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U. S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE

DEC-8-1919
MAY-7-1920

FIELD NOTES

OF

HOMESTEAD ENTRY SURVEY NO. 564

SITUATED IN THE **TONTO** NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

In Section 6 , un surveyed, Township 8 N. , Range 13 E. ✓
In Section 7 , unsurveyed, Township 8 N. , Range 13 E.

of the

GILA AND SALT RIVER BASE AND Meridian.

State of

ARIZONA

Applicant for listing **G. M. Burleson,** ✓
Residence **Young, Arizona.**
Application No. **407** ✓ , dated **June 2** , 19 **13** ✓
List No. **3-3050** , dated **January 23** , 19 **14** ✓

Applicant for survey
Residence
H. E. No. , dated , 19
Land Office

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



OATH OF ASSISTANTS

We hereby certify that we assisted
Surveyor - Forest Service,
[Forest Service Title]

Frank D. Yost,
in surveying all those

parts or portions of Homestead Entry Survey No. **564**, 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.

H. E. Braudenburg
Chainman

H. H. Longfellow
Chainman

Subscribed and sworn to before me this **6th** 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. **3-3050**, dated **January 23, 1914**, and also a tract of unlisted land upon the application of **G. M. Burleson,**

Application, No. **407**, dated **June 2**, 19 **13**, for Listing and Patent, under the Act of **June 11, 1906**, the same to be known as Homestead Entry Survey No. **564**, situated within the **TONTO** National Forest, in unsurveyed Section **6**, Township **8 N.**, Range **13 E.**, and unsurveyed Section **7**, Township **8 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

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

Subscribed and sworn to before me this **fifth** day of

November, 19 **19**.

Echel G. Myers
Notary Public.



8-2349

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

TONTONATIONAL FOREST

STATE OF ARIZONA

Chains Applicant for listing, G. M. Burleson; Application No. 407, dated June 2, 1913; List No. 3-3050, dated January 23, 1914;

Also a tract of adjoining unlisted land was included in this survey; the land is agricultural in character, and was desired by entryman.

This is therefore a composite survey.

The changes made in this survey are in accordance with the desires of the claimant and meet with the approval of the Forest Service. Copy of a signed statement from Mr. Burleson agreeing to the changes is attached at the end of these notes.

Surveyed under special instructions from the Surveyor General for Arizona, dated February 15, 1918, and designated as Homestead Entry Survey No. 564.

Situated in what will probably be when surveyed Secs. 6 and 7, T. 8 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 June 21, 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.

Chains June 21, 1919.

At Cor. No. 1 of this survey hereinafter described, I observe the altitude of the sun for azimuth. The reading on the reference object was set at zero and the sun was observed in the upper right and lower left quadrants of the field. My watch is set for local mean time. Lat. $34^{\circ} 03' 33''$ N., Long. $111^{\circ} 03' 42''$ W. from special instructions of the Surveyor General and later verified.

Telescope	Pos.	l.m.t.	Horizontal Angle	Vertical Angle
Direct	sun	7h 25m 10s	$3^{\circ} 09' 00''$	$30^{\circ} 11' 03''$
Reversed	+	7h 25m 50s	$2^{\circ} 37' 00''$	$29^{\circ} 47' 58''$
Means		7h 25m 30s	$2^{\circ} 53' 00''$	$29^{\circ} 59' 30''$

Bearing of reference mark is N. $77^{\circ} 38' 39''$ E.

At the same Station, I again observe the altitude of the sun for azimuth. The reading on the reference object was set at zero and the sun was observed in the upper left and lower right quadrants.

Telescope	Pos.	l.m.t.	Horizontal Angle	Vertical Angle
Direct	sun	7h 26m 55s	$3^{\circ} 21' 00''$	$20^{\circ} 32' 46''$
Reversed	+	7h 27m 30s	$2^{\circ} 48' 30''$	$30^{\circ} 09' 14''$
Means		7h 27m 12s	$3^{\circ} 04' 45''$	$30^{\circ} 21' 00''$

Bearing of reference mark is N. $77^{\circ} 39' 34''$ E.

Mean bearing of reference mark as determined from the two obsns. is N. $77^{\circ} 39' 06''$ E. I accept bearing of reference mark as N. $77^{\circ} 39'$ E. and to the corresponding meridian all the courses of this survey were referred by sustained angulation.

TONTO NATIONAL FOREST

STATE OF ARIZONA

Chains

BOUNDARIES OF CLAIM

June 21, 1919.

Beginning at Cor. No. 1.

Point for cor. falls on top of an embedded granite boulder showing 36 x 30 x 24 ins. above ground. I chisel boulder + and 1 H E S 564 on top, for Cor. No. 1 of this survey; raise a mound of stone 3 ft. base, 2 ft. high E. of cor., whence:

An oak 24 ins. dia., brs. S. 0° 17' W.,

22 lks. dist.

An oak 8 ins. dia., brs. N. 89° 37' E.,

12 lks. dist.

Each blazed and scribed 1 H E S 564 + B T

Cor. to Secs. 1, 6, 7 and 12, T. 8 N., Rs. 12

and 13 E., a sandstone 24 x 10 x 10 ins.

above ground, marked and witnessed as de-

scribed by the Surveyor General, bears

S. 65° 05' W., 20.05 chs. dist. by direct

measurement.

Cor. H-3 of the list survey, which is a sand-

stone 14 x 10 x 6 ins. above ground, marked

and witnessed as described by the Forest

Service, bears S. 86° 54' W., 4.02 chs. dist.

I destroy all trace of this list cor.

Lat. 34° 03' 33" N., Long. 111° 03' 42" 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 N. 20° 20' E.

Along base of cliff, 60 ft. high, extending S. 20° 17' W.

and N. 20° 17' E. Open bottom land to right.

Chains

- 6.37 Spring Creek, 75 lks. wide, banks 3 ft. high, running water 12 lks. wide, 6 ins. deep, course N. 35° W. Ascend 20 ft. over SW. slope.
- 10.18 To Cor. No. 2.
Point for cor. falls on an embedded sandstone boulder showing 48 x 24 x 8 ins. above ground. I chisel same boulder + and 2 H E S 564 on top for Cor. No. 2 of this survey, and raise a mound of stone 3 ft. base, 2 ft. high S. of cor., whence:
An oak 24 ins. dia., brs. S. 60° 41' E.,
8 lks. dist.
An oak 20 ins. dia., brs. N. 19° 61' E.,
104 lks. dist.
Each blazed and scribed 2 H E S 564 + B T
Cor. H-4 of the list survey, which is a sandstone 10 x 6 x 4 ins. above ground, marked and witnessed as described by the Forest Service, brs. N. 16° 13' W., 6.69 chs. dist. I destroy all trace of this list cor.
-
- Thence S. 28° 18' E.
Along SW. slope, thru timber and heavy underbrush.
- 24.10 To Cor. No. 3.
Identical with Cor. H-1 of the list survey, which is a sandstone 8 x 8 x 4 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 + 24 ins. in the ground, over which set an iron post 2 ins. dia., 36 ins. long, with brass cap mkd. 1919 on S. rim, and 3 H E S 564 in SW. semi-circle; raise a mound of stone 3 ft. base, 2 ft. high, SW. of cor., whence:

TONTO NATIONAL FOREST

STATE OF ARIZONA

Chains show An oak 16 ins. dia., brs. S. 5° 17' W.,
 11 lks. dist.
 An oak 14 ins. dia., brs. S. 80° 05' E.,
 59 lks. dist.
 Each blazed and scribed 3 H E S 564 + B T

Thence S. 25° 48' E.
 Over unlisted land, along SW. slope; thru timber and
 heavy underbrush.

8.18 To Cor. No. 4.
 Deposit a sandstone 3 x 2 x 1 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 1919 on S.
 rim and 4 H E S 564 in NW. sector; raise a mound of
 stone 3 ft. base, 2 ft. high NW. of cor., whence:
 A boxalder 30 ins. dia., brs. S. 50° 23' W.,
 11 lks. dist.
 An oak 8 ins. dia., brs. S. 49° 59' E.,
 98 lks. dist.
 Each blazed and scribed 4 H E S 564 + B T

Thence N. 72° 54' W.
 Over unlisted land; Descend SW. slope 20 ft., thru
 heavy underbrush.

1.06 Right bank Spring Creek, 70 lks. wide, banks 3 ft. high,
 From S. 45° E., course N. 65° W. Continue up bed of
 Spring Creek.

4.96 Middle Spring Creek, 70 lks. wide, banks 3 ft. high,
 running water 12 lks. wide, 6 ins. deep, course N. 65° W.

6.21 Left bank Spring Creek, 70 lks. wide, banks 3 ft. high,
 course N. 30° W. Asc. 20 ft., along base of NE.
 slope, thru heavy brush.

13.71 To Cor. No. 5.

Chains

Identical with Cor. H-2 of the list survey, which is a sandstone 10 x 8 x 4 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor.

Deposit a granite stone 3 x 3 x 3 ins. marked with a + 14 ins. in the ground, over which set a granite stone 24 x 24 x 8 ins. chiseled + for the point and 5 H E S 564 on NE. face; raise a mound of stone 3 ft. base, 2 ft. high NE. of cor., whence:

An oak 16 ins. dia., brs. N. 47° 23' E., 90 lks. dist.

An oak 14 ins. dia., brs. S. 26° 50' E., 41 lks. dist.

Each blazed and scribed 5 H E S 564 + B T

Thence N. 19° 35' W.

Over listed land, along foot of NE. slope, thru timber and heavy brush.

15.97

To Cor. No. 1, the place of beginning.

AREA

Listed Area	17.30	Acres,
Unlisted Area	4.10	Acres,
Total Area	21.40	Acres.

IMPROVEMENTS.

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

A log house 15 x 22 ft., the long sides extending E. and W., the SW. cor. of which bears N. 52° 02' E., 3.79 chs. dist. from Cor. No. 5,

TONTO NATIONAL FOREST

STATE OF ARIZONA

Chains

Value - - - - - \$ 300.00

A log store house 15 x 22 ft., the long sides extending E. and W., the SE. cor. of which bears N. 48° 23' E., 3.52 chs. dist. from

Cor. No. 5,

Value - - - - - \$ 150.00

A log barn 18 x 24 ft., the long sides extending N. and S., the SW. cor. of which bears N. 6° 43' W., 5.11 chs, dist. from Cor. No. 5.

Value - - - - - \$ 100.00

A pole corral 50 x 100 ft., the long sides extending N. 21° W. and S. 21° E., the SW. cor. of which bears N. 4° 03' E., 3.81 chs. dist. from cor. No. 5.

Value - - - - - \$ 200.00

Approximately 1 mile pole and brush fence, with two strands barbed wire on top,

Value - - - - - \$ 100.00

A well 8 ft. dia., by 10 ft. deep, the center of which bears N. 47° 45' E., 5.55 chs. dist. from Cor. No. 5.

Value - - - - - \$ 50.00

DESCRIPTION

The claim consists mainly of level bottom land along Spring Creek which flows thru from SE. to NW. The soil is a sandy loam from two to four ft. deep, and very fertile, and will produce good crops of hay, grain and vegetables.

Water for domestic use is obtained from the well on the claim.

There is no timber of commercial value on the claim.

TONTO NATIONAL FOREST

STATE OF ARIZONA

Chains I saw no indications of mineral on the claim.

CONFLICTS AND ADJOINING CLAIMS

There are no conflicts or adjoining claims.

Young, Arizona, the nearest settlement and Postoffice is about 7 miles in a northeasterly direction.

TRAVERSE

Course	Dist:	N.	S.	E.	W.
N. 20° 20' E. ✓	10.18	9.55		3.54	
S. 28° 18' E. ✓	24.10		21.22	11.43	
S. 25° 48' E. ✓	8.18		7.36	3.56	
N. 72° 54' W. ✓	13.71	4.03			13.10
N: 19° 35' W. ✓	15.97	15.05			5.35
	72.14	28.63	28.58	18.53	18.45
		28.58		18.45	
Error in Lat. and Dep.	.05			.08	

Closing Error, 1:765

Survey completed June 21, 1919.

Frank Dyet
 Surveyor - Forest Service

TONTO NATIONAL FOREST

STATE OF ARIZONA

Chains Direct Solar Obsn. at Cor. No. 1, June 21, 1919
 Lat. 34° 03' 33" N., Long. 111° 03' 42" W., from special instructions from the Surveyor General and later verified. Elevation approximately 5200 feet.

Telescope	Pos.	l.m.t.	Horizontal Angle	Vertical Angle
Direct	sun +°	7h 25m 10s	3° 09' 00"	30° 11' 03"
Reversed	+	7h 25m 50s	2° 37' 00"	29° 47' 58"
Means		7h 25m 30s	2° 53' 00"	29° 59' 30" ✓
			Corr. for Refr.	1' 17" ✓
				29° 58' 13" ✓

Decl. N. 23° 26' 46" ✓

$$\text{Cos. } Q = \frac{\text{Sin } 23^{\circ} 26' 46'' - \text{tan } 34^{\circ} 03' 33''}{\text{Cos. } 34^{\circ} 03' 33'' \times \text{Cos. } 29^{\circ} 58' 13'' \times \text{tan. } 29^{\circ} 58' 13''}$$

Sin. 23° 26' 46" = 9.5997591 ✓

Cos. 34° 03' 33" = 9.9182713 ✓

Cos. 29° 58' 13" = 9.9376606 ✓

9.7438272 = log. .55441 ✓

Tan. 34° 03' 33" = 9.8299544 ✓

tan. 29° 58' 13" = 9.7609189 ✓

9.5908733 = log. .38983 ✓

Cos. Q. = .16458 ✓

Q. = 80° 31' 38" ✓

Bearing of reference mark is N. 77° 38' 38" E. ✓

Chains

Direct Solar at Cor. No. 1, June 21, 1919.

Lat. 34° 03' 33" N., Long. 111° 03' 42" W.

Telescope	Pos.	l.m.t.	Horizontal Angle	Vertical Angle
Direct	morning	7h 26m 55s	3° 21' 00"	30° 32' 46"
Reversed	evening	7h 27m 30s	2° 48' 30"	30° 09' 14"
Means		7h 27m 12s	3° 04' 45"	30° 21' 00"
Corr. for refr.				1' 17"
				<u>30° 19' 43"</u>

Decl. N. 23° 26' 46"

$$\text{Cos. Q.} = \frac{\text{Sin } 23^{\circ} 26' 46'' - \text{tan } 34^{\circ} 03' 33'' \times \text{Cos. } 34^{\circ} 03' 33'' \times 30^{\circ} 19' 43''}{\text{Cos. } 34^{\circ} 03' 33'' \times 30^{\circ} 19' 43''}$$

$$\text{tan } 30^{\circ} 19' 43''$$

$$\text{sin. } 23^{\circ} 26' 46'' = 9.5997591$$

$$\text{cos. } 34^{\circ} 03' 33'' = 9.9182713$$

$$\text{cos. } 30^{\circ} 19' 43'' = 9.9360830$$

$$9.7454048 = \text{log. } .55642$$

$$\text{tan. } 34^{\circ} 03' 33'' = 9.8299544$$

$$\text{tan. } 30^{\circ} 19' 43'' = 9.7671729$$

$$9.5971273 = \text{log. } .39548$$

$$\text{Cos. Q.} = .16094$$

$$\text{Q.} = 80^{\circ} 44' 19''$$

Bearing of reference mark, N. 77° 39' 34" E.

(Copy)

June 21, 1919.

I, G. M. Burleson hereby agree to the survey of my homestead, number 564 as made on 21st day of June 1919, by Forest Service Surveyor Frank D. Yost

and further agree that when notified that the survey has been approved and before attempting to make final proof on my entry, I will apply for amendment of the same to conform with said survey.

The changes made by the surveyor are excluding listed land of no value for farming and including unlisted land suitable for farming, and to include improvements erected by me.

H. R. Pitts,
Witness.

(Sgd.) G. M. Burleson,
Claimant,

- 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. 564, STATE OF ARIZONA

8-2349

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.		S. AREAS.		
			NORTH.	SOUTH.	EAST.	WEST.						
1 - 2	N. 20-20 E.	10.18	9 55 ⁵⁴		3 54 ⁵³		3 53	33 68				
2 - 3	S. 28-18 E.	24.10		21 22 ²⁴	11 43 ⁴¹		18 47			392 30		
3 - 4	S. 25-48 E.	8.18		7 36	3 56 ⁵⁵		33 43			246 04		
4 - 5	N. 72-54 W.	13.71	4 03 ⁰²			13 10 ¹²	23 86	95 92				
5 - 1	N. 19-35 W.	15.97	15 05 ⁰⁴			5 35 ³⁷	5 37	80 76				
		72.14	28 63	28 58	18 53	18 45		210 36		638 34		
			28 60 ⁶⁰	28 60	18 49 ⁴⁹	18 49				210 36		
	Error in Lat. and Dep. Closing Error, 1:765		05		08					20/ 427 98		
										21 40	Acres.	
			Traverse of Unlisted Area									I.S.
3 - 4	S. 25-48 E.	8.18		7 36	3 56		22 64			166 63		
4 - 5	N. 72-54 W.	13.71	4 03			13 10	13 10	52 79				
5 - 3	N. 70-45 E.	10.10	3 33		9 54		9 54	31 77				
		31.99	7 36	7 36	13 10	13 10		84 56		166 63		
										84 56		
										20/82 07		
										4 10	Acres	
											I.S.	

54

APPROVAL


Office of the United States Surveyor General,

Phoenix, Arizona, May 22, 1920

The foregoing field notes of Homestead Entry Survey No.

564

executed by *Frank D. Yost, Surveyor* [Forest Service Title.]
under his special instructions, dated *February 15*, 1918, 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.