FIELD NOTES

HOMESTEAD ENTRY SURVEY NO. 644

SITUATED IN THE TUSAYAN NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

In Section 5, unsurveyed, Township 29 N., Range 6 E.

In Section 8 unsurveyed

of the

Gila and Salt River Base & Meridian.

State of ARIZONA

Applicant for listing, Sanford Rowe

Residence, Grand Canyon, Arizona.

Application No. , dated 19

List No. , dated 19

Applicant for survey

Residence

H. E. No. , dated 19

Land Office Phoenix, Arizona

Survey executed by Thomas P. Myers, Chief Surveyor, Forest Service

Under special instructions dated September 18, 1925

Survey commenced March 30, 1925

Survey completed March 31, 1925

We hereby certify that we assisted

Chief Surveyor, Forest Service

in surveying all those parts or portions of Homestead Entry Survey No. 644, 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

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.

Subscribed and sworn to before me this 31st day of March 1926

Thomas F. Myers
Chief Surveyor, Forest Service

OATH OF SURVEYOR

I, Thomas F. Myers, Chief Surveyor, Forest Service, do solemnly swear that, in strict conformity with the special instructions of the United States Surveyor General for Arizona, dated September 15, 1925, and the laws of the United States, I have well, faithfully, and truly, in my own proper person, surveyed a tract of land as a basis for listing and patent.

No. 644, dated June 11, 1906, for the same to be known as Homestead Entry Survey No. 644, situated within the Tusayan National Forest, in unsurveyed Section 5, Township 29 N., Range 6 E., and unsurveyed Section 8, Township 29 N., Range 6 E., of the Gila and Salt River Base & meridian, Arizona, and the related retracements and resurvey 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

Thomas F. Myers
Chief Surveyor, Forest Service

Subscribed and sworn to before me this 13th day of July 1926

Notary Public

My Commission Expires Sept. 30, 1928
Surveyed a tract of land upon the application of Sanford Howe, as a basis for listing and patent.

Surveyed under special instructions from the Office of Public Surveys for Arizona, dated September 18, 1925, and designated as homestead Entry Survey No. 644.

Situated in unsurveyed Secs. 5 and 8, T. 29 N., R. 6 E. (partly surveyed and accepted) Gila and Salt River Base and Meridian, Tusayan National Forest, Arizona.


Survey commenced March 30, 1926, and executed with a Buff and Buff transit No. 10019, equipped with Smith solar attachment.

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

All distances are horizontal, and were reduced from measurements made directly on the slope with a 500 link steel tape. The slope angles were determined with a clinometer.

My watch was set for Standard time obtained from Western Union clock at Williams, Arizona, on March 29, 1926, and checked with same clock on April 10, 1926, and found to agree within 20 seconds.

March 30, 1926.

At my station approximately 19.00 chs. south and 13.00 chs. East of Cor. No. 2, horseman after described, in latitude 35° 56' 37" N. longitude 111° 46' 44" W. from Forest Service Base Map. At 6h. 21m. 54s. p.m. I observe Polaris with telescope, reading an angle of 0° 58' from star to right to reference mark.

Greenwich m.t. U. C. Polaris March 30, 1926 1h. 5.1m. p.m.

Corr. for Long. 1.2

L. & L. U. C. Polaris, March 30, 1926 1h. 3.9m. p.m.

L. & L. Obsn. Polaris, March 30, 1926 6h. 21m. p.m.

Hour angle 5h. 18m.

Azimuth of Polaris 1° 19.7' W.

Bearing of reference mark N. 0° 21.7' W.

At same station at 6h. 23m. 42a. p.m. I again observe Polaris with telescope reversed reading an angle of 0° 58' from
star to right to same reference mark

1st. U. C. Polaris March 30, 1926
1st. Obsn. Polaris
Hour angle
Azimuth of Polaris 1° 19' 9" W.
Bearing of reference mark N. 0° 21' 54" W.
The bearing of the reference mark as determined from the mean of the two obsns. is N. 0° 21' 48" W. I accept bearing of reference mark as N. 0° 22' W. and from the corresponding meridian all the courses of this survey were deflected by sustained angulation.

RETRACEMENT

March 30, 1926.
Beginning at Cor. No. 1 of HBS 469, a limestone 12x8x10 ins. above ground marked and witnessed as described in official note thereof.
Thence S. 89° 41' E.
Retracing line 1 to 4 of HBS 469

45.64 Fall 1.5 lks. south of Cor. No. 4 of HBS 469, a limestone 16x8x10 ins. above ground, marked and witnessed as described in official note thereof.
Thence N. 89° 42' W.
On true line 4 - 1 of HBS 469
5.64 Set temporary point for Cor. No. 3 of HBS 644
45.64 To Cor. No. 1 of HBS 469 previously described

BOUNDARIES OF CHAIN

March 30, 1926.
Beginning at Cor. No. 1
Deposit a limestone 3x3x2 ins. marked with a + 16 ins. in ground, over which set a limestone 26x8x10 ins. marked + or toy for point and 1 HBS 644 on HB face; raise a mound of stone 3 ft. base 2 ft. high NE of Cor. whence:
Pinon 12 ins. dia. bears N. 74° 30' E. 26 lks.
Pinon 20 ins. dia. bears N. 36° 45' W. 94 lks.
Each marked 1 HBS 644-BH
Cor. No. 1 of HBS 469 heretofore described bears N. 0° 32' E.
Homestead entry survey no. 43
Tusayan National Forest
State of Arizona

Chains 39.28 chs. by direct measurements.
Cor. Secs. 7, 8, 17 and 18 (surveyed and accepted) T. 29 N., R. 6 E., a limestone 24x14x6 ins. surrounded by a mound of stone 4 ft. base 1\(\frac{1}{2}\) ft. high, marked and witnessed as described by the Office of Public Surveys bears S. 60° 18' 30" W. 74.44 chs. by traverse which appears at the end of these notes.

Note: An independent tie was not run to the above described Sec.
Cor. Tie was made to Cor. No. 1 of HBS 469 (Accepted) which was tied to the above Sec. Cor.

Mag. decl. at 12 o'clock noon 15° 00' 01" E.
Mean mag. decl. 15° 02' E.

Thence N. 0° 32' E.
Over open land

1.89
Arroyo 10 ins. wide 3 ft. deep, course East.

3.55
Road, Tuba City - Grand Canyon bears East and West. Thence over rolling rocky land through dense pinon and cedar.

39.96
To Cor. No. 2
At Cor. of fence, whence fence bears S. 89° 42' E. and S. 50° 32' W. Identical with Cor. No. 1 of HBS 469 previously described. I mark same stone 2 HBS 644 on S. face for Cor. No. 2 of the survey:

whence:

Pron 6 ins. dia. bears S. 55° 00' W. 32 ins.

Pron 5 ins. bears S. 22° 00' W. 27 ins.

Each marked 2 HBS 644-BT

Thence S. 69° 42' E.
Along line 1 - 4 of HBS 469
Descend over rocky E. slope, fence on line.

4.50
Bottom of descent, thence over sage brush flat.

5.00
Road, bears N. and S.

34.90
Cor. fence. Fences bear N. and westerly along line.

39.12
Fence bears N. and S. Line is also along N. side of corral fence

39.94
Cor. fence, fences bear NW and S.

40.00
To Cor. No. 3.
Deposit a limestone 6x6x2 ins. marked with a + 16 ins. in ground over which set a limestone 26x8x10 ins. marked + on top for point and 3 HES 644 on SW face; raise a mound of stone 2 ft. base 1½ ft. high SW of Cor.

No witnesses available, pits impracticable.

Cor. No. 4 of HES 469 previously described bears S. 89° 42' E. 5.84 chs. distant.

Thence S. 0° 35' W.

Over open sage brush flat, fence inside of line.

.59 Fence bears E. NE and W. SW. SE Cor. pole corral bears West 10 lbs.

12.37 Road, Tuba City -- Grand Canyon bears East and West.

31.90 Arroyo 20 lbs. wide 8 ft. deep course NW.

39.98 To Cor. No. 4.

Deposit a limestone 4x4x2 ins. marked with a + 14 ins. in ground over which set a limestone 16x8x12 ins. (no longer stone available) marked + on top for point and 4 HES 644 on NW face; raise a mound of stone 2 ft. base 1½ ft. high NW of Cor. whence:

Juniper 14 ins. dia. bears S. 49° 17' W. 210 lbs.

Juniper 20 ins. dia. bears S. 33° 25' W. 111 lbs.

Each marked 4 HES 6444ET

March 30, 1926

March 31, 1926.

Thence N. 89° 38' W.

Through scattering pinon and juniper.

.12 Fence bears N. 30° and S. 30° W.

5.00 Enter open sage brush flat.

20.10 Fence bears N. and S. Enter pinon and juniper.

35.90 Begin descent of rocky W. slope.

39.50 Bottom descent, thence over bottom land.

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

AREA

Total area 159.89 acres
The improvements made upon this claim and belonging to the claimant, consist of the following:

A log blacksmith shop 14x10x ft. facing E. NE. the SE. Cor. of which bears from Cor. No. 1 N. 29° 15' E. 23.75 chs.

Value $150.00

A frame house 14x32 ft. the long sides extending N & S, the E. Cor. of which bears N. 26° 23' E. 24.21 chs. from Cor. No. 1.

Value $800.00

A Dugout cellar 14x14 ft. facing NE., the E. Cor. of which bears N. 26° 32' E. 23.82 chs. from Cor. No. 1.

Value $150.00

An earth dam 14 ft. deep, 150 ft. long and 10 ft. wide on top. The dam extends NW & SE. Center bears N. 30° 32' E. 1767 chs. from Cor. No. 1

Value $500.00

Approximately 2½ miles of wire fencing mostly inside of claim.

Value $300.00

DESCRIPTION

This claim is situated in Shad Park, a tributary of the Coconino Basin and is comprised mainly of sage brush flat. The soil is a light sandy loam of good depth.

Approximately 100 acres of the area is suitable for agricultural purposes, of which about 25 acres show signs of having been under cultivation in the past few years. There is no water on the claim, and dry farming methods must be relied upon to grow crops.

Water for domestic use is obtained from a cistern near the house.

There is a small amount of juniper and pinon in the SW portion, and a fairly heavy stand of pinon and juniper along the west boundary, but owing to the distance from market it has no commercial value.

I saw no evidence of mineral on the claim.
HOMESTEAD ENTRY SURVEY NO.  
TUSAYAN NATIONAL FOREST  
STATE OF ARIZONA

Chains

CONFLICTS AND ADJOINING CLAIMS

There are no conflicts. EES 469 (accepted) adjoins this claim on the north.

Grand Canyon, Arizona, the nearest post office and market point lies about 20 miles distant in a westerly direction and is reached by good road.

The strip, mentioned in the special instructions to be excepted through this tract, for road right of way is not required for the protection of government interests, therefore the strip for the road right of way was not excluded from the area.

Survey completed March 31, 1926.

Thomas J. Meyer  
Chief, Surveyor.
**TABLING AND CALCULATIONS OF HOMESTEAD ENTRY SURVEY No. 644, STATE OF ARIZONA**

<table>
<thead>
<tr>
<th>CORNERS.</th>
<th>BEARING.</th>
<th>DISTANCE.</th>
<th>LATITUDES.</th>
<th>DEPARTURES.</th>
<th>DOUBLE M. D.</th>
<th>N. AREAS.</th>
<th>S. AREAS.</th>
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</thead>
<tbody>
<tr>
<td>N. 0' 32' E.</td>
<td>39.98</td>
<td>39.98</td>
<td>TIE COR. NO. 1 to COR. SECS. 7, 8, 17 &amp; 18 T. 29 N., R. 6 E.</td>
<td>37</td>
<td>8.55</td>
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<td>S. 4' 17' 35' W.</td>
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<td></td>
<td>113.97</td>
<td>37</td>
<td>8.55</td>
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<td></td>
<td></td>
<td>39.98</td>
<td>8.18</td>
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Resultant Course S. 6' 18' 30" W. 74.44 Chs.
**TABLED AND CALCULATIONS OF HOMESTEAD ENTRY SURVEY NO. 644, STATE OF ARIZONA**

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<td></td>
<td></td>
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<td>NORTH</td>
<td>SOUTH</td>
<td>EAST</td>
<td>WEST</td>
<td></td>
</tr>
<tr>
<td>2 - 3</td>
<td>S 89° 42' E</td>
<td>40.00</td>
<td></td>
<td>40.00</td>
<td>40.00</td>
<td>40.00</td>
<td>40.00</td>
</tr>
<tr>
<td>3 - 4</td>
<td>S. 0° 35' W</td>
<td>39.98</td>
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<td>39.98</td>
<td>39.98</td>
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<tr>
<td>4 - 1</td>
<td>N. 89° 38' W</td>
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<td>159.94</td>
<td>40.19</td>
<td>40.19</td>
<td>40.37</td>
<td>40.37</td>
<td>24.78</td>
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**Error in lat. & Dep.**

**Closing Error 1/2970**

**159.69 Acres**
APPROVAL

PUBLIC SURVEY OFFICE

Phoenix, Arizona, November 18, 1926

The foregoing field notes of Homestead Entry Survey No. 644

executed by Thomas F. Myers, Chief Surveyor, under his special instructions, dated September 18, 1925, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

[Signature]
Office Cadastral Engineer

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.

John D. Adams
Office Cadastral Engineer