Form 85
Sheet No. 1

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U. S. DEPARTMENT OF AGRICULTURE

FOREST SERVICE

FIELD NOTES

OF

HOMESTEAD ENTRY SURVEY NO. 147

SITUATED IN THE

TONTO NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

in

Section ~~29~~ 22, un surveyed, Township 3 N., Range 13 E.

~~Section 32~~ 27, unsurveyed, Township 3 N., Range 13 E.

of the

G. & S. R. B. & Meridian.

Survey executed by Walter G. Turley, Surveyor, Forest Service

Under special instructions dated November 29, 1913.

Survey commenced October 6, 1914

Survey completed October 7, 1914

Under Acts of June 11, 1906, and June 30, 1914.

Applicant for listing George W. Henderson

Residence Roosevelt, Arizona.

Application No. 234, dated May 15, 1909

List No. 3-1274, dated May 5, 1911

Applicant for survey George W. Henderson

Residence Roosevelt, Arizona

H. E. No. 016499, dated January 29, 1912.

Land district Phoenix Arizona.

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OATH OF ASSISTANTS

We hereby certify that we assisted Walter G. Turley Surveyor, Forest Service. in surveying all those parts or portions of Homestead Entry Survey No. 147, in unsurveyed Section 29, Township 3 N, Range 13 E, unsurveyed Section 32, Township 3 N, Range 13 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 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 inconvenient and expensive to appear before an officer to administer the oaths to assistants; hence they were taken by the surveyor.

Charles D. Hodson Chainman

Charles H. Baecht Chainman

Subscribed and sworn to before me this tenth day of October, 1914.

Walter G. Turley
Surveyor, Forest Service.

OATH OF SURVEYOR

I, Walter G. Turley, Surveyor, do solemnly swear that, in strict conformity with the special instructions of the United States Surveyor General for Arizona, dated November 29, 1913, and the laws of the United States, I have well, faithfully, and truly, in my own proper person, surveyed a tract of land ~~upon the application of~~ embraced in List, No. 3-1274 dated May 5, 1911, for Patent, under the Act of June 11, 1906, the same to be known as Homestead Entry Survey No. 147, situated within the Tonto National Forest, in unsurveyed Section 29, Township 3 N, Range 13 E., and unsurveyed Section 32, Township 3 N, Range 13 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 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. Turley
Surveyor, Forest Service.

Subscribed and sworn to before me this 4th day of December, 1914.

my commission expires July 4, 1916

Albert L. Hanson
Notary Public

SEAL.

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HOMESTEAD ENTRY SURVEY NO. 147 1

TONTO NATIONAL FOREST

STATE OF ARIZONA

Chains

Applicant for listing, George W. Henderson; Application No. 234, dated May 15, 1909; List No. 3-1274, dated May 5, 1911; Homestead Entry No. 016499; made in the Phoenix Land Office on January 29, 1912 by George W. Henderson whose postoffice address is Roosevelt, Arizona.

Surveyed under Acts of June 11, 1906, and June 30, 1914; and special instructions from the Surveyor General for Arizona dated November 29, 1913, and designated as Homestead Entry Survey No. 147.

Situated in what will probably be when surveyed, secs. 29 and 32, T. 3 N., R. 13 E., Gila and Salt River Base and Meridian within the Tonto National Forest, Arizona.

Survey commenced October 6, 1914, and executed with a W. & L. E. Gurley light mountain transit No. 12953 provided with prism eye piece, stadia wires, vertical circle, and Burt solar attachment. The horizontal limb of the transit has two double verniers placed opposite to each other and graduated to single minutes of arc, which is also the graduation upon the verniers of the latitude and declination arcs.

I test the adjustments of the transit and solar attachment, and make necessary corrections. The stadia wire interval is adjusted to read 1:132.

All distances are horizontal; and were reduced from measurements made directly on the slope with a standard 500 link steel tape graduated to links and tenths and the slope angles were determined with a clinometer the vernier of which reads to degrees; and a Philadelphia stadia rod, graduated to feet and hundredths, provided with two targets the verniers of which read to thousandths of a foot.

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Form 85.
Sheet No. 2.

HOMESTEAD ENTRY SURVEY NO. 147

TONTO NATIONAL FOREST

STATE OF ARIZONA

Chains

October 6, 1914.

I set up my transit over cor. H-4 of List 3-1274 which is a granite stone 21 x 19 x 8 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. 50m. p.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° 33' 48" N. and long. 111° 03' 14"W.

Astron.l.m.t., obsn.	Oct. 5, 1914.	31h. 50.0m.
Astron.l.m.t.,U.C.Pol.	Oct. 5, 1914.	12h. 33.3m.
Hour angle Pol. at obsn.		19h. 16.7m.
		23h. 56.1m.
Time argument		4h. 39.4m.

Azimuth Pol. at obsn. 1° 18' 00" E.

With my transit set up over cor. H-4 of List 3-1274 heretofore described, and the telescope reversed in altitude and azimuth, at 7h. 59.0m. p.m., l.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.

Astron.l.m.t.,obsn.	Oct. 5, 1914.	31h. 59.0m.
Astron.l.m.t.,U.C.Pol.	Oct. 5, 1914.	12h. 33.3m.
Hour angle Pol. at obsn.		19h. 25.7m.
		23h. 56.1m.
Time argument		4h. 30.4m.

Azimuth Pol. at obsn. 1° 16' 54" E.

October 6, 1914.

Chains

October 7, 1914.

I turn off 1° 18' the azimuth of Polaris, to the W. from her direction at 7h. 50m. p.m. l.m.t. October 6, 1914; 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° 17' the azimuth of Polaris to the W. from her direction at 7h. 59m. p.m. l.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' 42" 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° 33' 53" N. and longitude 111° 03' 24" W. at the protracted position for cor. to secs. 29, 30, 31 and 32, T. 3 N., R. 13 E., Gila and Salt River Base and Meridian, taken from special instructions of the Surveyor General which gives latitude 33° 33' 48" N., and longitude 111° 03' 14" W. at cor. No. 1 of this survey. It was not possible to check the latitude by direct observation.

My watch is set for standard 105th meridian time with which I compared it on October 6, 1914. I subtract 24m 00s. therefrom for l.m.t.

On October 7, 1914 at 8h. 00m. a.m. l.m.t., I observe the magnetic declination to be 13° 55' E. at cor. No. 1 which reduced gives a mean magnetic decl. of 13° 52' E.

Chains	
	There is no corner of the public land survey within two miles of the claim; therefore I establish U. S. L. M. No. 147 H. E. S. in accordance with instructions. On a high point approximately 7.00 chs. E. of Spring creek I chisel (+) at the point and U S L M No 147 H E S on the E. face of an imbedded porphyry stone 48 x 36 x 15 ins. above ground and raise a mound of stone 6 ft. base, 4 ft. high W. of cor. from which
	A 4 in palo verde scribed U S L M No 147 H E S + B T bears N. 64° 00' E. 200 lks.
	East Peak of Baker Mt. bears N. 21° 30' E.
	Haystack Butte bears N. 65° 24' E.
	Mazatzal Peak bears N. 34° 00' W.
	Office building at intake of power canal bears N. 58° 20' E. approximately 7½ miles.
	SE. cor. of Henderson's dwelling bears S. 55° 45' W.
	Cor. No. 1 H. E. S. 147 bears S. 7° 05' W. 14.64 chs. dist.
	Thence S. 7° 05' W.
	On a true line by direct measurement.
14.64	To cor. No. 1
	Identical with cor. H-4 of List 3-1274 which is a granite stone 21 x 19 x 8 ins. above ground, surrounded by a mound of stone 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 16 ins. in the ground; over which I set a porphyry stone 26 x 14 x 10 ins. 16 ins. in the ground; surrounded by a mound of stone, chiseled (+) at the point and 1-H E S 147 on the NW. face and raise a mound of stone 2 ft. base, 1½ ft. high, NW. of cor. from which

Chains	
	A 4 in. palo verde, scribed 1 H E S 147 + B T bears N. 9° 30' E. 167 lks.
	A 4 in. palo verde, scribed 1 H E S 147 + B T bears N. 61° 40' E. 87 lks.
	U S L M No. 147 H E S bears N. 7° 05' E. 14.64 chs.
	Thence S. 81° 35'. W.
	Descend W. slope 15 ft. in undergrowth.
1.20	Right bank arroyo 40 lks. wide, banks 8 ft. high, course NE. Ascend SE. slope 20 ft. Continue in arroyo.
4.20	Left bank arroyo, 8 ft. high, course NE.
10.75	Arroyo 20 lks. wide, banks 20 ft. high, course N. Continue ascending 25 ft.
16.90	Ridge bears NE. and SW. Desc. NW. slope 15 ft.
18.40	Arroyo 10 lks. wide, banks 2 ft. high, course N. Asc. E. slope 5 ft.
18.65	To cor. No. 2.
	Identical with cor. H-3 of List 3-1274 which is a granite stone 8 x 7 x 6 ins. above ground marked and witnessed 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 4 x 2 ins. and deposit it 15 ins. in the ground; over which I set a porphyry stone 25 x 10 x 9 ins. 15 ins. in the ground chiseled (+) at the point and 2-H E S 147 on the NE. face and raise a mound of stone 2 ft. base, 1½ ft. high, NE. of cor. from which
	A 5 in. catclaw scribed 2 H E S 147 + B T bears N. 15° 35' E. 32 lks.
	A 5 in. mesquit scribed 2 H E S 147 + B T bears S. 9° 00' W. 25 lks.

Chains	
	Thence N. 3° 27' E.
	Desc. along NE. slope 40 ft. in undergrowth.
1.01	Spring Creek, 15 lks. wide, banks 2 ft. high, course NW.
	Continue descending along NW. slope. Water rises between this point and the S. line of the claim.
1.64	Spring Creek, 20 links wide, banks 3 ft. high, course NE. Continue desc. along NE. slope.
5.90	Fence bears E. and W. Enter corral.
6.22	Fence bears E. and W. Leave corral.
9.81	Fence bears E. and W.
13.39	Fence bears E. and W.
23.20	Arroyo 10 lks. wide, banks 1 ft. high, course NE. Asc. S. slope 10 ft.
26.60	Top of mesa bears NW. and SE. Continue over mesa.
34.83	To cor. No. 3.
	Identical with cor. H-2 of List 3-1274 which is a sandstone 9 x 7 x 7 ins. above ground marked and witnessed as described by the Forest Service. I destroy cor. H-2 and its witnesses; and for cor. No. 3 of this survey I chisel (+) on a stone 3 x 3 x 2 ins. and deposit it 14 ins. in the ground, over which I set a sandstone 24 x 9 x 8 ins. 14 ins. in the ground; chiseled (+) at the point and 3-H E S 147 on the SE. face, and raise a mound of stone 2 ft. base, 1½ ft. high, SE. of cor. from which
	A 6 in. mesquit scribed 3 H E S 147 + B T bears N. 22° 32' E. 109 lks.
	A 5 in. mesquit scribed 3 H E S 147 + B T bears S. 70° 50' E. 125 lks.

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Chains	
	Thence N. 81° 40' E.
	Desc. E. slope 20 ft.
11.77	Spring Creek 70 lks. wide, banks 4 ft. high, course NNE. Asc. W. slope 20 ft.
14.85	Road bears NE. and SW.
14.94	To cor. No. 4.
	Identical with cor. H-1 of List 3-1274 which is a granite stone 8 x 8 x 6 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 4 x 2 ins. and deposit it 14 ins. in the ground; over which I set a sandstone 24 x 13 x 6 ins. 14 ins. in the ground; chisded (+) at the point and 4-H E S 147 on the SW. face and raise a mound of stone 2 ft. base, 1½ ft. high, SE. of cor. from which
	A 4 in. mesquit scribed 4 H E S 147 + B T bears N. 34° 30' W. 50 lks.
	A 6 in. mesquit scribed 4 H E S 147 + B T bears S. 68° 26' W. 88 lks.
	Thence S. 2° 34' E.
	Asc. W. slope 30 ft. in undergrowth.
18.00	Cease asc. and desc. SW. slope 20 ft.
29.50	Cease desc. and asc. NW. slope 5 ft.
34.22	To cor. No. 1 the place of beginning.

Area.

Total .....57.22 acres.

Improvements.

The improvements made upon this homestead consist of the following:

A two room adobe dwelling 30 x 14 ft. the long side ex-

Chains

tending N. and S. and the SW. cor. of which bears N. 7° 15' E. 4.50 chs. dist. from cor. No. 2 of this survey.

Estimated value.....$200.00

A log stable 20 x 14 ft. the long side extending N. and S. and the SW. cor of which bears N. 11° 30' E. 5.40 chs. dist. from cor. No. 2 of this survey.

Estimated value.....$50.00

Approximately 1½ miles of fencing.

Estimated value.....$150.00

Approximately 1½ acres of cultivated land.

Description.

This claim is located on Spring Creek a tributary of the Roosevelt Reservoir at an elevation of approximately 3100 ft. and is chiefly valuable for a stock ranch.

There is no timber in this section.

Sufficient water for domestic purposes and limited irrigation is obtained from Spring Creek which is perennial.

There is only a limited area of soil upon this claim. It is a sandy loam. The remainder is rock and clay.

This is not reported to be a mineralized section and no mining, coal or oil claims or townsites are known to have been located near this homestead.

Roosevelt postoffice is 20 miles by wagon road in a northwesterly direction. Globe railway station is 33 miles in an easterly direction.

There are no conflicts or adjoining claims. Cor. R-1 of withdrawal for Spring Creek Ranger Station bears N. 33° 15' E. 3.02 chs. dist. from cor. No. 4. of this survey.

Form 85.
Sheet No. 2.

HOMESTEAD ENTRY SURVEY NO. 147 9

TONTO NATIONAL FOREST

STATE OF ARIZONA

Chains

Traverse.

Cor.	Course	Dist.	N.	S.	E.	W.
1-2	S. 81° 35' W.	18.65		2.73		18.45
2-3	N. 3° 27' E.	34.83	34.77		2.10	
3-4	N. 81° 40' E.	14.94	2.17		14.78	
4-1	S. 2° 34' E.	34.22		34.19	1.53	
		102.64	36.94	36.92	18.41	18.45
			36.92			18.41
	Error in lat. and dep.		0.02			0.04

Closing error 1:2295

Survey completed October 7, 1914.

Walter P. Purley
Surveyor, Forest Service.

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Form 85.
Sheet No. 2.

HOMESTEAD ENTRY SURVEY NO.

NATIONAL FOREST

STATE OF

Chains	

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.
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.

8—2349

TABLING AND CALCULATIONS OF HOMESTEAD ENTRY SURVEY NO. 147, STATE OF ARIZONA Henderson, G. W. Tonto

CORNERS.		BEARING.	DISTANCE.	LATITUDES. North.	LATITUDES. South.	DEPARTURES. East.	DEPARTURES. West.	DOUBLE M. D.	N. AREAS.	S. AREAS.
98923 14639	1-2	S. 81° 35' W.	18.65		2.73		18.45 ~~5~~ 4	18.44		50.34
86618 99819	2-3	N. 3° 27' E.	34.83	34.7~~7~~6		2.1~~0~~ 1		2.11	73.34	
98944 14493	3-4	N. 81° 40' E.	14.94	2.17		14.7~~8~~ 9		19.01	41.25	
14498 99980	4-1	S. 2° 34' E.	34.22		34.1~~9~~ 20	1.5~~3~~ 4		35.34		1208.63
			102.64	36.94	36.92	18.41	18.45		114.59	1258.97
				36.93	36.93	18.44	18.44			114.59
										1144.38
				Closing error 1:2295					Area	57.22

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Form 85.
Sheet No. 3.—Revised Feb., 1913.

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 latitudes should be proportional to the lengths of the lines.
3. In calculations of latitude take result to nearest link. In calculations of N. and S. across 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. 147, STATE OF ARIZONA Henderson, G. M. Tonto

CORNERS.	BEARING.	DISTANCE.	LATITUDES. North.	LATITUDES. South.	DEPARTURES. East.	DEPARTURES. West.	DOUBLE M. D.	N. AREAS.	S. AREAS.
1-2	S. 81° 35' W.	18.65		2.73		18.45	16.44		50.24
2-3	N. 3° 27' E.	34.85	34.77		2.10		2.11	73.34	
3-4	N. 81° 40' E.	14.94	2.17		14.78		19.01	41.25	
4-1	S. 2° 34' E.	34.22		34.19	1.53		35.34		1208.63
		102.64	36.94	36.92	18.41	18.45		114.59	1258.97
								114.59	
								1144.38	
							Area	57.22	

Closing error 1:2295

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Form 85
Sheet No. 4

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APPROVAL

Office of the United States Surveyor General,

Phoenix, Arizona, November 27 , 1916.

The foregoing field notes of Homestead Entry Survey No.

147

executed by Walter G. Turley, Surveyor, Forest Service,
[Forest Service Title.]
under his special instructions, dated November 29, , 1913, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Frank P. Trott
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.

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Form 85.
Sheet No. 2.

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HOMESTEAD ENTRY SURVEY NO. 147

TONTO NATIONAL FOREST

STATE OF ARIZONA

MAR 7 - 1918

Chains

The position of U. S. L. M. No. 147 H. E. S., and also H. E. S. 147, with reference to the probable protraction of public land lines was determined by me from bearings to natural objects as shown upon the maps available at the time of this survey. From the fact that these natural objects were not positively located upon the map, the location of the U. S. L. M., (as is the case with all such monuments in unsurveyed country which are not tied to public land corners.), was known to be only approximate, it being assumed that upon extension of public land lines to this township the survey would be tied in and its location would be definitely established and accordingly corrected and upon the records. From the data available, the location as given in the H. E. S. was considered more accurate than that of the listing survey.

On March 2, 1916, I again returned to this locality and in connection with the survey of H. E. S. No. 443 connected cor. No. 5 H. E. S. 443 with the 1/4 Sec. Cor. on the south boundary of Sec. 35, T. 4 N., R. 13 E. This survey (H E S 443) is also connected to U. S. L. M. No. 147 H. E. S. from Cor. No. 1, thus definitely establishing the location of U. S. L. M. No. 147 H. E. S. as being in the SW/4 of Sec. 22, and H. E. S. No. 147 in Secs. 22 and 27 instead of Secs. 29 and 32 as given in the returns of said H. E. S. No. 147.

The above is a true and correct statement of facts to the best of my knowledge and belief.

Walter J. Tuley

Subscribed and sworn to before me this 26th. day of February. 1918.

++++++
+Seal+
++++++

Grace Bowman.
Notary Public. Santa Fe Co., New Mexico.

My Commission Expires Jan. 2nd, 1922

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Form 85.
Sheet No. 2.

HOMESTEAD ENTRY SURVEY NO.

NATIONAL FOREST

STATE OF

Chains

8—2340

APPROVAL

OFFICE OF U. S. SURVEYOR GENERAL,

Phoenix, Arizona,

March 11, 1918.

The foregoing report of Walter G. Turley, Ex-Surveyor Forest Service, dated February 26, 1918, made in accordance with General Land Office letter "E" 450916, dated January 10, 1918, as to the location of U.S.L.M. No. 147 H.E.S., and H.E.S. No. 147, having been examined, is hereby approved.

Frank P. Trott

U. S. Surveyor General.

I certify that the foregoing transcript of the report of Walter G. Turley, relative to the location of U.S.L.M. No. 147 H.E.S. and H.E.S. No. 147, has been correctly copied from the original report on file in this office.

Frank P. Trott,
U. S. Surveyor General.