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ORIGINAL

Form 85
Sheet No. 1
(Revised July 1, 1914.)

U. S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE

FIELD NOTES

OF

HOMESTEAD ENTRY SURVEY NO. 562

SITUATED IN THE **TONTO** NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3.

In Section 29 , unsurveyed, Township 7 N. , Range 13 E.
In Section 30 , unsurveyed, Township 7 N. , Range 13 E.
In Section 31 , unsurveyed, Township 7 N. , Range 13 E.
In Section 32 , unsurveyed, Township 7 N. , Range 13 E.

of the

GILA AND SALT RIVER BASE & Meridian.

State of

ARIZONA

Applicant for listing **A. C. Webb,**
Residence **Young, Arizona.**
Application No. **454** , dated **January 31, 19 14**
List No. **3-3846** , dated **June 7, 19 16**

Applicant for survey **Maroni Hicks,**
Residence **Young, Arizona.**
H. E. No. **037342** , dated **December 17, 19 17**
Land Office **Phoenix, Arizona.**

Survey executed by **Frank D. Yost,** Surveyor - Forest Service,
[Forest Service Title.]
Under special instructions dated **February 15, 19 18**
Survey commenced **May 20, 19 19**
Survey completed **May 21, 19 19**
Under Acts of **June 11, 1906, and October 1, 1918.** (OVER)

OATH OF ASSISTANTS

We hereby certify that we assisted **Frank D. Yost,**
Surveyor - Forest Service, in surveying all those
 [Forest Service Title.]
 parts or portions of Homestead Entry Survey No. **562**, 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 inconvenient to appear before an officer to administer oaths to Assistants; hence, they were taken by the Surveyor.

H. E. Brandenburg

Chairman

H. H. Langfellow

Chairman

Subscribed and sworn to before me this **6** **Sixth** day of
August, 19 **19**.

Frank D. Yost

Surveyor - Forest Service,

OATH OF SURVEYOR

I, **Frank D. Yost,** **Surveyor - Forest Service,**
 [Forest Service Title.]

do solemnly swear that, in strict conformity with the special instructions of the United States Surveyor General for **ARIZONA**, dated **February 15**, 19 **18**, 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

List , No. **3-3846**, dated **June 7**, 19 **16**, for
 Patent , under the Act of **June 11**, 19 **06**,
 the same to be known as Homestead Entry Survey No. **562**,
 situated within the **TONTO** National Forest, in
 unsurveyed Section **29**, Township **7 N.**, Range **13 E.**, and
 unsurveyed Section **30**, Township **7 N.**, Range **13 E.**, and
 unsurveyed Section **31**, Township **7 N.**, Range **13 E.**, and
 unsurveyed Section **32**, Township **7 N.**, Range **13 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.

Frank D. Yost

Surveyor, Forest Service,

[Forest Service Title.]

Subscribed and sworn to before me this **Fifth** day of
November, 19 **19**



8-2349

Ethel G. Myers

Notary Public,

My commission expires **March 17, 1921.**

TONTO NATIONAL FOREST

STATE OF ARIZONA

Chains

Applicant for listing A. C. Webb; Application No. 454, dated January 31, 1914; List No. 5-3846, dated June 7, 1916; H. E. 037342 made in the Phoenix Land Office on December 17, 1917, by Maroni Hicks.

Surveyed under special instructions from the Surveyor General for Arizona, dated February 15, 1918, and designated as Homestead Entry Survey No. 562.

Situated in what will probably be when surveyed Secs. 29, 30, 31 and 32, T. 7 N., R. 13 E., Gila and Salt River Base and Meridian, Tonto National Forest, Arizona.

Surveyed under the Acts of June 11, 1906 and October 1, 1918.

Survey commenced May 20, 1919, and executed with a Buff and Buff transit No. 10019, 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.

May 20, 1919.

At Cor. No. 1 of this survey, hereinafter described, I observe the altitude of the sun for azimuth. The reading on the reference mark was set at 200° 13', and the sun was observed in all four quadrants of the field. My watch was set for local mean time.

Lat. 35° 54' 53" N., Long. 111° 03' 13" W., from special instructions from the Surveyor General and later verified.

Telescope Pos.		l.m.t. a.m.	Horizontal Angle	Vertical Angle
Direct	+	6h 55m 02s	262° 28' 30"	23° 28' 30"
Reversed	+	6h 57m 17s	262° 10' 30"	23° 23' 30"
Direct	+	6h 55m 47s	261° 58' 00"	23° 35' 30"
Reversed	+	6h 56m 32s	262° 39' 30"	23° 15' 30"

The bearing of the reference mark is N. 19° 00' 28" E.

HOMESTEAD ENTRY SURVEY NO. 562

TONTON NATIONAL FOREST

STATE OF ARIZONA

Chains

At the same station I again observe the altitude of the sun for azimuth. The reading on the reference mark was set at $200^{\circ} 13'$ and the sun was observed in all four quadrants of the field. My watch was set for local mean time.

Telescope	Pos. sun	l.m.t. a.m.	Horizontal Angle	Vertical Angle
Direct	+ ^o	7h 00m 07s	$263^{\circ} 06' 00''$	$24^{\circ} 29' 30''$
Reversed	+	7h 02m 07s	$262^{\circ} 47' 30''$	$24^{\circ} 24' 30''$
Direct	+ ^o	7h 00m 47s	$262^{\circ} 36' 30''$	$24^{\circ} 27' 30''$
Reversed	+ _o	7h 01m 32s	$263^{\circ} 17' 30''$	$24^{\circ} 15' 30''$

The bearing of the reference mark is N. $18^{\circ} 58' 34''$ E.

The two observations give a mean bearing of N. $18^{\circ} 59' 31''$

E. I accept bearing of reference mark as N. $18^{\circ} 59' 30''$ E.

and from the corresponding meridian all the courses of this survey are referred by sustained angulation.

BOUNDARIES OF CLAIM

May 20, 1919.

Beginning at Cor. No. 1,

Identical with Cor. H-6 of the list survey, which is a red sandstone boulder 12 x 12 x 3 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 3 x 2 ins. marked with a + 20 ins. in the ground, over which set a red sandstone 26 x 8 x 6 ins. chiseled + for the point and 1 H E S 562 on SE. face; raise a mound of stone 3 ft. base, 2 ft. high, SE. of cor., whence:

An oak 6 ins. dia., brs. S. $87^{\circ} 01' W.$, 10 lks. dist.

An oak 30 ins. dia., brs. N. $8^{\circ} 30' W.$, 11 lks. dist.

Each blazed and scribed 1 H E S 562 + B T

The cor. of Secs. 25, 30, 31 and 36, T. 7 N., R. 12 and

13 E., accepted, a red sandstone 8 x 6 x 8 ins.

above ground, firmly set and marked and witness-

ed as described by Surveyor General brs. S. $79^{\circ} 20' 24'' W.$

TONTO NATIONAL FOREST

STATE OF ARIZONA.

19

Chains

73.36 chs. dist. by traverse which appears at the end of these notes.

Note: This survey was tied to the cor. of Secs. 25, 30, 31 and 36, T. 7 N., Rs. 12 and 13 E. as the above cor. was more accessible than the cor. of Secs. 5, 6, 31 and 32, Ts. 6 and 7 N., R. 13 E.

Lat. 33° 54' 53" N., Long. 111° 03' 13" W. from special instructions from the Surveyor General and later verified.

Mag. decl. at 8 a.m. is 14° 30' E. Mean mag. decl. is 14° 26' E.

Thence S. 85° 45' E.

Desc. 60 ft. over rocky SE. slope, thru dense scrub oak, juniper and pinon.

13.20 Arroyo 60 lks. wide, banks 35 ft. high, running water 5 lks. wide 3 ins. deep, course NE. Wire fence crosses arroyo and claim line at this point, fence bears N. 30° W. and S. 30° E.

Ascend 30 ft. over NW. slope thru thick oak, juniper and pinon.

20.51 Wire fence bears N. 35° E. and S. 35° W.

27.63 To Cor. No. 2,

Identical with Cor. H/5 of the list survey, which is a yellow sandstone boulder 18 x 8 x 6 ins. above ground marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. Deposit a sandstone 5 x 4 x 3 ins. marked with a + 26 ins. in the ground, over which set an iron post 36 ins. long by 2 ins. dia. with brass cap mkd 1919 on S. rim and 2 H E S 562 in the SW. quadrant; raise amount of stone 3 ft. base, 2 ft. high SW. of cor., whence:

An oak 24 ins. dia. bears S. 38° 50' W.

96 lks. dist.

An oak 18 ins. dia. bears N. 59° 00' W.

81 lks. dist.

Chains

Each blazed and scribed 2 H E S 562 + B T.

Thence S. $13^{\circ} 56'$ E. over rolling rocky west slope, thru heavy oak, pine, juniper and pinon.

33.84 To Cor. No. 3,

Identical with Cor. H/4 of the list survey, which is a red sandstone boulder $12 \times 8 \times 6$ ins. above ground, mkd. and witnessed as described by the Forest Service. I destroy all trace of this list cor. Deposit a sandstone $4 \times 4 \times 3$ ins. mkd with a + 18 ins. in the ground, over which set a red sandstone $26 \times 12 \times 10$ ins. chiseled + for the point and 3 H E S 562 on NW. face; raise a mound of stone 3 ft. base, 2 ft. high NW. of cor., whence:

An oak 24 ins. dia. bears N. $23^{\circ} 01'$ W.

51 lks. dist.

An oak 14 ins. dia. bears N. $57^{\circ} 33'$ E.

26 lks. dist.

Each blazed and scribed 3 H E S 562 + B T.

Thence S. $89^{\circ} 57'$ W.

Desc. 10 ft. over rocky west slope thru heavy oak, juniper, pine and pinon.

13.16 To Cor. No. 4,

Identical with Cor. H/3 of the list survey, which is a granite boulder $12 \times 10 \times 3$ ins. above ground, mkd and witnessed as described by the Forest Service. I destroy all trace of this list cor. Deposit a granite stone $4 \times 4 \times 4$ ins. marked with a + 26 ins. in the ground, over which set an iron post 36 ins. long \times 2 ins. dia. with brass cap mkd 1919 on S. rim and 4 H E S 562 in NE. quadrant; raise a mound of stone 3 ft. base 2 ft. high NE. of cor., whence:

An Oak 8 ins. dia. bears N. $2^{\circ} 07'$ E. 20 lks. dist.

An Oak 6 ins. dia. bears N. $48^{\circ} 21'$ W.

30 lks. dist.

Each blazed and scribed 4 H E S 562 + B T.

Thence N. $13^{\circ} 43'$ W.

Desc. 15 ft. over NW. slope thru heavy oak, pine

TONTO NATIONAL FOREST

STATE OF ARIZONA.

Chains juniper and pinon.

12.27 ✓ To cor. No. 5,
Identical with cor. H/2 of the list survey which is a red sandstone 18 x 18 x 3 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. Deposit a granite stone 4 x 3 x 2 ins. marked with a + 20 ins. in the ground, over which set a red granite stone 28 x 10 x 8 ins. chiseled + for the point and 5 H E S 562 on NE. face; raise a mound of stone 3 ft. base 2 ft. high NE. of cor., whence:

An oak 16 ins. dia. bears N. 88° 58' W.

50 lks. dist.

A juniper 30 ins. dia. bears S. 26° 00' W.

61 lks. dist.

Each blazed and scribed 5 H E S 562 + B T.

May 20, 1919.

May 21, 1919.

Thence S. 88° 37' W.

Desc. 20 ft. over NW. slope, thru heavy oak, pine, pinon and juniper.

20.21 ✓ To cor. No. 6,
Identical with cor. H/1 of the list survey, which is a granite boulder 18 x 12 x 5 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. Deposit a gray basalt 3 x 2 x 2 ins. marked with a + 20 ins. in the ground, over which set a gray basalt stone 28 x 12 x 3 ins. chiseled + for the point and 6 H E S 562 on NE. face; raise a mound of stone 3 ft. base 2 ft. high NE. of cor., whence:

A wild cherry 10 ins. dia. bears N. 72° 00' W.

10 lks. dist.

An oak 20 ins. dia. bears N. 27° E.

111 lks. dist.

HOMESTEAD ENTRY SURVEY NO. 562

TONTO NATIONAL FOREST

STATE OF ARIZONA.

Chains ✓ Each blazed and scribed 6 H E S 562 + B T.

Thence N. 1° 19' E.

Desc. 20 ft. over rocky NW. slope, thru dense scrub oak.

7.27 Arroyo 75 lks. wide, banks 5 ft. high, running water 5 lks. wide, 6 ins. deep, course NE. Bottom of desc.

Asc. 65 ft. over steep rocky SE. slope thru dense scrub oak, juniper, pine and pinon.

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

AREA

Total Area-----82.91 Acres
(And not 79.50 Acres as recorded in the list survey).

IMPROVEMENTS

The improvements made upon and for the benefit of this claim and belonging to the claimant herein consist of the following:

A well, stone walled, 6 ft. dia. 30 ft. deep, the center of which bears S. 16° 10' E. 1261 chs. dist. from Cor. No. 1.

Value-----\$ 75.00

A log house 20 x 30 ft., the long sides extending E. and W., the NW. cor. of which bears S. 42° 01' E. 14.97 chs. from cor. No. 1.

Value-----\$500.00

A stone and log storehouse 14 x 20 ft., the long sides extending N. and S. the NW. cor. of which bears S. 37° 10' E. 15.81 chs. dist. from cor. No. 1.

Value-----\$ 75.00

A frame barn 20 x 25 ft. the long sides extending NW. and SE. the NW. cor. of which bears S. 41° 15' E. 18.10 chs. dist. from cor. No. 1.

Value-----\$150.00

2 Pole corrals, each 70 ft. dia. which lie approximately S. 44° E. 18.50 chs. dist. from cor. No. 1.

Value-----\$100.00

TONTO NATIONAL FOREST

STATE OF ARIZONA.

Chains Approximately 1 mile of wire fencing.
Value-----\$200.00

DESCRIPTION

Claim is located at the head of Salome Creek on the Salt River drainage area. The soil is a fine sandy loam 3 ft: deep, well drained, and should be very fertile. No water available for irrigation, but an ample supply for domestic use is obtained from the well. About 65% of the area is suitable for agricultural purposes. At the present time approximately 30 acres are under cultivation, 30 acres are still uncleared and the balance is non-agricultural land, included to simplify the claim boundaries. The timber on the uncleared portion is dense scrub oak, pine, juniper, pinon, with some cedar, which will run about 6 cords to the acre. None is saw timber, and because of the distance to market is considered of no commercial value. I saw no signs of mineral on the claim.

CONFLICTS AND ADJOINING CLAIMS

There are no conflicts.
Young, Arizona, the nearest settlement and postoffice lies about 17 miles dist. by pack trail in a Northeast-erly direction.

TRAVERSE

Course	Dist.	N.	S.	E.	W.
S. 85°45' E.	27.63		2.05	27.55	
S. 13 56 E.	33.84		32.84	8.15	
S. 89 37 W.	13.16		.09		13.16
N. 13 43 W.	12.27	11.92			2.91
S. 88 37 W.	20.21		.49		20.20
N. 1 19 E.	23.53	23.52		.54	
	130.64	55.44	35.47	36.24	36.27
			.44		.24
Error in Lat. and Dep.			.03		.03

Closing Error, 1:3081.

HOMESTEAD ENTRY SURVEY NO. 562

TONTO NATIONAL FOREST

STATE OF ARIZONA.

Chains TIE FROM COR. NO. 1 TO THE N.W. COR. OF SECS. 25, 30, 31, and 36, T. 7 N., Rs. 12 and 13 E.

Course	Dist.	N.	S.	E.	W.
S. 33° 36'	E. 17.40		14.49	9.63	
S. 72 05	W. 44.72		13.76		42.55
N. 82 59	W. 1.87	.23			1.86
N. 70 00	W. 8.68	2.97			8.16
N. 80 49	W. 12.47	1.99			12.31
N. 87 06	W. 15.51	.78			15.49
N. 11 45	W. 3.41	3.34			.69
N. 59 41	E. 3.46	1.75		2.99	
N. 44 43	W. 5.12	3.63			3.60
		14.69	28.25	12.62	84.66
			14.69		12.62
			13.56		72.04

Resultant course S. 79° 20' 24" W. 73.36 chs. dist.

Survey completed May 21, 1919.

Note: Any discrepancy between these field notes and those of the listing survey is due to error in the latter.

[Handwritten Signature]
Surveyor-Forest Service.

TONTO NATIONAL FOREST

STATE OF ARIZONA.

Chains Direct solar obsn. at Cor. No. 1 of H.E.S. 562.

May 20, 1919.

Lat. $33^{\circ} 54' 53''$ N.; Long. $111^{\circ} 03' 13''$ W. from special instructions from the Surveyor General and later verified. Approximate elevation 5200 ft. Reading on

Ref. Mark set at $200^{\circ} 13'$.

Telescope	Pos.	l.m.t.	Horizontal Angle	Vertical Angle
	Sun	a.m.		

Direct	$+^{\circ}$	6h.55m.02s.	$262^{\circ} 28' 30''$	$23^{\circ} 28' 30''$
Reversed	$o+$	6h.57m.17s.	262 10 30	23 23 30
Direct	$o+$	6h.55m.47s.	261 58 00	23 35 30
Reversed	$+^{\circ}$	6h.56m.32s.	262 39 30	23 15 30

Means 6h.56m.09s. $262^{\circ} 19' 08''$ $23^{\circ} 25' 45''$

Corr. for Refr. $\frac{1'44''}{23^{\circ} 24' 01''}$

Decl. $19^{\circ} 50' 02''$ N.

$$\cos Q = \frac{\sin 19^{\circ} 50' 02''}{\cos 33^{\circ} 54' 53'' \times \cos 23^{\circ} 24' 01''} - \tan 33^{\circ} 54' 53'' \times \tan 23^{\circ} 24' 01''$$

$\sin 19^{\circ} 50' 02'' = 9.5305767$
 $\cos 33^{\circ} 54' 53'' = 9.9190095$
 $\cos 23^{\circ} 24' 01'' = 9.9627257$
 $\frac{9.6488415}{9.9627257} = \log .44549$

$\tan 33^{\circ} 54' 53'' = 9.8275923$
 $\tan 23^{\circ} 24' 01'' = 9.6362315$
 $\frac{9.4638238}{9.6362315} = \log .29095$

$\cos Q = .15454$

$Q = 81^{\circ} 06' 36''$

Angle sun to mark, $62^{\circ} 06' 08''$

Azimuth of sun $81^{\circ} 06' 36''$

Bearing of Ref. Mark N. $19^{\circ} 00' 28''$ E.

HOMESTEAD ENTRY SURVEY NO.

NATIONAL FOREST

STATE OF

Chains

Direct solar at Cor. No. 1 H. E. S. 562.

May 20, 1919. Reading on Ref. Mark set at 200° 15'

(2)

Telescope	Pos. Sun	l.m.t. a.m.	Horizontal Angle	Vertical Angle
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Direct +° 7h.00m.07s. 263°06'00" 24°29'30"

Reversed °+ 7h.02m.07s. 262°47'30" 24°24'30"

Direct °+ 7h.00m.47s. 262°36'30" 24°27'30"

Reversed +° 7h.01m.32s. 263°17'30" 24°15'30"

Means 7h.01m.08s. 262°56'52" 24°24'15"

Corr. for Refr. 1'40"

Decl. 19°50'05" N. 24°22'35"

$$\cos Q = \frac{S. 19^{\circ} 50' 05'' N. - \tan 33^{\circ} 54' 53''}{\cos 33^{\circ} 54' 53'' \times \cos 24^{\circ} 22' 35''}$$

$$\times \tan 24^{\circ} 22' 35''$$

$$\sin 19^{\circ} 50' 05'' = 9.5305942$$

$$\cos 33^{\circ} 54' 53'' = 9.9190095$$

$$\cos 24^{\circ} 22' 35'' = 9.9594487$$

$$\frac{9.6521360}{9.9594487} = \log. .44889$$

$$\tan 33^{\circ} 54' 53'' = 9.8275923$$

$$\tan 24^{\circ} 22' 35'' = 9.6562164$$

$$\frac{9.4838087}{9.6562164} = \log. .30466$$

$$\cos Q = .14423$$

$$Q = 81^{\circ} 42' 26''$$

Angle sun to Mark 62° 43' 52"

Azimuth sun 81° 42' 26"

Bearing Ref. Mark N. 18° 58' 54" E.

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. 562, STATE OF ARIZONA

8-2349

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.		S. AREAS.	
			NORTH.	SOUTH.	EAST.	WEST.					
1-2	S. 85° 45' E.	27.63		2 05	27 55		28 66			58 47	
2-3	S. 13 56 E.	33.84		32 84	8 15		64 38			2113 60	
3-4	S. 89 37 W.	13.16		09		13 16	59 38			5 34	
4-5	N. 13 43 W.	12.27	11 92			2 91	43 31	516 26			
5-6	S. 88 37 W.	20.21		49		20 20	20 20			9 90	
6-1	N. 1 19 E.	23.53	23 52		54		55	12 94			
		130.64	35 44	35 47	36 24	36 27		529 20		2187 31	
				35 44		36 24				529 20	
	Error in Lat. and Dep.			03		03				20 / 1658 11	
	Closing Error, 1:3081									82 91 Acres	

J.S.

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APPROVAL

Office of the United States Surveyor General,

Phoenix, Arizona, May 22, 1910

The foregoing field notes of Homestead Entry Survey No.

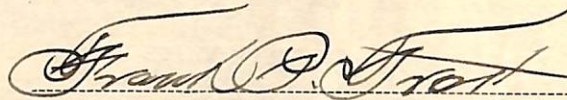
executed by

[Forest Service Title.]

under his special instructions, dated

, 191 , 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.