

U. S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE

OCT-2 1916

SEP-2 1915

FIELD NOTES

OF

HOMESTEAD ENTRY SURVEY NO. 198

SITUATED IN THE

SITGREAVES NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

in

Section 13, unsurveyed, Township 12 N., Range 16 E.

Section 24, unsurveyed, Township 12 N., Range 16 E.

of the

Gila and Salt River Base and Meridian.

ARIZONA

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

Under special instructions dated June 10, 1914

Survey commenced July 24, 1914

Survey completed July 25, 1914

Under Acts of June 11, 1906 and June 30, 1914.

Applicant for listing John Hoyle,

Residence Heber, Arizona.

Application No. 18, dated July 25, 1906

List No. 1179, dated March 7, 1908

Applicant for survey Joseph I. Porter,

Residence Heber, Arizona.

H. E. No. 018911, dated August 27, 1912.

Land district Phoenix, Arizona.

144

OATH OF ASSISTANTS

We hereby certify that we assisted Walter G. Turley,
Surveyor-Forest Service in surveying all those
parts or portions of Homestead Entry Survey No. 198, in
unsurveyed Section 13, Township 12 N., Range 16 E.,
unsurveyed Section 24, Township 12 N., Range 16 E.,

of the G. & S.R.B. & meridian, State of Arizona, which
are represented in the following field notes as having been
surveyed by him and under his direction; and that said sur-
vey 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 fur-
nished by the United States Surveyor General for Arizona.

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

Charles D. Hodson, Chainman
Charles G. Baechel, Chainman.

Subscribed and sworn to before me this 12th day of
November, 1914.

Walter G. Turley
Surveyor-Forest Service.

OATH OF SURVEYOR

I, Walter G. Turley, Surveyor-Forest Service, do solemnly
swear that, in strict conformity with the special instructions
of the United States Surveyor General for Arizona, dated June
10, 1914, and the laws of the United States, I have well, faith-
fully, and truly, in my own proper person, surveyed a tract of
land, embraced in List No. 1179, dated March 7, 1908, and a
tract of land upon the application of Joseph I. Porter,
Application No. 589, dated August 18, 1915, for
Patent, under the Act of June 11, 1906,
the same to be known as Homestead Entry Survey No. 198,
situated within the SITGREAVES National Forest, in
unsurveyed Section 13, Township 12 N., Range 16 E., and
unsurveyed Section 24, Township 12 N., Range 16 E.
of the G. & S. R. B. & Meridian, Arizona, and the related
retracements and resurveys and section subdivisions, which are
represented in the following field notes as having been survey-
ed by me; and I further solemnly swear that all the corners of
said survey have been established and perpetuated in strict ac-
cordance 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.

Walter G. Turley
Surveyor-Forest Service.

Subscribed and sworn to before me this 16 day of

November, 1914.
my commission expires Feb 6 - 1918

R. B. Callie
Notary Public



SITGREAVES NATIONAL FOREST

STATE OF ARIZONA

Chains Applicant for listing, John Hoyle, Application No. 18, dated July 25, 1906; List No. 1179, dated March 7, 1908; Homestead Entry No. 018911, made in the Phoenix Land Office on August 27, 1912 by Joseph I. Porter, whose Post Office address is Heber, Arizona.

Also a tract of unlisted land adjoining claimant's entry on the North. The land is agricultural in character, was desired by the entryman and will be listed as a basis for amendment of his entry No. 018911. Application No. 589, dated August 18, 1915.

Surveyed under Acts of June 11, 1906 and June 30, 1914, and special instructions from the Surveyor General for Arizona, dated June 10, 1914, and designated as Homestead Entry Survey No. 198.

Situated in what will probably be, when surveyed, Secs. 13 and 24, T. 12 N., R. 16 E., G. and S. R. B. and M., within the Sitgreaves National Forest, Arizona.

Survey commenced July 24, 1914 and executed with a 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 to 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. The stadia wire interval is adjusted to read 1:132.

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

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA

Chains stadia rod graduated to feet and hundredths, provided with two targets, the verniers of which read to thousandths of a foot.

The courses of this survey were deflected by continuous sustained angulation from the meridian established by me on July 21, 1914 by Polaris obsn. at cor. No. 3 of H. E. S. No. 194, which is identical with cor. No. 2 of this survey.

July 24, 1914.

Lat. $34^{\circ} 28' 00''$ N. and Long. $110^{\circ} 36' 21''$ W. at S. C.

secs. 36 and 31, T. 13 N., Rs. 16 and 17 E., G. and S.

R. B. and M., obtained from values given in the special

instructions of the Surveyor General, which gives 34°

$25' 01''$ N. Lat. and $110^{\circ} 36' 41''$ W. Long. at cor. No.

1 of this survey.

Note: The sun was obscured at apparent noon and Polaris at culmination, therefore a latitude observation was not possible.

On July 24, 1914 by telephone I compare my watch with the 105° meridian

standard telegraphic clock and find it correct. I

subtract 22m. 27s. therefrom for l.m.t., since cor. No.

1 is $110^{\circ} 36' 41''$ W. Long.

I observe the magnetic declination at cor. No. 1 to be

$14^{\circ} 43'$ E. at 3h. 00m. p.m., July 24, 1914, which gives

a mean magnetic declination of $14^{\circ} 45'$ E.

There being no public land cor. within two miles of the

claim, I tie this survey to the U. S. L. M. No. 179,

H. E. S. established by me August 1, 1914 in connec-

tion with H. E. S. 179, located on a prominent point

of the mesa, 15.00 chs. W. of Buckskin Creek; chiseled

(sufficient for a reference)

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA.

Chains (+) and USLM No 179 HES on east face of an imbedded limestone, 12 x 4 x 2 ft. above ground; and raise a mound of stone 6 ft. base, 4 ft. high, W. of cor., from which:

A 12 in. pine, scribed U.S. L. M. No. 179 H E S + B T bears N. 20° 00' W., 76 lks.

An 18 in. pine, scribed U S L M No. 179 H E S + B T bears N. 85° 00' E. 28 lks.

An 8 in. pine, scribed U S L M No. 179 H E S + B T bears S. 55° 30' W., 29 lks.

A 14 in. pine, scribed U S L M No. 179 H E S + B T bears N. 80° 30' W., 89 lks.

Cor. No. 1, H. E. S. 198 bears N. 1° 00' E., 12.31 chs.

Cor. No. 1, H. E. S. 179 bears S. 7° 17' E., 116.20 chs.

Cor. No. 1, H. E. S. 199 bears N. 26° 09' W., 70.44 chs.

S. C. of secs. 36 and 31, T. 13 N., Rs. 16 and 17 E. bears N. 5° 05' 27" E., 288.06 chs. dist.

determined by traverse which appears at the end of these notes.

Note: No prominent natural objects are visible from any point in this vicinity owing to the heavy stand of timber.

Thence N. 1° 00' E.

By direct measurement for a tie.

12.31 To cor. No. 1.

Identical with cor. H-3 of List 1179, which is a limestone, 8 x 6 x 5 ins. above ground, marked and witnessed as described by the Forest Service. I destroy Cor. H-3 and its witnesses and for cor. No. 1

unnecessary if eliminated would necessitate reworking whole set of notes well appearing in future cases

HOMESTEAD ENTRY SURVEY NO. 198.

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA.

Chains of this survey I set a limestone, 26 x 15 x 5 ins., 16 ins. in the ground over (+) on a stone 3 x 3 x 2 ins. chiseled (+) at the point and 1-HES198 on the NE. face; and raise a mound of stone, 2 ft. base, 1-1/2 ft. high NE. of cor., from which:

A 28 in. pine, scribed 1 H E S 198 + B T

bears N. 86° 40' W., 159 lks.

A 10 in. pine, scribed 1 H E S 198 + B T

bears S. 64° 24' W., 215 lks.

July 25, 1914.

Thence N. 1° 18' W.

Along line H-3 to H-2 of List 1179.

Over bottom in open

16.50 Wagon road, bears NE. and SW.

24.45 Leave bottom, bears NE. and SW. and ascend along broken E. slope of mesa 20 ft. in scattering pine timber and undergrowth.

51.15 Cease ascending and descend 25 ft. along NE. slope.

57.80 Leave slope, bears NW. and SE. and continue in open.

70.34 To cor. No. 2.

Identical with cor. H-2 of List 1179, which is a limestone 18 x 6 x 7 ins. above ground marked and witnessed as described by the Forest Service. I destroy cor. H-2 and its witnesses, and for cor. No. 2 of this survey I chisel 2-HES198 on the SE. face of a limestone 16 x 10 x 10 ins. above ground, which is marked (+) at the point and 3-HES194 on the NNE. face. for cor. No. 3 of H. E. S. No. 194, with a mound of stone 2 ft. base, 1-1/2 ft. high NNE. of cor. from which:

A 22 in. pine, scribed 3 H E S 194 and

2 H E S 198 + B T bears S. 72° 05' E. 68 lks.

A 24 in. pine, scribed 3 H E S 194 and

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA.

Chains

2 H E S 198 + B T bears S. 22° 40' E., 58 lks.

A 22 in. pine, scribed 12 H E S 199 + B T

bears S. 82° 20' W., 78 lks.

A 22 in pine, scribed 12 H E S 199 + B T

bears S. 27° 00' E., 168 lks.

Note: The corner stone was subsequently marked 12-HES199 on the NW. face for cor. No. 12 of H. E. S. 199.

Thence N. 65° 44' E.

Along line 3-2 of H. E. S. No. 194. Leave listed and

center unlisted land. Over bottom in open.

3.09 Forest Service telephone line, bears N. and S.

4.13 Center line of road, bears NW. and SE.

15.71 Center line of Heber-Holbrook wagon road bears E. and W.

20.21 Left bank Buckskin Canyon Creek bed, 75 lks. wide,

banks 4 ft. high, course N. S.

20.71 Center line Heber-Holbrook wagon road bears NE. and SW.

21.66 To cor. No. 3.

At which point I set a sandstone 24 x 12 x 8 ins., 14 ins. in the ground over (+) on a stone 4 x 3 x 2 ins. chiseled (+) at the point and 3-HES198 on the SSW.

face; and raise a mound of stone 2 ft. base, 1-1/2

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

A 22 in. pine, scribed 3 H E S 198 + B T

bears S. 86° 28' E., 144 lks.

A 6 in. pine, scribed 3 H E S 198 + B T

bears S. 4° 14' W., 252 lks.

I destroy cor. H-1 of List 1179 and its witnesses, which

is a limestone 14 x 12 x 13-ins. above ground, marked

and witnessed as described by the Forest Service, and

bears S. 1° 08' E., 9.59 chs. dist. from cor. No. 3 of

this survey.

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA.

Chains Thence 'S. 1° 08' E. ...
 Over bottom in open ...
 9.59 To cor. H-1 of List 1179, heretofore described and destroyed. Leave unlisted land and enter listed land. Continue along line H-1 to H-4 of List 1179.
 69.85 Leave bottom. Bears NE. and SW. and ascend gradually along broken W. slope in undergrowth, 40 ft.
 70.45 Cease ascending and descend SE. slope 20 ft.
 78.47 To cor. No. 4. Identical with cor. H-4 of List 1179, which is an imbedded limestone boulder, 14 x 2 x 2 ft. above ground marked and witnessed as described by the Forest Service. I destroy cor. H-4 and its witnesses and for cor. No. 4 of this survey I chisel (+) at the point and 4-HES198 on the same imbedded stone; and raise a mound of stone 2 ft. base, 1-1/2 ft. high S. of cor., from which:
 A 7 in. pine, scribed 4 HES198 + B Thence bears N. 45° 10' E., 60 lks.
 A 6 in. cedar, scribed 4 HES198 + B T bears N. 84° 35' E., 40 lks.
 Thence S. 87° 46' W. Along line H-4 to H-3 of List 1179. Ascend SE. slope 20 ft. in undergrowth.
 4.80 Edge of mesa, bears N. and S. Descend W. slope 35 ft.
 6.55 Right bank Buckskin Canyon Creek bed, 160 lks. wide, banks 2 ft. high, course N. Continue over bottom in open.
 8.70 To cor. H-2, List 3-1266, which is a quartzite boulder 9 x 7 x 6 ins. above ground, marked and witnessed as described by the Forest Service. Continue along line H-2 to H-1 of List 3-1266.
 8.72 Pole fence bears N. and S.

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA.

Chains

10.07 Forest Service telephone line bears N. and S.
17.74 To cor. H-1, List 3-1266, which is a limestone, 6 x 5
x 4 ins. above ground, marked and witnessed as de-
scribed by the Forest Service. At this point I leave
List 3-1266.
19.72 To cor. No. 1, the place of beginning.

AREA.
Area of List 1179. 137.98 Acres.
Area to be listed. 9.55 Acres.
Total Area. 147.53 Acres.

IMPROVEMENTS.

The improvements made upon this homestead consist of

the following:

A log dwelling, 34 x 16 ft., the long side extending

N. and S., and the NW. cor. of which bears S. 28°

30' E., 5.10 chs. dist. from cor. No. 2.

Value \$150.00

A log store house, 14 x 10 ft., the long side extending

N. and S. and the NW. cor. of which bears S. 32° 15'

E., 4.30 chs. dist. from cor. No. 2.

Value \$25.00

A log shed, 56 x 24 ft., the long side extending E.

and W. and the NW. cor. of which bears S. 58° 30' E.

5.80 chs. dist. from cor. No. 2.

Value \$100.00

A log dwelling, 26 x 18 ft., the long side extending

E. and W., and the NW. cor. of which bears S. 79° 50'

E., 3.10 chs. dist. from cor. No. 2.

Value \$250.00

Approximately two miles of wire and pole fencing.

Value \$200.00

Chains

Approximately 20 acres of cultivated land.

DESCRIPTION.

This claim is situated on the N. slope of the Mogollon Mesa at an elevation of approximately 6,400 ft. and occupies a tract of bottom land along Buckskin Canon, which drains northward.

This section is at the edge of the heavy timber, but is well covered with pine, pinon and cedar. A fringe of trees is included in this survey. Sufficient water for stock and domestic purposes is obtained from seeps along the arroyo bed.

The bottom soil is a sandy loam and produces the ordinary crops of the temperate zone without irrigation, but is best adapted to the small grains and sorghums, good crops of which have been produced.

This section is not reported to be mineralized, and no town-sites, mining, oil or coal claims are known to have been located near this homestead.

CONFLICTS AND ADJOINING CLAIMS.

There are no conflicts. 9.56 acres of unlisted bottom land were included to the N. of List 1179, in order to eliminate an objectionable hiatus that existed between H. E. S. No. 194 and List 1179. H. E. S. 194 lies immediately N. of this survey and line 2-3 hereof lies along line 3-2 thereof. H. E. S. No. 199 lies NW. of this survey and cor. No. 12 thereof is identical with cor. No. 2 hereof. List 3-1266 lies immediately south of this survey and line H-2 to H-1 thereof lies along line 4-1 hereof. Heber post-office is located upon H. E. S. No. 194, which adjoins this survey on the N. Holbrook Railway station is 50 miles in a northeasterly direction.

July 25, 1914.

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA.

Chains Traverse from S. C. of Secs. 36 and 31, T. 13 N., R. 16 and 17 E. to U. S. L. M. No. 179 H. E. S.

11349
99354
81479
57976
91164
41098
02269
99974
07746
99985

08860
99609

Course	Dist.	N.	S.	E.	W.
S. 6° 31' E.	149.26		148.30	16.94	
S. 54° 34' E.	38.23		22.16	31.15	
S. 65° 44' W.	82.31		33.83		75.04
S. 1° 18' E.	70.34		70.32	1.60	
S. 1° 00' W.	12.31		12.31		0.21
		0.00	286.92	49.69	75.25
			0.00		49.69
S. 5° 05' 27" W.	288.06		286.92		25.56

Traverse.

Cor.	Course	Dist.	N.	S.	E.	W.
1-2	N. 1° 18' W.	70.34	70.32			1.60
2-3	N. 65° 44' E.	21.66	8.90		19.75	
3-4	S. 1° 08' E.	78.47		78.45	1.55	
4-1	S. 87° 46' W.	19.72		0.77		19.71
		190.19	79.22	79.22	21.30	21.31
				79.22		21.30
Error in Lat. and Dep.				0.00		0.01

Closing Error, 1:19019.

T.A.

unnecessary if desc. on page 3 is eliminated.

Walter J. Purley
Surveyor - Forest Service.

NATIONAL FOREST

STATE OF ARIZONA

Chains Traverse from S. C. of Secs. 36 and 37, T. 13 N., R. 16 E. to U. S. L. M. No. 179 H. E. S.

Course Dist. S. 81' E. 149.28

S. 54° 34' E. 88.28

S. 65° 44' W. 82.31

S. 1° 18' E. 70.34

S. 1° 00' W. 12.31

0.00 12.31

0.00 288.92

49.69 49.69

28.82 288.92

28.82 288.92

28.82 288.92

1.60 70.34

19.75 82.31

1.60 78.47

19.75 70.34

21.30 21.30

21.30 21.30

0.00 0.00

0.00 0.00

0.00 0.00

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Surveyor - Forest Service

DIRECTIONS.—1. Carry out calculations to two decimals only.

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

Put the corrected figure or figures above in red ink. Do not change the footing of the original figures, but put below them the corrected footing in red ink.

The corrections for balancing fallings should be proportional to the lengths of the lines.

3. In calculations of fallings take result to nearest link. In calculations of N. and S. areas drop all after second decimal. Surveyors are required to use the Standard Field Tables issued by the G. L. O.

4. Only three copies of this tabulation are necessary, for the District Office, the Surveyor General, and the Commissioner.

TABLING AND CALCULATIONS OF HOMESTEAD ENTRY SURVEY NO. 198., STATE OF ARIZONA.

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.		N. AREAS.	S. AREAS.
			NORTH.	SOUTH.	EAST.	WEST.				
02269 99974	1-2 N. 1° 18' W.	70.34	70 32 ✓			1 60 ✓	1 60 ✓	112 51 ✓		
91164 41098	2-3 N. 65° 44' E.	21.66	8 90 ✓	78 45 ✓	19 75 ✓	19 75 ✓	19 75 ✓	175 78 ✓		
01978 99980	3-4 S. 1° 08' E.	78.47		0 77 ✓	1 55 ✓	41 06 ✓	41 06 ✓		3221 16 ✓	
99984 02297	4-1 S. 87° 46' W.	19.72				22 91 ✓	22 91 ✓		17 64 ✓	
		190.19	79 22	79 22	21 30	21 31		288 29 ✓	3238 80 ✓	
			79 22	79 22	21 31	21 31			288 29 ✓	
	Closing error 1:19019.							Area	147.53 ✓	T.F.

154

APPROVAL

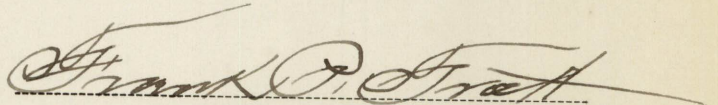
Office of the United States Surveyor General,

Phoenix, Arizona, March 20 , 1917.

The foregoing field notes of Homestead Entry Survey No.

199

executed by **Walter G. Turley**, Surveyor Forest Service
under his special instructions, dated **June 10** , 1914, 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.