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U. S. DEPARTMENT OF AGRICULTURE  
FOREST SERVICE

FIELD NOTES

OF

HOMESTEAD ENTRY SURVEY NO. 645

SITUATED IN THE TONTO NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO.

- In Section 26 , Un surveyed, Township 10 N., Range 13 E.
- In Section 27 , Un surveyed, Township 10 N., Range 13 E.
- In Section 34 , Un surveyed, Township 10 N., Range 13 E.
- In Section 35 , Un surveyed, Township 10 N., Range 13 E.

of the

Gila and Salt River Base and Meridian.

State of

ARIZONA

Applicant for listing

Residence

Application No. , dated , 19

List No. , dated , 19

Applicant for survey

Residence

H. E. No. , dated , 19

Land Office

Survey executed by Thomas F. Myers, Chief Surveyor, Forest Service

Under special instructions dated September 29 , 1925

Survey commenced September 28 , 1926

Survey completed September 29 , 1926

Under Acts of June 11, 1906 and May 11, 1926.





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HES 625

OATH OF ASSISTANTS

We hereby certify that we assisted  
Chief Surveyor, Forest Service  
[Forest Service Title.]

Thomas F. Myers,  
in surveying all those

parts or portions of Homestead Entry Survey No. 645, 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

Note: It would have been very expensive and inconvenient to appear before an officer to administer oath to assistant. Hence they were taken by the Surveyor.

Lawrence Edman  
Assst.

Subscribed and sworn to before me this 29<sup>th</sup> day of

September, 19 26.

Thomas F. Myers  
Chief Surveyor Forest Service

OATH OF SURVEYOR

I, Thomas F. Myers, Chief 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 September 25, 1925, and the laws of the United States, I have well, faithfully, and truly, in my own proper person, surveyed a tract of land as a basis for listing and patent

~~XXXXXXXXXXXXXXXXXXXX~~ dated ~~XXXXXXXXXXXXXXXXXXXX~~ 29<sup>th</sup> day of ~~XXXXXXXXXXXX~~  
under the Act of June 11, 1906,  
the same to be known as Homestead Entry Survey No. 645,  
situated within the Tonto National Forest, in  
unsurveyed Section 26, Township 10 N., Range 13 E., and  
unsurveyed Section 27, Township 10 N., Range 13 E.,  
unsurveyed Section 34, Township 10 N., Range 13 E.,  
unsurveyed Section 35, Township 10 N., Range 13 E.  
of the Gila & Salt River Base and 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

Thomas F. Myers  
Chief Surveyor,  
[Forest Service Title.]

Subscribed and sworn to before me this 24<sup>th</sup> day of

January, 1927

Bonnie M. Brewer  
Notary Public



8-2349

My Commission Expires Sept. 30, 1928



Chains Surveyed a tract of land as a basis for listing and patent, under special instructions from the Office of Public Surveys, dated September 29, 1925, and designated as Homestead Entry Survey No. 645. Situated in what will probably be when surveyed, Secs. 26, 27, 34, and 35, T. 10 N., R. 13 E., Gila and Salt River Base and Meridian, Tonto National Forest, Arizona.

Surveyed under the Acts of June 11, 1906 and May 11, 1926.

Survey commenced September 28, 1926 and executed with a Buff and Buff transit No. 10019 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 400-link steel tape. The slope angles were determined with a clinometer.

September 28, 1926.

At my station on line 7-1 of H.E.S. 586, which is also line 2-3 of this survey, in Latitude  $34^{\circ}10'34''$  N., Longitude  $110^{\circ}59'46''$  W. from Forest Service Base Map, at 6h 14m 12s p.m., l.m.t. I observe Polaris with telescope direct reading an angle of  $1^{\circ}30'$  from Star to left to reference mark.

Greenwich M.T. U.C. Polaris Sept. 29, 1926 1h 7.9m a.m.

Correction for Longitude 1.2

l.m.t. U.C. Polaris Sept. 29, 1926 1h 6.7m a.m.

l.m.t. Obsn. " " 28, 1926 6h 14.2m p.m.

Hour angle 6h 52.5m

Azimuth of Polaris  $1^{\circ}16'.7$  E.

Bearing of reference mark N.  $0^{\circ}13'.3$  W.

At same station at 6h 16m 50s p.m. l.m.t. I again observe Polaris with telescope reversed reading an angle of  $1^{\circ}30'$  from Star to left to same referencemark.

l.m.t. U.C. Polaris Sept. 29, 1926 1h 6.7m a.m.

l.m.t. Obsn. " " 28, 1926 6h 16.8m p.m.

Hour angle 6h 49.9m



2.

Chains

Azimuth of Polaris 1°17' E.

Bearing of reference mark N. 0°13' W.

The bearing of the reference mark as determined from the mean of the two observations is N. 0°13'.15 W. I accept bearing of reference mark as N. 0°13' W. and from the corresponding meridian all the courses of this survey were deflected by sustained angulation.

Note: My watch is set for standard 105th meridian time and later compared with Western Union clock at Globe and found to be correct.

Retracements.

September 29, 1926.

Beginning at Cor. No. 7 of H.E.S. 586, an iron post 2 ins. dia.

18 ins. above ground with brass cap marked and witnessed as de-

scribed by the Office of Public Surveys. (Erroneously recorded in field notes of H.E.S. 586 as sandstone 6x8x8 ins. above ground.)

Thence S. 82°22' W.

Retracing line 7-1 of H.E.S. 586.

31.19 Fall 12 lks. N. 8°38' W. of Cor. No. 1 H.E.S. 586, an iron post

2 ins. dia. 12 ins. above ground with brass cap marked and wit-

nessed as described by the Office of Public Surveys.

True line is S. 82°09' W. 31.19 chs.

Note: The record course and distance of this line is S. 82°22' W.

31.36 chs. I therefore rerun this line to verify my measurement of 31.19 chs.

From Cor. No. 1 - H.E.S. 586

Thence N. 1°02' E. (Record N. 0°24' E. 5.00)

For flag on Cor. No. 2, H.E.S. 586 which is plainly visible.

5.00 To Cor. No. 2, H.E.S. 586, an iron post 2 ins. dia. 18 ins. above

ground marked and witnessed as described by Office of Public

Surveys. Also Cor. No. 7 of H.E.S. 584.

Thence S. 88°39' E. (Record course S. 89°19' E.)

For flag on Cor. No. 3, H.E.S. 586 which is plainly visible.

4.99 To Cor. No. 3, H.E.S. No. 586, and Cor. No. 6 H.E.S. No. 584.

A gray stone 11x10x10 ins. above ground marked and witnessed as described by Office of Public Surveys.



TONTON NATIONAL FOREST

STATE OF ARIZONA

Chains

Boundaries of Claim.

September 29, 1926.

Beginning at Cor. No. 1

Deposit a sandstone 1x2x4 ins. marked with a / 14 ins. in the ground, over which set a sandstone 24x6x10 ins. marked / on top and 1 H.E.S. 645 on northeast face, raise a mound of stone 2 ft. base 1-1/2 ft. high northeast of Cor. whence:

A pine 10 ins. dia. bears N. 79°43' E. 69 lks.

A pine 24 ins. dia. bears N. 48°24' E. 180 lks.

Each marked 1 H.E.S. 645 / B.T.

The 1/4 Sec. cor. on north boundary of Sec. 4, T. 9 N., R. 13 E. a diabase stone 8x6x5 ins. above ground marked and witnessed as described by the Office of Public Surveys, bears S. 61°52'57" W. 131.55 chs. dist. by traverse which appears at the end of these notes.

Note: It was more convenient to tie this survey to the 1/4 Sec. cor. on the north boundary of Sec. 4, T. 9 N., R. 13 E. than to any of the nearer corners on north boundary of T. 9 N., R. 13 E. Tie to other than the above cor. would be over very rough mountainous land covered with heavy stand of juniper.

Cor. No. 8 of H.E.S. 142 - a granite stone 8x8x10 ins. above ground marked and witnessed as described by Office of Public Surveys bears S. 83°12'54" W. 80.24 chs. dist. by traverse which appears at end of these notes.

Lat. 34°10'20" N., Long. 110°59'35" W. from Forest Service Base Map. The mag. decl. at 9 a.m. is 12°45' E. Mean mag. decl. is 12°43' E. Thence N. 51°21' W.

Desc. gradually over open NW slope.

6.25 Marsh Creek (dry) 60 lks. wide banks, 1 ft. high, course SW - ascending over steep rolling SE slope through dense oak brush.

31.55 To Cor. No. 2

Identical with cor. No. 1 of H.E.S. 586 (also Cor. No. 8 H.E.S. 584) previously described. I mark same Cor. 2 H.E.S. 645 in SE quadrant of brass cap for Cor. No. 2 of this survey.



TONTO NATIONAL FOREST

STATE OF ARIZONA

4.

Chains	Thence N. 82°09' E. Along line 1-7 of H.E.S. 586 over rolling land.
31.19	To Cor. No. 3 Identical with Cor. No. 7 of H.E.S. 586 previously described. I mark same Cor., 3 H.E.S. 645 in SW quadrant of brass cap for Cor. No. 3 of this survey.
	Thence S. 6°10' E. Desc. along point of ridge bears S. inside of fence.
10.15	Cross fence - bears NE and SW.
10.80	Marsh Creek (Dry) 50 lks. wide banks 7 ft. high course S. 25° W. Thence over level bottom land.
11.70	Ranch road bears N. 25° E. and S. 25° W.
15.18	To Cor. No. 4. Deposit a sandstone 2x5x10 ins. marked with a / 16 ins. in the ground, over which set a sandstone 24x8x10 ins. marked / for the point and 4 H.E.S. 645 on NW face; raise mound of stone 2 ft. base 1-1/2 ft. high NW of Cor. whence: Pine 20 ins. dia. bears S: 9°52' W. 37 lks. Pine 24 ins. dia. bears N. 51°37' E. 139 lks. Each marked 4 H.E.S. 645 / B.T.
	Thence S. 41°40' W. Over bottom land.
2.30	Low spur ridge bears northwesterly, thence across foot NW slope thru edge of scattering juniper and walnut.
11.82	To Cor. No. 1 the point of beginning. September 29, 1926.
	Area. Total area . . . . . 42.27 acres.



Chains.

Improvements.

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

A frame and log dwelling the long side of which bears NE and SW with 10 ft. frame rooms on north and south corners. The South corner of building bears N. 11°15' W. 6.82 chs, from Cor. No. 1.

Value . . . . . \$500.00

A frame chicken house 12x18 ft., the long side extending NE and SW the South end of which bears N. 32°18' W. 7.43 chs. from Cor. No. 1.

Value . . . . . \$ 20.00

There is approximately 1/2 mile of barb wire fence on the claim.

Value . . . . . \$ 50.00

Description.

The claim is situated near the head of Marsh Creek, and is comprised of approximately 6 acres of arable land on the Creek bottom - suitable for small garden patch - and about 36 acres of steep brushy hillside suitable for stock pasture. Water for domestic purposes and for a small number of stock is obtained from a seep in the bed of Marsh Creek near the house. There is no timber of merchantable value on the claim.

I saw no indication of mineral on the claim.

Conflicts & Adjoining Claims.

The claim is joined on the north by H.E.S. 586, belonging to Geo. Spurlock, who has also applied for the area covered by this survey. Line 7-1 of H.E.S. 586 is identical with line 2-3 of this survey. Cor. No. 8 of H.E.S. 584 is also identical with Cor. No. 2 of this survey. H.E.S. 585 lies about 45 chs. to the north, and H.E.S. 142 lies southwesterly about 3/4 miles.

Young, Arizona, the nearest post office and trading point, lies about 8 miles distant in a southeasterly direction and is reached by fair wagon road.

Note: The discrepancy between the tie from this survey and HES. 586 to the 1/4 Sec. Cor. on N. Bdy. Sec. 4, T. 9 N., R. 13 E. is due to error in the tie of HES NO. 586 as developed by the retracements made by me of the lines of HES. No. 586.



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HOMESTEAD ENTRY SURVEY NO. 645

TONTO NATIONAL FOREST

STATE OF ARIZONA

6.

Chains	Tie Cor. 1 H.E.S. 645 to 1/4 Cor. N. bdy. Sec. 4, T. 9 N., R. 13 E.				
	N.51°21' W.	31.55	19.70		24.64
	S.24°18' W.	9.73		8.87	4.00
	S.36°25' W.	13.44		10.82	7.98
	S.23°41' W.	2.46		2.25	.99
	S.81°49' W.	65.18		9.28	64.52
	S. 1°27' E.	20.10		20.09	.51
	S.88°19' W.	25.04		.74	25.03
	S. 0°56' E.	4.94		4.94	.08
	S.87°56' W.	9.72		.35	9.71
	S. 0°34' E.	19.86		19.86	.19
	N.88°15' E.	10.06	.31		10.06
	S.64°20' E.	11.10		4.81	10.00
			20.01	82.01	20.84
				20.01	20.84
				62.00	116.03
	Resultant course S. 61°52'57" W. 131.55 chs.				

	Traverse of tie to Cor. No. 8, H.E.S. 142				
	N.51°21' W.	31.55	19.70		24.64
	S.24°18' W.	9.73		8.87	4.00
	S.36°25' W.	13.44		10.82	7.98
	S.23°41' W.	2.46		2.25	.99
	S.81°49' W.	65.18		9.28	64.52
	N.84°49' E.	22.54	2.04		22.45
			21.74	31.22	22.45
				21.74	22.45
				9.48	79.68
	Resultant Course S. 85°12'54" W. 80.24 chs.				

Survey completed September 29, 1926.

*Thomas J. Myers*  
 Chief Surveyor, Forest Service.



- DIRECTIONS.—1. Carry out calculations to two decimals only.  
 2. In balancing Latitudes and Departures do not obliterate or change the original figures.  
 Put the corrected figure or figures above in red ink. Do not change the footing of the original figures, but put below them the corrected footing in red ink.  
 The corrections for balancing fallings should be proportional to the lengths of the lines.  
 3. In calculations of fallings take result to nearest link. In calculations of N. and S. areas drop all after second decimal. Surveyors are required to use the Standard Field Tables issued by the G. L. O.  
 4. Only three copies of this tabulation are necessary, for the District Office, the Surveyor General, and the Commissioner.

TABLING AND CALCULATIONS OF HOMESTEAD ENTRY SURVEY NO. 645, STATE OF ARIZONA

8-2349

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.		S. AREAS.	
			NORTH.	SOUTH.	EAST.	WEST.					
1-2	N. 51°21' W.	31.55	19 70 <sup>68</sup>			24 64 <sup>66</sup>	24 66	485 31			
2-3	N. 82°09' E.	31.19	4 26 <sup>24</sup>		30 90 <sup>89</sup>		30 89	130 97			
3-4	S. 6°10' E.	15.18		15 09	1 63		63 41			956 86	
4-1	S. 41°40' W.	11.82		8 83		7 86	57 18			504 90	
		89.74	23 96	23 92	32 53	32 50		616 28		1461 76	
			23 92		32 50					616 28	
	Error in lat. and dep.		04		03					20 845 48	
	Closing Error 1/1795									42 27 acres.	
	Tie to 1/4 Sec. Cor. no. tie of		58.6 to 1/4 Sec. Cor.								
	S 13°58'54" W	28.90		86 27		21 48					
	N 89°57' W	80	07			80					
	N 61°52'57" E	131.55	62 00		116 03						
	N 51°21' W	31.55	19 70			24 64					
			81 77	86 27		126 12					
				81 77		116 03					
		Error		4 50		10 09					
	Tie no. to 142										
	1/4 Cor. to Cor. 1-645	N 61°52'57" E	131.55		116 03						
	1-645 to Cor. 2-142	S 83°12'54" W	80.24	9 48		79 68					
	Cor. 2-142 to 1-142	(See traverse with interior of 142)	46	49 13	1 29	47 67					
	1-142 to 1/4 Cor	S 64°20' E	11.10	4 80	10 00						
			62 46	62 41	127 22	127 35					

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APPROVAL

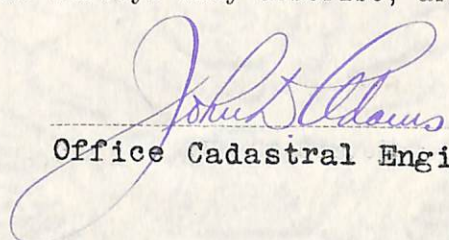
Office of PUBLIC SURVEY OFFICE, General,

Phoenix, Arizona, December 14 , 1927

The foregoing field notes of Homestead Entry Survey No.

645

executed by **Thomas F. Myers, Chief Surveyor,** [Forest Service Title.]  
under his special instructions, dated **September 29** , 1925, having  
been critically examined, and the necessary corrections and explanations  
made, the said field notes, and the surveys they describe, are hereby  
approved.

  
Office Cadastral Engineer.

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.

**John D. Adams**  
Office Cadastral Engineer.



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ALBANY

UNIVERSITY OF THE STATE OF NEW YORK

THE STATE COLLEGE OF AGRICULTURE

THE UNIVERSITY OF THE STATE OF NEW YORK

Examined and analyzed the following specimens  
under the following instructions, dated 10/10/1911  
and critically examined, and the results of the analysis  
and the nature of the specimens, are as follows:

