

165

U. S. DEPARTMENT OF AGRICULTURE

FOREST SERVICE

JUL 20 1917
JUL 2-1917
MAY-2 1918

FIELD NOTES

OF

HOMESTEAD ENTRY SURVEY NO. 387

SITUATED IN THE COCONINO NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

In Section 4, unsurveyed, Township 14 N., Range 9 E.

In Section 9, unsurveyed, Township 14 N., Range 9 E.

of the

Gila and Salt River Base and Meridian.

State of

ARIZONA

6

Applicant for listing **Uriah Reid,**
 Residence **Pine, Arizona**
 Application No. **156**, dated **April 8**, 19**10**
 List No. **3-907**, dated **December 12**, 19**10**

Applicant for survey **Uriah Reid,**
 Residence **Pine, Arizona**
 H. E. No. **014749**, dated **June 29**, 19**11**
 Office **Phoenix, Arizona**
 Land District

Survey executed by **R. P. A. Johnson,** Surveyor - Draftsman
 [Forest Service Title.]
 Under special instructions dated **July 9**, 19**15**
 Survey commenced **May 29**, 19**16**
 Survey completed **May 29**, 19**16**
 Under Acts of **June 11, 1906 and March 4, 1915**

OATH OF ASSISTANTS

We hereby certify that we assisted R. P. A. Johnson in surveying all those parts or portions of Homestead Entry Survey No. 387, 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.

Nelson Newman, Chairman

Orin Childers, Chairman

Subscribed and sworn to before me this 21st day of July, 1916.

R. P. A. Johnson
 Surveyor Draftsman

OATH OF SURVEYOR

I, R. P. A. Johnson, Surveyor Draftsman do solemnly swear that, in strict conformity with the special instructions of the United States Surveyor General for Arizona, dated July 9, 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

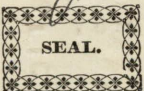
List Patent, No. 3-907, dated December 12, 1910, for the same to be known as Homestead Entry Survey No. 387, situated within the Coconino National Forest, in unsurveyed Section 4, Township 14N, Range 9E, and unsurveyed Section 9, Township 14N, Range 9E,

of the Gila and Salt River Meridian, Arizona, and the related retracements and resurveys and section subdivisions, which are represented in the following field notes as having been surveyed by me; and I further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the stated special instructions, and in the specific manner described in the field notes, and that the following are the original field notes of such survey.

R. P. A. Johnson
 Surveyor Draftsman
 [Forest Service Title.]

Subscribed and sworn to before me this 23rd day of January, 1917.

Sylvester L. McFerrin
 NOTARY PUBLIC, D. C.



8-2349

Commission expires
 June 20, 1918.

COCONINO NATIONAL FOREST

STATE OF ARIZONA

Chains

Applicant for listing, Uriah Reid; Application No. 156, dated April 8, 1910; List No. 3-907, dated December 12, 1910; H. E. 014749, made in the Phoenix Land Office on June 29, 1911 by Uriah Reid.

Surveyed under special instructions from the Surveyor General for Arizona, dated July 9, 1915 and designated as Homestead Entry Survey No. 387.

Situated in what will probably be, when surveyed, secs. 4 and 9, T. 14 N., R. 9 E., Gila and Salt River Base and Meridian, Coconino National Forest, Arizona.

Surveyed under the Acts of June 11, 1906 and March 4, 1915.

Survey commenced May 29, 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.

May 29, 1916.

At 7h. 30m. a.m., l.m.t., I set off $34^{\circ} 37\text{-}1/2'$ on Lat. arc, $21^{\circ} 38\text{-}1/2'$ N. on decl. arc, and determine a meridian with the solar at cor. No. 1, hereafter described. I observe the altitude of the sun for azimuth at cor. No. 1 of this survey. The reading on the meridian determined by solar is set at zero and the sun was observed in the lower left and upper right quadrants of the field. My watch is set for local mean time.

Lat. $34^{\circ} 37' 30''$ N., Long. $111^{\circ} 24' 10''$ W., from special instructions from the Surveyor General and later verified.

Chains

Telescope	Time	Horizontal Angle	Vertical Angle
Direct	7h.35m.20s.	84° 36' 00"	32° 02' 00"
Reversed	7h.36m.22s.	84° 06' 30"	31° 41' 00"

The meridian thus determined differs 0° 00' 36" from the meridian determined with solar.

I again observe the altitude of the sun for azimuth at cor. No. 1 of this survey. The reading on the meridian determined by solar is set at zero and the sun was observed in the lower left and upper right quadrants of the field.

Telescope	Time	Horizontal Angle	Vertical Angle
Direct	7h.38m.20s.	84° 59' 00"	32° 39' 00"
Reversed	7h.39m.09s.	84° 27' 30"	32° 16' 00"

The meridian thus determined differs 0° 00' 01" from the meridian determined with solar.

The mean of these is N. 0° 00' 19" E., and to the corresponding meridian all the courses of this survey are referred.

BOUNDARIES OF CLAIM

Beginning at cor. No. 1.

Identical with cor. H-1 of the list survey, which is a pine post 4 x 3 x 10 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. Deposit a lava stone 5 x 3 x 2 ins. marked with a + 14 ins. in the ground, over which set a lava stone 24 x 12 x 8 ins., chiseled + for the point and 1 - H E S 387 on S. face; and raise a mound of stone 3 ft. base, 2 ft. high S. of cor.,

whence:

- A yellow pine, 6 ins. dia., bears N. 83° 23' E., 64 lks. dist., scribed
- 1 H E S 387 + B T.

COCONINO NATIONAL FOREST

STATE OF ARIZONA

Chains

A yellow pine, 28 ins. dia., bears N. 11° 44' E., 174 lks. dist., scribed 1 H E S 387 + B T. 1/4 sec. cor. bet. secs. 4 and 33, Ts. 14 and 15 N., R. 9 E., which is a post marked and witnessed as described by the Surveyor General, bears N. 14° 21' 56" W., 64.57 chs. dist., by traverse which appears at the end of these notes.

Note: Post is decayed, therefore restore 1/4 cor. as follows:

Deposit a lava stone 6 x 3 x 2 ins. marked with a cross, 14 ins. in the ground, over which set a lava stone 24 x 8 x 4 ins. marked 1/4 on N. face; and raise a mound of stone 3 ft. base, 2 ft. high N. of cor.

Lat. 34° 37' 30" N., Long. 111° 24' 10" W., from special instructions of the Surveyor General and later verified. Mag. decl. at 8:00 a.m., 14° 30' E. Mean mag. decl. 14° 27' E.

Thence S. 35° 55' E.

Over level open park, along edge of cultivated land. Fence on line.

2.90 Cor. cultivated land. Cultivation bears SW. Leave cultivated land.

3.07 Arroyo, 20 lks. wide, 2 ft. deep, course S. 12° E.

11.78 Road, bears N. 70° E. and S. 70° W.

13.40 Fence cor., fence bears S. 61° 15' W. Leave fence.

13.60 To cor. No. 2.

Identical with cor. H-4 of the list survey, which is a pine post 4 x 3 x 10 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. Deposit a lava stone 5 x 4 x 2 ins. marked with a + 14 ins. in the ground, over which set a lava stone 24 x 16 x 3 ins., chiseled + for

Chains

the point and 2 - H E S 387 on W. face; and raise a mound of stone 3 ft. base, 2 ft. high W. of cor., whence:

A yellow pine, 8 ins. dia., bears S. 6° 44' W., 63 lks. dist., scribed 2 H E S 387 + B T.

A yellow pine, 20 ins. dia., bears S. 38° 08' W., 104 lks. dist., scribed 2 H E S 387 + B T.

Thence S. 60° 58' W.

Over level land in edge of timber.

15.68 To cor. No. 3.

Identical with cor. H-3 of the list survey, which is a pine post 3 x 3 x 8 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. Deposit a lava stone 4 x 4 x 2 ins. marked with a + 14 ins. in the ground, over which set a lava stone 24 x 12 x 9 ins., chiseled + for the point and 3 - H E S 387 on N. face; and raise a mound of stone 3 ft. base, 2 ft. high N. of cor., whence:

A yellow pine, 36 ins. dia., bears N. 68° 04' W., 31 lks. dist., scribed 3 H E S 387 + B T.

A yellow pine, 34 ins. dia., bears S. 65° 43' W., 64 lks. dist., scribed 3 H E S 387 + B T.

Thence N. 47° 27' W.

Over level land in edge of timber.

0.10 Fence cor., fence bears N. 61° 15' E. and along line.

14.74 To cor. No. 4.

Identical with cor. H-2 of the list survey, which is a pine post 3 x 3 x 12 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. Deposit a lava stone 4 x 1 x 1 ins. marked with a + 14 ins. in the ground, over

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COCONINO NATIONAL FOREST

STATE OF ARIZONA

Chains

which set a lava stone 24 x 8 x 6 ins., chiseled + for the point and 4- H E S 387 on E. face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high E. of cor., whence:

A yellow pine, 24 ins. dia., bears S. 13° 30' W., 81 lks. dist., scribed 4 H E S 387 + B T.

A yellow pine, 28 ins. dia., bears N. 83° 31' W., 72 lks. dist., scribed 4 H E S 387 + B T.

Cor. No. 3 H E S 388, which is a lava stone 12 x 8 x 10 ins. above ground, marked 3 - H E S 388 on SW. face, bears S. 2° 29' 58" W., 52.51 chs. , by traverse which appears at the end of these notes.

At this cor. I set off 21° 40' N. on decl. arc, and at 11h. 57m. 11s. 1.m.t., observe the sun on the meridian. The resulting Lat. is 34° 37' .

Thence N. 62° 28' E.

Over open level land. Fence on line.

- 1.20 Arroyo, 20 lks. wide, 2 ft. deep, course WNW.
- 11.12 Cor. cultivated land. Cultivation bears SE. and along line.
- 18.71 Cor. No. 1, the place of beginning.

AREA

Total Area - - - - - 23.55 acres.

IMPROVEMENTS

The improvements made upon this claim consist of the following:

A frame dwelling, 24 x 16 ft., the long side of which bears NE. and SW. and E. cor. of which bears S. 68° 19' W., 3.36 chs. dist. from cor. No. 2.

Value - - - - - \$100.00

COCONINO NATIONAL FOREST

STATE OF ARIZONA

Chains

There is approximately 3/4 of a mile of wire fence.

Value - - - - - \$ 75.00

DESCRIPTION

This claim is situated on large mesa and consists of a small open park surrounded on all sides by heavy timber and lies at an elevation of 6900 ft.

There is no timber on tract with exception of a few yellow pine trees along SE. and SW. boundary lines.

The soil is a clay loam of good depth and is free from outcrops, but has a few scattered surface rocks.

There is no water for irrigation or domestic use.

I saw no indications of mineral upon the claim.

There is approximately 2 acres of the claim in cultivation.

At time of survey, this homestead was unoccupied.

CONFLICTS AND ADJOINING CLAIMS

There are no conflicting or adjoining claims. H. E. S. 388 of Giles Goswick, is approximately 1/2 mile to South.

Flagstaff, Arizona, the nearest railroad point is 60 miles to North, and Pine, Arizona, the nearest post office, is 25 miles to South. H. E. S. No. 394 of Thomas J. Willis, lies approximately 3/4 mile to NE. and H.E.S. No. 388 is about one-half mile south.

TRAVERSE

Cor.	Course	Dist.	N	S	E	W
1-2	S. 35° 55' E.	13.60		11.01	7.98	
2-3	S. 60° 58' W.	15.68		7.61		13.71
3-4	N. 47° 27' W.	14.74	9.97			10.86
4-1	N. 62° 28' E.	18.71	8.65		16.59	
		62.73	18.62	18.62	24.57	24.57
	Error in Lat. and Dep.			18.62		24.57
				.00		.00

Closing error, None.

Survey completed May 29, 1916.

R. H. Johnson

Surveyor - Draftsman

HOMESTEAD ENTRY SURVEY NO 387

COCONINO NATIONAL FOREST

STATE OF ARIZONA

Chains

Direct Solar, May 29, 1916 at cor. No. 1, H. E. S.
387.

Lat. $34^{\circ} 37' 30''$ N. Long. $111^{\circ} 24' 10''$ W. Elevation
6900 ft.

Telescope	Time	Horizontal Angle	Vertical Angle	Pos. Sun
Direct	7h. 35m. 20s.	$84^{\circ} 36' 00''$	$32^{\circ} 02' 00''$	+°
Reversed	7h. 36m. 22s.	$84^{\circ} 06' 30''$	$31^{\circ} 41' 00''$	+°
	7h. 35m. 51s.	$84^{\circ} 21' 15''$	$31^{\circ} 51' 30''$	
			$01' 14''$ refrac.	
			$31^{\circ} 50' 16''$	

Decl. $21^{\circ} 38' 00''$ N.

$$\text{Cos. } Q. = \frac{\sin. 21^{\circ} 38' 00'' \text{ N.}}{\cos. 34^{\circ} 37' 30'' \times \cos. 35^{\circ} 50' 16'' \text{ N.} \times \tan. 34^{\circ} 37' 30'' \text{ N.} \times \tan. 35^{\circ} 50' 16''}$$

log. sin. $21^{\circ} 38' 00'' = +9.566632$ ✓

log. cos. $34^{\circ} 37' 30'' = -9.915341$ ✓

log. cos. $31^{\circ} 50' 16'' = -9.929186$ ✓

$9.722105 = \log. .52736$ ✓

log. tan. $34^{\circ} 37' 30'' = 9.839162$ ✓

log. tan. $31^{\circ} 50' 16'' = 9.793049$ ✓

$9.632211 = \log. .42876$ ✓

Cos. Q. = .09860

Q. = $84^{\circ} 20' 29''$ ✓

Difference from solar meridian $0^{\circ} 00' 36''$.

HOMESTEAD ENTRY SURVEY NO. 101

NATIONAL FOREST

STATE OF ARIZONA

Chains	Direct Solar, May 22, 1916 at cor. No. 1, E. E. B. B. B.	Chains
	287.	
	Lat. 34° 37' 30" N. Long. 111° 04' 10" W. Elevation	6900 ft.
Pos. Sum	Telescope	Time
	Vertical angle	Horizontal angle
+	Direct Vn. 35m. 20s. 84° 33' 00" 33° 03' 00"	
+	Reversed Vn. 35m. 22s. 84° 03' 30" 31° 41' 00"	
	Vn. 35m. 51s. 84° 21' 15" 31° 21' 30"	
	31° 30' 18"	
	Decl. 21° 38' 00" N.	
	Cor. C. =	
	cos. 34° 37' 30" x cos. 35° 30' 15"	
	tan. 34° 37' 30" N. x tan. 35° 30' 15"	
	log. sin. 21° 38' 00" = +0.56663	
	log. cos. 34° 37' 30" = -0.91841	
	log. cos. 31° 50' 15" = -0.92818	
	log. tan. 34° 37' 30" = 0.83913	
	log. tan. 31° 50' 15" = 0.79303	
	log. C. =	
	log. C. = 84° 30' 25"	
	Difference from solar meridian 0° 00' 45"	

HOMESTEAD ENTRY SURVEY NO. 387

COCONINO NATIONAL FOREST

STATE OF NEW MEXICO.

Chains

Direct Solar, May 29, 1916 at cor. No. 1, H. E. S.
387.

Lat. 34° 37' 30" N. Long. 111° 24' 10" W. Elevation
6900 ft.

Telescope	Time	Horizontal Angle	Vertical Angle
Direct	7h. 38m. 20s.	84° 59' 00"	32° 39' 00"
Reverse	7h. 39m. 09s.	84° 27' 30"	32° 16' 00"
	7h. 38m. 44s.	84° 43' 15" ref.	32° 27' 30" ✓ 01' 10" ✓
			32° 26' 20" ✓

Decl. 21° 38' 02" N. ✓

$$\text{Cos. Q.} = \frac{\sin. 21^\circ 38' 02''}{\cos. 34^\circ 37' 30'' \times \cos. 32^\circ 26' 20'' - \tan. 34^\circ 27' 30'' \times \tan. 32^\circ 26' 30''}$$

log. sin. 21° 38' 02" = + 9.566643 ✓
 log. cos. 34° 37' 30" = - 9.915341 ✓
 log. cos. 32° 26' 20" = - 9.926324 ✓
 9.724978 ✓ = log. .53086 ✓
 log. tan. 34° 37' 30" = 9.839162 ✓
 log. tan. 32° 26' 20" = 9.803165 ✓
 9.642327 ✓ = log. .43886 ✓
 Cos. Q. = .09200 ✓
 Q. = 84° 43' 16" ✓
 Difference from solar meridian = 0° 00' 01" ✓

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. 387, STATE OF ARIZONA.

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.	S. AREAS.
			NORTH.	SOUTH.	EAST.	WEST.			
1-2	S. 35° 55' E.	13.60		11 01	7 98		41 16	453 17 ✓	
2-3	S. 60° 58' W.	15.68		7 61		13 71	35 43	269 62 ✓	
3-4	N. 47° 27' W.	14.74	9 97			10 86	10 86		108 27 ✓
4-1	N. 62° 28' E.	18.71	8 65		16 59		16 59		143 50 ✓
		62.73	18 62	18 62	24 57	24 57		722 79	
			18 62	18 62	24 57	24 57		251 77	
								20/471 02	
								23 55 Acres.	
	Error of Closure. None.								

177

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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. 387, STATE OF ARIZONA.

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.	S. AREAS.	
			NORTH.	SOUTH.	EAST.	WEST.				
			Tie Traverses.							
			Cor. 1 to 1/4 sec. cor. bet. secs. 4 and 33, Tps. 14 and 15 N., R. 9 E.							
	N. 12° 30' W.	17.91	17 49			3 88				
	N. 12° 35' W.	20.32	19 83			4 43				
	N. 14° 40' W.	10.01	9 68			2 53				
	N. 7° 50' W.	5.02	4 97			68				
	N. 11° 19' W.	9.98	9 79			1 96				
	N. 72° 46' W.	2.66	79			2 54				
			62 55			16 02				
	Resultant course, N. 14° 21' 56" W., 64.57 chs.									
			Cor. No. 4 H. E. S. 387 to Cor. No. 3 H. E. S. 388.							
	S. 62° 33' W.	20.00		9 22		17 75				
	S. 9° 55' E.	12.33		12 15	2 12		log. 2.29	10.359835		
	S. 0° 41' W.	19.19		19 19		23	log. 52.46	1.719828		
	S. 48° 45' E.	18.05		11 90	13 57			8.640007 = log. tan. 2° 29' 58"		
				52 46	15 69		log. 52.46	1.719828		
				0 00			log. cos. 2° 29' 58" = 9.999586			
				52 46				1.720242 = log. 52.51		
	Resultant course, S. 2° 29' 58" W., 52.51 chs.									

179

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APPROVAL

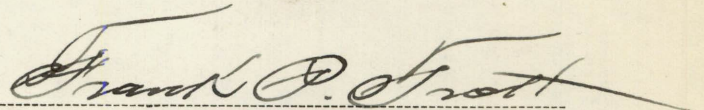
Office of the United States Surveyor General,

Phoenix, Arizona, June 14, 1918

The foregoing field notes of Homestead Entry Survey No.

387

executed by R. P. A. Johnson, Surveyor. Draftsman
[Forest Service Title.]
under his special instructions, dated July 9, 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.