

OCT-2 1916

U. S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE

FIELD NOTES

OF

HOMESTEAD ENTRY SURVEY NO. 196

SITUATED IN THE

SITGREAVES NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

Sec 36, T12N, R15E.

in

Section 1, unsurveyed, Township 11 N., Range 15-1/2 E.

Section 12, unsurveyed, Township 11 N., Range 15-1/2 E.

Section 6, unsurveyed, Township 11 N., Range 16 E.

~~Section 7, unsurveyed, Township 11 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 9, 1914
Survey completed July 10, 1914
Under Acts of June 11, 1906 and June 30, 1914.

Applicant for listing John Nelson,
Residence Heber, Arizona.
Application No. 360, dated September 21, 1912
List No. 5-2695, dated July 28, 1913
Applicant for survey John Nelson,
Residence Heber, Arizona.
H. E. No. 04862, dated March 5, 1914.
Land district Phoenix, Arizona.

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. 196, in
unsurveyed Section 1, Township 11 N., Range 15-1/2 E.
unsurveyed Section 12, Township 11 N., Range 15-1/2 E.
unsurveyed Section 6, Township 11 N., Range 16 E.
unsurveyed Section 7, Township 11 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 inconvenient to appear before an officer to administer oaths to Assistants; hence, they were taken by the Surveyor.

Charles D. Hodson, Chairman
Charles K. Baecht, Chairman

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, faithfully, and truly, in my own proper person, surveyed a tract of land upon the application of an embraced in List, No 3-2625, dated July 28, 1913, for Patent, under the Act of June 11, 1906, the same to be known as Homestead Entry Survey No. 196, situated within the ST. GREAVES National Forest, in unsurveyed Section 1, Township 11 N., Range 15-1/2 E. and unsurveyed Section 12, Township 11 N., Range 15-1/2 E., unsurveyed Section 6, Township 11 N., Range 16 E. unsurveyed Section 7, Township 11 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 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.

Walter G. Turley

Surveyor-Forest Service.

Subscribed and sworn to before me this 16 day of
Nov, 1914.



R B Collio
My commissions expires 4-6-1918 Notary Public

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA

Chains

Applicant for listing, John Nelson; Application No. 360, dated September 21, 1912; List No. 3-2695, dated July 28, 1913; Homestead Entry No. 04862, made in the Phoenix Land Office on March 5, 1914 by John Nelson of Heber, Arizona.

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. 196.

Situated in what will probably be, when surveyed, secs. 1 and 12, T. 11 N., R. 15-1/2 E., and sec. 6, T. 11 N., R. 16 E.; Gila and Salt River Base and Meridian, within the Sitgreaves National Forest, Arizona.

Survey commenced July 9, 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 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 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 stadia rod, graduated to feet and hundredths, provided with

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA

Chains

two targets, the verniers of which read to thousandths of a foot.

July 9, 1914.

At 9h. 37m. p.m., l.m.t., I observe Polaris in accordance with instructions with transit set up and telescope direct, at cor. H-2 of List 3-2695, which is an imbedded limestone 24 x 20 x 30 ins. above ground, marked and witnessed as described by the Forest Service and mark the direction thus determined with a tack in a stake set firmly in the ground 5.00 chs. N. of my station. Lat. 34° 22' 16" N. Long. 110° 42' 11" W.

Astron. l.m.t. obsn., July 8, 1914, 33h. 37.0m.

Astron. l.m.t. U.C. Pol., July 8, 1914, 18h. 21.9m.

Hour angle Pol. at obsn., 15h. 15.1m.

23h. 56.1m.

Time argument, 8h. 41.0m.

Azimuth of Pol. at obsn., 1° 03' 12" E.

At 9h. 41m. p.m., l.m.t., on the same date, I observe Polaris in accordance with instructions, at cor. H-2 of List 3-2695 heretofore described, with transit set up and telescope reversed in altitude and azimuth; 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. l.m.t. obsn., July 8, 1914, 33h. 47.0m.

Astron. l.m.t. U.C. Pol., July 8, 1914, 18h. 21.9m.

Hour angle Pol. at obsn., 15h. 25.1m.

23h. 56.1m.

Time argument, 8h. 31.0m.

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA

Chains Azimuth Pol. at obsn., $1^{\circ} 05' 30''$ E.
July 9, 1914.

July 10, 1914.

I turn off $1^{\circ} 03'$, the azimuth of Polaris, to the W. from her direction at 9h. 37m. p.m., 1.m.t., July 9, 1914, and mark the line thus determined with a tack in a stake set firmly in the ground 5.00 chs. N. of my station.

I also turn off $1^{\circ} 05' 1/2''$, the azimuth of Polaris, to the W. from her direction at 9h. 41m. p.m., July 9, 1914, 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 $0^{\circ} 00' 32''$ of measured arc W. of the line previously established. I mark the mean of these two lines with a tack in a stake set firmly in the ground 5.00 chs. N. of my station and from the corresponding meridian all the courses of this survey were deflected by continuous sustained angulation.

$34^{\circ} 27' 58''$ N. Lat. and $110^{\circ} 42' 30''$ W. Long., at the S. C. of T. 13 N., Rs. 15 and 16 E., Gila and Salt River Base and Meridian, obtained from the special instructions of the Surveyor General, which gives $34^{\circ} 22' 16''$ N. Lat. and $110^{\circ} 42' 11''$ W. Long., at cor. No. 1.

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

By telephone, I compare my watch with the 105° Meridian

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA

Chains

standard telegraphic clock; and find it correct. I subtract 22m. 49s. therefrom for l.m.t., since cor. No. 1 of this survey is 110° 42' 11" W. Long.

I observe the magnetic declination at cor. No. 1 to be 14° 42' E. at 8h. 00m. a.m., l.m.t., July 10, 1914, which gives a mean magnetic declination of 14° 38' E.

There is no corner of the Public Land Survey or United States Location Monument within two miles of this homestead, therefore I establish U. S. L. M. No. 196 H. E. S. in accordance with instructions, upon the most prominent elevation within the prescribed limit which is on the East side of Brookbank arroyo. I chisel (+) at the point and U S L M No 196 H E S on the NW. face of an imbedded limestone 8 x 4 x 3 ft. above ground; and raise a mound of stone 6 ft. base, 4 ft. high, SE. of cor. point, from which:

A 14 in. pine, scribed U S L M No 196 H E S + B T, bears N. 83° 45' E., 33 lks.

A 12 in. pine, scribed U S L M No 196 H E S + B T, bears N. 17° 30' W., 57 lks.

A 14 in. pine, scribed U S L M No 196 H E S + B T, bears N. 78° 15' W., 28 lks.

A 14 in. pine, scribed U S L M No 196 H E S + B T, bears S. 42° 30' W., 23 lks.

Cor. No. 1, H. E. S. 196 bears S. 10° 00' W., 3.24. chs.

Note: This section of country is a high timbered plateau; and it is not possible to find a point from which any prominent natural objects are visible.

Thence S. 10° 00' W.

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA

Chains	By direct measurement for a tie.
3.24	To Cor. No. 1.
	<p>Identical with Cor. H-2 of List 3-2695 heretofore described. I destroy cor. H-2 with its witnesses; and, for cor. No. 1 of this survey, I chisel (+) at the point and 1-HES196 on the N. face of the imbedded stone previously marked for cor. H-2; and raise a mound of</p>
	<p>stone 2 ft. base, 1-1/2 ft. high N. of cor. from which:</p>
	<p>A 6 in. pine scribed 1 H E S 196 + B T bears N. 28° E., 60 lks.</p>
	<p>A 24 in. pine scribed 1 H E S 196 + B T bears N. 41° 45' W., 79 lks.</p>
	<p>U. S. L. M. No. 196 H. E. S. bears N. 10° 00° E., 3.24 chs. dist.</p>
	<p>Thence N. 57° 55' W.</p>
	<p>Along line H-2 to H-1 of List 3-2695. I Descend NW. slope 20 ft. in pine timber.</p>
6.00	Leave slope bears NE. and SW. and continue over bottom.
12.55	Brookbank arroyo 100 lks. wide, banks 2 ft. high, course NE. Leave bottom and ascend SE. slope 20 ft.
20.62	To Cor. No. 2.
	<p>Identical with Cor. H-1 of List 3-2695 which is a limestone 16 x 12 x 6 ins. above ground marked and witnessed as described by the Forest Service. I destroy Cor. H-1 and its witnesses; and, for cor. No. 2 of this survey, I set a limestone 24 x 14 x 10 ins., 14 ins. in the ground, over (+) on a stone 4 x 3 x 2 ins. chiseled (+) at the point and 2-HES196 on the E. face</p>

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA

Chains

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

E. of cor. from which:

A 7 in. pine scribed 2 H E S 196 + B T

bears S. 76° 15' W., 64 lks.

A 20 in. pine, scribed 2 H E S 196 + B T

bears S. 25° 15' E., 37 lks.

Thence N. 32° 04' E.

Along line H-1 to H-6 of List 3-2695.

Descend along rolling SE. slope 25 ft. in edge of scattering pine timber.

62.16 Arroyo, 10 lks. wide, banks 4 ft. high, course SE.

66.00 To Cor. No. 3.

Identical with Cor. H-6 of List 3-2695 which is a limestone 12 x 8 x 5 ins. above ground marked and witnessed as described by the Forest Service. I destroy Cor.

H-6 and its witnesses; and, for cor. No. 3 of this survey, I set a limestone 28 x 12 x 9 ins., 18 ins. in the ground, over (+) on a stone 4 x 3 x 2 ins.

chiseled (+) at the point and 3-HES196 on the S. face and raise a mound of stone 2 ft. base, 1-1/2 ft. high S. of cor. from which:

A 12 in. pine scribed 3 H E S 196 + B T

bears S. 64° 45' E., 94 lks.

A 26 in. pine scribed 3 H E S 196 + B T

bears N. 37° 30' W., 32 lks.

Thence S. 64° 15' E.

Along line H-6 to H-5 of List 3-2695.

chiseled (+) at the point and 3-HES196 on the S. face

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA

Chains	Over bottom in edge of scattering pine timber.	chains
8.89	To Cor. No. 4.	
	<p>Identical with Cor. H-5 of List 3-2695 which is a limestone 16 x 12 x 6 ins. above ground marked and witnessed as described by the Forest Service. I destroy Cor. H-5 and its witnesses; and, for cor. No. 4 of this survey, I set a limestone 28 x 16 x 12 ins., 18 ins. in the ground, over (+) on a stone 4 x 4 x 2 ins. chiseled (+) at the point and 4-HES196 on the SE. face and raise a mound of stone 2 ft. base, 1-1/2 ft. high SE. of cor. from which:</p>	
	An 18 in. pine scribed 4 H E S 196 + BIT	
	bears N. 56° 40' E., 57 lks.	
	An 18 in. pine scribed 4 H E S 196 + BIT	
	bears S. 41° 30' E., 67 lks.	
	Thence N. 22° 54' E.	
	Along line H-5 to H-4 of List 3-2695.	
	Ascend SW. slope 25 ft. in edge of scattering pine	
	timber.	
6.20	Spur bears NW. and SE. Descend NE. slope 30 ft. in	
	scattering pine timber.	
17.40	To Cor. No. 5.	
	<p>Identical with Cor. H-4 of List 3-2695 which is a sandstone 6 x 4 x 20 ins. above ground marked and witnessed as described by the Forest Service. I destroy Cor. H-4 and its witnesses; and, for cor. No. 5 of this survey, I set a sandstone 36 x 7 x 6 ins., 26 ins. in the ground, over (+) on a stone 3 x 3 x 2 ins., chiseled (+) at the point and 5-HES196 on the SE. face</p>	

Chains

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

SE. of cor. from which:

A 14 in. pine scribed 5 H E S 196 + B T
bears N. 53° W., 10 lks.
A 10 in. pine scribed 5 H E S 196 + B T
bears N. 8° 15' E., 23 lks.

Thence S. 88° 53' E.

Along line H-4 to H-3 of List 3-2695.

Over bottom in open.

0.40 Left bank Brookbank arroyo, 40 lks. wide, banks 4 ft. high, course N.

6.00 Leave opening bears NW. and SE., and enter scattering pine timber.

9.10 Leave bottom bears N. and S. and ascend W. slope 30 ft. in timber.

15.27 To Cor. No. 6.

At this point, -I set a limestone 28 x 12 x 5 ins., 18 ins. in the ground, over (+) on a stone 4 x 3 x 2 ins., chiseled (+) at the point and 6-HES196 on the SW. face and raise a mound of stone 2 ft. base, 1-1/2 ft. high. SW. of cor. from which:

A 9 in. pine scribed 6 H E S 196 + B T
bears S. 71° 15' W., 58 lks.

An 18 in. pine scribed 6 H E S 196 + B T
bears N. 37° 30' W., 33 lks.

I destroy cor. H-3 of List 3-2695 which is a limestone

7 x 2 x 9 ins. above ground marked and witnessed as

described by the Forest Service and bears S. 88° 53' E.

74 lks. dist. from Cor. No. 6.

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA

Chains

Thence S. 31° 10' W.

Enter List 3-2695.

Along rolling NW. slope in edge of timber.

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

AREA

Total Area 159.89 Acres

IMPROVEMENTS

The improvements made upon this homestead consist of the following:

A log dwelling 38 x 36 ft., the long side extending NE. and SW. and the S. cor. of which bears N. 9° 30' E., 43.00 chs. dist. from Cor. No. 1.

Value \$1,000.00

A log shed 28 x 16 ft., the long side extending NE. and SW. and the S. cor. of which bears N. 11° 05' E., 42.39 chs. dist. from Cor. No. 1.

Value \$100.00

A log cellar 12 x 12 ft., the long side extending NW. and SE., and the S. cor. of which bears N. 11° 05' E., 41.93 chs. dist. from Cor. No. 1.

Value \$ 50.00

A log dwelling 20 x 14 ft., the long side extending NW. and SE., and the S. cor. of which bears N. 11° 05' E., 41.28 chs. dist. from Cor. No. 1.

Value \$200.00

A frame barn 28 x 22 ft., the long side extending NW. and SE., and the S. cor. of which bears N. 10° 20' E., 39.60 chs. dist. from cor. No. 1.

Value \$250.00

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A well 3 ft. dia. and 18 ft. deep, the center of which bears N. 14° 00' E., 40.16 chs. dist. from cor. No. 1.

Value \$50.00

Approximately 3 miles of wire fencing mostly on the outside of the claim.

Value \$200.00

There is approximately 20 acres of cultivated land.

DESCRIPTION

This claim is situated on the N. slope of the Mogollon mesa at an elevation of approximately 6900 ft., and occupies a tract of bottom land along Brookbank Canyon which drains northward.

This section is timbered and a fringe of trees is included in this survey. Sufficient water for domestic purposes and cattle is obtained from wells near the Brookbank arroyo.

The bottom soil is a sandy loam and produces the ordinary crops of the temperate zone without irrigation. A garden is irrigated from the well; but this soil is no doubt best adapted for corn, potatoes and the sorghums. The slopes are stony; but for the most part they are agricultural.

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

There are no conflicts or adjoining claims. 2.94 acres of listed land along the W. bdy. of List 3-2695 were excluded from this survey so that the area would not exceed the statutory limit of 160 acres.

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA

Chains

Heber postoffice is 14 miles by wagon road in a north-easterly direction. Holbrook railway station is 60 miles by wagon road in a northeasterly direction.

July 10, 1914.

TRAVERSE

Cor.	Course	Dist.	N.	S.	E.	W.
1-2	N. 57° 55' W.	20.62	10.95			17.47
2-3	N. 32° 04' E.	66.00	55.93		35.04	
3-4	S. 64° 15' E.	8.89		3.86	8.01	
4-5	N. 22° 54' E.	17.40	16.03		6.77	
5-6	S. 88° 53' E.	15.27		0.30	15.27	
6-1	S. 31° 10' W.	92.03		78.75		47.63
			220.21	82.91	82.91	65.09
					82.91	65.09
Error in Lat. and Dep.				0.00		0.01

Closing error 1:22021.

Walter J. Purley
Surveyor - Forest Service.

STATE OF ARIZONA NATIONAL FOREST

STATE OF ARIZONA

Chains

Chains

Heber postoffice is 14 miles by wagon road in a north-
easterly direction. Holbrook relay station is
60 miles by wagon road in a northeasterly direction.
July 10, 1914.

TRAVERSE

Cor.	Course	Dist.	N.	S.	E.	W.
1-2	N. 57° 55' W.	20.82	10.92			17.47
2-3	N. 32° 04' E.	68.00	52.92		38.04	
3-4	S. 64° 13' E.	8.82		3.86	8.01	
4-5	N. 22° 54' E.	17.40	16.03		6.77	
5-6	S. 88° 53' E.	16.87		0.30	15.27	
6-1	S. 31° 10' W.	22.03		18.75		47.83
		220.21	82.91	82.91	62.08	62.10
			82.91			62.09
			0.00			0.01

Closing error 1:22021.
Error in lat. and Dep.

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.

John Nelson - Sitgreaves

TABLING AND CALCULATIONS OF HOMESTEAD ENTRY SURVEY NO. 196, STATE OF ARIZONA

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.		N. AREAS.		S. AREAS.	
			NORTH.	SOUTH.	EAST.	WEST.						
84728 53115 1-2	N. 57° 55' W.	20.62	10 95			17 47	17 47	191 30				
53091 84745 2-3	N. 32° 04' E.	66.00	55 93		35 04	35 04	35 04	1959 79				
90070 45045 3-4	S. 64° 15' E.	8.89		3 86	8 01	78 09	78 09			301 43		
38912 92119 4-5	N. 22° 54' E.	17.40	16 03		6 77	92 87	92 87	1488 71				
99981 07949 5-6	S. 88° 53' E.	15.27		0 30	15 27	114 91	114 91			34 47		
51753 85567 6-1	S. 31° 10' W.	92.03		78 75		47 63	82 56			6501 60		
		220.21	82 91	82 91	65 09	65 10		3639 80		6837 50		
			82 91	82 91	65 09	65 09				3639 80		
								Area		3197 70		
	Closing error 1:22021									159 89		

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СЕРИЯ ИМ - ПОСЛЕД

СЕРИЯ ИМ - ПОСЛЕД

СЕРИЯ ИМ - ПОСЛЕД

СЕРИЯ ИМ	ПОСЛЕД	ПОСЛЕД	ПОСЛЕД	ДЕТАЛИ		ДЕТАЛИ		СОСТАВ	СОСТАВ	СОСТАВ	СОСТАВ
				ПОСЛЕД	ПОСЛЕД	ПОСЛЕД	ПОСЛЕД				
33	302	302	302	302	302	302	302	302	302	302	302
33	302	302	302	302	302	302	302	302	302	302	302
33	302	302	302	302	302	302	302	302	302	302	302

СЕРИЯ ИМ - ПОСЛЕД

СЕРИЯ ИМ - ПОСЛЕД

7

APPROVAL

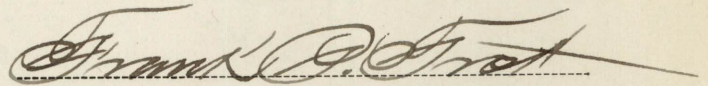
Office of the United States Surveyor General,

Phoenix, Arizona, March 20, 1917.

The foregoing field notes of Homestead Entry Survey No.

196

executed by **Walter G. Turley, Surveyor Forest Service**
[Forest Service Title.]
under his special instructions, dated **June 10**, 19**14**, 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.