MAIL 2- 191/

U. S. DEPARTMENT OF AGRICULTURE

FOREST SERVICE

MAR. 9-1918 JUN. 5- 19.

FIELD NOTES

MAN. 1- 1918

OF

HOMESTEAD ENTRY SURVEY NO. 443

SITUATED IN THE

TONTO

NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

In Section 10 , unsurveyed, Township 3 N. , Range 13 E.

In Section 15, unsurveyed, Township 3 N. , Range 13 E.

of the

Gila and Salt River Base and Meridian.

State of

ARIZONA

Manager Lagger

Applicant for listing Pickens E. Woodson,

Kirby, Arizona Residence

, 19**14** v , dated Application No. 4 459 March 3

3-3527 , 1915 , dated List No. March 19

Applicant for survey R. J. Whalley ,

Residence Kirby, Arizona

030723

July 19 H. E. No. , dated , 1916 Office

Land District Phoenix, Arizona

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

, 195 Under special instructions dated December 2

March 2 Survey commenced , 1916

Survey completed March 3 , 1916

Under Acts of June 11, 1906 and March 4, 1915

OATH OF ASSISTANTS

We hereby certify that we assisted
Surveyor - Forest Service

Walter G. Turley,

in surveying all those

[Forest Service Title.]

parts or portions of Homestead Entry Survey No. 443 , 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 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. . Chainman

Subscribed and sworn to before me this twee

, 1916 . Walt

OATH OF SURVEYOR

I, Walter G. Turley, Surveyor - Forest Service [Forest Service Title.]

do solemnly swear that, in strict conformity with the special instructions of the United States Surveyor General for Arizona , dated December 2 , 1915 , and the laws of the United States, I have well, faithfully, and truly, in my own proper person, surveyed a tract of land embraced in List No. 3-3527, dated March 19, 1915, and a tract of land upon the application of Pickens E. Woodson,

, dated March 3 , 19 14 , for , under the Act of June 11 , 1906 Application , No. 459 Patent the same to be known as Homestead Entry Survey No. 443 situated within the TONTO National Forest, in , Township 3 N., Township 3 N. un surveyed Section , Range 13 E. , and , Range un surveyed Section 15

Arizona G. and S. R. B. and meridian, 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. Trisly

Subscribed and sworn to before me this

day of

, 19/6

My Commission expires April 20,

TONTO NATIONAL FOREST

STATE OF ARIZONA

Chains Applicant for listing, Pickens E. Woodson; Application

entry.

No. 459, dated March 3, 1914; List No. 3-3527, dated March 19, 1915; Homestead Entry No. 030723, made in the Phoenix Land Office on July 19, 1916 by R. J. Whalley, whose Post office address is Kirby, Arizona. Also a tract of unlisted land adjoining on the East was included in this survey in order to eliminate unnecessary corners. The land was desired by the entryman and will be listed as a basis for amendment of his

Surveyed under the Acts of June 11, 1906 and March 4,

1915, together with special instructions from the Surveyor General for Arizona, dated December 2, 1915, and

designated as Homestead Entry Survey No. 443.

Situated in what will probably be, when surveyed, Secs.

10 and 15, T. 3 N., R. 13 E., Gila and Salt River Base
and Meridian within the Tonto National Forest, Arizona.

The discrepancy between this survey and the listing survey as to location of the tract is due to error in the latter. The courses of the listing survey were somewhat confused, lines 1-2 and 7-8 thereof having a northeasterly instead of a northwesterly bearing; the chaining was only fairly accurate, and the area as recorded in the list survey found to be erroneous.

Survey commenced March 2, 1916 and executed with a W. and L. E. Gurley light mountain transit No. 12953, provided with Burt solar attachment.

I test the adjustments of the transit and solar attachment and make all necessary corrections.

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. The slope

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STATE OF

ARIZONA

Chains

angles were determined with a clinometer, the vernier of which reads to degrees.

March 2. 1916:

I set up my transit over cor. H-4 of List 3-3527, which is a sandstone 12 x 6 x 6 ins. above ground, marked and witnessed as described by the Forest Service; and, with telescope direct, I observe Polaris in accordance with instructions at 7h. 30m. a.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, in Lat. 33° 37' 19" N. and Long. 111° 00' 22" W., from special instructions from the Surveyor General.

Astron: 1.m.t. obsn., March 1, 1916 Astron. 1.m.t. U. C. Pol. March 1, 1916 19h. 30.0m.

2h. 51.4m.

Hour angle Pol. at obsn.

16h. 38.6m. 23h. 56.lm.

Time argument

7h.17.5m.

Azimuth of Pol. at obsn., 1º 16' 48" E.

With my transit set up over cor. H-4 of List 3-3527, heretofore described, and with telescope reversed in altitude and azimuth, at 7h. 42m. a.m., 1.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.

19h. 42.0m. Astron. l.m.t. obsn. ,March 1, 1916, Astron 1.m.t. U. C. Pol., March 1, 1916. 2h. 51.4m. Hour angle Pol. at obsn. 16h. 50.6m. 23h 56.lm.

Time argument

7h. 05.5m.

Azimuth of Pol. at obsn., 1° 17' 54" E.

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TONTO NATIONAL FOREST

STATE OF ARIZONA

Chains

March 2, 1916.

I turn off 1° 17-1/2', the azimuth of Polaris, to the W. from its direction at 7h. 30m. a.m., 1.m.t., March 2, 1916; 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° 18', the azimuth of Polaris, to the W. from its direction at 7h. 42m. a.m.; 1.m.t., 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' 28" of measured arc to the 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 stated in these field notes were deflected and referred by continuous sustained angulation.

Latitude 33° 37' 19" N. and Longitude 111° 00' 22" W. at

cor. No. 1 of this survey, by account from values stated

in the special instructions of the Surveyor General, and
later verified.

It was cloudy at apparent noon and a latitude observa
tion was not possible.

My watch is set for standard 105th. meridian time, from which I subtract 24m. Ols. for 1.m.t.

Observed magnetic declination at cor. No. 1 at 8h. 00m.

a.m., .l.m.t., 14° 40' E. Mean magnetic declination,

14° 37' E.

istind eouTIE of whee he

I find the 1/4 cor, to sees. 2 and 35, Ts. 3 and 4 N.,

TONTO NATIONAL FOREST

STATE OF ARIZONA

Chains

R. 13 E., which is a quartzite stone 7 x 5 x 5 ins. above ground, marked 1/4 on the North face with mound , of stone 2 ft. base, 1-1/2 ft. high North of cor., from mi word which: peningers and ent free has told

. . . A 5 in. mesquit bears N. 68° 43' E., 323 lks., blazed but I could not detect scribing.

A 7 in. mesquit stump bears S. 70° 55' E., 307 lks. This stump has been cut a few ins. above ground and no blaze could be detected.

This corner was established in 1881, and all evidence found in this vicinity substantiates the fact that this is the location of the original corner.

From this point I run West one mile and East one and a half miles, then South on assumed Range line three miles, making careful search at 40 and 80.00 chain points. No other corners of the public land survey were found.

There being no identified corner of the public land survey within two miles of this claim, I tie this survey to U. S. I. M. No. 147 H. E. S., located upon a high point approximately 7.00 chains East of Spring Creek, which is an embedded porphyry stone 48 x 36 x 15 ins. above ground, chiseled + at the point and U S L M No 147 H E S on E. face, with mound of stone 6 ft. base, . 4 ft. high West of cor., from which:

A 4 in. palo verde bears N. 64° 00' E., 200 lks., . I blazed and scribed U S L M No 147 H E S + B T. , moi Bast peak of Baker Mountain bears N. 21° 30' E. Haystack Butte bears N. 65° 24'.E. Mazatzal Peak bears N. 34° 00' W.

> Reclamation Service office building at intake of power canal bears N. 58° 20' E.

5.

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TONTO NATIONAL FOREST

STATE OF ARIZONA

Chains

SE. cor. of George Henderson's dwelling bears S. 55° 45' W.

BOUNDARIES OF CLAIM

March 3, 1916.

Beginning at cor. No. 1.

Identical with cor. H-4 of List 3-3527, which is a sandstone 12 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. 1 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 10 x 9 ins., 15 ins. in the ground, chiseled (+) at the point and 1 - H E S 443 on the NNW. face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high NNW. of cor., from which:

A 7 in. mesquit bears N. 3° 19' W., 27 lks.,

blazed and scribed 1 H E S 443 + B T.

A 5 in. mesquit bears N: 83° 20' W., 48 lks.,

blazed and scribed 1 H E S 443 + B T.

U. S. L. M. No. 147 H. E. S., heretofore de
scribed, bears S. 22° 06' W.; 102.99 chs.,

by direct measurement.

Thence N. 63° 12' W.

Over brushy bottom.

3.28 Arroyo, 20 lks. wide, banks 2 ft. high, course NE.

7.08 Leave bottom, bears NE. and SW. Asc. SE. slope 40 ft.

8.50 Wire fence bears NW. and SE.

10.54 To cor: No. 2.

Identical with cor. H-3 of List 3-3527, which is a

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TONTO NATIONAL FOREST

STATE OF ARIZONA

		STATE OF ARIZONA TATE
1	Chains	sandstone 12'x 12 x 4 ins. above ground, marked and wit-
		nessed as described by the Forest Service. I destroy
		cor. H-3 and its witnesses; and for cor. No. 2 of this
		survey, I chisel (+) on a stone 4 x 3 x 2 ins., and de-
		posit it 16 ins. in the ground, over which I set a ba-
		salt stone 26 x 10 x 10 ins., 16 ins. in the ground,
		chiseled (+) at the point and 2 - H E S 443 on the NE.
	vorde	face; and raise a mound of stone 2 ft. base, 1-1/2 ft.
		high NE. of cor., from which:
		A 6 in. mesquit bears S. 52° 54' W., 283 lks.,
		blazed and scribed 2 H E S 443 + B T.
	polesi	A 6 in. mesquit bears S. 54° 25' E., 138 lks.,
	; 00	blazed and scribed 2 H E S 443 + B T.
	debit	
		Thence N. 5° 58' E. : delaw mont, . red to . White
		Over brushy mesa. A served displacem . n. v A
	1.40	Edge of mesa, bears NW. and SE. Desc. NE. slope 40 ft.
	3.58	Wire fence bears NW. and SE.
	6.30	Foot of mesa, bears NW. and SE. Continue over bottom.
	15.98	Wire fence bears NE. and SW.
	17.15	Foot of mesa, bears NE. and SW. Asc. SE. mesa slope
		40 ftJHemerseem Jeerse vd
	19.95	Edge of mesa, bears NE. and SW. Continue over mesa.
	20.65	Edge of mesa, bears NW. and SE. Desc. NE. slope 45 ft.
	27.75	Globe - Phoenix highway bears NNW. and SSE.
	28.48	To cor. No. 3. in . is standed, bold . old . o. o. o
	, th	Identical with cor. H-2 of List 3-3527, which is a
		sandstone 8 x 6 x 4 ins. above ground, marked and wit-
		nessed as described by the Forest Service. I destroy

cor. H-2 and its witnesses; and for cor. No. 3 of this

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7.

TONTO NATIONAL FOREST

STATE OF ARIZONA.

Chains

survey, I chisel (+) on a stone 4 x 4 x 3 ins., and deposit it 14 ins. in the ground, over which I set a granite stone 24 x 8 x 6 ins., 14 ins. in the ground, chiseled (+) at the point and 3 - H E S 443 on the E. face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high E. of cor., from which:

A 5 in. mesquit bears N. 4° 53' W., 205 lks., blazed and scribed 3 H E S 443 + B T.

A 4 in. mesquit bears S. 34° 00' W., 80 lks.,

blazed and scribed 3 H E S 443 + B T.

Thence N. 13° 14' E.

Along foot of mesa in brush.

.27.36

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To cor. No. 4.

Identical with cor. H-1 of List 3-3527, which is a sandstone 8 x 5 x 4 ins. above ground, marked and witnessed as described by the Forest Service. I destroy cor. H-1 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 18 ins. in the ground, over which I set a grantee stone 28 x 12 x 5 ins., 18 ins. in the ground, chiseled (+) at the point and 4 - H E S 443 on the SE. face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high SE. of cor., from which;

A 7 in. mesquit bears S. 69° 45' E., 30 lks., blazed and scribed 4 H E S 443 + B T.

A.12 in. mesquit bears S. 5° 00' W., 186 lks.; blazed and scribed 4 H E S 443 + B T.

Thence S. 82° 00' E.

Desc. brushy bottom 5 ft.

TONTO NATIONAL FOREST

STATE OF ARIZONA.

Chains 7.52

To cor. No. 5.

Identical with cor. H-8 of List 3-3527, which is a sandstone 10 x 8 x 5 ins. above ground, marked and witnessed as described by the Forest Service. I destroy cor. H-8 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 18 ins. in the ground, over which I set a diorite stone 28 x 12 x 6 ins., 18 ins. in the ground, chiseled (+) at the point and 5 - H E S 443 on the SW face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high SW. of cor., from which:

A 12 in. desert willow bears S. 21° 04' E.,

126 lks., blazed and scribed 5 H E S 443 + B T.

A 7 in. mesquit bears S. 35° 06' W., 146 lks.,

blazed and scribed 5 H E S 443 + B T.

1/4 Cor. on S. bdy. sec. 35 T. 4 N., R. 13 E. heretofore described bears N. 15° 12' 38" E. 160.58 chs. by traverse which appears at the end of these notes.

Thence S. 7° 02' W. ..

Over brushy bottom.

- O.18 Arroyo, 30 lks. wide, banks 4 ft. high, course NW. Asc. NW. mesa slope 35 ft.
- 9.20 Edge of mesa bears NE. and SW. Continue ascending mesa 20 ft.
- 35.10 Globe Phoenix highway bears NW. and SE.
- 36.35 Cor. fence, bears NW. and SSW.
- 37.14 Cor. H-6 of List 3-3527, a sandstone 14 x 10 x 6 ins.

 above ground, marked and witnessed as described by the

 Forest Service. I destroy cor. H-6 and its witnesses.

Cor. H-7 of List 3-3527, which is an embedded

9.

TONTO NATIONAL FOREST

STATE OF ARIZONA

	ARIZONA	
Chains	sandstone 18 x 12 x 12 ins. above ground,	
Jiidiii	marked and witnessed as described by the	
	Forest Service, bears N. 12° 00' W., 9.50	
ot	chs. from cor. H-6. I destroy cor. H-7	
. 10	and its witnesses.	
	Cor. H-5 of List 3-3527, which is a sandstone	
	8 x 6 x 4 ins. above ground, marked and witnesse	d
	as described by the Forest Service,	
well.	bears S. 24° 00' W., 9.26 chs. from cor. H-6.	
edode	I destroy cor. H-5 and its witnesses.	
48.65	Wire fence bears NNW. and SSE.	
	Ridge bears NNW. and SSE. Desc. SW. slope 45 ft.	
59.09	To cor. No. 1, the place of beginning.	
.bse	teemon eins mit bested in conflict with this homest	
was	enthrop ent to noisestants sint toomis dynoddia	
begoleve	Listed Area 40.00 acres	
Mrow, J	Unlisted Area 8.62 acres	
	Total Area 55.22 acres	
ion.	TMPPOVEMENTS	
a n	A frame dwelling 18 x 16 ft., the long side extending E.	
	and W. and the SW. cor. of which bears N. 86° 15' E.,	
7.00	2.90 chs. from cor. No. 3 of this survey.	
07.6	Estimated Value \$200.00	
water the production	A frame store building 20 x 12 ft., the long side extend-	
	ing N. and S. and the NW. cor. of which bears S. 61°	
9.41	05' E., 3.10 chs. from cor. No. 3 of this survey.	
	Estimated Value \$150.00	
20.7	A well, 4 x 4 x 38 ft. deep, with hand pump, the center	
60.6	of which bears S. 38° 15' E., 4.90 chs. from cor. No.	1
	Z of this survey	
	C#66:T 10 110 FITS OTA	
STEEL ST	Estimated Value \$100.00 Approximately 1 mile of wire fencing.	
DEEL ME	Whitering fert I mile of wile lengung.	

Estimated Value - - - - - - \$100.00

TONTO NATIONAL FOREST

STATE OF ARIZONA

Chains Approximately 10 acres cleared.

DESCRIPTION

This claim is situated on Spring Creek, a tributary to Salt River, and is valuable for gardening and stock raising. . moinw . 7238-8 tail to d-H . rot

There is no timber in this section.

Water flows in Spring Creek a portion of each year.

Water for domestic purposes is obtained from the well.

The soil is a sandy loam and produces the ordinary crops of the temperate zone. bas . WWW grand somet eriv da. 34

There are no indications of mineral or oil on the claim and no townsites, coal, oil or mining claims are known to have been located in conflict with this homestead.

Although almost this entire section of the country was located for oil some years ago, no oil has been developed and the claims have been cancelled as no assesment work was completed.

Kirby post office is one mile in an Easterly direction. Globe railway station is 26 miles by wagon road in a Southeasterly direction. I was subject to some subject to the state of the state of

.. There are no conflicts or adjoining claims.

H. E..S. 403 lies about 1/4 mile SE. and H. E. S. No. 70 lies NE. about 3/8 of a mile from this survey.

	TRAVERSE		
1	cor. Course Dist. N S E	W	
	1-2 N. 63° 12' W. 10.54 4.75	9.41	
	2-3 N. 5° 58' H. 28.48 28.332.96		
	3-4 N. 13° 14' E. 27.36 26.63 6.26		
	4-5 S. 82° 00 E. 7.52 1.05 7.45		
	5-1 S. 7° 02' W. 59.09 58.65	7.24	
	132.99 59.71 59.70 16.67	16.65	
	59.70 16.65		
*	Error in Lat. and Dep01 .02		
	vovaue slut to E		
	Cloging error 1.5048		

- enfov betemitel

Closing error 1:5948

Survey completed March 3, 1916.

11.

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TONTO NATIONAL FOREST

STATE OF ARIZONA

Chains.

Note:

The field notes for H E S 147 report said claim to be located in Secs 29 and 32 T. 3 N., R. 13 E. unsurveyed. By the tie from 1/4 cor. on S. bdy. of Sec. 35 T. 4 N., R. 13 E. to cor. No. 5 of this survey and tie from Cor. No. 1 of this survey to U.S.L.M. Moly 1885 the 147 H. E. S., the position of said U. S. L. M. No. 147 H. E. S.is determined to be in the SW/4 of Sec. 22. Therefore the correct location of HES 147 is in Secs. 22 and 27 T. 3 N., R. 13 E.

said USL m 146

Form 85.

HOMESTEAD ENTRY SURVEY NO.

NATIONAL FOREST

STATE OF

Surveyor - Porest Service

Chains

The field notes for H P S 147 report sais claim to be located in Secs 29 and 58 T. 2 N. H. 15 N. To cor. No. 5 of this survey sud tie from Cor. No. 1 of this survey to the from Cor. No. 1 of this survey to the S. L. H. 147 H. 1. S. the position of said U. S. L. H. N. H. 15 N. H. 15

Form 85. Sheet No. 3.—Revised Feb., 1915.

DIRECTIONS.—1. Carry out calculations to two 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 ealculations 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.

-	BEARING.	DISTANCE.	LATITUDES.	DES.	DEPARTURES.	URES.	DOUBLE M. D.	N. AREAS.	S. AREAS.	
			Моктн.	Воитн.	EAST.	West.				
N 2-1	N. 63° 12' W.	10.54	4 75			9 41	9 41	44 70		
2-3 N.	. 5°581 压.	28.48	28 33		2 96		2 95	83 57		1
3.4 N.	. 13° 14' E.	27.36	26 63		6 26		12 16	323 82		
4-5	. 82 ° 00' E.	7.52		1 05	7 45		25 87		27 16	
5-1 8.	70 021	59.09		11		7 24	26 07		1529 27	
		132.99	59 71	59 70	16 67	16 65		452 09	1556 43	
			5971	2971	16 66	16 66			452 09	
									1104 34	
Closing e	error, 1:5948								55 22 Acres.	. 83
			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1							
			ž.							

Form 85. Sheet No. 3.—Revised Feb., 1915.

4

Direct No. 3.—Notice from the control of the control of the original figures.

2. In blancing Latitudes and Departures do not obliterate or change the original figures, but put below them the corrected footing in red ink.

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.

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																			/	4	9	
	S. AREAS.		5																			
¢ di	N. AREAS.		to cor No.																			
Or APESONS	DOUBLE M. D.		N. R. 13 E.														f					
, STATE	TRES.	West.	35, I. 4		14 22	76 15	9 2 6	3 97	5 68		49 58		49 58									
NO. 440	DEPARTURES	East.	bdy. Sec.							7 45	7 45	42 13	49 58									
SURVEI	ES.	South.	on the S.	0	24 14		79 02	41 28	9 59 4	1 02	155 08		155 08									
HOMESTEAD ENTRY	LATITUDES.	North.	from the 1/4 cor.			0 13					0 13	154 95	155 08									
o l	DISTANCE.		erse from		28.02	16.15	79,60	41.47	11.15	7.52			160.58					*				
ING AND CALCULATIONS	BEARING.		Traverse		S. 30° 30' W.	N. 89° 33' W.	S. 6° 54' W.	301	S. 30° 38' W.	S. 82° 00' E.			15° 12' 38" E.									
S-2349 TABLING	CORNERS.												N									

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

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

3. In balancing I two decimals only.

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. 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. 44 79 83 60 323 68 00 N. AREAS. 452 STATE OF ST. BORE. 15 48 28 85 41 2 DOUBLE M. NO 22 22 20 50 77 68 41 O 9 DEPARTURES. 443 26 45 8 05 72 EAST. 19 9 HOMESTEAD ENTRY SURVEY NO 46 29 36 76 SOUTH. 13 8 LATITUDES. 28 33 75 77 NORTH. 83 29 9.26 13.40 27.36 7.52 TABLING AND CALCULATIONS OF 10.54 28,48 9.50 28.35 134.41 DISTANCE. Closing error, L:2099 田 国 国 闰 B 00 151 630 121 14* 30 10. 00 BEARING. 20 130 130 120 820 40 Listed Area. 3 3 S S S Sheet No. 3.—Revised Feb., 1915. 9/H-L/H H/6-H/5 5-H/7 H/5-1 1-2 4-5 CORNERS. 8-2349

Acres.

09

46

07

452

932 06

1384 13

206 98

739 14

S. AREAS.

NATIONAL FOREST

STATE OF

Chains U. S. Department of Agriculture Forest Service

Inspection of HES No. 443, State of Arizona.

Tonto Entry Surveys
Woodson, Pickens E.

Inspection survey commenced April 8, 1916 and completed April 8, 1916.

This claim is situated in unsurveyed T. 3 N., R. 13 E. in what will probably be, when surveyed, Secs. 10 and 15 G. & S.R.B. & M., Tonto National Forest, Arisona.

2. Survey executed with Buff and Buff transit equipped with Smith Solar Attachment. I test the adjustments of transit and make necessary corrections.

On April 8, 1916 I observe the altitude of the sun for azimuth at Cor. No. 1, the reading on the reference object is set at zero and sun was observed in the lower left and upper right quadrants of the field.

My watch is set at local mean time.

Lat. 33° 36' N. Longitude 111° 01' W. from J. S. G. S. Roosevelt Quadrangle.

Telescope Time Horizontal Vertical
Angle Angle
Direct 8h 24m 4ls 74° 41' 33° 51'
Reversed 8h 25m 45s 75° 07' 33° 32' 30"

Bearing of reference object H. 0° 0' 23" E.

At 4h 22.5m. p. m. I again observe the altitude of the sun for azimuth at Cor. No. 1. The reading on reference object is set at zero and sun was observed in upper left and lower right quadrants of field.

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Chains	Telescope Time Horizontal Vertical Angle Direct 4h 21m 59s 82° 51' 30" 24° 28' Reversed 4h 23m 04s 82° 07' 24° 45' 30 Bearing of reference object N. 0° 1' 09" W.
bedg.	At 9h 00m 1.m.t., I set off 33° 36' on lat. are 7° 16'
	on decl. are and determine a meridian with the
***	solar at cor. No. 1. The result differs 0° 0' 46"
	from meridian determined by direct solar.
	Manager Control of the Control of th
3.	The addition in this case was made to eliminate three
	corners and isopen agricultural land of very low
à	forest value. At time of survey it was open public
	land.
4.	There is no histus or overlap.
5.	The tract lies in an unsurveyed township and it was
	therefore impracticable to adopt section or forty
	lines as lines of claim. All possible corners were
. 5 . 6	eliminated.
6.	All corners were correctly marked, well set, of good
70,3 30s	material and properly witnessed.
7.	All corners of HES were identical with list survey
-24	corners except on east side where change was made
	to straighten lines and reduce corners.
8.	Area of tract in HES Po. 445 is 55.28 acres and closing
	error is 1:4432. Tables contrasting inspector
	and surveyor courses, distances, acreage, tie and
	error of closure are attached hereto.
	The state of the s

Inspection of HOMESTEAD ENTRY SURVEY NO. 443

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9.	There were no field corrections.
10.	There are no recommendations.
11.	I, R. P. A. Johnson, do solemnly swear that on April 8, 1916, I thoroughly inspected in the field HES No. 443, State of Arizona and well and definitely retraced the boundary lines as shown by the established corners and the line which determines its relative location in strict conformity with the special instructions of the Surveyor General for Arizona and the National Forest Manual and the above report is a complete and correct statement of facts observed during said inspection.
	(Signed) R. P. A. Johnson Surveyor Draftsman Subscribed and sworn to before me this day of 19.
T 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Original survey by Walter G. Gurley on March 2 and 3.
	1916. Inspection by R. P. A. Johnson on April 8,1916.
Cor.	Original Inspection Diff. Original Inspection Diff.
1-2 2-3 3-4 4-5 5-1	N.63-12 W. N.63-12 W. O 10.54 10.54 0 N. 5-58 E. N. 5-53 W05 28.48 28.46 -02 N.13-14 E. N.13-14 E. O 27.36 27/36 0 S.82-00 E. S.82-00 E. O 7.52 7.52 0 S. 7-02 W. S. 7-03 W. +01 59.09 59.09 0
	Closing error Original Inspection
	Area) 1:5948 /1:4432

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HOMESTEAD ENTRY SURVEY NO. 443

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STATE OF

Chains Computation Sheet Direct Solar Cor. No. 1 April 8,1916. Lat. 33° 36' H. Long. 111° 01' W. Elevation 2500 ft. Observation. Telescope Time Horizontal Vertical Angle Angle 740 41 8h 24m 41s Direct 330 51 Reversed 8h 25m 45s) 16h 50m 26s 75° 07 149° 48 330 32 670 23 8h 25m 13s 74 54 45" 330 41" 15 40 30 log sin. 7° 15' = 10g cos. 33° 36' = 9.101056 9.920604 9.920226 33° 40 ' 30" log cos. 9.260226 = .18207 log tan. 33° 36' 10g tan. 33° 40' 30" 9.822429 9.823661 9.645090 .44268 Cos. Q. - .26061 = 74° 53' 37" Bearing of reference object N. 0° 0' 23" E. Telescope Time Horizontal Vertical Angle Angle 24° 28' 24° 45' 30" Direct 4h 21m 59s 820 29 30" 4h 23m 04s 82° 05 Reversed 8h 45m 03s 1640 34 30 490 13' 30" 4h 22m 3ls 82° 17' 15" 24° 36' 45" 55 34 ' 50" 240 70 221 20" log sin. 9.108276 log cos. 33° 36' 9.920604 log cos. 24° 34 50" 9.958744 Log 9.228928 .16939 log ten. 33° 36 ' 9.822429 log tan. 240 34 50" 9.660323 9.482750 .30392

Cos. Q. = .13453 Q = 82° 16' 6"

Bearing of reference object N. 0º 1' 9" W.

EDI. 8 85-25.2100.400.40-65.8 (12 .6 .6.40 pt 1.400. 100

APPROVAL

Office of the United States Surveyor General,

Phoenix, Arizona, June 19, 1917.

The foregoing field notes of Homestead Entry Survey No.

443

executed by Walter G. Turley, Surveyor-Forest Service [Forest Service Title.] under his special instructions, dated December 2 , 1915, 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