

U. S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE

FIELD NOTES

OF

O.K.

HOMESTEAD ENTRY SURVEY NO. 181

SITUATED IN THE

SITGREAVES NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

in

~~Section 28, unsurveyed, Township 12 N., Range 17 E.,~~

~~Section 29, unsurveyed, Township 12 N., Range 17 E.,~~

Section 32, unsurveyed, Township 12 N., Range 17 E.,

Section 33, unsurveyed, Township 12 N., Range 17 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 August 3, 1914

Survey completed August 6, 1914

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

Applicant for listing John E. Palmer,

Residence Heber, Arizona

Application No. 145 dated May 30, 1909,

Application No. 145(Suppl) dated November 26, 1910.

List No. 3-906 dated December 12, 1910

List No. 3-1300, dated May 13, 1911

Applicant for survey John E. Palmer,

Residence Heber, Arizona

H. E. No. 014671, dated June 29, 1911

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. 181, in
~~unsurveyed Section 28~~, Township 12 N., Range 17 E.,
~~unsurveyed Section 29~~, Township 12 N., Range 17 E.,
unsurveyed Section 32, Township 12 N., Range 17 E.,
unsurveyed Section 33, Township 12 N., Range 17 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 inconvenient and ex-
pensive to appear before
an officer to administer
the oaths to Assistants,
hence, they were taken
by the Surveyor.

Charles D. Hodson Chainman.
Charles Y. Baecht Chainman.

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

Walter G. Turley
Surveyor - Forest Service

OATH OF SURVEYOR

Service

I, Walter G. Turley, Surveyor - Forest, 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, sur-
veyed a tract of land ~~upon the application of~~ embraced in Lists
No. 3-906 and, No. 3-1300 dated December 12, 1910 and May 13,
1911 for PATENT, under the Act of June 11, 1906
the same to be known as Homestead Entry Survey No. 181,
situated within the SITGREAVES National Forest, in
~~unsurveyed Section 28~~, Township 12 N., Range 17 E., and
~~unsurveyed Section 29~~, Township 12 N., Range 17 E.,
unsurveyed Section 32, Township 12 N., Range 17 E.,
unsurveyed Section 33, Township 12 N., Range 17 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 perpet-
uated in strict accordance with the stated special instruc-
tions, 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 16th day of
November, 1914.



my commission expires April 6/1918 R. B. Callie
Notary Public

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA

Chains

Applicant for listing, John E. Palmer; application No. 145, dated May 30, 1909 and Supplemental Application No. 145, dated November 26, 1910; Lists No. 3-906 and 3-1300, dated December 12, 1910 and May 13, 1911; H. E. No. 014671 embracing List No. 3-906, made in the Phoenix Land Office on June 29, 1911 by John E. Palmer, whose post office address is 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. 181.

Situated in what will probably be, when surveyed, secs. 32 and 33, T. 12 N., R. 17 E., Gila and Salt River Base and Meridian, within the Sitgreaves National Forest, Arizona.

Survey commenced August 3, 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

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA

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

August 3, 1914.

I set up my transit over cor. H-11 of List No. 3-920, which is a pine post 4 ins. dia. and 24 ins. above ground, marked and witnessed as described by the Forest Service; and, with telescope direct, I observe Polaris in accordance with instructions at 8h. 00m. p.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.

Astron. l.m.t. obsn., August 2, 1914, 32h. 00.0m.

Astron. l.m.t. U.C. Pol., Aug. 2, 1914, 16h. 44.1m.

Hour angle Pol. at obsn., 15h. 15.9m.

23h. 56.1m.

Time argument, 8h. 40.2m.

Azimuth Pol. at obsn., 1° 03' 18" E.

Lat. 34° 23' 52" N., Long. 110° 33' 52" W.

With my transit set up over cor. H-11 of List No.

3-920, heretofore described, and the telescope re-

versed in altitude and azimuth, at 8h. 12m. p.m.,

l.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.

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA

Chains

Astron. l.m.t., obsn., Aug. 2, 1914 32h. 12.0m.

Astron. l.m.t., U. C. Pol., Aug. 2, 1914 16h. 44.lm.

Hour angle Pol. at obsn. 15h. 27.9m.

Time argument 23h. 56.lm.

Azimuth of Pol. at obsn. 1° 06' 00" E.

August 3, 1914.

August 4, 1914.

I turn off 1° 03', the azimuth of Polaris, to the W.

from her direction at 8h. 00m., p.m., l.m.t., August

3, 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° 06', the azimuth of Polaris, to the

W. from her direction at 8h. 12m., p.m., l.m.t.,

on the same date; 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' 54" of

measured arc to the W. of the line previously estab-

lished.

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 stated in these field notes were deflected

and referred by continuous sustained angulation.

Note: The sun has been obscured during working hours and

Polaris also, therefore it has not been possible to

check this meridian observation since August 3, 1914.

Cor. H-11 of List No. 3-920, which is now Cor. No. 5

of H. E. S. No. 180 bears S. 0° 16' W. 4.95 chs. dist.

from Cor. H-4 of List No. 3-906, which will be Cor.

No. 2 of this survey.

August 4, 1914

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA

Chains August 6, 1914.
 34° 24' 13" N., Lat. and 110° 29' 45" W., Long., at
 Cor. of Secs. 25, 30, 31 and 36, T. 12 N., Rs. 17
 and 18 E., taken from the special instructions of
 the Surveyor General, which gives 34° 24' 21" N., Lat.,
 and 110° 33' 51" W., Long., at Cor. No. 1 of this
 survey. The sun was obscured at apparent noon on

August 6, 1914, therefore a latitude observation
 was not possible.

On August 3, 1914, I compared my watch by telephone with
 the standard 105° meridian telegraphic clock and found
 it correct. I subtract 22m. 15s. therefrom for l.m.t.
 I observe the magnetic declination at Cor. No. 1 of this
 survey to be 14° 50' E., at 8h. 10m., a.m., l.m.t.,
 August 6, 1914, which gives a mean magnetic declina-
 tion of 14° 46' E.

There is no corner of the public land survey within
 two miles of this claim, therefore this claim is tied
 to U. S. L. M. No. 180 H. E. S., which I established

on August 4, 1914, and is located upon a prominent
 point near what will probably be, when surveyed, the
 NE. corner of Sec. 33, T. 12 N., R. 17 E., Gila and
 Salt River Base and Meridian, approximately 17.00
 chs. north of the main E. and W. wagon road. A
 cross (+) chiseled at the point and U. S. L. M. No.
 180 H. E. S. on the NW. face of an imbedded limestone
 8 x 7 x 4 ft. above ground, with a mound of stone
 6 ft. base, 4 ft. high S. of cor. from which

A 7 in. pine scribed U S L M No. 180 H E S + B T
 bears N. 14° 00' E. 25 lks.

A 7 in. pine scribed U S L M No. 180 H E S + B T
 bears N. 81° 25' E. 17 lks.

*repetition of record in 189, brief
 reference here is all that is
 here required*

Chains

An 18 in. pine scribed U.S.L.M No. 180 H.E.S + B.T
bears N. 84° 50' W. 43 lks.

An 18 in. pine scribed U.S.L.M No. 180 H.E.S + B.T
bears N. 60° 15' W. 71 lks.

S. 80° 55' W. 2.98 chs. to cor. No. 1, H. E. S.
No. 180.

N. 65° 23' W. 44.45 chs. to cor. No. 1, H. E. S.
No. 181.

S. 34° 00' E. 34.52 chs. to cor. No. 1, H. E. S.
No. 246.

34° 23' 52" Lat. and 110° 33' 19" W., Long.,

scaled from the Atlas sheet.

Note: This section of country is a high mesa covered
with timber, therefore no prominent natural objects
are visible from any point in this vicinity.

Thence N. 65° 23' W. 44.45 chs. to cor. No. 1, H. E. S.

By direct measurement on a random for a tie
44.45 To Cor. No. 1, H. E. S.

Identical with cor. H-1 of List No. 3-906, which is a

limestone 10 x 5 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. 1

of this survey, I chiseled 1-HES181 on the SW. face of

the sandstone 18 x 16 x 10 ins. above ground which I

previously set for cor. No. 6 of H. E. S. No. 180 and

is chiseled (+) at the point and 6-HES180 on the SSE.

face with pits 24 x 24 x 12 ins. crosswise on line

west, south and S. 37° 21' E. 8 ft. dist. with a

mound of earth 4 ft. base, 2 ft. high SSE. of cor.

from which

which

Chains

A 30 in. pine scribed 6 H E S 180 and 1 H E S 181 + B T bears S. 75° 26' E. 195 lks.

A 30 in. pine scribed 6 H E S 180 and 1 H E S 181 + B T bears N. 65° 57' W. 98 lks.

Thence S. 0° 16' W.

Along line 6-5 of H. E. S. No. 180 also wire fence.

Descend gentle S. slope 10 ft. in open.

29.11 Wire fence cor. from which the fence bears N., S., and W., cease descending and ascend gentle N. slope 5 ft.

44.15 To Cor. No. 2. Identical with cor. H-4 of List 3-906 which is a pine post 4 ins. dia., and 24 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 3 x 2 ins. and deposit it 15 ins. in the ground, over which I set a sandstone 25 x 14 x 5 ins., 15 ins. in the ground chiseled (+) at the point and 2-HES181 on the NW. face and dig pits crosswise on this and the succeeding course 8 ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high NW. of cor. from which

An 8 in. pine scribed 2 H E S 181 + B T bears N. 11° 37' W. 264 lks.

A 24 in. pine scribed 2 H E S 181 + B T bears S. 61° 22' E. 451 lks.

Cor. No. 5 of H. E. S. No. 180 bears S. 0° 16' W. 4.95 chs. dist. and is a sandstone 15 x 8 x 10 ins. above ground with pits crosswise on line E. and N. of cor. 7 ft. dist. and mound of earth 4 ft. base, 2 ft. high NE. of cor. from which

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA

Chains

A 10 in. pine scribed 5 H E S 180 + B T

bears S. 36° 14' W. 408 lks.

A 7 in. juniper scribed 5 H E S 180 + B T

bears S. 60° 06' E., 272 lks.

Thence N. 89° 53' W.

Over bottom in open along wire fence

0.60' Wire fence bears N.

3.01 Wire fence bears W. and N. continue along wire fence.

23.86 To Cor. No. 3.

Identical with cor. H-3 of List 3-906 which is a pine

post 4 ins. dia. and 24 ins. above ground 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 chisel (+) on a stone 4 x 3 x 2 ins. and

deposit it 18 ins. in the ground over which I set

a sandstone 28 x 18 x 8 ins. 18 ins. in the ground

chiseled (+) at the point and 3-HES181 on the NE. face

and dig pits 24 x 24 x 12 ins. crosswise on this and

the succeeding course 7 ft. dist. and raise a mound

of earth 4 ft. base, 2 ft. high NE. of cor. from

which

A 22 in. pine scribed 3 H E S 181 + B T

bears N. 82° 35' W., 78 lks.

A 10 in. pine scribed 3 H E S 181 + B T

bears S. 45° 49' W., 77 lks.

Thence N. 20° 25' W.

Along wire fence, over bottom in edge of scattering

pine timber.

18.51 To Cor. No. 4.

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA

Chains

Identical with cor. H-4 of List 3-1300 which is a sandstone 6 x 6 x 6 ins. 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 (+) on a stone 4 x 3 x 2 ins. and deposit it 14 ins. in the ground over which I set a sandstone 24 x 10 x 10 ins., 14 ins. in the ground, chiseled (+) at the point and 4-HES181 on the NE.

face and dig pits 24 x 24 x 12 ins. crosswise on this and the succeeding course 3-1/2 ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high NE. of cor. from which,

A 30 in. pine scribed 4 H E S 181 + B T bears S. 46° 54' W. 10 lks.

A 22 in. pine scribed 4 H E S 181 + B T bears S. 85° 19' E. 48 lks.

Thence N. 89° 24' W.

Leave List 3-906 and enter List 3-1300.

Along wire fence over bottom in scattering pine timber.

18.91 To Cor. No. 5.

Identical with cor. H-3 of List 3-1300 which is a sandstone 12 x 10 x 6 ins. above ground marked and witnessed as described by the Forest Service. I destroy cor. H-3 and its witnesses, and for cor. No.

5 of this survey, I chisel (+) on a stone 4 x 4 x 2 ins. and deposit it 16 ins. in the ground over which I set a sandstone 26 x 18 x 10 ins. 16 ins. in the ground chiseled (+) at the point and 5-HES181 on the NE. face

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA

Chains

and dig pits 24 x 24 x 12 ins. crosswise on this and the succeeding course 7 ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high, 3-1/2 ft. NE. of cor. from which

A 16 in. pine scribed 5 H E S 181 + B T bears S. 62° 30' E. 90 lks.

A 20 in. pine scribed 5 H E S 181 + B T bears S. 37° 53' W. 76 lks.

Thence N. 0° 30' E.

Along wire fence over bottom in scattering pine timber.

10.00 To Cor. No. 6.

Identical with cor. H-2 of List 3-1300 which is a sandstone 14 x 10 x 8 ins. above ground marked and witnessed as described by the Forest Service. I destroy cor. H-2 and its witnesses and for cor. No. 6 of this survey I chisel (+) on a stone 4 x 3 x 2 ins. and deposit it 14 ins. in the ground, over which I

set a sandstone 24 x 18 x 6 ins. chiseled (+) at the point and 6-HES181 on the SE. face and dig pits 24 x 24 x 12 ins. crosswise on this and the succeeding course 7 ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high SE. of cor. from which

A 30 in. pine scribed 6 H E S 181 + B T bears S. 76° 39' E. 114 lks.

A 24 in. pine scribed 6 H E S 181 + B T bears N. 44° 10' E. 79 lks.

Thence S. 89° 33' E.

Along wire fence over bottom in scattering pine timber.

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA

Chains

15.04 To Cor. No. 7.

Identical with cor. H-1 of List 3-1300 which is a sandstone 10 x 6 x 5 ins. above ground, marked and witnessed as described by the Forest Service. I destroy cor. H-1 and its witnesses and for cor. No. 7 of this survey, I chisel (+) on a stone 4 x 3 x 2 ins. and deposit it 14 ins. in the ground, over which I set a sandstone 24 x 10 x 6 ins., 14 ins. in the ground chiseled (+) at the point and 7-HES181 on the SE. face and dig pits 24 x 24 x 12 ins. crosswise on this and the succeeding course 3-1/2 ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high SE. of cor.

from which

A 24 in. pine scribed 7 H E S 181 + B T
bears N. 10° 45' E., 124 lks.

A 20 in. pine scribed 7 H E S 181 + B T
bears N. 67° 33' W., 48 lks.

Note: This cor. is on line H-3 to H-2 of List 3-906.

Thence N. 20° 25' W.

Leave List 3-1300 and enter List 3-906.

Along wire fence over bottom land in scattering pine timber.

17.85 To Cor. No. 8.

Identical with cor. H-2 of List 3-906 which is a limestone 12 x 5 x 5 ins. above ground marked and witnessed as described by the Forest Service. I destroy cor. H-2 and its witnesses and for cor. No. 8 of this survey I chisel (+) on a stone 4 x 3 x 3 ins. and deposit it 16 ins. in the ground over which I set a

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA

Chains

... sandstone 26 x 16 x 8 ins., 16 ins. in the ground,
 00.038 chiseled (+) at the point and 8-HES181 on the SE.
 face and dig pits 24 x 24 x 12 ins. crosswise on this
 and the succeeding course 8 ft. dist. and raise a
 mound of earth 4 ft. base, 2 ft. high SE. of cor.
 00.038 from which
 20 in. pine scribed 8 H E S 181 + B T
 bears S. 7° 39' E. 224 lks.
 An 18 in. pine scribed 8 H E S 181 + B T
 bears N. 11° 02' W. 140 lks.
 Thence S. 89° 55' E. 30' W. 30' W. 30' W.
 00.038 Along line H-2 to H-1 of List 3-906 and wire fence.
 Ascend gentle S. slope 5 ft. in open.
 40.53 To Cor. No. 1, the place of beginning.

00.000 **Total Area** 159.12 Acres

IMPROVEMENTS

The improvements made upon this homestead consist of the following:
 A log milk house 16 x 16 ft., the long side extending E. and W., and the SE. cor. of which bears N. 57° 00' W., 2.52 chs. dist. from cor. No. 2. of this survey.
 Value \$75.00
 A log barn 30 x 20 ft., the long side extending N. and S. and the SE. cor. of which bears N. 43° 30' W.,

Chains

2.74 chs. dist. from cor. No. 2 of this survey.

Value \$250.00

A log barn 45 x 20 ft., the long side extending E. and W. and the SE. cor. of which bears N. 33° 00' W.,

3.50 chs. dist. from cor. No. 2 of this survey.

Value \$350.00

A one and one-half story frame dwelling 20 x 16 ft., the long side extending E. and W. and the SE. cor. of which bears N. 79° 10' W., 6.728 chs. dist. from cor. No. 2 of this survey.

Value \$750.00

From Cor. No. 2

N. 37° 30' W. 7.20 chs. dist. to the center point of a reservoir embankment 4 ft. high, which extends 2.00 chs. S. and 2.45 chs. W. from the point of bearing.

Estimated capacity 1/2 acre feet.

Value \$150.00

Approximately 3 miles of wire fencing.

Value \$300.00

Approximately 62 acres of cultivated land.

DESCRIPTION

This claim is situated on the N. slope of the Mogollon Mesa at an elevation of approximately 6,500 ft. and occupies a tract of bottom land sloping gently to the eastward.

This section is timbered and a few trees are included in this survey. Sufficient water for domestic purposes and for stock is impounded in small reservoirs or hauled from Pierce Seep, a perennial spring about one and one-half miles east of this homestead.

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA

Chains

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

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

Homestead Entry Survey No. 180 adjoins this claim on the East. Line 6-5 of H. E. S. No. 180 lies along line 1-2 of this survey, cors. 6 and 1 being identical. There are no conflicts.

Heber postoffice is 5 miles by wagon road in a northwesterly direction. Holbrook railway station is 55 miles by wagon road in a northeasterly direction.

August 6, 1914.

TRAVERSE

Cor.	Course	Dist.	N.	S.	E.	W.
1-2	S. 0° 16' W.	44.15		44.15		0.20
2-3	N. 89° 53' W.	23.86	0.05			23.86
3-4	N. 20° 25' W.	18.51	17.35			6.46
4-5	N. 89° 24' W.	18.91	0.20			18.91
5-6	N. 0° 30' E.	10.00	10.00		0.09	
6-7	S. 89° 33' E.	15.04		0.12	15.04	
7-8	N. 20° 25' W.	17.85	16.73			6.23
8-1	S. 89° 55' E.	40.53		0.06	40.53	
		188.85	44.33	44.33	55.66	55.66
Error in Lat. and Dep.			44.33		55.66	
			0.00		0.00	

Closing Error 1:0000

Walter J. Purley
Surveyor- Forest Service.

Chains

The soil is a clay loam and produces the ordinary crops of the temperate zone without irrigation, but is best adapted to the small grains, beans, and sorghums, crops of which have been raised.

This section is not reported to be mineralized and no townships, mining, coal or oil claims are known to have been located in this vicinity.

Homestead Entry Survey No. 180 adjoins this claim on the East. Line 6-5 of H. E. S. No. 180 lies along line 1-2 of this survey, cor. 6 and 1 being identical. There are no conflicts.

Here postoffice is 5 miles by wagon road in a northerly direction. Holbrook railway station is 5 miles by wagon road in a northeasterly direction.

August 6, 1914.

TRAVELER

Cor.	Course	Dist.	N.	S.	E.	W.
1-2	S. 0° 16' W.	44.15		44.15		0.20
2-3	N. 89° 34' W.	23.88	0.03			23.86
3-4	N. 20° 25' W.	18.91	17.35			6.46
4-5	N. 89° 24' W.	18.91	0.20			18.91
5-6	N. 0° 30' E.	10.00			0.09	
6-7	S. 89° 32' E.	18.04		0.12	18.04	
7-8	N. 20° 25' W.	17.85	16.78			6.23
8-1	S. 89° 25' E.	40.53		0.08	40.53	
		188.86	44.38	44.38	55.66	55.66
Error in Lat. and Dep.		0.00	44.38	44.38	55.66	55.66
Closing Error 1:0000			0.00		0.00	

[Signature]
Surveyor - Forest Service.

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA

Detailed Computations.

Chains

34° 24' 13" N. Lat., at cor. to secs. 25, 30, 31 and 36,
T. 12 N., Rs. 17 and 18 E., taken from the special in-
structions of the Surveyor General.

$$\frac{12.00}{80.00} \times 0.871 = 0.13063 = 07.84''.$$

$$0^{\circ} 00' 08''$$

34° 24' 21" N., Lat. at cor. No. 1 of this survey.

110° 29' 45" W., Long. at cor. to secs. 25, 30, 31 and
36, T. 12 N., Rs. 17 and 18 E., taken from the special
instructions of the Surveyor General.

$$0^{\circ} 04' 06''$$

110° 33' 51" W., Long. at cor. No. 1 of this survey.

$$312.00 \times \frac{378.06}{480.00} = 245.74, \text{ Westing.}$$

110° 33' 51" W., Long. = 7h. 22m. 15s. of time.

Polaris obsn. August 3, 1914, at 8h. 00m. p.m. l.m.t.,
cor. No. 5, H. E. S. 180, telescope direct.

4h. 45.3m. a.m., Greenwich m.t., U.C. Pol., Aug. 3, 1914.

$$01.2m.$$

4h. 44.1m. a.m., l.m.t. U.C. Pol., August 3, 1914

16h. 44.1m. astron. l.m.t. U. C. Pol. August 2, 1914.

32h. 00.0m. astron. l.m.t. obsn., August 2, 1914.

15h. 15.9m., Hour angle Pol. at obsn.

23h. 56.1m.

8h. 40.2m., time argument.

88° 50' 45.9", decl. Pol., August 3, 1914.

$$\text{Interpolate in G. L. O. Ephemeris, } \frac{7.6}{7.8} \times 1.8 = 1.8$$

63.3', Azimuth. 1° 03' 18" E., Azimuth Pol. at obsn.

Polaris obsn. August 3, 1914, at 8h. 12m. p.m., l.m.t.,
cor. No. 5, H. E. S. 180, telescope reversed in
altitude and azimuth.

4h. 45.3m. a.m., Greenwich m.t. U.C. Pol., Aug. 3, 1914.

$$01.2m. \quad , \text{ Sidereal correction.}$$

4h. 44.1m. a.m., l.m.t. U.C. Pol., August 3, 1914.

16h. 44.1m., astron. l.m.t., U.C. Pol., August 2, 1914.

32h. 12.0m., astron. l.m.t. obsn., August 2, 1914.

15h. 27.9m., hour angle Pol. at obsn.

23h. 56.1m., time argument.

8h. 28.2m., time argument.

88° 50' 45.9", decl. Pol., August 3, 1914.

$$\text{Interpolate in G. L. O. Ephemeris, } \frac{40}{84} \times 1.8 = 0.9$$

66.0 Azimuth. 1° 06' 00" E., Azimuth Pol. at obsn.

NATIONAL FOREST

STATE OF

Chains	Detailed Computations	Chains
	<p>34° 24' 18" E. Lat., at cor. to sec. 22, 20, 21 and 26, T. 12 N., R. 17 and 18 E., taken from the special instructions of the Surveyor General.</p> $\frac{18.00}{80.00} \times 0.871 = 0.1568 = 07.84"$ <p>110° 38' 51" W., Lat. at cor. No. 1 of this survey.</p> <p>110° 38' 45" W., Long. at cor. to sec. 22, 20, 21 and 26, T. 12 N., R. 17 and 18 E., taken from the special instructions of the Surveyor General.</p> $\frac{110.00 \times 378.06}{480.00} = 845.74 \text{ Westing.}$ <p>110° 38' 51" W., Long. = 78.82m. lbs. of time.</p> <p>Polaris obsn. August 2, 1914, at 8h. 00m. p.m. I.M.T., cor. No. 2, H. S. 180, telescope direct.</p> <p>4h. 46.3m. a.m., Greenwich mt., U.C. Pol., Aug. 3, 1914.</p> $\frac{41.44 \text{ m. a.m. I.M.T. U.C. Pol., August 2, 1914}}{41.44 \text{ m. a.m. I.M.T. U.C. Pol., August 2, 1914}}$ <p>1st. 44.1m. astron. I.M.T. U.C. Pol., August 2, 1914.</p> $\frac{22h. 00.0m. astron. I.M.T. obsn., August 2, 1914}{1st. 12.5m., hour angle Pol. at obsn.}$ $\frac{22h. 00.0m.}{22h. 00.0m.}$ <p>8h. 40.2m., time argument.</p> <p>88° 50' 45.9", decl. Pol., August 2, 1914.</p> <p>Interpolate in C. I. C. Ephemeris, $\frac{7.6}{7.8} \times 1.8 = 1.8$</p> <p>88.8', Azimuth. 1° 02' 18" E., Azimuth Pol. at obsn.</p> <p>Polaris obsn. August 2, 1914, at 8h. 12m. p.m. I.M.T., cor. No. 2, H. S. 180, telescope reversed in altitude and azimuth.</p> <p>4h. 46.3m. a.m., Greenwich mt., U.C. Pol., Aug. 3, 1914.</p> $\frac{41.44 \text{ m. a.m. I.M.T. U.C. Pol., August 2, 1914}}{41.44 \text{ m. a.m. I.M.T. U.C. Pol., August 2, 1914}}$ <p>1st. 44.1m. astron. I.M.T. U.C. Pol., August 2, 1914.</p> $\frac{22h. 12.0m. astron. I.M.T. obsn., August 2, 1914}{1st. 12.5m., hour angle Pol. at obsn.}$ $\frac{22h. 12.0m.}{22h. 12.0m.}$ <p>8h. 38.2m., time argument.</p> <p>88° 50' 45.9", decl. Pol., August 2, 1914.</p> <p>Interpolate in C. I. C. Ephemeris, $\frac{4.0}{4.0} \times 1.8 = 0.9$</p> <p>88.0 Azimuth. 1° 02' 00" E., Azimuth Pol. at obsn.</p>	

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. I. O.

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

John E. Palmer-Sitgreaves

TABLING AND CALCULATIONS OF HOMESTEAD ENTRY SURVEY NO. 181, STATE OF ARIZONA

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.		N. AREAS.	S. AREAS.	
			NORTH.	SOUTH.	EAST.	WEST.					
50465 1-2	S. 0° 16' W.	44.15	0	44	0	20	98	66	3	4355	84
.00204 2-3	N. 89° 53' W.	23.86	0	05	23	86	74	60	73		
34884 3-4	N. 20° 25' W.	18.51	17	35	6	46	44	28	768		
57047 4-5	N. 89° 24' W.	18.91	0	20	18	91	18	91	3		
52873 5-6	N. 0° 30' E.	10.00	10	00	0	09	0	09	0		
50286 6-7	S. 89° 33' E.	15.04	0	12	15	04	15	22	0	1	83
54884 7-8	N. 20° 25' W.	17.85	16	73	6	23	24	03	402		
50146 8-1	S. 89° 55' E.	40.53	0	06	40	53	58	33	02	3	50
		188.85	44.33	44.33	55.66	55.66			1178	4361	17
			44.33	44.33	55.66	55.66			1178	1178	69
									Area	3182	48
										159	12
	Closing Error 1:000.										

T.A.

APPROVAL

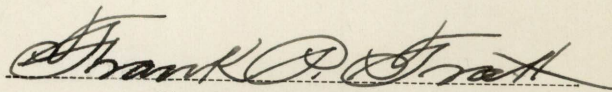
Office of the United States Surveyor General,

Phoenix, Arizona, June 12, 1916.

The foregoing field notes of Homestead Entry Survey No.

181

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