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ORIGINAL

U. S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE

111
JAN 17 1919
APR - 8 1920

FIELD NOTES

OF

HOMESTEAD ENTRY SURVEY NO. 538

SITUATED IN THE Coronado NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3.

Approximately

In Section 6 , unsurveyed, Township 23 S, Range 19 E
In Section 7 , unsurveyed, Township 23 S, Range 19 E

of the

Gila and Salt River Base & Meridian.

State of Arizona.

Applicant for listing M. M. Bigelow
Residence Canelo, Arizona
Application No. 328 , dated January 9 , 1914
List No. 3-3397 , dated November 10 , 1914

Applicant for survey Kate M. Price
Residence Canelo, Arizona
H. E. No. 027373 , dated May 17 , 1915
Office
Land District Phoenix, Arizona.

Survey executed by C. A. Long Surveyor, Forest Service
(Forest Service Title.)
Under special instructions dated March 28 , 1917
Survey commenced June 2 , 1917
Survey completed June 4 , 1917
Under Acts of June 11, 1906, and August 11, 1916.

OATH OF ASSISTANTS

We hereby certify that we assisted **C. A. Long,**
Surveyor, Forest Service in surveying all those
[Forest Service Title.]

parts or portions of Homestead Entry Survey No. **538**, 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 estab-
lished, according to the instructions furnished by the United States
Surveyor General for **Arizona**

Note: It would have been
very expensive and incon-
venient to appear before an
officer to administer oaths
to Assistants; hence, they
were taken by the Surveyor.

[Signature] Chainman

[Signature] Chainman

Subscribed and sworn to before me this **4th** day of **June**
June, 1917 .

[Signature]
Surveyor, Forest Service

OATH OF SURVEYOR

I, **C. A. Long** Surveyor, Forest Service.
[Forest Service Title.]

do solemnly swear that, in strict conformity with the special instruc-
tions of the United States Surveyor General for **Arizona**, dated
March 28, 1917, and the laws of the United States, I have
well, faithfully, and truly, in my own proper person, surveyed a tract
of land

Application, No. **328**, dated **January 9**, 1914, for
PATENT, under the Act of **June 11**, 1906,
the same to be known as Homestead Entry Survey No. **538**,
situated within the **Coronado** National Forest, in
unsurveyed Section **6**, Township **23 S**, Range **19 E**, and
unsurveyed Section **7**, Township **23 S**, Range **19 E**,

of the **Gila and Salt River Base & 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.

[Signature]
Surveyor, Forest Service
[Forest Service Title.]

Subscribed and sworn to before me this **Seventh** day of
November, 1918.

[Signature]
Notary Public



8-2349

Commission expires Mar. 17 1921

CORONADO NATIONAL FOREST

STATE OF ARIZONA

Chains Applicant for listing, M. M. Bigelow; Application No. 328, dated January 9, 1914; List No. 3-3597, dated November 10, 1914; H. E. 027373 made in the Phoenix Land Office on May 17, 1915 by Kate M. Price.

Surveyed under special instructions from the Surveyor General for Arizona, dated March 28, 1917, and designated as Homestead Entry Survey No. 538.

Situated in what will probably be when surveyed, secs. 6 and 7, T. 23 S., R. 19 E., Gila and Salt River Base and Meridian within the Coronado National Forest, Arizona.

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

Survey commenced June 2, 1917, and executed with a Buff and Buff transit No. 10530, 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.

June 2, 1917.

At cor. H-4 of the list survey which will be cor. No. 1 of this survey, hereinafter described, at 6h. 25m. p.m. l.m.t. I observe Polaris with telescope direct, reading an angle of $72^{\circ} 10'$ from star to right to a prominent mark on a peak about 5 miles distant.

Lat. $31^{\circ} 27' 17''$ N., Long. $110^{\circ} 27' 08''$ W. from Hereford Quadrangle. U.S.G.S.

Greenwich m.t. U.C. Pol. June 2, 1917. 8h. 48.8m. a.m.

Corr. for Long.	1.2
l.m.t. U. C. Pol. June 2, 1917.	8 47.6

HOMESTEAD ENTRY SURVEY NO. 538

CORONADO NATIONAL FOREST

STATE OF ARIZONA

Chains

Astron. l.m.t. U.C. Pol. June 1, 1917 $\frac{12h. 00m.}{20} 47.6$

Astron. l.m.t. of obsn. June 1, 1917 $\frac{30}{9h.} 25.0$
Hour angle 37.4

Azimuth of Pol. at time of obsn. $0^{\circ} 45' 48''$ W.

Bearing of reference mark $N. 71^{\circ} 24' 12''$ E.

At the same station at 6h. 27m. p.m., l.m.t. I again observe Polaris with telescope reversed, reading an angle of $72^{\circ} 09'$ from star to right to the same reference mark.

Astron l.m.t., U. C. Pol. June 1, 1917. $20h. 47.6m.$

Astron l.m.t., of obsn. June 1, 1917. $\frac{30h. 27.0}{9h.} 39.4m.$
Hour angle.

Azimuth of Pol. at time of obsn. $0^{\circ} 45' 06''$ W.

Bearing of reference mark $N. 71^{\circ} 23' 54''$ E.

The two observations gives a mean bearing of reference mark of $N. 71^{\circ} 24' 03''$ E. and from the corresponding meridian all the courses of the survey were deflected.

June 3, 1917, Sunday

June 4, 1917.

BOUNDARIES OF H. E. S. 538

Beginning at cor. No. 1

Identical with cor. H-4 of the list survey, which is a granite stone 6 x 8 x 16 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor.

Deposit a sandstone 4 x 5 x 5 ins. marked with a + 24 ins. in the ground over which set an iron post 2 ins. dia. 36 ins. long with brass cap marked 1917 on S. and 1-H E S 538 on side facing the claim, raise a mound of stone 4 ft. base, 3 ft. high E. of cor., whence:

A White oak 16 ins. dia. bears $N. 29^{\circ} 30' W.$
32 lks. dist.

CORONADO NATIONAL FOREST

STATE OF ARIZONA

Chains	<p>A White oak 10 ins. dia. bears N. 88° 05' E. 35 lks. dist.</p> <p>Each blazed and scribed 1 H E S + 538 B T. The cor. to Tps. 22 and 23 S., Ranges 18 and 19 E. which is a porphyry stone 6 x 8 x 10 ins. above ground firmly set, marked and witnessed as described by the Surveyor General bears N. 26° 37' W. 89.35 chs. dist. by traverse which appears at end of these notes. The observed mag. decl. at 8 a.m. is 13° 00' E. which corr. for diurnal change gives a mean mag. decl. of 12° 56' E. Lat. 31° 27' 17" N., Long. 110° 27' 08" W. from Here- ford Quadrangle U. S. G. S. Thence N. 49° 30' E. Asc. 30 ft. to cor. along rolling SE. slope through dense oak brush.</p> <p>4.50 Gulch, course S. 10° 00' E. 7.75 Wash, 20 lks. wide, course S. 10° 00' E. 27.00 To cor. No. 2. Identical with cor. H-3 of the list survey, which is a granite stone 6 x 14 x 18 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. Deposit a porphyry stone 3 x 3 x 4 ins. marked with a + 12 ins. in the ground, over which set a limestone 18 x 12 x 10 ins. (no larger stone available) chiseled + for the point and 2 H E S 538 on S. face; raise a mound of stone 4 ft. base, 3 ft. high S. of cor., whence; A White oak 10 ins. dia. bears S. 75° 00' E. 47 lks. dist. A Black oak 10 ins. dia. bears S. 24° 30' W. 102 lks. dist.</p>
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CORONADO NATIONAL FOREST

STATE OF ARIZONA

Chains 100 588 Each blazed and scribed 2 H E S + 538 B T.

Thence S. 83° 31' E.

Over rolling land, through dense oak brush.

2.00 Wash, 20 lks. wide, course S. 20° 00' E.

11.31 To cor. No. 3.

Identical with cor. H-2 of the list survey, which is a granite stone 10 x 14 x 16 ins. above ground, marked

and witnessed as described by the Forest Service. I

destroy all trace of this list cor.

Deposit a sandstone 2 x 3 x 4 ins. marked with a +

14 ins. in the ground, over which set a sandstone

22 x 16 x 12 ins. chiseled + for the point and 3 H E S

538 on SW. face; (no larger stone available).; raise

a mound of stone 4 ft. base 3 ft. high SW. of cor.,

whence;

A White oak 12 ins. dia. bears S. 28° 30' W.

70 lks. dist.

A White oak 12 ins. dia. bears S. 89° 40' W.

87 lks. dist.

Each blazed and scribed 3 H E S + 538 B T.

Thence S. 38° 32' W.

Desc. 70 ft. to cor. along steep NW. slope through dense oak brush.

40.12 To cor. No. 4, also cor. No. 2 of H E S 537.

Identical with cor. H-1 of list 3-3397 and H-4 of list 3-2784 of which is a granite stone 6 x 14 x 18 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor.

Deposit a porphyry stone 2 x 3 x 3 ins. marked with a

+ 24 ins. in the ground, over which set an iron post

2 ins. dia. 36 ins. long with brass cap marked 1917

on S. 4 H E S 538 in NW. quadrant and 2 H E S 537 in

SW. quadrant., raise mounds of stone 4 ft. base 3 ft.

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Chains	<p>high NW. and SW. of cor., whence;</p> <p>A Jack pine 22 ins. dia. bears N. 19° 30' W. 141 lks. dist.</p> <p>A White oak 12 ins. dia. bears S. 88° 10' W. 146 lks. dist.</p>
	<p>Each blazed and scribed 4 H E S 538 B T.</p> <p>A Juniper 6 ins. dia. bears N. 32° 15' W. 06.0 22 lks. dist.</p> <p>A Black oak 20 ins. dia. bears S. 47° 10' W. 1 56 lks. dist.</p> <p>Each blazed and scribed 2 H E S 537 B T.</p>
	<p>Thence S. 56° 13' W.</p> <p>Along line 2-1 of H E S 537, over bottom land through scattering timber.</p>
5.00	<p>To cor. No. 5, also cor. No. 1 of H E S 537.</p> <p>Identical with cor. H-5 of list 3-3397 and H-3 of list 3-2784, which is a porphyry stone 3 x 7 x 20 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor.</p>
	<p>Deposit a porphyry stone 2 x 4 x 5 ins. marked with a 24 ins. in the ground, over which set an iron post 2 ins. dia. 56 ins. long, with brass cap, marked 1917</p> <p>S. 5 H E S 538, in NE. quadrant and 1 H E S 537 in SE. quadrant, raise mounds of stone 4 ft. base 3 ft. high NE. and SE. of cor., whence;</p> <p>A Juniper 28 ins. dia. bears N. 17° 15' W. 120 lks. dist.</p>
	<p>A Juniper 36 ins. dia. bears N. 28° 00' E. 128 lks. dist.</p> <p>Each blazed and scribed 5 H E S 538 B T.</p> <p>A Juniper 16 ins. dia. bears S. 59° 10' W. 137 lks. dist.</p>

Chains A Juniper 6 ins. dia., bears N. 68° 00' W.
 .W ' 03 001 .E 78 lks. dist. 88
 Each blazed and scribed L H E S + 537 B T.
 .W ' 01 088 .E 81 lks. dist. 81
 Thence N. 8° 16' W. .81 lks. dist. 81
 .T 8 8 Over bottom land through scattering timber.
 0.50 . Wash 40 lks. wide, course S. 15° 00' W.
 Asc. 50 ft. to cor. along E. slope.
 1.25 ' 0 Road bears N. and S. and 08 lks. dist. 08
 17.50 Road bears N. 60° 00' W. and S. 60° 00' E.
 18.09 B To cor. No. 1 the place of beginning.

AREA .W ' 03 001 .E 78 lks. dist. 88
 Total area 44.76 acres. .E 78 lks. dist. 88
 scattering timber.

IMPROVEMENTS .E 78 lks. dist. 88
 There are no improvements of any description on this
 claim and the claimant has never established residence
 on this tract.

DESCRIPTION .E 78 lks. dist. 88
 This claim is located in a narrow wooded draw, the soil
 is a sandy loam, second rate, none of the area has
 been cultivated in the past, the claim is covered with
 dense oak brush, but there is no merchantable timber
 on the claim.
 There is no water or evidence of mineral on the claim.

CONFLICTS AND ADJOINING CLAIMS.
 There are no conflicts. Line 4-5 of the claim is iden-
 tical with line 1-2 of H E S 537, which is the only
 adjoining or nearby claim.
 Canelo, Arizona, post office and trading place is 9 miles

CORONADO NATIONAL FOREST

STATE OF ARIZONA

Chains

in a Northwesterly direction.

Elgin, Arizona, the nearest railway station is 19 miles
in a Northwesterly direction.

TRAVERSE

Cor.	Course	Dist.	N.	S.	E.	W.
1-2	N. 49° 30' E.	27.00	17.54		20.53	
2-3	S. 83° 31' E.	11.31		1.28	11.24	
3-4	S. 38° 32' W.	40.12		31.38		24.99
4-5	S. 56° 13' W.	5.00		2.78		4.16
5-1	N. 8° 16' W.	18.09	17.90			2.60
			101.52	35.44	35.44	31.77 31.75
				35.44		31.75
Error in Lat. and Dept.				.00		.02

Closing Error, 1:5076

Tie from Cor. 1 to SE. Cor. T. 22 S., R. 18 E. W.

	Course	Dist.	N.	S.	E.	W.
	N. 31° 31' W.	7.52	6.41			3.93
	N. 16° 54' W.	15.95	15.26			4.64
	N. 20° 10' W.	7.45	6.99			2.57
	N. 20° 55' W.	35.28	32.95			12.59
	N. 43° 20' W.	23.40	17.02			16.06
	N. 10° 44' W.	1.27	1.25			.24
			79.88			40.03

S. 26° 37' E. . . . 89.35 chs.

Survey completed June 4, 1917.

[Signature]
Surveyor, Forest Service.

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. 538, STATE OF Arizona

8-2349

CORNERS.	BEARING.	DISTANCE.	LATITUDES.				DEPARTURES.				DOUBLE M. D.	N. AREAS.		S. AREAS.			
			NORTH.		SOUTH.		EAST.		WEST.								
1-2	N. 49° 30' E.	27.00 ✓	17	54 ✓			20	53 ✓			20	52 ✓	359	92 ✓			
2-3	S. 83° 31' E.	11.31 ✓			1	28 ✓	11	24 ✓			52	28 ✓			66	92 ✓	
3-4	S. 38° 32' W.	40.12 ✓			31	38 ✓			25	00 ✓	24	99 ✓	38	52 ✓	1208	76 ✓	
4-5	S. 56° 13' W.	5.00 ✓			2	78 ✓			4	16 ✓	9	36 ✓			26	02 ✓	
5-1	N. 8° 16' W.	18.09 ✓	17	90 ✓					2	60 ✓	2	60 ✓	46	54 ✓			
		101.52	35	44 ✓	35	44 ✓	31	77 ✓	31	75 ✓			406	46 ✓	1301	70 ✓	
			35	44	35	44	31	76	31	76					406	46	
															20	895	24
	Closing error	1:5076													44	76	44.76 A. ✓

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APPROVAL

Office of the United States Surveyor General,

Phoenix, Arizona, April 10, 1920

The foregoing field notes of Homestead Entry Survey No.

538

executed by *E. A. Long, Surveyor* [Forest Service Title.]
under his special instructions, dated *March 28*, 1917, 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.