U. S. DEPARTMENT OF AGRICULTURE

FOREST SERVICE

AUG. 2-1917

FIELD NOTES

OF

MAN. 20. 18 8

HOMESTEAD ENTRY SURVEY NO: 481

SITUATED IN THE

APACHE

NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

In Section 34 , unsurveyed, Township $4\frac{1}{2}$ N. Range 29 E. In Section 35 , unsurveyed, Township $4\frac{1}{2}$ N., Range 29 E.

of the

Gila and Salt River Base and Meridian.

State of

ARIZONA

Applicant for listing Hiram Thompson,

Residence

Alpine, Arizona

Application No. 302

November 28 , dated

, 1913

List No. 3-3011

, dated

January 15

, 1914/

Applicant for survey Hiram Thompson,

Residence

Alpine, Arizona

H. E. No. 025385 , dated July 3

, 1914

Office

Land District

Phoenix, Arizona

Survey executed by R. P. A. Johnson, Surveyor - Draftsman [Forest Service Title.]

Under special instructions dated

June 21

, 1916

Survey commenced

September 5 , 1916

Survey completed

September 5

, 1916 0113

Under Acts of June 11, 1906 and August 11, 1916

[OVER]

2

STATE OF ARIZONA

Chains

- Applicant for listing, Hiram Thompson; Application No. 302, dated November 28,1913 List No. 3-3011, dated January 15, 1914; H. E. 025385, made in the Phoenix Land Office on July 3, 1914 by Hiram Thompson.
- Surveyed under special instructions from the Surveyor General for Arizona, dated June 21, 1916 and designated as Homestead Entry Survey No. 481.
- Situated in what will probably be, when surveyed, secs.

 34 and 35, T. 4-1/2 N., R. 29 E., Gila and Salt River

 Base and Meridian, Apache National Forest, Arizona.

 Surveyed under the Acts of June 11, 1906 and August 11,

 1916.
- Survey commenced September 5, 1916 and executed with a Buff and Buff transit 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.

September 5, 1916, p.m.

I observe the altitude of the sun for azimuth at cor.

No. 3 of this survey, hereinafter described. The reading on the reference object is set at zero and the sun was observed in the upper left and lower right quadrants of the field. My watch is set for local mean time. Lat. 33° 44° N., Long. 109° 19' 45" W., from the special instructions from the Surveyor General, and later verified.

APACHE NATIONAL FOREST

STATE OF AR IZONA

Chain	Telescope
Chain	Telescope Time Horizontal Vertical Angle Angle
basi	Direct 3h. 17m. 05s. 7° 45' 30" 37º 07' 30"
	Reversed 3h. 18m. 16s. 7° 20' 30" 37° 24' 30"
	Bearing of reference object, N. 0° 03' 44" E.
	I again observe the altitude of the sun for azimuth at
	the same station. The reading on the reference object
.8008	10 SCU AT ZATA and 41.
Tanta	left and lower right quadrants of the field. My watch
	is set for local mean time. My watch
,11,	Telescope Time Horizontal Vertical Angle Angle
	Direct 3h. 19m. 12s. 71° 20' 30". 36° 31' 30"
	Reversed 3h. 20m. 03s. 70° 53' 00" 36° 52' 00"
a stal	Bearing of reference object, N. 0° 03' 07" R
sttaci	The mean of these is N. 0° 03' 26" E. and to the cor-
	responding meridian all the courses of this survey
Taesas	on are referred. But no sinemization and Jack I

BOUNDARIES OF CLAIM

Beginning at cor. No. 1. The state of the st

Identical with cor. H-2 of the list survey, which is a lava stone 6 x 8 x 6 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. Deposit a lava stone 6 x 5 x 3 ins. marked with a +, 14 ins. in the ground, over which set a lava stone 24 x 9 x 6 ins. chiseled + for the point and 1 - H E S 481 on SE. face; and raise a mound of stone 3 ft. base, 2 ft. high SE. of cor., whence: Jea at Motaway 1 . of all out

A yellow pine, 14 ins. dia., bears N. 34° 54' E., 38 lks. dist., scribed 1 H E S 481 + B T.

STATE OF ARIZONA

Chains

A yellow pine, 26 ins. dia., bears S. 2° 50' E., 57 lks. dist., scribed 1 H E S 481 + B T.

1/4 cor. bet. secs. 13 and 18, T. 4 N., Rs. 28
and 29 E., which is a lava stone 16 x 8 x 20
ins. above ground, in mound of stone, chiseled 1/4 on W. face, and witnessed by a
yellow pine, 20 ins. dia., N. 52° 40' W.,
64 lks., scribed 1/4 S 13 B T, and a yellow
pine, 36 ins. dia., S. 45° E., 23 lks.,
scribed 1/4 S 18 B T, bears N. 85° 42' 49" W.,
69.30 chs. dist., by traverse which appears
at the end of these notes.

Lat. 33° 44' 15" N., Long. 109° 20' 17" W., from special instructions from the Surveyor General, and later verified.

Mag. decl. at 8 a.m. 13° 45' E. Mean mag. decl., 13° 42' E.

Thence S. 84° 22' E.

Ascend 20 ft. in timber to spur.

- 1.35 Top spur, bears NE. and SW. Descend steep rocky slope
 120 ft. to creek.
- 7.70 Fence bears NE. and SW.
- 8.75 Bottom slope. Enter cultivated land.
- 10.70 John's Creek, running water 3 lks. wide, 3 ins. deep, course S. Ascend 20 ft. along edge of timber to point of hill.
- 13.00 Top ascent. Descend 20 ft. to creek in edge of timber.
- 20.50 Creek, running water 2 lks. wide, 2 ins. deep, course

 SW. Ascend 120 ft. in timber to spur.
- 28.10 Top of spur, bears NE. and SW. Descend 150 ft. in scattered timber to cor.
- 37.54 To cor. No. 2.

· Also cor. No. 1 of H. E. S. 482.

Identical with cor. H-1 of List 3-3011 and cor. H-4 of List 3-2311, which is a lava stone 6 x 6 x 6 ins.

STATE OF ARIZONA

Chains

10.25

above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor.

Deposit a lava stone 7 x 3 x 2 ins. marked with a +, 14 ins. in the ground, over which set a lava stone 24 x 8 x 8 ins., chiseled + for the point, 2 - H E S 481 on SW.

face and 1 - H E S 482 on SE. face; and raise a mound of stone 3 ft. base, 2 ft. high SW. of cor., whence:

A yellow pine, 14 ins. dia., bears N. 17° 49' W.,
156 lks. dist., scribed 2 H E S 481 + B T.

A yellow pine, 10 ins. dia., bears S. 70° 10° W.,
151 lks. dist., scribed 2 H E S 481 + B T.

A yellow pine, 8 ins. dia., bears N. 69° 02' E.,
213 lks. dist., scribed 1 H E S 482 + B T.

A yellow pine, 12 ins. dia., bears N. 37° 15' E., 181 1ks. dist., scribed 1 H E S 482 + B T.

Thence S. 9° 32' E.

Along line 1-3 and 4-10 of H. E. S. 482. Descend 20 ft. in open to creek. Fence on line.

2.57 Cor. of cultivated land, bears SW. and along line.

9.75 Cor. No. 3, H. E. S. 482, which is a lava stone 14 x 10 x 10 ins. above ground, marked 3 - H E S 482 on NE. face, with pits 24 x 24 x 12 ins. crosswise on lines N. 9° 32' W. and N. 84° 28' E., 8 ft. dist. and mound of earth 4 ft. base, 2 ft. high NE. of cor.

Cor. No. 4, H. E. S. 482, which is a lava stone 10 x 8 x 10 ins. above ground, marked 4 - H E S 482 on SE. face, with pits 24 x 24 x 12 ins. crosswise on lines S. 9° 32' E. and N. 84° 28' E., 7 ft. dist. and mound of earth 4 ft. base, 2 ft. high SE. of cor.

Thence along line 4-10 of H. E. S. 482.

16.30 Leave cultivated land, bears WNW. and along line.

16.35 North bank Beaver Creek, 6 ft. high.

16.40 Beaver Creek, running water 15 lks. wide, 1 foot deep,

3-2349

STATE OF ARIZONA

Chains course WNW.

16.60 South bank of Beaver Creek, 6 ft. high.

18.35 Road, bears ESE. and WNW.

18.56 Fence cor., fence bears WNW. and along line.

20.20 To cor. No. 3.

Identical with cor. H-4 of the list survey, which is a lava stone 12 x 9 x 6 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. Deposit a lava stone 6 x 4 x 1 ins. marked with a +, 14 ins. in the ground, over which set a lava stone 24 x 14 x 9 ins., chiseled + for the point and 3 - H E S 481 on NW. face; and raise a mound of stone 3 ft. base, 2 ft. high NW. of cor., whence:

A yellow pine, 22 ins. dia., bears S. 10° 24' E., 133 lks. dist., scribed 3 H E S 481 + B T.

A yellow pine, 6 ins. dia., bears S. 64° 51' W.,

77 lks. dist., scribed 3 H E S 481 + B T.

Cor. No. 10 H. E. S. 482, which is a lava stone
12 x 7 x 10 ins. above ground, marked 10 H E S 482 on E. face, bears S. 9° 32' E.,

11.87 chs. dist.

Thence N. 79° 23' W.

Ascend 60 ft. along N. slope to point of ridge in timber.

11.35 Top of ridge, bears N. and S. Descend 30 ft. to draw.

16.50 Foot descent. Enter small draw, drains NNE.

19.00 Arroyo, 15 1ks. wide, 1 ft. deep, course NNE.

22.00 Leave draw and ascend 30 ft. to point.

26.50 Top ridge, bears N. and S. Descend 70 ft. in timber to bottom.

37.85 Foot of descent. Leave timber, thence over open level land to cor.

'41.34 To cor. No. 4.

APACHE NATIONAL FOREST

STATE OF ARIZONA

Chains

Identical with cor. H-3 of the list survey, which is a lava stone 8 x 6 x 5 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. Deposit a lava stone 6 x 4 x 1 ins. marked with a +, 14 ins. in the ground, over which set a lava stone 24 x 14 x 9 ins., chiseled + for the point and 4 - H E S 481 on NE. face; and raise a mound of stone 3 ft. base, 2 ft. high NE. of cor., whence:

A yellow pine, 22 ins. dia., bears S. 10° 42' E.,
133 lks. dist., scribed 4 H E S 481 + B T.

A yellow pine, 6 ins. dia., bears S. 64° 51' W.,
77 lks. dist., scribed 4 H E S 481 + B T.

Thence N. O° 22' W.

Descend 10 ft. in open to creek.

- 1.11 Fence, bears E. and W. Enter cultivated land.
- 8.18 Road bears NE. and SW. Leave cultivated land.
- 8.30 South bank of Beaver Creek, 7 ft. high.
- 8.55 Beaver Creek, running water 20 lks. wide, 1 ft. deep, course W. Ascend 120 ft. to spur in scattered timber.
- 9.00 North bank Beaver Creek, 7 ft. high.
- 10.70 Fence bears NE. and SW.
- 14.45 Spur bears NE. and SW.
- 15.97 To cor. No. 1, the place of beginning.

AREA

Total Area - - - - - - - - - 69.00 acres

IMPROVEMENTS

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

A log house, 20 x 15 ft., the long side of which bears E. and W. and the SW. cor. of which bears S. 83° 30' E.,

STATE OF ARIZONA

Chains

16.18 chs. dist. from cor. No. 1.

Value ----- \$150.00

A barn, 35 x 22 ft., the long side of which bears N. and S. and the SE. cor. of which bears N. 60° 16' E., 22.60 chs. dist. from cor. No. 4.

Value ----- \$200.00

There is approximately 1-1/2 mile of wire fence.

Value ----- \$175.00

DESCRIPTION

This claim lies on Beaver Creek bottom, extending on to the steep rough slope to N. and S. The general slope is to the West and the elevation is approximately 7600 ft.

The timber is a fair stand of yellow pine on the N. and S. slopes. The bottom land is open.

The soil on bottom is a clayey loam, of good depth, fertile and produces good crops. The soil on the slopes is rocky, shallow and non-tillable.

Beaver and John's Creeks furnish sufficient water for irrigation and domestic use.

There are approximately 30 acres in cultivation.

I saw no indication of mineral upon the claim.

CONFLICTS AND ADJOINING CLAIMS

There are no conflicts. H. E. S. No. 482 of Martin Sulzberger adjoins this claim on the E.

Alpine, Arizona, the nearest post office, is 20 miles distant by poor road. Springerville, Arizona, the nearest commercial center, is 50 miles distant, and Holbrook, Arizona, the nearest railroad point, is 150 miles distant.

APACHE NATIONAL FOREST

		STATE OF ARIZONA	
	Chains	.I .OH TRAVERSE . John . ado el. al	charas
	00.	Cor. Course Dist. N S E	W
	. 14	1-2 S. 84° 22' E. 37.54 . 3.69 37.36	
		2-3 S. 9° 32' E. 20.20 . 19.92 . 3.35	
		3-4 N. 79° 23' W. 41.34 7.62	10.63
	co.	4-1 - N. 0° 22' W. 15.97 15.97 115.05 23.59 23.61 40.71	0.10
		. some and with ofth still violents 23.59 al ered 4	10.71
	óo.	Error in Lat. and Dep02	20.
Berlin Strate		Closing error, 1:4066.	
		Survey completed September 5, 1916.	
	of no	unit claim lies on Beaver treek bottom, extending	
	equia .	the steep rough slope to M. and S. The conera	
		otemizoroge si nolizvele ent bue teev ent of al	
		7500	
	bus .	P. Alohmon	
		Surveyor - Draftsman	
	-491 .1	The soil on bottom is a slayer loum, of good dept.	
	asqofe	tile and produces good orops. The soil on the	
		is realty, and low and non-villable.	
	rol	Beaver and John's dicease formish sufficient water	
		irrigation and demostic nas.	
		without the win many at a target law and one again	

There are no conflicts. H. H. S. No. can of Mar

Alpine, Arisona, the nearest post office, is 20 m

distant by poor road. Springerville. Arthons.

Holbrook, Arizons, the nearest railroad point,

. C ent no misio sid; emiciba regradafus

nearest commercial center, is 50 miles

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SITGREAVES NATIONAL FOREST

STATE OF ARIZONA

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Direct Solar September 5, 1916, at Cor. No. 3, H.E.S. 481
Chains
            Lat. 33° 44' N., Long. 109° 19' 45" W., Elevation, 7600 ft.
           Telescope
                                  Time
                                                  Horizontal
                                                                       Vertical
                                                      Angle
                                                                           Angle
                                                                                        Sun
             Direct 3h. 17m. 05s. 70° 45' 30" 37° 07' 30" ° Reversed 3h. 18m. 16s. 70° 20' 30" 37° 24' 30" ° 3h. 17m. 40s. 70° 33' 00" 70° 37° 16' 00" 01' 00"
                                                                       37° 07' 30" °+
                                                                      37° 15' 00"
                                  Decl. 6° 41' N.
          Cos. Q. = \frac{\sin. 6^{\circ} 41^{\circ}}{\cos. 33^{\circ} 44^{\circ} \times \cos. 37^{\circ} 15^{\circ}}
                                  tan. 33° 44' x tan. 37° 15'
          log. sin. 6° 41' 00" = 9.065885
log. cos. 33° 44' 00" = 9.919931
log. cos. 37° 15' 00" = 9.909914
9.245040' = log.
                                                                          .17581
          log. tan. 33° 44' 00" = 9.824619 / 9.881052 / 9.705671 = log. .50777 /
                                                   Cos. Q. =
                                                                           .33196
                                                           Q. = 70° 36' 44"
          Bearing of reference object, N. 0° 03' 44" E.
          Telescope
                              Time
                                               Horizontal
                                                                    Vertical Pos.
                                                    Angle
                                                                        Angle
                        3h. 19m. 12s. 71° 20' 30" 36° 31' 30" °+ 3h. 20m. 03s. 70° 53' 00" 36° 52' 00" + 3h. 19m. 37s. 71° 06' 45" 736° 41' 45"
           Reversed 3h. 20m. 03s.
                                                                          01' 00" V
                                                                   36° 40' 45"
                               Decl. 6° 41'
         log. sin. 6° 41' 00" = 9.065885
log. cos. 33° 44' 00" = 9.919931
log. cos. 36° 40' 45" = 9.904170
9.241784/= log.
                                                                          .17449
         log. tan. 33° 44' 00" = 9.824619 / log. tan. 36° 40' 45" = 9.872046
                                             9.696665 = log.
                                                                         .49735 V
                                                             71° 09' 52"
                                            Cos. Q.
                                                    Q.
         Bearing of reference object, N. 0° 03' 07" E.
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Form 85. Sheet No. 2. HOMESTEAD ENTRY SURVEY NO.

NATIONAL FOREST

STATE OF

Olrect Solar September 5, 1916, at Cor. Wo. 6, I. Chains* Dat. 33 44' M., Lone. 1098 19' 15" T., Mlevetion, 7600 1 10 Decl. 6% 41' H. ain. 6° 41' . 32° 44' x 308. 87° 15' tan. 52° 44' x tan. 37° 15' *800 log. ein. 6 41' 00" = 9.065885 log. cos. 27 15' 00" = 9.919931 log. cos. 27 15' 00" = 9.900914 9.065040 = 10g. log. ten. 387 441 00" = 9.884619 log. ten. 37 15' 00" = 9.881058 70° 86' 44' Bearing of reference object, 1. 0° 03' 44" I. Lacidray Direct Sh. 19m. 18s. 71° 80' 30" Beversed Sh. 80m. 05s. 70° 55' 00" Sh. 19m. 87s. 71° 06' 45" 40 m 8 118 0 08 36 ° 36 ° 36 01' 00 36' 40' X Decl. 6º 41' log. sin. 6' 4' 00" = 9.065885 log. ada. 38° 44' 00" = 9.919951 log. cos. 56° 40' 45" = 9.904170 . 90. ADTI. log. tan. 88° 40' 45" = 9.884619 log. tan. 86° 40' 45" = 9.878686 .sol 4978 .0 .800 489-160 . LA Resting of reference object, IL. O' 03' OVE E.

3 313.06 0000 C 600 Acres 000 90 01 1693 07 50 55 1380 69 313 1555 S. AREAS. 137 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 lines.

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.

3. In calculation are necessary, for the District Office, the Surveyor General, and the Commissioner. 90 1 60 46 N. AREAS. 313 310 DOUBLE M. D. 10 60 37 40 78 37 8 13 350 10 WEST. 0 40 40 DEPARTURES. TABLING AND CALCULATIONS OF HOMESTEAD ENTRY SURVEY NO. ... 481. 35 77 36 EAST. 40 22 09 92 200 19 SOUTH. 3 23 19 50 LATITUDES. 69 200 97 NORTH. 15 23 2 1:4066 41.34 20.20 15.97 115.05 DISTANCE. 37.54 Closing error 1 国 田 22 321 79 23 0. 22 BEARING. 840 0 6 N N S to 3-4 4-1 2-3 1-2 CORNERS. 8-2349

1.998784 1.840757 1.839541 10.714330 11.125211 Drections.—1. Carry out calculations were 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 figure or figures above in red ink. Do not change the footing of the lines.

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.

4. Only three copies of this tabulation are necessary, for the District Office, the Surveyor General, and the Commissioner. . N. AREAS. 85 942149" 85.42149 69.11 69.30 5.18 69.11 Arizona. sin. 108. 108. tan. 108. D. DOUBLE M. 8 108. 108. and STATE OF 06 00 45 22 25 30 Secs. WEST. 13 83 133 69 64 4 86 NO. 481 , DEPARTURES bet. 36 31 40 27 COL. 8 D 0 64 37 Sec. TABLING AND CALCULATIONS OF HOMESTEAD ENTRY SURVEY 7/4 13 63 62 49 200 69 45 SOUTH. 14 16 63 24 53 94 31 40 LATITUDES No. 94 13 16 18 99 31 19 Sr. from DISTANCE. 27.85 31.54 32.07 25.81 80.16 17.00 86.06 35.51 Tie --· M 田 · M 国 H 图 221 321 25. 401 22 20 171 301 BEARING. 0 280 870 0 0 14. 0 8 6 50 B B 02 m m m. 02 S Form 85. Sheet No. 3.—Revised Feb., 1915. CORNERS 8-2349

1.839541

S. AREAS.

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APPROVAL

Office of the United States Surveyor General,

Phoenix, Arizona, June 29

, 1918

The foregoing field notes of Homestead Entry Survey No.

48

executed by R. P. A. Johnson, Surveyor Draftsman Forest Service Title.] under his special instructions, dated fune 21, 1916, 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