S.87°40'W., 87.3 ft. dist., mkd. x OH 3 4160 BT  
Holy Joe Peak, bears N.31°45'E.  
The magnetic variation was 14°00'E.  
Thence S.89°20'W.
- 137.0 Set an iron pipe, with brass cap, for center of North end line, mkd. x N.E.C. O.H. 4160 ; from which  
A corner of the location bears N.72°01'W., 162.5 ft. dist.
- 446.0 Cor. No.4  
Set an iron pipe, with brass cap, for Cor.No.4, mkd. x O.H. 4 4160 ; from which  
A granite rock, 12x18 ins., 15 ins.above the ground, bears S.34°26'W., 47.2 ft.dist., mkd. x OH4 4160 BR  
The lookout tower on Mt. Bigelow, bears S.0°10'W.  
A corner of the location, bears N.54°W., 176.0 ft.dist.  
The magnetic variation was 14°11'E.  
Thence S.14°37'E.
- 850.0 Center of an arroya, 20 ft.wide, course S.55°E., known as Bonito Wash.
- 1444.6 Cor. No.1, and place of beginning.

MADRUGADA LODE.

Beginning at Cor.No.1 of the Madrugada Lode, which is identical with Cor.No.2 of the Old Hat Lode, and agrees with a corner of the location.  
Thence S.85°43'E.

Feet  
166.0 Cor. No. 2  
Set an iron pipe, with brass cap, for Cor.No.2, mkd. x M.2 4160 ; from which

A mesquite tree, 7 ins.diam., bears N.35°07'E., 42.4 ft. dist., mkd. x M2 4160 BT

A corner of the location, bears S.63°29'E., 60.7 ft. dist.

The magnetic variation was 14°14'E.

Thence N.85°59'E.

12.0 A small ravine, 2 ft. wide, course Northeast.

305.0 Cor. No. 3  
Set an iron pipe, with brass cap, for Cor.No.3, mkd. x M.3 4160 ; from which

A live mesquite stump, 14 ins.diam., bears N.49°05'E., 9.6 ft. dist., mkd. x M3 4160 BT

A mesquite tree, 12 ins.diam., bears S.58°57'W., 59.1 ft. dist., mkd. x M3 4160 BT

A corner of the location, bears N.79°16'E., 37.4 ft. dist.

The magnetic variation was 14°33'E.

Thence N.44°37'W.

337.0 Center of road, in an arroyo 20 ft.wide, course N.30°E., known as Bonito Wash.

1398.0 Cor. No. 4  
Set an iron pipe, with brass cap, for Cor.No.4, mkd. x M.4 4160 ; from which

an oak tree, 6 ins. diam., bears S.66°07'W., 116.0 ft. dist., mkd. x M4 4160 BT

The  $\frac{1}{4}$  sec.cor. of secs.15 and 16, T.10 S., R.16 E., G. & S.R. B. & M. bears S.89°45'E., 1670.7 ft. dist., a porphyry stone 6x12x24 ins. above ground, firmly set, marked as described in the official record.

North edge of flat top of Table Mt., bears N.36°09 $\frac{1}{2}$ 'E.

A corner of the location, bears N.70°31'E., 118.7 ft. dist.

The magnetic variation was 14°23'E.

Thence N.85°43'W.

317.0 Set an iron pipe, with brass cap, for the center of the North end line of the Madrugada Lode, mkd. x N.E.C. M 4160 ; from which

A corner of the location, bears N.89°25'E., 132.3 ft. dist.

483.0 Cor. No.5, which is identical with Cor.No.3 of the Old Hat Lode of this survey, and agrees with a corner of the location.

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Feet  
 Thence S.14°37'E.  
 312.6 Ridge, bears E. and W.  
 1060.6 Center of road, in an arroya 20 ft.wide, course N.50°E.,  
 known as Bonito Wash.  
 1444.6 Cor. No.1, and place of beginning.

LODE LINES.

The presumed course of the vein of each of the two lode locations embraced in this survey, counted from the respective points of discovery, is as follows:

Old Hat Lode, S.14°37'E., 889.6 ft., and N.14°37'W., 555 ft.  
 Madrugada Lode, S.14°37'E., 643 ft., and N.14°37'W., 801.6 ft

AREAS

Total Area of Old Hat Lode	14.355 Acres.
Total Area of Madrugada Lode	14.992 "
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Total Area of Mineral Survey No.4160	29.347 Acres.

LOCATION

This survey is located in the East half of section 16, Township 10 South, Range 16 East, C.& S.R. B.& M., Ariz., which section is entirely within the Coronado National Forest. The subdivision lines bounding said section were surveyed in 1904 as shown upon the plat of said township approved Oct. 10, 1905.

EXPENDITURE OF \$500

I certify that the value of the labor and improvements made upon or for the benefit of each of the lode locations embraced in said mining claim, by the claimant is not less than \$500, and that said improvements consist of:

on OLD HAT LODE

- No.1 The discovery shaft of the Old Hat Lode, the center of which is on the lode line 555 ft. from the North End Center Cor.; 6x10 ft., 4 ft. deep.  
Value, \$25
- No.2 A shaft, the center of which is on the lode line 540 ft. from the North End Center Cor.; 6x8 ft., 12 ft. deep.  
Value, \$75
- No.3 A shaft, the center of which bears S.2°20'E., 562 ft. from Cor.No.3 of the Old Hat Lode; 5x6 ft., 25 ft. deep.  
Value, \$150
- No.4 A shaft, the center of which at the surface bears S.3°30'E. 576 ft. from Cor.No.3 of the Old Hat Lode; 5x6 ft., 38 ft. deep on an incline 30° from the vertical and N.75°23'E. At the bottom is a stope 6x6 ft., 11 ft. high, from which a 4x7 ft. tunnel runs N.14°37'W., 11 ft. and a 4x5 ft. tunnel runs S.14°37'E., 10 ft. At the 30 ft. level a 3x4 ft. tunnel runs N.14°37'W. 8 ft.  
Value, \$400
- No.5 An uncompleted winze, the center of which bears S.10°22'E. 567 ft. from Cor.No.3 of the Old Hat Lode; 5x8 ft., 11 ft. deep.  
Value, \$35
- No.6 A shaft, the center of which bears S.3°32'E., 495 ft. from Cor.No.3 of the Old Hat Lode; 10x10 ft., 5 ft. deep.  
Value, \$30
- No.7 A shaft, the center of which bears S.4°42'W. 494 ft. from Cor.No.3 of the Old Hat Lode; 9x9 ft., 8 ft. deep.  
Value, \$70
- No.8 A shaft, the center of which bears S.8°15'W. 412 ft. from Cor.No.3 of the Old Hat Lode; 8x8 ft., 4 ft. deep.  
Value, \$25
- No.9 A shaft, the center of which bears S.23°55'W. 268 ft. from Cor.No.3 of the Old Hat Lode; 4x8 ft., 5 ft. deep.  
Value, \$20
- No.10 A shaft, the center of which bears N.86°40'E. 170 ft. from Cor.No.1 of the Old Hat Lode; 6x6 ft., 15 ft. deep.  
Value, \$75
- No.11 A cut, 6 ft. wide, the face of which is on the South end line 182 ft. from Cor.No.1 of the Old Hat Lode; runs northeast 15 ft. to 10 ft. face.  
Value, \$25
- No.12 A shaft, the center of which bears N.76°30'W. 65 ft. from Cor.No.2 of the Old Hat Lode; 5x6 ft., 6 ft. deep.  
Value, \$20
- No.13 A shaft, the center of which bears N.68°10'W. 68 ft. from Cor.No.2 of the Old Hat Lode; 4x6 ft., 15 ft. deep.  
Value, \$50
- No.14 A shaft, the center of which bears N.59°30'W., 85 ft. from Cor.No.2 of the Old Hat Lode; 5x7 ft., 13 ft. deep.  
Value, \$50

No. 15 on MADRUGADA LODE

No. 1 The discovery shaft of the Madruga Lode, the center of which is on the lode line 643 ft. from Cor.No.2 ; 6x14 ft., 16 ft. deep. At the 13 ft. level a 4x5 ft. tunnel runs N.14°37'W. 8 ft. At the bottom a 4x6 ft. tunnel runs S.14°37'E 30 ft.; also a 4x5 ft. incline dips 35° from the horizontal and runs N.30°W. 14 ft. Value, \$400

No. 2 A shaft, the center of which is on the lode line 736 ft. from Cor.No.2; 4x5 ft. 18 ft. deep, partially timbered. At the bottom a 5x7 ft. tunnel runs N.14°37'W. 27 ft.; and 7 ft. from the breast of this tunnel a 2x4 ft. tunnel runs N.75°E. 8 ft. Also at the bottom of the shaft a 3x4 ft. tunnel runs S.14°37'E. 7 ft. Value, \$250

No. 3 A shaft, the center of which bears N.33°23'E. 173 ft. from Cor.No.1 of the Madruga Lode; 8x8 ft. 6 ft. deep. Value, \$35

No. 4 A shaft, the center of which bears N.45°38'E. 150 ft. from Cor.No.1 of the Madruga Lode; 4x6 ft. 6 ft. deep. Value, \$20

No. 5 A shaft, the center of which bears N.61°10'E. 126 ft. from Cor.No.1 of the Madruga Lode; 3x8 ft. 10 ft. deep. Value, \$30

OTHER IMPROVEMENTS

A shaft, the center of which bears S.87°E. 204 ft. from Cor.No.4 of the Old Hat Lode; 6x8 ft. 4 ft. deep.

A shaft, the center of which bears S.73°15'E. 242 ft. from Cor.No.4 of the Old Hat Lode; 8x10 ft. 5 ft. deep.

A shaft, the center of which bears S.3°55'W. 380 ft. from Cor.No.3 of the Old Hat Lode; 6x8 ft. 10 ft. deep.

A shaft, the center of which bears S.5°17'W. 480 ft. from Cor.No.3 of the Old Hat Lode; 15x15 ft. 4 ft. deep.

A shaft, the center of which is on the lode line of the Old Hat Lode 366 ft. from the North End Center Cor.; 4x6 ft. 13 ft. deep.

Claimant of each unknown.

A frame house under constuction, 50% completed, the southwest corner of which bears N.16°15'E. 348 ft. from Cor.No.1 of the Old Hat Lode; measures 22x25 ft., the long side bearing North.

A well, the center of which bears N.14°30'E. 447 ft. from Cor.No.1 of the Old Hat Lode; 6 ft. diam., uncased, 23 ft. deep, 17 ft. to water level.

Claimant of both, Mr. Lloyd K. Basteen  
P.O.Box 1709, Tucson, Arizona.

A corrugated iron house, the southwest corner of which bears N.2°30'E. 202 ft. from Cor.No.2 of Madruga Lode; 16x16 ft., sides bearing North and East. Claimant herein.

A cased well, the center of which bears N.3°15'E. 269 ft. from Cor.No.2 of Madruga Lode; 3½ ft. diam., 32 ft. deep, 15 ft. to water level. Claimant herein.

MEMORANDUM

The location certificate states that the end lines of the Old Hat are North and South, whereas the survey shows them to be nearly East and West. The locator evidently had his directions mixed due to the inclement weather. However, his statement as to the direction of the claim, namely Southeast and Northwest, is roughly correct; and there can be no question about the ground intended to be covered. The vein shows fairly clearly to be running the approximate direction of the presumed lode line, as is evidenced by the positions of the various workings shown on the map. Furthermore, the location corner monuments were easily traced and there are no other monuments of any description within the bounds of the survey; indicating that no other construction could have been put upon the direction and shape of the claim, and that there is no visible evidence of the possibility of contest.

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ADJOINING CLAIMS.

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There are no adjoining or conflicting claims known.

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# FINAL OATHS FOR SURVEYS

## LIST OF NAMES

A list of the names of the individuals employed by Emmet P. Marx.

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 \_\_\_\_\_

Severiano Castro.

known as the OLD HAW and MADRUCADA lodes.

and showing the respective capacities in which they acted.

Vance G. White. \_\_\_\_\_, Chainman.

\_\_\_\_\_, Chainman.

\_\_\_\_\_, Axman.

\_\_\_\_\_, Flagman.

## FINAL OATHS OF ASSISTANTS

I, Vance G. White.

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

Emmet P. Marx. \_\_\_\_\_, United States Mineral Surveyor, in marking the corners and surveying

the boundaries of the mining claim of Severiano Castro.

known as the OLD HAW and MADRUCADA 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~~ <sup>my</sup> 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.

Vance G. White. \_\_\_\_\_, Chainman.

\_\_\_\_\_, Chainman.

\_\_\_\_\_, Axman.

\_\_\_\_\_, Flagman

Subscribed and sworn to by the above-named persons before me this 24<sup>th</sup>

day of October, 1932



Wm. J. Hall  
Notary Public  
Pima County, Arizona

My Commission Expires 3/12/35

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## FINAL OATH OF U. S. MINERAL SURVEYOR

I, Emmet R. Marx, U. S. Mineral Surveyor, do solemnly swear that, in pursuance of instructions received from the Office Cadastral Engineer, at Phoenix, Arizona, dated October 3, 1932, 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 Severiano Castro, known as the OLD HAT and MADRUGADA lodes, situate in OLD HAT Mining District, Pinal County, Arizona, in Section 16, Township No. 10 South, Range No. 16 East and designated as Survey No. 4160, 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~~ persons 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.

*Emmet R. Marx*

U. S. Mineral Surveyor.

Subscribed and sworn to by the said Emmet R. Marx  
U. S. Mineral Surveyor, before me C. R. McFall, Notary Public, Pima  
County, Arizona, this 27th  
day of October, 1932.

*C. R. McFall*

Notary Public.

My Commission Expires March 12, 1935.

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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

November 2, 1932

I, Acting  
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 \_\_\_\_\_

Severiano Castro

\_\_\_\_\_, known as the

OLD HAT and MADRUCADA lodes

situate in OLD HAT mining district,

Pinal County, Arizona

in Section 16, Township No. 10 South, Range No. 16 East

G. & S.R. M., designated as Survey No. 4160

executed by Emmet R. Marx, U. S. Mineral  
Surveyor, October 11-16, 1932, under my instructions dated

October 3, 1932, 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*

Acting Office Cadastral Engineer.

OFFICE CADASTRAL ENGINEER'S FINAL CERTIFICATE ON FIELD NOTES

Department of the Interior

PUBLIC SURVEY OFFICE

Phoenix, Arizona

November 2, 1932

I, Acting

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 Severiano Castro

known as the OLD HAT and MADRUGADA lodes

situate in OLD HAT

Mining District Pinal County Arizona

in Section 16, Township No. 10 South, Range No. 16 East, G. & S. R. M.

designated as Survey No. 4160, 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 Severiano Castro or his grantors,

and that said improvements consist of 17 shafts

1 cut

8 tunnels

1 incline

1 stope

1 winze

Total value \$1785.00

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.

Sherman C. Fiske

acting

Office Cadastral Engineer.