

U. S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE

AUG 2 1915

AUG 3 1914

AUG 18 1914

FIELD NOTES

OF

HOMESTEAD ENTRY SURVEY NO. 113

SITUATED IN THE

CROOK NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

in

Section 16, unsurveyed, Township 1 S., Range 15 E.

Section 17, unsurveyed, Township 1 S., Range 15 E.

Section 18, unsurveyed, Township 1 S., Range 15 E.

of the

Gila and Salt River Base and Meridian.

ARIZONA

Survey executed by Walter G. Turley, Forest Service Surveyor

Under special instructions dated October 30, 1913.

Survey commenced January 12, 1914.

Survey completed January 12, 1914.

Under Acts of June 11, 1906 and March 4, 1913.

Applicant for listing C. W. Shepard

Residence Globe, Arizona

Application No. 42, dated June 23, 1908.

List No. 3-261, dated September 22, 1909.

Applicant for survey C. W. Shepard

Residence Globe, Arizona

H. E. No. 07972, dated February 8, 1910.

Land district Phoenix, Arizona.

OATH OF ASSISTANTS

We hereby certify that we assisted Walter G. Turley,
Forest Service Surveyor in surveying all those
 parts or portions of Homestead Entry Survey No. 113, in
~~unsurveyed Section 16~~, Township 1 S., Range 15 E.,
~~unsurveyed Section 17~~, Township 1 S., Range 15 E.,
~~unsurveyed Section 18~~, Township 1 S., Range 15 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.

Benjamin F. Haberer Chainmen
Joseph H. Woolsey Chainmen

Subscribed and sworn to before me this 2nd day of
February, 1914.

Walter G. Turley
Forest Service Surveyor

OATH OF SURVEYOR

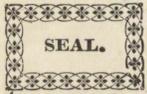
I, Walter G. Turley, Forest Service Surveyor, do solemnly swear
 that, in strict conformity with the special instructions of
 the United States Surveyor General for Arizona, dated
October 30, 1913, and the laws of the United States, I have
 well, faithfully, and truly, in my own proper person, sur-
 veyed a tract of land ~~upon the application of~~ embraced in
List, No. 3-261, dated Sept. 22, 1909, for
Patent, under the Act of June 11, 1909,
 the same to be known as Homestead Entry Survey No. 113,
 situated within the CROOK National Forest, in
~~unsurveyed Section 8~~, Township 1 S., Range 15 E., and
~~unsurveyed Section 16~~, Township 1 S., Range 15 E.,
~~unsurveyed Section 17~~, Township 1 S., Range 15 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
Forest Service Surveyor

Subscribed and sworn to before me this 21st day of
February, 1914.

Walter G. Scott
Notary Public



By Commission Expires July 1, 1917

CROOK NATIONAL FOREST

ARIZONA

Chains

Applicant for listing C. W. Shepard, Application No. 42 dated June 23, 1908, List No. 3-261 dated September 22, 1909. H. E. No. 07972 made by C. W. Shepard at Phoenix, Arizona, dated February 8, 1910.

Surveyed under Special Instructions from the Surveyor General for Arizona, dated October 30, 1913, and designated as Homestead Entry Survey No. 113.

Situated in unsurveyed T. 1 S., R. 15 E., G. & S. R. B. and Meridian in what will probably be, when surveyed, Sections 16 and 17, within the Crook National Forest, Arizona.

Listed under the Act of June 11, 1906, and survey authorized by the Acts of June 11, 1906 and March 4, 1913.

Survey commenced January 12, 1914, and executed with a W. & L. E. Gurley light mountain transit No. 12953, with vertical circle and a Burt solar attachment; the horizontal limb having two double verniers placed opposite and reading to single minutes of arc, which is also the least graduation of the meridian of the latitude and declination arcs.

The instrument was examined, tested and all necessary adjustments made to the levels, line of collimation, stadia interval and solar attachment.

The stadia is adjusted to read 1:132; and all measurements were made on the slope, and reduced to the horizontal with a 400 link steel tape and a Philadelphia stadia rod graduated to feet and hundredths, with target verniers reading to thousandths.

January 12, 1914:

I observe the altitude of the sun for azimuth at Cor. H-2 of the List Survey which is an imbedded granite boulder 60 x 48 x 60 ins. above ground marked and

CROOK NATIONAL FOREST

ARIZONA

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witnessed as described by the Forest Service.

The reading on the reference object was set at zero; and my watch is set for local mean time. Latitude of station 33° 20' 54" N. Longitude 110° 47' 49" W. obtained from the Special Instructions of the Surveyor General. The sun was observed in the lower left and upper right quadrants of the field in both observations:

Horiz. Ang	Vert. Ang.	h.	m.	S.
42° 08'	32° 12'	10	48	05
41° 48'	31° 35'	10	49	25
Second observation.				
43° 29'	32° 34'	10	53	10
43° 05'	31° 58'	10	54	30

Bearing of object by 1st. obsn. S. 63° 30' 00" E.

Bearing of object by 2nd. obsn. S. 63° 30' 12" E.

The mean of these is S. 63° 30' 06" E. and to the

corresponding meridian all the courses of the survey stated in these field notes are referred.

January 12, 1914.

At 2h. 00m. p.m., l.m.t., I set off 21° 39' S. on the decl. arc and 33° 21' on the lat. arc and determine

a meridian with the solar at Cor. H-2 of the List Survey, heretofore described, and my line of sight falls

upon the meridian as determined at this station by observing the altitude of the sun for azimuth, as heretofore described. Therefore I conclude that my transit

is in satisfactory adjustment.

January 12, 1914.

At 2h. 45m. p.m., l. m. t., I set off 21° 38' S. on the decl. arc and 33° 23' on the lat. arc and

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determine a meridian with the solar at the S. C. Secs. 33 and 34, T. 1 N., R. 15 E., G. & S. R. B. & Meridian, which is a granite stone 8 x 8 x 6 ins. above ground marked and witnessed as described by the Surveyor General.

153.03

Thence S. 5° 32' W. for a tie.
Cor. H-2 of the List Survey heretofore described.
Therefore the S. C. Secs. 33 and 34, T. 1. N., R. 15 E., G. & S. R. B. & Meridian bears N. 5° 32' E. 1 mi. 73.03 chs. dist. from Cor. No. 1 of this Survey.

I destroy all trace of Cor. H-2 of the List Survey, heretofore described, and mark a cross on the apex of the same boulder for Cor. No. 1 of this Survey, and 1-HES 113 on the S. face; and raise a mound of stone 2 ft. base 1-1/2 ft. high S. of Cor. from which, A cross on an imbedded granite boulder 48 x 24 x 24 ins. above ground bears S. 1° 16' W. 40

lks. dist. marked 1 H E S 113 B R.

Cor. H-1, H. E. 012755, Henry W. Piper, unsurveyed H. E. S. 114 bears N. 63° 30' W. 98 lks. No other bearings available. Pits impracticable.

I observe the magnetic declination at Cor. No. 1 of this Survey to be 13° 42' E. at 3h. 00m. p. m., 1. m. t., which reduced by Table G, Manual of 1894 Diurnal Variation in Magnetic Declination, gives a mean magnetic declination of 13° 44' E.

Thence S. 63° 30' E.
Along line H-1 to H-2 of H. E. 012755, H. W. Piper unsurveyed H. E. S. 114,
Descend 75 ft. along SE. slope to Creek.

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ARIZONA

Chains	
2.53	Road bears NE. and SW.
4.26	Water course in Russell Gulch, 50 lks. wide, banks 2 ft.
	high, course NE. Ascend NW. slope 25 ft. to Cor.
9.98	To Cor. No. 2.
	Identical with Cor. H-1 of the List Survey, also Cor.
	H-4, H. E. 012755 H. W. Piper, unsurveyed H. E. S.
	114, which is an imbedded granite boulder 24 x 24
	x 12 ins. above ground marked and witnessed as des-
	cribed by the Forest Service. I destroy all trace of
	this List Cor. which refers to this claim and mark a
	cross on the apex of the same stone for Cor. No. 2
	of this Survey, and 2-HES 113 on the W. face; and
	raise a mound of stone 2 ft. base 1-1/2 ft. high W.
	of Cor. from which:
	A manzanita 4 ins. dia. bears S. 21° 39' E. 53
	lks. dist. marked 2 H E S 113 B T.
	A manzanita 4 ins. dia. bears N. 58° 47' W. 21
	lks. dist. marked 2 H E S 113 B. T.
	Thence S. 53° 28' W.
	Along NW. slope in undergrowth.
19.80	Ravine course N. Ascend NW. slope in undergrowth 100
	ft. to Cor.
61.63	To Cor. No. 3.
	Identical with Cor. H-4 of the List Survey, which is an
	imbedded granite stone 30 x 12 x 6 ins. above ground
	marked and witnessed as described by the Forest
	Service. I destroy all trace of this List. Cor. and
	mark a cross on the apex of the same stone for Cor.
	No. 3 of this Survey and 3-HES 113 on the N. face
	and raise a mound of stone 2 ft. base 1-1/2 ft. high
	N. of Cor from which:

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A holly 4 ins. dia. bears N. 24° 17' W. 21 lks.
dist. marked 3 H E S 113 B T.

No other bearings available. Pits impracticable.

Thence N. 69° 45' W.

Descend 50 ft. along NW. slope in undergrowth to Creek.

3.30 Water course in Russell Gulch 40 lks. wide, banks 3 ft. high, course NE. Continue across bottom.

4.50 Leave bottom bears NE. and SW. and ascend 25 ft. to Cor.

6.50 To Cor. No. 4.

Identical with Cor. H-3 of this List Survey which is an imbedded granite boulder 72 x 48 x 48 ins. above ground marked and witnessed as described by the Forest Service. I destroy all trace of the List Cor. and mark a cross on the apex of the same stone for Cor.

No. 4 of this survey and 4 H E S 113 on the E. face and raise a mound of stone 2 ft. base 1-1/2 ft. high E. of Cor. from which:

A live oak 6 ins. dia. bears N. 81° 39' E. 98 lks. dist. marked 4 H E S 113 B T.

A live oak 4 ins. dia. bears N. 13° 19' E. 49 lks. dist. marked 4 H E S 113 B T.

Thence N. 50° 13' E.

Along SE. slope in open. Descend 25 ft. to Cor.

17.80 Ravine, course SE.

60.80 To Cor. No. 1 of this Survey, the place of beginning.

January 12, 1914.

Note: The sun was obscured at apparent noon, therefore a latitude observation was not possible.

CROOK NATIONAL FOREST

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Chains

Area of Homestead Entry Survey No. 113.
Total Area ----- 44.54 Acres.

IMPROVEMENTS

The improvements made upon and for the benefit of this homestead and belonging to C. W. Shepard, the claimant herein, consist of the following:

A frame dwelling 18 x 25 ft. the long side of which bears N. 60° E. and S. 60° W. and the N. Cor. of which bears S. 29° 45' W. 14.30 chs. dist. from Cor. No. 1 of this Survey.

Value ----- \$300.00

A frame stable and chicken house 10 x 30 ft. the long side of which bears N. and S. and the NE. Cor. of which bears S. 25° 30' W. 13.20 chs. dist. from Cor. No. 1 of of this Survey.

Value ----- \$150.00

There is approximately one mile of fencing on this claim.

Value ----- \$80.00

Also approximately 15 acres cultivated.

GENERAL DESCRIPTION

This claim is situated on Russell Gulch at an elevation of approximately 3,900 ft. and is chiefly valuable for intensive farming and stock raising. There appears to be no mineral on this claim. The soil is a sandy loam and produces any crop raised in the temperate zone. Globe Postoffice and A. E. Ry. Station is 4 miles distant in a NE. direction.

Conflicts and Adjoining Claims.

This claim is joined on the NE. by H. E. 012755 and 014311, H. W. Piper, H. E. S. 114.

ARIZONA

Chains

Latitudes, Departures and Closing Errors.

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Bearing	Distance	Latitude		Departure	
		N	S	E	W
S. 63° 30' E.	9.98		4.45	8.93	
S. 53° 28' W.	61.63		36.70		49.52
N. 69° 45' W.	6.50	2.25			6.10
N. 50° 13' E.	60.80	38.91		46.72	
	138.91	41.16	41.15	55.65	55.62
		41.15		55.62	
Error in Lat. and Dep.		.01		.03	
Closing Error 1:4393.					

Walter G. Turkey
 Forest Service Surveyor

Chains

Chains

Latitudes, Departures and Closing Errors.

Distance	Bearing		Latitude		Departure
	N	S	N	S	
2.38	N. 63° 30'	N.	4.45	8.93	
61.63	S. 53° 38'	W.	36.70		49.83
6.50	N. 69° 45'	W.	2.35		6.10
60.80	N. 50° 13'	E.	38.91	46.73	
138.91			41.16	41.15	38.63
			41.13	38.63	
					03.

Closing Error: 1:4333.
Error in Lat. and Dep.

Walter R. ...
Forest Service Surveyor

HOMESTEAD ENTRY SURVEY NO. 113.

TONTO NATIONAL FOREST

STATE OF ARIZONA.

Chains

Direct solar observation at cor. H-2 of List 3-261 in

Lat. 33° 20' 54" N., Long. 110° 47' 49" W.

Horiz. Angle	Vert. Angle	h.	m.	S.
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42° 08'	32° 12'	10	48	05
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41° 48'	31° 35'	10	49	25
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41° 58'	31° 53' 30"	10	48	45
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01' 34

31° 51' 56" Decl. 21° 41' 52" S.

Log. cos. lat.	9.921865	Log. tan. lat.	9.818282
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Log. cos. alt.	<u>9.929055</u>	Log. tan. alt.	<u>9.793519</u>
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Log. sin. decl.	9.850920		9.611801
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Log. sin. decl.	<u>9.567862</u>	Anti Log.	-0.409073
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	9.716942	Anti Log. "	<u>-0.521126</u>
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	Cos. Q. =	0.930199
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	Q. =	21° 32' 00"
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Bearing of object S. 63° 30' E.

Horiz. Angle	Vert. Angle	h.	m.	s.
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43° 29'	32° 34'	10	53	10
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43° 05'	31° 58'	10	54	30
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43° 17'	32° 16'	10	53	50
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01' 29"

32° 14' 31" Decl. 21° 41' 52" S

Log. cos. alt.	9.927268	Log. tan. alt.	9.799866
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Log. cos. lat.	<u>9.921865</u>	Log. tan. lat.	<u>9.818282</u>
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	9.849133		9.618148
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Log. sin. decl.	<u>9.567862</u>	Anti Log.	-0.415095
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	9.718729	Anti Log.	<u>-0.523273</u>
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	Cos. Q.	0.938368
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	Q. =	20° 13' 12"
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Bearing of object S. 63° 30' 12" E.

NATIONAL FOREST

STATE OF ARIZONA

Chains

Chains

Direct solar observation at cor. H-2 of List 3-281 in
 Lat. 32° 30' 54" N., Long. 110° 47' 49" W.
 Horiz. angle Vert. angle h. m. s.
 42° 08' 32° 12' 10 48 05
 41° 48' 31° 55' 10 49 25
 41° 58' 31° 52' 30" 10 48 45
01' 34"
 31° 51' 52" Decl. 31° 41' 52" S.
 Log. cos. lat. 9.921865 Log. tan. lat. 9.818288
 Log. cos. alt. 9.923055 Log. tan. alt. 9.732519
 Log. sin. decl. 9.557862 Anti log. -0.402073
 9.718242 Anti log. = -0.521154
 Cos. C. = 0.920199
 C. = 31° 32' 00"
 Bearing of object S. 63° 30' E.

Horiz. angle Vert. angle h. m. s.
 43° 29' 32° 34' 10 52 10
 43° 03' 31° 58' 10 54 30
 43° 17' 32° 16' 10 55 20
01' 29"
 32° 14' 31" Decl. 31° 41' 32" S.
 Log. cos. lat. 9.921865 Log. tan. lat. 9.818288
 Log. cos. alt. 9.923268 Log. tan. alt. 9.732866
 9.842133
 Log. sin. decl. 9.557862 Anti log. -0.412022
 9.718242 Anti log. = -0.522273
 Cos. C. = 0.922268
 C. = 30° 18' 12"
 Bearing of object S. 63° 30' E.

DIRECTIONS.—1. Carry out calculations to two decimals only.
2. In balancing Latitudes and Departures do not obliterate or change the original figures, but put below them the corrected footing in red ink. 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. 113., STATE OF O. H. Sheppard.

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.	S. AREAS.
			NORTH.	SOUTH.	EAST.	WEST.			
	S. 63° 30' E.	9.98		4 45	8 93		102 35		455 46
	S. 53° 28' W.	61.63		36 70			61 74		2266 48
	N. 69° 45' W.	6.50	2 25				6 10	13 73	
	N. 50° 13' E.	60.80	38 91		46 72		46 71	1817 49	
		138 91	41 16	41 15	55 65			1831 22	2721 94
			41 16	41 16	55 64			1831 22	2721 94
								2) 890 72	445 36
									= 44.54 Acres
									FT

Closing Error, 1:4393.

OLIOING TILLOI, J:VREB.

M. 80. 12. E. 08.08
 M. 88. 12. M. 08.08
 B. 88. 12. K. 08.08
 B. 88. 12. E. 08.08

BYVING DISTANCE

ZORR 1000000

DEVELOPERS

DOUBLE M. D.

OF VIEWS

LEVING AND COTINGIONS OF HOMESLED EMLA SILVAX MO JIQ.

O. H. SVEBBERG

1. On the basis of the conditions in the present Order, the Director, subject to the conditions, shall be authorized to grant the necessary permits for the construction of the proposed works. The Director may also grant the necessary permits for the construction of the proposed works. The Director may also grant the necessary permits for the construction of the proposed works.

NO.	NAME	ADDRESS	DATE	AMOUNT	REMARKS
1	M. 80. 12. E.	08.08	08.08		
2	M. 88. 12. M.	08.08	08.08		
3	B. 88. 12. K.	08.08	08.08		
4	B. 88. 12. E.	08.08	08.08		
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APPROVAL

Office of the United States Surveyor General,
Phoenix, Arizona,

December 19, 1914.

The foregoing field notes of Homestead Entry Survey No.

113

C. W. Shepard

executed by Walter G. Turley, Forest Service Surveyor,
under his special instructions, dated October 30., 1913,
having been critically examined, and the necessary correc-
tions and explanations made, the said field notes, and the
surveys they describe, are hereby approved.

Frank S. Ingalls,
U. S. Surveyor General.

I certify that the foregoing transcript of the field
notes of the above-described survey in Arizona,
has been correctly copied from the original notes on file in
this office.

Frank S. Ingalls
U. S. Surveyor General.