Form 85 Sheet No. 1 Seed July 1, 1914.)

U. S. DEPARTMENT OF AGRICULTURE

FOREST SERVICE

JUN. 25. 1011

440 444 450

FIELD NOTES

OF

HOMESTEAD ENTRY SURVEY NO. 431

SITUATED IN THE

CROOK

NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

In Section 13 , unsurveyed, Township 2 N. , Range 13 E.

of the

Gila and Salt River Base and Meridian.

State of

ARIZONA

Applicant for listing Pedro Moraga,

Residence

Miami, Arizona

Application No. 187 , dated

June 11

, 1911

List No.

3-1662 , dated December 26

, 1911

Applicant for survey Pedro Moraga,

Residence

Miami, Arizona

H. E. No. 023015 , dated

July 28

, 1913 V

Office Land District

Phoenix, Arizona

Survey executed by Walter G. Turley, Surveyor - Forest Service [Forest Service Title.]

Under special instructions dated

December 2

, 1915 V

Survey commenced

February 21

, 1916

Survey completed

February 21

Under Acts of June 11, 1906 and March 4, 1915

[OVER]

We hereby certify that we assisted

Surveyor - Forest Service

[Forest Service Title.]

Walter G. Turley, in surveying all those

parts or portions of Homestead Entry Survey No. 431 , in the State of Arizona which are represented in the following field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Arizona.

Note: It would have been very expensive and inconvenient to appear before an officer to administer oaths to Assistants; hence, they were taken by the Surveyor.

Charles J. Barcht, Chainman Ferry D. Zewi, Chainman

Subscribed and sworn to before me this tweet

day of

nearch

, 19/6

Surveyor Front Survey

OATH OF SURVEYOR

I, Walter G. Turley,

Surveyor - Forest Service [Forest Service Title.]

do solemnly swear that, in strict conformity with the special instructions of the United States Surveyor General for Arizona, dated December 2, 1915, and the laws of the United States, I have well, faithfully, and truly, in my own proper person, surveyed a tract of land embraced in

of the G. and S. R. B. and meridian, Arizona, and the related retracements and resurveys and section subdivisions, which are represented in the following field notes as having been surveyed by me; and I further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the stated special instructions, and in the specific manner described in the field notes, and that the following are the original field notes of such survey.

Mally 9 Trusley
Surveyor Frank Service Title.]

Subscribed and sworn to before me this

8 1

day of

april , 19/6

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Usie 6 Mayers not any Public

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CROOK NATIONAL FOREST

STATE OF ARIZONA

Chains Applicant for listing, Pedro Moraga; Application No. 187, dated June 11, 1911; List No. 3-1662, dated December 26, 1911; Homestead Entry No. 023015, made in the Phoenix Land Office on July 28, 1913 by Pedro Moraga, whose post office address is Miami, Arizona.

Surveyed under the Acts of June 11, 1906 and March 4,

1915, together with special instructions from the Surveyor General for Arizona, dated December 2, 1915, and

designated as Homestead Entry Survey No. 431.

Situated in what will probably be, when surveyed,

Section 13, T. 2 N., R. 13 E., Gila and Salt River Base

and Meridian, within the Crook National Forest, Arizona.

W. and L. E. Gurley light mountain transit No. 12953,

provided with prism eye piece, stadia wires, vertical

circle and Burt solar attachment. The horizontal limb

of the transit has two double verniers placed opposite

each other and graduated to single minutes of arc,

which is also the graduation upon the verniers of the

latitude and declination arcs.

I test the adjustments of the transit and solar attachment and make necessary corrections.

All distances are horizontal, and were reduced from measurements made directly on the slope with a 500 link steel tape graduated to links and tenths. The slope angles were determined with a clinometer, the vernier of which reads to degrees.

February 21, 1916.

I set up my transit over cor. H-1 of List 3-1662, which

STATE OF ARIZONA

Chains

is a dacite stone 10 x 6 x 10 ins. above ground, marked and witnessed as described by the Forest Service, and, with telescope direct, I observe Polaris in accordance with instructions at 6h. 55m. a.m., l.m.t., and mark the direction thus determined with a tack in a stake set firmly in the ground 5.00 chs. N. of my station, in Lat. 33° 30' 06" N., and Long. 110° 59' 44" W., from special instructions from the Surveyor General. Astron. 1.m.t. obsn., February 20, 1916, 18h. 55.0m. Astron. 1.m.t., U.C.Pol., Feb. 20, 1916, 3h. 30.8m. Hour angle Pol. at obsn., 15h. 24.2m. 23h. 56.1m.

Time argument,

8h. 31.9m.

Azimuth Pol. at obsn., 1° 03' 30" E.

With my transit set up over cor. H-1 of List 3-1662, heretofore described, and with telescope reversed in altitude and azimuth, at 7h. 09m. a.m., 1.m.t., on the same date, I again observe Polaris in accordance with instructions, and mark the direction thus determined with a tack in a stake set firmly in the ground 5.00 chs. N. of my station.

Astron. 1.m.t. obsn., February 20, 1916, 19h. 09.0m. Astron. 1.m.t. U.C. Pol., Feb. 20, 1916, 3h. 30.8m. Hour angle Pol. at obsn., 15h. 38.2m. 23h. 56.lm.

Time argument,

8h. 17.9m.

Azimuth of Pol. at obsn., 1° 06' 12" E.

February 21, 1916.

I turn off 1° 03-1/2', the azimuth of Polaris, to the W. from its direction at 6h. 55m. a.m., 1.m.t., February 21, 1916; and mark the line thus determined with a tack

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Chains

in a stake set firmly in the ground 5.00 chs. N. of my station.

I also turn off 12 06, the azimuth of Polaris, to the W. from its direction at 7h. 09m. a.m., 1.m.t., and mark the line thus determined with a tack in a stake set firmly in the ground 5.00 chs. N. of my station.

This line falls 0° 00' 22" of measured arc to the W. of the line previously established.

set firmly in the ground 5.00 chs. N. of my station; and from the corresponding meridian, all the courses stated in these field notes were deflected and referred by continuous sustained angulation.

Latitude 33° 30' 06" N. and Longitude 110° 59' 44" W., at cor. No. 1, H. E. S. 431, by account from values

stated in the special instructions of the Surveyor

General. It was not practicable to check the latitude

by direct observation upon the sun during the execution

of this survey.

My watch is set for Standard 105th. Meridian time, from which I subtract 24m. 00s. for 1.m.t.

Observed magnetic declination at cor. No. 1, February 21, at 8h. 00m. a.m., 15° 00' E. Mean magnetic declination, 14° 59' E.

There is no public land corner or U. S. Location Monument within two miles of this claim; therefore I establish U. S. L. M. No. 431 H. E. S. in accordance with
instructions. Upon a high ridge approximately 18.00
chs. W. of Pinto Creek, I chisel + at the point and

STATE OF ARIZONA

Chains

USLM No 431 HES upon the NW. face of an embedded porphyry stone 30 x 24 x 15 ins. above ground; and raise a mound of stone 6 ft. base, 4 ft. high, SE. of bas ... cor., from which: ta moreouth at more . Went

A 7 in. cedar bears N. 45° 40' W., 25 lks., blazed and scribed U S L M No 431 H E S + B T. A 15 in. cedar bears N. 21° 00' W., 110 lks., blazed and scribed U S L M No 431 H E S + B T. A 12 in. cedar bears S. 6° 20' E., 122 lks., blazed and scribed U S L M No 431 H E S + B T.

Barnes Peak bears S. 41° 45' E.

Porphyry Mountain bears S. 15° 35' E.

High point bears S. 18° 50' W.

High point bears S. 76° 04' W.

Red Butte bears N. 40° 00' W.

Aztec Peak bears N. 13° 10' E.

Beginning at cor. No. 1.

Identical with cor. H-1 of List 3-1662, which is a dacite stone 10 x 6 x 10 ins. above ground, marked and witnessed as described by the Forest Service. stroy cor. H-1 and its witnesses; and, for cor. No. 1 of this survey, I chisel (+) on a stone 4 x 3 x 2 ins., and deposit it 16 ins. in the ground, over which I set a diorite stone 26 x 12 x 7 ins., 16 ins. in the ground; chiseled (+) at the point and 1 - H E S 431 on the NE. face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high, NE. of cor., from which:

> A 5 in. catclaw bears S. 43° 37' W., 30 lks., blazed and scribed 1 H E S 431 + B T.

A 28 in. juniper bears N. 59° 30' W., 119 lks., blazed and scribed 1 H E S 431 + B T.

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Chains

U. S. L. M. No. 431 H. E. S., heretofore described, bears S. 84° 48' W., 10.18 chs., by direct measurement.

- 8 bas Intog out is

Thence N. 15° 18' W.

Asc. rolling brushy E. slope 10 ft.

13.55 Cease ascending and desc. NW. slope 20 ft.

Arroyo, 60 lks. wide, banks 2 ft. high, course East. 20.30 Asc. E. slope 10 ft.

To cor. No. 2. 39.02

> Identical with cor. H-4 of List 3-1662, which is a dacite stone 10 x 10 x 7 ins. above ground, marked and witnessed as described by the Forest Service. I destroy cor. H-4 and its witnesses; and, for cor. No. 2 of this survey, I chisel (+) on a stone 4 x 4 x 3 ins., and deposit it 14 ins. in the ground, over which I set a diorite stone 24 x 10 x 10 ins., 14 ins. in the ground, chiseled (+) at the point and 2 - H E S 431 'on the SE. face; and raise a mound of stone 2 ft. base. 1-1/2 ft. high, SE. of cor., from which:

A 5 in. mesquit bears S. 25° 06' W., 39 1ks., blazed and scribed 2 H E S 431 + B T.

A 16 in. juniper bears N. 55° 16' E., 26 lks., blazed and scribed 2 H E S 431 + B T.

-H . roo driv facionebl

Thence N. 66° 58' E.

Desc. NE. slope 20 ft.

- 1.01 Fence bears N. and S. Enter cultivated land.
- 2.15 Fence bears N. and S. Leave cultivated land.
 - 2.30 Pinto Creek, 205 lks. wide, banks 2 ft. high, course NNW.
 - 6.32 Pole fence bears N. and S.
 - 8.33 To cor. No. 3.

HOMESTEAD ENTRY SURVEY NO. 431

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Chains

ins.

Identical with cor. H-3 of List No. 3-1662, which is
a 9 in. ash tree marked and witnessed as described by
the Forest Service. I destroy cor. H-3 and its witnesses, and for cor. No. 3 of this survey, I scribe +
at the point and 3 - H E S 431 in a blaze on the S.
side of the same tree; and raise a mound of stone 2 ft.
base, 1-1/2 ft. high S. of cor., from which:

blazed and scribed 3 H E S 431 + B T.

A 9 in. ash bears N. 54° 00' W., 45 lks.,

blazed and scribed 3 H E S 431 + B T.

stroy cor. H-d and its wi

.vevius sidt to

Thence S. 14° 56' E.

Over bottom in grove of ash.

- NW. slope 20 ft.
- 14.10 Cease ascending and desc. S. slope 5 ft.
- 17.40 Arroyo, 30 lks. wide, banks 2 ft. high, course WSW.

 Asc. NW. slope 30 ft.
- 28.95 Ridge bears NE. and SW. Desc. SW. slope 45 ft.
- Right bank Pinto Creek, 4 ft. high, course NW. Enter creek bed, 200 lks. wide.
- 37.75 Left bank Pinto Creek, 4 ft. high, course NW. Continue over open bottom.
- 39.68 To cor. No. 4.

Identical with cor. H-2 of List No. 3-1662, which is a 24 in. sycamore tree marked and witnessed as described by the Forest Service. I destroy cor. H-2 and its witnesses and for cor. No. 4 of this survey, I scribe + at the point and 4 - H E S 431 on the NW. face of the same tree; and raise a mound of stone 2 ft. base, 1-1/2

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ft. high NW. of cor., from which:

A 10 in. juniper bears S. 56° 50' W., 223 lks., blazed and scribed 4 H E S 431 + B T.

A 20 in. sycamore bears N. 85° 31' W., 190 lks., blazed and scribed 4 H E S 431 + B T.

Thence S. 71° 30' W. as doon oduly at awolf

Over bottom. Our one basily ense & al lion of

2.20 Leave bottom bears NW. and SE. and asc. NE. slope 10 ft.

2.24 Irrigating ditch, 3 lks. wide, banks 1 ft. high, course NW.

7.97 To cor. No. 1, the place of beginning.

Total Area - - - - - - - - - - - 31.90 acres

IMPROVEMENTS

A stone dwelling, 24 x 14 ft., the long side extending

E. and W. and the SE. cor. of which bears N. 74° 10' W.,

270 lks. from cor. No. 4 of this survey.

Estimated Value ----- \$100.00

A log dwelling, 18 x 12 ft., the long side extending N. and S. and the SE. cor. of which bears N. 74° 00' W., 310 lks. from cor. No. 4 of this survey.

Estimated Value ----- \$100.00

N. and S. and the NW. cor. of which bears S. 23° 30' E.,

18.78 chs. from cor. No. 2 of this survey.

Approximately 3/4 mile of fencing.

Estimated Value ----- \$ 75.00

Approximately 1/2 mile of irrigating ditch.

Estimated Value ----- \$ 50.00

Approximately 4 acres of cultivated land.

HOMESTEAD ENTRY SURVEY NO. 431.

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: doin DESCRIP,TION to . Wilder Chains This claim is located on Pinto Creek, a tributary to Salt River, and is chiefly valuable for intensive farming and stock raising. There is no timber in this section. Ash and sycamore grow along Pinto Creek. Water flows in Pinto Creek sufficient for all purposes. The soil is a sandy loam and produces the ordinary crops of the temperate zone. Good crops of garden have been 2.24 Irrigating ditch, 5 lys. wide, banks 1 ft. seing This section is not known to be mineralized, and no . townsites, mining, coal or oil claims are known to have been located in this vicinity. There is evidence of some placer workings on a small scale that have been abandoned many years. There are no conflicts or adjoining claims. Miami post office and railway station is 12 miles by

wagon road in a Southeasterly direction.

'MRAVERSE

l	TRAVERDE							
	Cor. Course D							
	1-2 N. 15° 18' W. 39 2-3 N. 66° 58' E. 39 3-4 S. 14° 56' E. 39	0.02	37.64	moti .E	7-67	10.30		
	3-4 S. 14° 56' E. 3° 4-1 S. 71° 30' W.	9.68	00 00	38.34	10.23	7.56		
-	83 .8 stand holdy to	5.00	40.90	40.87	11.90	17.86		
-	Terror in Lat. and Den		.00		• 0-1			
Closing error, 1:1900.								
	Survey completed February 21, 1916.							
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Pedro Moraga. Grook DIRECTIONS.—1. Carry out calculations to two decimals only.

2. In balancing Latitudes and Departures do not obliterate or change the original figures.

2. In balancing Latitudes and Departures do not obliterate or change the footing of the original figures, but put below them the corrected footing in red ink.

The corrected figure or figures above in red ink. The lengths of the lines. The lengths of the lines are shown as a reason of the lines are required to use the Standard Field Tables issued by the G. L. O.

3. In calculations of allings take result to nearest link. In calculations of the Surveyor General, and the Commissioner.

4. Only three copies of this tabulation are necessary, for the District Office, the Surveyor General, and the Commissioner. 93 34 27 N. AREAS. 388 413 24 Arizona D. 55 32 67 20 DOUBLE M. 20 28 10 STATE OF 28 99 86 WEST. 17 10 7 TABLING AND CALCULATIONS OF HOMESTEAD ENTRY SURVEY NO.431, DEPARTURES. 67 23 90 80 EAST. 10 17 2 53 87 000 120 SOUTH. 40 0 7 a LATITUDES. 643 88 06 200 NORTH. NO 37 40 53 DISTANCE. 95.00 8.33 7.97 39.68 39.02 error, 1:1900 田 M 国 1 199 58 301 15 0 181 BEARING. 14 0 .99 710 ι 0 · 02 N. Form 85. Sheet No. 3.—Revised Feb., 1915. Closing 1-2 3-4 2-3 4-1 CORNERS. 8-2349

90 Acres

31

35

84

646 71

S. AREAS.

637 92

APPROVAL

Office of the United States Surveyor General,

Phoenix, Arizona, August 3, 1917
The foregoing field notes of Homestead Entry Survey No.

431

executed by Walter G. Turley, Surveyor,

[Forest Service Title.]

under his special instructions, dated December 2 , 1915, having

been critically examined, and the necessary corrections and explanations

made, the said field notes, and the surveys they describe, are hereby

approved.

U. S. Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described survey in the State of Arizona, has been correctly copied from the original notes on file in this office.

Frank P. Trott
U. S. Surveyor General.

8-2349