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145
AUG 2 - 1915

U. S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE

JUN 3 - 1911

FIELD NOTES

OF

HOMESTEAD ENTRY SURVEY NO. 98

SITUATED IN THE

CROCK NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

in

Sections 1&2, unsurveyed, Township 1 S., Range 15 E.

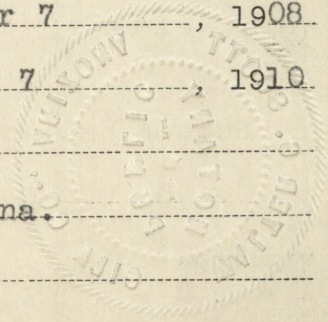
of the

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

ARIZONA

Survey executed by Walter G. Turley, Forest Service Surveyor
Under special instructions dated October 30, 1913
Survey commenced December 4, 1913
Survey completed December 5, 1913
Under Acts of June 11, 1906 and March 4, 1913.

Applicant for listing George Boretta
Residence Globe, Arizona.
Application No. 47, dated September 7, 1908
List No. 3-836, dated December 7, 1910
Applicant for survey Frank Gusman
Residence Globe, Arizona.
H. E. No. 020308, dated June 6, 1913.
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. 98, in
unsurveyed Sections 1&2, Township 1 S., Range 15 E.,
-- surveyed Section -----, Township -----, Range -----,

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. Habours Chainman
John B. Wight Chainman.

Subscribed and sworn to before me this 30th day of
December, 1913.

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 3-836, dated Dec. 7, 1910, for
Patent, under the Act of June 11, 1906,
the same to be known as Homestead Entry Survey No. 98,
situated within the CROOK National Forest, in
unsurveyed Sections 1 & 2, Township 1 S., Range 15 E., and
-- surveyed Section -----, Township -----, Range -----,

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 19th day of
January, 1914.

Chalton G. Scott
Notary Public



HOMESTEAD ENTRY SURVEY NO. 98

CROOK NATIONAL FOREST

ARIZONA

Chains

Applicant for listing; George Boretta. Application No. 47, dated September 7, 1908. List No. 3-836, dated December 7, 1910. H. E. No. 020308, made by Frank Gusman June 6, 1913, at Phoenix, Arizona.

Surveyed under special instructions from the Surveyor General of Arizona, dated October 30, 1913, and designated as Homestead Entry Survey No. 98.

This claim is situated in unsurveyed T. 1 S., R. 15 E., G. & S. R. B. & M., in what will probably be, when surveyed, secs 1 & 2, Crook National Forest, Arizona.

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

This survey was executed with a W. and L. E. Gurley light mountain transit No. 12953; with vertical circle and Burt solar attachment. The horizontal limb having two double verniers placed opposite and reading to single minutes of arc, which is also the lease graduation on the latitude and declination arcs.

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

December 4, 1913:
At 11 h. 50 m. a.m., l.m.t., I set off 22° 14' S. on the decl. arc and observe the sun on the meridian at cor. No. 1 of this survey, and obtain a reading of 33° 23' on the lat. arc. Long. 110° 44' 31" W.

Chains

At 2 h. 30 m. p.m., l.m.t., I set off $22^{\circ} 14'$ S. on the decl. arc and $33^{\circ} 23'$ on the lat. arc and determine a meridian with the solar at a point which I mark by a tack in a stake set firmly in the ground near cor. H-1 of List 3-165, Rebecca Howard, and mark the meridian by driving a tack in a stake set firmly in the ground 8.00 chs. north of my station.

On the same date:

I observe Polaris in accordance with instructions at 5 h. 35 m. p.m., l.m.t., and mark the line thus determined by driving a tack in a stake set 8.00 chs. north of my station.

Astron. l.m.t. obsn. Dec. 3, 1913	29 h. 35 m.
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Astron. l.m.t. U. C. Pol. Dec. 3, 1913.	8	40.8
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Hour angle Polaris at obsn.	20	54.2
-----------------------------	----	------

	23.	56.1
--	-----	------

Hour angle Polaris from U. C.	3	1.9
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Azimuth Polaris at obsn. $0^{\circ} 59' 30''$ E.

December 4, 1913.

December 5, 1913:

I observe Polaris in accordance with instructions at 6 h. 25 m. a.m., l.m.t., at the same station from which I made the observation on December 4, 1913, and mark the line thus determined by a tack in a stake set 8.00 chs. north of my station.

Astron. l.m.t. obsn. Dec. 4, 1913	18 h. 25 m.
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Astron. l.m.t. U. C. Pol. Dec. 4, 1913	8	36.8
--	---	------

Hour angle Polaris at obsn.	9	48.2
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Azimuth Polaris at obsn. $0^{\circ} 43' 54''$ W.

I turn off the azimuth $0^{\circ} 44'$ to the East, which defines a meridian.

I also set off the azimuth $0^{\circ} 59' 30''$ to the West of the

CROOK NATIONAL FOREST

ARIZONA

Chains

line determined by Polaris observation on December 4, 1913, which defines a meridian that differs 05" from the meridian determined by Polaris observation on December 5, 1913.

December 5, 1913:

At 8 h. 00 m. a.m., l.m.t., I set off 22° 19' S. on the decl. arc and 33° 23' on the lat. arc and determine a meridian with the solar at the station established by me, and my line of sight falls upon the mean of the two Polaris observations. The meridian determined with the solar on December 4, 1913, falls 04" West of the mean of the two Polaris observations. Therefore I conclude that my transit is in satisfactory adjustment.

Preliminary to the survey of this claim I proceed to cor. H-1 of the List survey and retrace its boundaries in a clockwise direction and calculate its area to be less than 160 acres.

December 5, 1913:

At 8 h. 20 m. a.m., l.m.t., I set off 22° 19' S. on the decl. arc and 33° 23' on the lat. arc and determine a meridian with the solar at the S. C. of T. 1 N., Rs. 15 and 15-1/2 E., G. & S. R. B. & M., which is a granite rock 10 x 8 x 10 ins. above ground, marked and witnessed as described by the Surveyor General.

Thence S. 64° 30' E.

On a true line

8.46 To cor. No. 1.

Identical with cor. H-2 of the list survey, which is an imbedded quartzite boulder 14 x 10 x 8 ins. above

CROOK NATIONAL FOREST

ARIZONA

Chains

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 on the same boulder for cor. No. 1, and 1-HES98 on the SSW. face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high along side within claim. Pits impracticable and no bearings available. This is also cor. H-3 of L. R. Evans' Entry 016279, (H.E.S. No. 99), and cor. H-4 of E. L. Higdon's Entry 017905 (H.E.S. No. 100). Therefore the S. C. of T. 1 N., Rs. 15 and 15-1/2 E. bears N. 64° 30' W. 8.46 chs. dist. from cor. No. 1 of this survey.

I observe the magnetic declination at cor. No. 1 to be 14° 35' E. at 8 h. 20 m. a.m., l.m.t., which reduced by Table G., Manual of 1894, gives a mean magnetic declination of 14° 34' E.

Lat. 33° 23' N. Long. 110° 44' 31" W.

Thence S. 8° 05' W.

On a true line bet. this claim and E. L. Higdon's Entry 017905 (H.E.S. No. 100) Ascend along brow of hill 5 ft.

5.00 To cor. No. 2.

Identical with cor. H-3 of the list survey, which is an imbedded brown quartzite stone 30 x 20 x 6 ins. above ground, marked and witnessed as described by the Forest Service. This is also cor. H-3 of E. L. Higdon's Entry 017905 (H.E.S. No. 100) and cor. H-4 of Entry 023562 of T. J. Gibson. I destroy all trace of the list cor. which refers to this claim and mark a cross (+) on the apex of the same boulder for cor. No. 2, and 2-HES98 on the W. face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high W. of cor., from which,

HOMESTEAD ENTRY SURVEY NO. 98

CROOK NATIONAL FOREST

ARIZONA

Chains An oak 4 ins. dia. bears N. 83° W. 26 lks. dist.
 marked 2 H E S 98 B T.
 Pits impracticable. No other bearings available.

Thence S. 39° 40' W.

On a true line. Ascend along brow of hill in oak
 brush 30 ft.

19.40 To cor. No. 3.

Identical with cor. H-4 of the list survey, which is
 a gray granite stone 12 x 3 x 12 ins. above ground,
 marked and witnessed as described by the Forest Ser-
 vice. This is also cor. H-8, List 3-165, Rebecca
 Howard. I destroy all marks upon the cor. which refer
 to this claim, and at this point I set a quartzite
 stone 32 x 14 x 6 ins. 22 ins. in the ground, over
 small stone marked with a cross (+), for cor. No. 3
 of this survey, marked 3-HES98 on the NW. face; and
 raise a mound of stone 2 ft. base, 1-1/2 ft. high NW.
 of cor., from which

A cross (+) on an imbedded quartzite boulder 30 x
 20 x 10 ins. above ground, marked 3 H E S 98 B R
 bears S. 72° E. 28 lks. dist.

Pits impracticable. No other bearings available.

Thence N. 81° 00' W.

On a true line. Descend W. slope 125 ft. to creek in
 undergrowth.

5.10 Right bank of Ice House Creek, 6 ft. high, course NE.

6.90 Left bank of Ice House Creek, 1 ft. high, course NE.

Also ranch road bears N. and S. Ascend 3 ft.

7.04 To cor. No. 4.

Identical with cor. H-5 of the list survey, which is
 an imbedded quartzite boulder 4 x 2 x 4 ft. above
 ground, marked and witnessed as described by the

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6.

HOMESTEAD ENTRY SURVEY NO. 98

CROOK NATIONAL FOREST

ARIZONA

Chains

Forest Service. This is also cor. No. 4 of Entry 07977 of W. F. Harte. I destroy all trace of this list cor. and mark a cross (+) on the apex of the same stone for cor. No. 4, and 4-HES98 on the NE. face, from which

A sycamore 16 ins. dia. bears N. 79° 30' E. 123 lks. dist. marked 4 H E S 98 B T.

I raise a mound of stone 2 ft. base, 1-1/2 ft. high NW. of cor. It is impracticable to place the mound in any other position. Pits impracticable. No other bearings available.

December 5, 1913:

At 11 h. 51 m. a.m., l.m.t., I set off 22° 22' S. on the decl. arc and observe the sun on the meridian and obtain a reading of 33° 23' on the lat. arc at cor. No. 4 of this survey.

Thence N. 48° 55' E.

Along the line 4-3, Entry 07977 of W. F. Harte.

Descend 3 ft. to creek.

0.50 Ranch road, bears N. and S.

5.00 Left bank of Ice House Creek, 1 ft. high, course N.

7.06 Right bank of Ice House Creek, 10 ft. high, course N.

7.26 Fence, bears N. and S.

7.76 To cor. No. 5.

Identical with cor H-6 of the list survey, which is an imbedded quartzite boulder 36 x 24 x 12 ins. out of ground, marked and witnessed as described by the Forest Service. This is also cor. No. 3 of Entry 07977 of W. F. Harte. I destroy all trace of this list cor. and mark a cross (+) on the apex of the same stone for cor. No. 5, and 5-HES98 on the SE. face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high SE. of cor.,

TSONCROOK NATIONAL FOREST

ARIZONA

Chains

from which, A sycamore 18 ins. dia. bears S. 46° 45' W. 286 lks. dist., marked 5 H E S 98-B T. Pits impracticable. No other bearings available.

Thence N. 58° 07' E. Along line 3-2 of Entry 07977 of W. F. Harte, along NW. slope. To cor. No. 6.

Identical with cor. H-7 of the list survey, which is a quartzite stone 9 x 7 x 10 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. This is also cor. No. 2 of Entry 07977 of W. F. Harte. I mark 6-HES98 on the SE. face of this stone; and raise a mound of stone 2 ft. base, 1-1/2 ft. high SE. of cor., from which

A hackberry 5 ins. dia. bears S. 48° W. 29 lks. dist. marked 6 H E S 98 B T.

No other bearings available. Pits impracticable.

Thence N. 1° 00' E. Along the line 2-1 of Entry 07977 of W. F. Harte.

Descend 5 ft. to cor. Enter cultivated land, bears NE. and SW. Leave cultivated land, bears NE. and SW. Fence, bears NE. and SW. Road, bears NE. and SW. To cor. No. 7.

Identical with cor. H-1 of the list survey, and cor. H-2 of List 3-1204, L. R. Evans, which is a gray gneiss stone 10 x 6 x 12 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. and at this point I set a

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HOMESTEAD ENTRY SURVEY NO. 98

CROOK NATIONAL FOREST

ARIZONA

Chains

quartzite boulder 26 x 10 x 7 ins. 16 ins. in ground, over a small stone marked with a cross (+) for cor. No. 7, marked 7-HES98 on the SE. face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high SE. of cor., from which,

A hackberry 4 ins. dia. bears N. 86° 00' E. 54

lks. dist. marked 7 H E S-98 B T.

Pits impracticable. No other bearings available.

Thence N. 49° 40' E. to

On a true line bet. this claim and H. E. S. No. 99

of L. R. Evans, over bottom.

Road, bears N. and S. Ascend 80 ft.

To cor. No. 1 of this survey, the place of beginning.

Area of Homestead Entry Survey No. 98

Total area 9.48 acres.

Improvements.

The improvements made upon and for the benefit of this homestead and belonging to Frank Gusman, the claimant, consist of the following:

A frame stable 24 x 14 ft., the long side of which bears N. and S. and the SW. cor. of which bears N. 75° E. 5.20 chs. dist. from cor. No. 7 of this survey.

Value \$25.00

A frame house 24 x 12 ft. the long side of this bears N. and S. and the NW. cor. of which bears S. 72° E. 2.75 chs. dist. from cor. No. 7 of this survey.

Value \$150.00

A well 4 x 4 x 15 ft. deep and a 3 H.P. gasoline engine and pump, the center of which bears S. 85° 30' E. 2.80 chs. dist. from cor. No. 7 of this survey.

Value \$120.00

ICE HOUSE CREEK NATIONAL FOREST

ARIZONA

Chains

0312

This claim is enclosed by a wire fence and there is approximately one acre of cultivated land.

Value \$ 75.00

General Description

This Homestead Entry is on Ice House Creek at an elevation of approximately 3,800 ft. and is chiefly valuable for intensive farming.

The soil is a sandy loam and produces any crop raised in the temperate zone. There is no timber on this claim and I saw no indication of mineral.

Globe post office and Arizona Eastern Ry. station are one and one-fourth miles in a northerly direction.

This Homestead Entry is joined on the West by List 3-264, H. E. S. No. 163 of W. F. Harte; on the North by List 3-1204, H. E. S. No. 99 of Lawrence R. Evans, and on the East by List 3-1475, H. E. S. No. 100 of E. L. Higdon.

December 5, 1913.

Latitudes, Departures and Closing Errors.

Bearing	Dist.	Latitude		Departure	
		N	S	E	W
S. 8° 05' W.	5.00		4.95		0.70
S. 39° 40' W.	19.40		14.93		12.38
N. 81° 00' W.	7.04	1.10			6.95
N. 48° 55' E.	7.76	5.10		5.85	
N. 58° 07' E.	7.30	3.86		6.20	
N. 1° 00' E.	3.14	3.14		.05	
N. 49° 40' E.	10.37	6.71		7.90	
	60.01	19.91	19.88	20.00	20.03
		19.88			20.00
Error in Lat. and Dep.		.03			.03

Closing error 1:1414.

Walter Purley

Forest Service Surveyor.

NATIONAL FOREST

MINES

Chains	General Description	Chains																																																																												
Value \$ 75.00	This Homestead Entry is on Los Horno Creek at an elevation of approximately 3,800 ft. and is chiefly valuable for intensive farming. The soil is a sandy loam and produces any crop raised in the temperate zone. There is no timber on this claim and I saw no indication of minerals. Globe post office and Arizona Eastern Ry. station are one and one-fourth miles in a northerly direction.																																																																													
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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. 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. I. O.

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. I. 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. **98**, STATE OF **ARIZONA**. **FRANK GUSMAN**.

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.	S. AREAS.
			NORTH.	SOUTH.	EAST.	WEST.			
1-2	S. 8° 05' W.	5.00		4 95			39 32		194 63
2-3	S. 39° 40' W.	19.40		14 93			26 26		392 59
3-4	N. 81° 00' W.	7.04	1 10				6 95	7 65	
4-5	N. 48° 55' E.	7.76	5 10		5 85		5 85	29 84	
5-6	N. 58° 07' E.	7.30	3 86		6 20		17 90	69 09	
6-7	N. 1° 00' E.	3.14	3 14		05		24 15	75 83	
7-1	N. 49° 40' E.	10.37	6 71		7 90		32 11	215 14	
		60.01	19 91	19 88	20 00	20 03		397 55	587 22
			19 90	19 90	30 01	30 01		397 55	587 22
								2)189 67	94 83
									= 9.48 Acres.
	Closing Error, 1:1414.								

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APPROVAL

Office of the United States Surveyor General,
Phoenix, Arizona,
November 28, 1914 .

The foregoing field notes of Homestead Entry Survey No.

98

Frank Gusman

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.

