

U. S. DEPARTMENT OF AGRICULTURE

FOREST SERVICE

FIELD NOTES

OF

HOMESTEAD ENTRY SURVEY NO. 357

SITUATED IN THE **PRESCOTT** NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

Approx. In Section 9, unsurveyed, Township 9 N., Range 1 W.

of the

Gila and Salt River Base and Meridian.

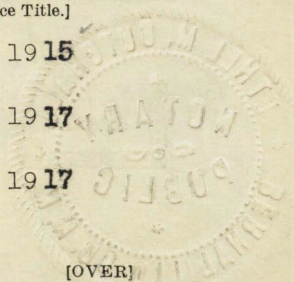
State of

ARIZONA

Applicant for listing **John H. Simpson,**
 Residence **Crown King, Arizona**
 Application No. **188**, dated **August 15**, 19**13**
 List No. **3-2941**, dated **December 18**, 19**13**

Applicant for survey **John H. Simpson,**
 Residence **Crown King, Arizona**
 H. E. No. **026002**, dated **November 5**, 19**14**
 Office **Phoenix, Arizona**
 Land District

Survey executed by **R. P. A. Johnson,** Surveyor - Draftsman
(Forest Service Title.)
 Under special instructions dated **April 20**, 19**15**
 Survey commenced **May 11**, 19**17**
 Survey completed **May 13**, 19**17**
 Under Acts of **June 11, 1906 and August 11, 1916**



282

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. 357, 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.

Chas Robinson, Chairman

John E. Adams, Chairman

Subscribed and sworn to before me this fourth day of June, 1917.

R.P.A. Johnson
Surveyor Draftsman

OATH OF SURVEYOR

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

do solemnly swear that, in strict conformity with the special instructions of the United States Surveyor General for Arizona, dated April 20, 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 Just 3294, dated December 18, 1913 and a tract of land upon the application of John N. Simpson Applicant, No. 188, dated August 15, 1913, for Patent, under the Act of June 11, 1906, the same to be known as Homestead Entry Survey No. 357, situated within the 9 **PRESCOTT** National Forest, in unsurveyed Section 10, Township 9N, Range 1W, and unsurveyed Section ---, Township ---, Range ---,

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 10th day of July, 1917.

Ethel M. Gitchell
Notary Public



8-2349

PRESCOTT NATIONAL FOREST

STATE OF ARIZONA

Chains Applicant for listing, John H. Simpson; Application No. 188, dated August 15, 1913; List No. 3-2941, dated December 18, 1913; Homestead Entry No. 026002, made in the Phoenix Land Office on November 5, 1914 by John H. Simpson.

Also a tract of unlisted land adjoining claimant's entry was included in this survey; the land was desired by the entryman and will be listed as a basis for amendment of his Entry No. 026002.

Surveyed under special instructions from the Surveyor General for Arizona, dated April 20, 1915 and designated as Homestead Entry Survey No. 357.

Situated in what will probably be, when surveyed, sec. 9, T. 9 N., R. 1 W., Gila and Salt River Base and Meridian, Prescott National Forest, Arizona.

Surveyed under the Acts of June 11, 1906 and August 11, 1916.

Survey commenced May 11, 1917 and executed with a Buff and Buff transit.

I test the adjustments of the transit and make necessary corrections.

All measurements 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 11, 1917, p.m.

I observe Polaris for azimuth at cor. No. 1, hereinafter described. The reading on the reference object East of star is set at zero. My watch is set for local mean time.

Lat. 34° 08' 10" N., Long. 112° 21' 57" W., from special instructions from the Surveyor General.

PRESCOTT NATIONAL FOREST

STATE OF ARIZONA

Chains	Telescope	Time	Horizontal Angle right
	Direct	6h. 58m. 18s. p.m.	1° 02' 30"
	l.m.t. obsn.,	May 11, 1917, p.m.	6h. 58.3m.
	l.m.t. U.C. Pol.,	a.m., May 11, 1917,	<u>10h. 15.0m.</u>
			8h. 43.3m.
		Long. Correction	<u>01.2m.</u>
		Hour Angle Pol. at obsn.,	8h. 44.5m.
		Azimuth of Polaris, 1° 01' 12" W.	
		Bearing of reference object, N. 0° 01' 18" E.	

I again observe Polaris at cor. No. 1, hereinafter described. The reading on the reference object East of star is set at zero.

Telescope	Time	Horizontal Angle right	
Direct	7h. 05m. 54s. p.m.	1° 01' 00"	
l.m.t. obsn.,	May 11, 1917, p.m.	7h. 05.9m.	
l.m.t. U.C. Pol.,	May 11, 1917, a.m.,	<u>10h. 15.0m.</u>	
		8h. 50.9m.	
		Long. Correction,	<u>01.2m.</u>
		Hour Angle Pol. at obsn.;	8h. 52.1m.
		Azimuth of Polaris, 0° 59' 24" W.	

Bearing of reference object, N. 0° 01' 36" E.

The mean bearing of reference object is N. 0° 01' 27" E. and from the corresponding meridian all the courses of this survey are deflected.

May 11 to May 12, 1917, I run a tie to U. S. L. M. No. 2274, as hereinafter described:

May 13, 1917.

Beginning at cor. No. 1.

Identical with cor. H-2 of the list survey, a quartzite stone 48 x 30 x 4 ins. above ground, marked and witnessed as described by the Forest Service. I destroy

255

PRESCOTT NATIONAL FOREST

STATE OF ARIZONA

Chains . all trace of this list cor. and at this point I set a diorite stone 30 x 12 x 5 ins., 6 ins. in the ground on rock in place, over a small stone marked with a +, and surrounded by a mound of stone 5 ft. base, 1-1/2 ft. high. I chisel a + at the point and 1 - H E S 357 on the E. face; and raise a mound of stone 3 ft. base, 2 ft. high E. of cor., whence:

An oak, 18 ins. dia., blazed and scribed
1 H E S 357 + B T, bears N. 50° 30' E.,
41 lks. dist.

An oak, 5 ins. dia., blazed and scribed
1 H E S 357 + B T, bears N. 46° 45' E.,
24 lks. dist.

U. S. L. M. No. 2274, a quartzite stone 24 x 18 x 14 ins. above ground, marked and witnessed as described by the Surveyor General, bears S. 63° 52' 06" W., 159.66 chs. dist., by traverse which appears at the end of these notes.

Cor. H-3 of the list survey, a granite stone 36 x 18 x 8 ins. above ground, marked and witnessed as described by the Forest Service, bears S. 32° 10' E., 12.16 chs. dist. I destroy all trace of this list cor.

Lat. 34° 08' 10" N., Long. 112° 21' 57" W., from special instructions from the Surveyor General, and later verified. Mag. decl. at 8h. 00m. a.m., 14° 30' E. Mean mag. decl., 14° 27' E.

Thence N. 31° 14' E.

Descend 45 ft. in brush to flat.

1.50 Foot descent. Leave brush, enter open flat.

1.67 Cor. No. 4 of H. E. S. 356, a granite stone 10 x 10 x 10 ins. above ground, marked + at point and 4 - H E S 356 on North face.

2.18 Right bank Humbug Creek, 60 lks. wide, banks 1 ft. high,

1.67
4.11
5.78
Independent
line witness
by Hodson
and Johnson
and diff. to m-
side limits.

HOMESTEAD ENTRY SURVEY NO. 357

PRESCOTT NATIONAL FOREST

STATE OF ARIZONA

Chains course SE. Running water 20 lks. wide, 6 ins. deep.

3.28 Trail, bears NW. and SE.

5.03 Leave flat. Ascend 5 ft. in open to cor.

5.79 To cor. No. 2.

Identical with cor. H-1 of the list survey, a granite stone 24 x 12 x 12 ins., marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. At this point I previously set cor. No. 3 of H. E. S. No. 356, a granite stone 12 x 8 x 4 ins. above a mound of stone 5 ft. base, 1-1/2 ft. high, marked 3 - H E S 356 on the West face, with mound of stone 3 ft. base, 2 ft. high, West of cor. I chisel this stone 2 - H E S 357 on the S. face for cor. No. 2 of this survey and raise a mound of stone 3 ft. base, 2 ft. high SE. of cor., whence:

An oak, 10 ins. dia., blazed and scribed
 3 H E S 356 + B.T, bears N. 31° 19' W.,
 118 lks. dist. I scribe this tree
 2 H E S 357.

An oak, 6 ins. dia., blazed and scribed
 3 H E S 356 + B T, bears S. 10° 24' W.,
 55 lks. dist. I scribe this tree
 2 H E S 357.

No other bearings available.

Cor. H-7 of the list survey, a granite stone 12 x 12 x 6 ins. above ground, marked and witnessed as described by the Forest Service, bears S. 32° 32' E., 8.10 chs. dist. I destroy all trace of this list cor.

Thence S. 37° 35' E.

Ascend 20 ft. to ridge in scattered brush. Over unlisted land.

1.50 Top ridge, bears NNE. and SSW. Descend 15 ft. to draw.

PRESCOTT NATIONAL FOREST

STATE OF ARIZONA

Chains

- 3.25 Draw, 150 lks. wide, course SSW. Ascend 45 ft. to ridge in scattered brush.
- 8.10 Top ridge bears NNE. and SSW. Descend 60 ft. in open to cor.
- 14.15 Draw, 100 lks. wide, course SW.
- 15.79 To cor. No. 3. Identical with cor. H-6 of the list survey, a granite boulder in place 4 x 4 x 2 ft. above ground, marked and witnessed as described by the Forest Service. I destroy marks pertaining to list cor. and chisel + at the point and 3 - H E S 357 on the West face; and raise a mound of stone 3 ft. base, 2 ft. high, NE. of cor., whence:
 - A cottonwood, 12 ins. dia., blazed and scribed 3 H E S 357 + B T, bears S. 72° 45' W., 136 lks. dist.
 - An oak, 8 ins. dia., blazed and scribed 3 H E S 357 + B T, bears S. 4° 35' E., 90 lks. dist.

- Thence S. 6° 13' E.
- Descend 10 ft. over SSW. slope to creek. Over listed land.
- 0.85 Mouth ravine, 10 lks. wide, course SW.
- 1.75 Enter Humbug Creek, 40 lks. wide, banks 1 ft. high, course S. Continue in creek bed.
- 6.00 Leave Humbug Creek, 40 lks. wide, banks 1 ft. high, course SSW. Enter scrub oak and ascend 20 ft. along steep W. slope to ridge.
- 8.50 Top ridge bears NE. and SW. Descend 25 ft. in brush to arroyo.
- 9.60 Arroyo, 10 lks. wide, banks 1 ft. high, course WSW. Ascend 20 ft. in brush to bench.

PRESCOTT NATIONAL FOREST

STATE OF ARIZONA

Chains

10.40 Bench bears NE. and SW. Descend 15 ft. along bench to arroyo in brush.

19.00 Arroyo, 10 lks. wide, banks 1 ft. high, course WSW. Ascend 35 ft. in brush to cor.

20.21 To cor. No. 4. Identical with cor. H-5 of the list survey, a granite stone 24 x 12 x 6 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of the list cor. and at this point I set a granite stone 24 x 8 x 6 ins., 14 ins. in the ground, over a small stone marked with a +. I chisel a + at the point and 4 - H E S 357 on the NW. face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high, NW. of cor., whence:

A hackberry, 12 ins. dia., blazed and scribed 4 H E S 357 + B T, bears N. 13° 10' W., 139 lks. dist.

A walnut, 10 ins. dia., blazed and scribed 4 H E S 357 + B T, bears West, 159 lks. dist.

Thence N. 86° 04' W.

Descend 40 ft. in brush to flat, over listed land.

0.80 Foot descent; enter flat.

1.23 W. C. to cor. No. 5. Deposit a mica schist stone 5 x 4 x 1 ins. marked with a +, 32 ins. in the ground, over which set a mica schist stone 14 x 14 x 5 ins., chiseled + for the point and W C 5 - H E S 357 on N. face; and raise a mound of stone 4 ft. base, 3 ft. high N. of cor., whence:

A hackberry, 6 ins. dia., bears N. 40° 58' E., 78 lks. dist., scribed W C 5 H E S 357 + B T.

A walnut, 10 ins. dia., bears N. 1° 06' W., 61 lks. dist., scribed W C 5 H E S 357 + B T.

PRESCOTT NATIONAL FOREST

STATE OF ARIZONA

Chains

2.18 Humbug Creek, running water 30 lks. wide, 6 ins. deep, course S.

2.23 To point for cor. No. 5.
pt. for ..
Identical with cor. H-4 of the list survey, which has been washed out by creek. I destroy witnesses for this list cor. Point for cor. falls in Humbug Creek; impracticable to set stone at point.

From point for cor. No. 5.

Thence N. 24° 39' W.

Ascend 10 ft. to witness cor.

1.00 Right bank Humbug Creek, 6 ft. high, course South.

1.50 W. C. to cor. No. 5.

Deposit a mica schist stone 8 x 2 x 2 ins. marked with a +, 14 ins. in the ground, over which set a quartzite stone 24 x 8 x 8 ins., chiseled + for the point, and W C 5 - H E S 357 on E. face; and raise a mound of stone 3 ft. base, 2 ft. high, E. of cor., whence:

A black oak, 6 ins. dia., bears N. 0° 17' E.,

76 lks. dist., scribed W C 5 H E S 357 + B T.

A black oak, 6 ins. dia., bears S. 63° 05' W.,

61 lks. dist., scribed W C 5 H E S 357 + B T.

Ascend 30 ft. in heavy brush to ridge.

6.00 Top ridge bears ENE. and SSW. Descend 20 ft. in heavy brush along NE. slope.

17.80 Foot descent. Ascend 50 ft. along NE. slope in heavy brush to cor.

30.22 To cor. No. 1, the place of beginning.

AREA

Area of listed land - - - - - 16.10 acres

Area of unlisted land - - - - - 2.97 acres

Total Area - - - - - 19.07 acres

The area stated in the listing field notes is obviously in error.

PRESCOTT NATIONAL FOREST

STATE OF ARIZONA

Chains

IMPROVEMENTS

The improvements made upon and for the benefit of the claimant, consist of the following:

A frame house, 24 x 12 ft., the long side of which bears NW. and SE. and the N. cor. of which bears from cor. No. 1, S. 43° 06' E., 10.20 chs. dist.

Value ----- \$100.00

A stone and dugout store house, 12 x 12 ft. facing NE., the N. cor. of which bears from cor. No. 1, S. 42° 03' E., 10.66 chs. dist.

Value ----- \$100.00

A frame barn, 16 x 12 ft., the long side of which bears NW. and SE. and the N. cor. of which bears from cor. No. 1, S. 45° 50' E., 11.51 chs. dist.

Value ----- \$ 50.00

Approximately 30 chains of wire fence.

Value ----- \$ 50.00

DESCRIPTION

This homestead is located on Humbug Creek at an elevation of approximately 4300 ft. It consists of approximately 16 acres of bottom land and 4 acres of creek bed.

The bottom land is a silt loam and produces excellent crops of alfalfa and grain hay. The hillsides are rocky and covered with a dense growth of scrub oak.

There is no timber of commercial value on the claim.

Water for domestic, stock and irrigation purposes is obtained from the creek.

While this is a mineralized section and this homestead is reported to be in conflict with some unsurveyed mineral claims, I saw no indication of mineral upon the ground.

PRESCOTT NATIONAL FOREST

STATE OF ARIZONA

Chains

CONFLICTS AND ADJOINING CLAIMS

This claim is reported to be in conflict with Butte, Rovello and Rosemary, unsurveyed mining claims, John Rovello locator. I was unable to identify any corners of these claims and John Rovello agreed to amend his locations if necessary to prevent conflicts. H E S 356 joins this claim on NE. Crown King, Arizona, the nearest railroad point and post office, is 12-1/2 miles dist., 1 mile by fair trail and 11-1/2 miles by a steep fair wagon road.

TRAVERSE

Cor.	Course	Dist.	N	S	E	W
1-2	N. 31° 14' E.	5.79	4.95		3.00	
2-3	S. 37° 35' E.	15.79		12.51	9.63	
3-4	S. 6° 13' E.	20.21		20.09	2.19	
4-5	N. 86° 04' W.	2.23	0.15			2.22
5-1	N. 24° 39' W.	30.22	27.47			12.60
			<u>74.24</u>	<u>32.57</u>	<u>32.60</u>	<u>14.82</u>
					<u>14.82</u>	<u>14.82</u>
Error in Lat. and Dep.				<u>32.57</u>	<u>14.82</u>	
				.03	.00	

Closing error, 1:2475.

Survey completed May 13, 1917.

P. B. Johnson
Surveyor - Draftsman

Chains

This claim is reported to be in conflict with the
 Novello and Rosemary, unperfected mining claims, John
 Novello locator. I was unable to identify any corners
 of these claims and John Novello agreed to amend his
 locations if necessary to prevent conflicts.
 H. E. 255 joins this claim on the
 Crown Hill, Arizona, the nearest railroad point and post
 office, is 12-1/2 miles dist., 1 mile by fair trail and
 11-1/2 miles by a steep fair wagon road.

Course	Dist.	N	S	E	W
1-2	1.312	14'	0.79	4.95	3.00
2-3	2.270	35'	13.79	12.61	9.53
3-4	2.613	13'	20.61	20.09	5.12
4-5	1.887	04'	2.33	0.16	0.88
5-1	1.240	33'	20.33	27.47	1.80
Closing error, 1:2475. Error in lat. and dep.					1.83
Survey completed May 18, 1914.					1.83

[Handwritten signature]
 Surveyor - District

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. 357, STATE OF ARIZONA

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.	S. AREAS.
			NORTH.	SOUTH.	EAST.	WEST.			
H2 - H1	N. 31°14' E.	5.79	4 95		3 00		3 00	14 85	
H1 - H7	S. 32°32' E.	8.10		6 83	4 36		10 56		70 76
H7 - H6	S. 42°56' E.	7.73		5 66	5 27		19 99		113 14
H6 - H5	S. 6°13' E.	20.21		20 09	2 19		27 46		551 67
H5 - H4	N. 86°04' W.	2.23	15			2 22	27 44	4 12	
H4 - H3	N. 19°42' W.	18.25	17 18			6 15	19 08	327 99	
H3 - H2	N. 32°10' W.	12.16	10 29			6 47	6 47	66 58	
			32 57	32 58	14 82	14 84		413 54	735 57
			32 58	32 58	14 83	14 83			413 54
									20 / 322 03
									16 10

263

ET

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

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CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.	S. AREAS.
			NORTH.	SOUTH.	EAST.	WEST.			
1-2	N. 31° 14' E.	5.79	4.95		3.00		3.00		
2-3	S. 37° 35' E.	15.79	12.51 ⁵⁰		9.63		15.63	14.85	195.38
3-4	S. 6° 13' E.	20.21	20.09 ⁰⁸		2.19		27.45		551.20
4-5	N. 86° 04' W.	2.23	15			2.22	27.42	4.11	
5-1	N. 24° 39' W.	30.22	27.47 ⁷⁸			12.60	12.60	346.25	
		74.24	32.57	32.60	14.82	14.82	365.21	365.21	746.58
			32.58	32.58	14.82	14.82			365.21
									20/381.37
									19.07 Acres.
1-357-4-356	N. 31° 14' E.	1.67	1.43		87				
4-356-1-356	N. 47° 32' W.	27.99	18.90			20.65	10g.	143.34	2.156367
1-356-TP1	S. 66° 05' W.	52.26	21.19			47.77	10g.	70.32	1.847079
TP1-TP2	S. 42° 48' E.	7.41	5.44			5.03	10g.	tan. 63° 52' 06"	10.309288
TP2-U.S.L.M.	S. 51° 37' W.	103.10	64.02			80.82			
		166.	20.33	90.65	5.90	149.24	10g.	143.34	2.156367
			20.33	20.33		5.90	10g.	sin. 63° 52' 06"	9.953172
			70.32	70.32		143.34	10g.	159.66	2.203195

all lines run in traverse for the
 are 10 were actually run by surveyor
 copy Johnson independent of Hartson's
 survey. It is believed therefore seem
 that the traverse is correct as given
 (Note from Cor. 1-356 to U.S.L.M. checked
 the recorded in 356 within limit of error. E.F.)

265

DIRECTIONS.—1. Carry out calculation to two decimals only.

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TABLING AND CALCULATIONS OF HOMESTEAD ENTRY SURVEY NO. 357, STATE OF Arizona

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.	S. AREAS.
			NORTH.	SOUTH.	EAST.	WEST.			
	N. 63° 52' 06" E	159.66	70 32'		143	34'			
	N. 31° 14' E	1.67	1 43'			87'			
47° 20'	N. 47° 32' W	27.99	18 90				20 65'		
	S. 53° 54' 11" W	153.02		90 15'			123 64'		
		<u>342.34</u>	90 65'	90 15	144	21	144 29'		
			90 15				144 21		
			50'				08 7		
	Closing Error 1:676								

267

APPROVAL

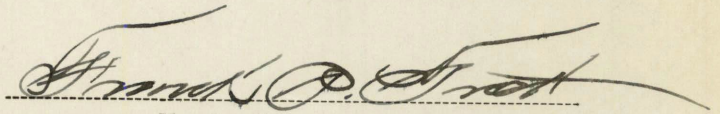
Office of the United States Surveyor General,

Phoenix, Arizona, June 10, 1918

The foregoing field notes of Homestead Entry Survey No.

357

executed by R. P. A. Johnson, Surveyor-Draftsman
[Forest Service Title.]
under his special instructions, dated April 20, 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.

Corners	Courses				Distances			
	Surveyor	Inspector	Diff.	Surveyor	Inspector	Diff.		
1-2	S. 90° 51' W.	S. 89° 49' W.	02	10.02	10.00	02		
1-3	N. 0° 36' W.	N. 0° 30' E.	06	2.18	2.18	00		
2-3	N. 67° 45' E.	N. 67° 43' W.	02	20.29	20.28	01		
3-4	N. 87° 45' E.	S. 89° 44' W.	01	11.37	11.36	01		
4-5	S. 0° 30' W.	S. 0° 32' W.	02	9.82	9.83	00		
5-6	S. 89° 51' W.	S. 89° 49' W.	00	20.02	20.02	00		
6-1	S. 89° 51' W.	S. 89° 49' W.	00	20.02	20.02	00		
32:53	-- 1/4	N. 0° 32' E.	00	39.42	39.42	00		
5:4		N. 0° 32' E.	00	39.42	39.42	00		
32/33	31/32 -	S. 0° 56' W.	04	38.96	38.95	01		
1/4		S. 0° 52' W.	04	38.96	38.95	01		
31:32	---	N. 89° 51' E.	01	40.06	40.03	03		
6:5	1/4 32	N. 89° 51' E.	01	40.06	40.03	03		
31:32	---	N. 89° 51' E.	05	40.06	40.03	03		
6:5	5:4	N. 89° 48' E.	05	40.06	40.03	03		
1/4		N. 89° 48' E.	05	40.06	40.03	03		
Let. diurnal center		S. 89° 29' W.	02	79.90	79.93	03		
Sec. 32		S. 89° 27' W.	02	79.90	79.93	03		
Meridional Center		N. 0° 29' E.	02	78.97	79.00	03		
Sec. 32		N. 0° 29' E.	02	78.97	79.00	03		
Let. diurnal center		S. 89° 40' W.	05	40.08	40.06	02		
SE/4		S. 89° 37' W.	05	40.08	40.06	02		
Meridian Center		N. 0° 30' E.	02	39.32	39.30	02		
SE/4		N. 0° 30' E.	02	39.32	39.30	02		
Meridional Center		N. 0° 42' E.	01	39.09	39.11	02		
SW/4		N. 0° 42' E.	01	39.09	39.11	02		

Surveyor Area 22.26 Acres
 Inspector Area 22.36 Acres
 Surveyor error of courses 1:2457
 Inspector error of courses 1:3658

370C

Corners

Course

Distances

2. 270 A

	Surveyor	Inspector	Diff.	Surveyor	Inspector	Diff.
1-2	S. 89° 55' E.	S. 89° 50' E.	05	19.29	19.32	03
2-3	S. 0° 27' E.	S. 0° 21' E.	06	10.37	10.37	00
3-4	S. 78° 10' W.	S. 78° 16' W.	06	19.79	19.79	00
4-5	S. 78° 10' W.	S. 76° 16' W.	06	41.18	41.18	00
5-6	N. 0° 05' E.	N. 0° 15' E.	10	22.82	22.82	00
6-1	N. 89° 50' E.	N. 89° 58' E.	08	40.20	40.19	01
1/4-25-30 to	S. 0° 09' W.	S. 0° 02' E.	07	40.22	40.20	02
25:30 to 26:31						
26:31 to 1/4 3:1	N. 89° 54' E.	East	06	40.10	40.11	01
30:29 to 1/4 30/29	N. 0° 13' W.	N. 0° 09' W.	04	40.04	40.05	01
31:32 to 1/4 30 to 19:30	N. 0° 13' W.	N. 0° 09' W.	04	40.04	40.09	05
19:30 to 1/4 30	N. 89° 54' W.	N. 89° 42' W.	12	40.60	40.55	05
1/4-19 to 24:19 30	N. 89° 54' W.	N. 89° 46' W.	08	39.36	39.46	10
Meridional Cen-	S. 0° 37' E.	S. 0° 32' E.	05	80.30	80.30	00
ter Sec. 30						
Latitudinal cen-	S. 89° 55' E.	S. 89° 50' E.	05	80.05	80.06	01
ter Sec. 30						
Meridional Cen-	N. 89° 50' E.	N. 89° 50' E.	08	80.49	80.47	02
ter Sec. 25						
Latitudinal Cen-	N. 0° 05' E.	N. 0° 13' E.	08	80.13	80.08	05
ter Sec. 25						

Surveyor Area 99.10 Acres
 Inspector's Area 99.14 Acres
 Closing errors Surveyor - Sec. 30 1:1366 Sec. 25 -1:3290
 Closing errors Inspector Sec. 30 1:2025 Sec. 25-1.5305

I respectfully recommend that this survey be accepted in its original form.

DAVID H. RITTER, H. E. S. 399

This survey is within inspection limits and no office or field corrections were necessary. All bearings were deflected from a meridian, the mean of two direct solar observations.

There was no objectional hiatus or overlap and no additional land was included.

The corners were of good material, well set, properly marked and witnessed and correctly located, both in regard to position as governed by listing survey and subdivision of sections. Difference in location of corners on subdivision lines in no cases differed over 1-1/2 links.

2705.

SUMMARY 1915 cases

One case shows high degree of accuracy and courses and distances check well within limits. The other is good work except for error in determination of meridian, which makes all courses in error close to allowable maximum error.

1916

1916 Cases

George Sheley, H. E. S. 449.

The notes in this case were rewritten as there was a difference in bearing of from 7 to 12 minutes in each course of survey, and surveyor returns had not been submitted to Surveyor General. This error was undoubtedly due to an error in the determination of meridian by original surveyor. The chaining on all lines was excellent; monumentation good; corners correctly marked and witnessed.

The inspector's meridian from which all courses are deflected was three determined by the Polaris observations and checked.

Three direct solar observations.

Cor.	Course			Distance		
	Surveyor :	Inspector :	Diff :	Surveyor :	Inspector :	Diff :
1-2 N.	29°33' W.:	N.29°41' W. :	8'	60.30	60.29	1
2-3 S.	78°18' E.:	S.78°27' E. :	9'	38.05	38.06	1
3-4 S.	23°18' E.:	S.23°26' E. :	8'	55.31	55.30	1
4-1 N.	78°19' W.:	N.28°26' W. :	7'	29.99	29.97	2
1-USLM	S.16°44' W.	S.16°24' W.:	20'	1.30	1.30	0
USLM-	:	:	:	:	:	:
Sec. Cor.	S. 6°03'30"E.	S. 6°13'11"E:	9'41"	194.14	194.15	1

Inspector error of closure = 1:2737
 Surveyor error of closure = 1:6493
 Inspector's Area = 154.93
 Surveyor's Area = 154.20

The notes in this case were rewritten as there was a difference in bearing of from 9 to 10 minutes in each course of this survey and the surveyor return had not been submitted to the Surveyor General. The difference in bearing was due to an error in determination of meridian by original surveyor. The chaining on all lines was very accurate; the monumentation good; corners correctly marked and witnessed, and additional area listed was open Public Domain, agricultural in character.

The Inspector's courses were deflected from a meridian determined by 3 Polaris observations and checked by direct solar observations.

COMPARISON TABLES

Cor.	Courses			Distances		
	Surveyor	Inspector	Diff.	Surveyor	Inspector	Diff.
1-2	N.28°54'W.	N.29°04'W.	10	39.98	39.96	02
2-3	S.89°27'E.	S.89°36'E	09	45.75	45.74	01
3-4	S.29°05'E.	S.29°14'E	09	39.99	39.98	01
4-1	N.89°30'W.	N.89°41'W.	11	45.87	45.83	05
1-Sec						
Cor.	S. 4°29'29"	S. 4°17'25"W.	12'04"	114.29	114.29	00

Inspector's Area 159.37 acres

Surveyor's Area 159.42 acres

Inspector's error of closure 1:4756

Surveyor's " " " 1:17159

SUMMARY 1916 Cases

The two cases were both rewritten, due to error in determination of meridian. Except for the error, cases were in good shape and well within all inspection requirements.

(Sgd.) R.P.A. Johnson

APPROVED

MAY 29 1918

1918

Surveyor - Draftsman

G. A. Long

District Engineer

270

ENTRY SURVEYS

INSPECTION

M. J. Roundsville
H. E. S. 359

David H. Ritter
H. E. S. 399

George Shelley,
H. E. S. 449

David L. Vance
H. E. S. 469

Original survey by Charles Hodson, Surveyor - Draftsman
Inspection by R. P. A. Johnson, Surveyors Draftsman.

This report covers four inspections on Tuesday in
October, 1917. Two cases were surveyed in 1915 and two
cases in 1916.

1915 CASES

M. J. Roundsville, H. E. S. 359

This checks within 1914 limits, with exception of one
course which is 2 minutes in excess of allowable error.
All inspection bearings were deflected from a meridian,
the mean of two direct solar observations taken at 1/4
sec. cor. bet. secs. 25 and 30.

There was no objectionable hiatus or overlap and no
additional area included.

The corners were of good material, well set, properly
marked and witnessed and correctly located, both in
regard to position as governed by listing survey and
subdivision of section.

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.

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. 359, STATE OF

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.	S. AREAS.
			NORTH.	SOUTH.	EAST.	WEST.			
1-2	S. 89° 50' E.	19.52		06	19 52	06	19 52		1 55
2-3	S. 0° 21' E.	10.57		10 37	06		58 70		401 32
3-4	S. 78° 16' W.	19.79	44 47	4 02		19 37	19 59		78 14
4-1	N. 0° 02' W.	14.48	14 48			01	01	14	
		63.96	14 48	14 47	19 38	19 39			481 67
		Closing error 1:2025	14 47	14 47	19 38	19 38			14
1-4	S. 0° 02' E.	14.48		14 48	01		80 61	20	481 67
4-5	S. 78° 16' W.	41.18	8 36	8 37		40 31	40 51		1167 19
5-6	N. 0° 15' E.	22.82	22 82			40 52	10		556 99
6-1	N. 89° 58' E.	40.19	02		10		40 40		
		118.67	22 84	22 85	40 30	40 32			1504 18
		Closing error 1:5305	22 84	22 84	40 31	40 31			3 08
									20 (1501 10
									75.05 Acres

270F

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.

TABLE AND CALCULATIONS OF HOMESTEAD ENTRY SURVEY NO. 399, STATE OF MISSOURI

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.	S. AREAS.
			NORTH.	SOUTH.	EAST.	WEST.			
1 - 2	S. 89° 49' W.	10.00		03		10 00	10 00		30
2 - 3	N. 0° 30' E.	2.18	2 18		02	02	02	04	
3 - 4	N. 67° 43' W.	20.28	7 69		18 77	18 80	18 80	144 57	
4 - 5	N. 89° 44' E.	11.36	05		11 36	48 92	48 92	2 45	
5 - 6	S. 0° 32' W.	9.83		9 83		60 18	60 18		591 57
6 - 1	S. 89° 49' W.	20.03		06		20 03	40 04		2 40
		73.70	9 92	9 92	30 15	30 13	147 06	147 06	594 27
			9 92	9 92	30 14	30 14			147 06
									20) 447 21
		Closing error 1:3685							22 36

2705