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U. S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE

REC-8 1919
APR 15 1920

FIELD NOTES

OF

HOMESTEAD ENTRY SURVEY NO. 549

SITUATED IN THE SITGREAVES NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

In Section 35 , unsurveyed, Township 12 N., Range 17 E.
In Section 36 , unsurveyed, Township 12 N., Range 17 E.

of the

GILA AND SALT RIVER BASE & Meridian.

State of

ARIZONA

Inspection report herewith

Applicant for listing	Thomas L. Smithson,
Residence	Heber, Arizona.
Application No. 626	, dated April 7 , 19 16 & Dec. 20, 1916
List No. 3-4023	, dated March 24 , 19 17

Applicant for survey	Thos. L. Smithson,
Residence	Heber, Arizona.
H. E. No. 035922	, dated August 3 , 19 17
Land District 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	July 12	, 19 19
Survey completed	July 13	, 19 19
Under Acts of	June 11, 1906, and July 24	, 1919

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. **549**, 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.

H. E. Brandebury

Chainman

H. H. Longfellow

Chainman

Subscribed and sworn to before me this **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 instruc-
tions 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 **Patent**, No. **3-4023**, dated **March 24**, 19**17**, for
the same to be known as Homestead Entry Survey No. **549**,
situated within the **SITGREAVES** National Forest, in
un surveyed Section **35**, Township **12 N.**, Range **17 E.**, and
un surveyed Section **36**, Township **12 N.**, Range **17 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**.

Edhel G. Myers

Notary Public.



8-2349

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

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA

Chains

Applicant for listing, Thomas L. Smithson; Application No. 626, dated April 7, 1916 and December 20, 1916; List No. 3-4023, dated March 24, 1917; H. E. 035922 made in the Phoenix Land Office on August 3, 1917, by Thos. L. Smithson.

Surveyed under Special Instructions from the Surveyor General for Arizona, dated February 15, 1918, and designated as Homestead Entry Survey No. 549.

Situated in what will probably be when surveyed Secs. 35 and 36, T. 12 N., R. 17 E., Gila and Salt River Base and Meridian, Sitgreaves National Forest, Arizona.

Surveyed under the Acts of June 11, 1906 and July 24, 1919.

Survey commenced July 12, 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.

July 12, 1919.

At Cor. No. 5 of this survey, hereinafter described, I observe the altitude of the sun for azimuth. The reading on the reference mark was set at $267^{\circ} 29'$, and the sun was observed in all four quadrants of the field. My watch was set for local mean time.

Latitude $34^{\circ} 24' 01''$ N., Long. $110^{\circ} 30' 55''$ W., from Special Instructions of the Surveyor General and later verified.

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA

Chains	Telescope	Pos. sun	l.m.t. a.m.	Horizontal Angle	Vertical Angle
	Direct	+°	7h 01m 15s	258° 04' 30"	22° 35' 30"
	Reversed	⊕	7h 03m 30s	257° 48' 00"	22° 32' 30"
	Direct	⊕	7h 02m 00s	257° 36' 30"	22° 45' 30"
	Reversed	+°	7h 03m 00s	258° 18' 00"	22° 26' 30"

Bearing of reference mark is N. 87° 28' 55" E.

At the same Station I again observe the altitude of the sun for azimuth. The reading on the reference mark was set at 267° 29', and the sun was observed in all four quadrants of the field.

Telescope	Pos. sun	l.m.t. a.m.	Horizontal Angle	Vertical Angle
Direct	+°	7h 06m 30s	258° 43' 00"	23° 40' 30"
Reversed	⊕	7h 08m.55s	258° 27' 00"	23° 39' 30"
Direct	⊕	7h 07m 05s	258° 13' 00"	23° 47' 30"
Reversed	+°	7h 08m 15s	258° 55' 30"	23° 30' 00"

Bearing of reference mark is N. 87° 30' 31" E.

The two observations give a mean bearing of the reference mark of N. 87° 29' 43" E. I accept bearing of reference mark as N. 87° 30' E., and from the corresponding meridian all the courses of this survey were deflected by sustained angulation.

BOUNDARIES OF CLAIM.

July 12, 1919.

Beginning at Cor. No. 1,

Identical with Cor. H-2 of the list survey, which is a cobble rock 6 x 6 x 7 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor.

Deposit a sandstone 3 x 2 x 2 ins. marked with a + 24 ins. in the ground, over which set an iron post 36 ins.

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA

Chains

long, 2 ins. dia., with brass cap marked 1919 on South rim and 1 H E S. 549 in NW. quadrant; raise a mound of stone 3 ft. base, 2 ft. high, NW. of cor., whence:

A pine 36 ins. dia., brs. N. 23° 49' E.,
177 lks. dist.

A pine 30 ins. dia., brs. S. 87° 36' E.,
39 lks. dist.

Each blazed and scribed 1 H E S 549 + B T

The Cor. of Ts. 11 and 12 N., Rs. 17 and 18 E.,
brs. S. 88° 14' 56" E., 78.87 chs. dist. by

traverse which appears at the end of these

notes. The corner of Ts. 11 and 12 N.,

Rs. 17 and 18 E.; is a sandstone 8 x 4 x 9

ins. above ground, marked with 6 notches

on N., S., E. and W. edges, with a mound

of stone 3 ft. base, 2 ft. high; N. of the

corner, and witnessed as follows:

A yellow pine 12 ins. dia., brs. N. 32° 16' E.,

67 lks. dist., blazed and scribed

T 12 N R 18 E S 31 B T

A yellow pine 8 ins. dia., brs. S. 58° 30' E.,

28 lks. dist., blazed and scribed

T 11 N R 18 E S 6 B T

A yellow pine 8 ins. dia., brs. S. 86° W.,

37 lks. dist. blazed and scribed

T 11 N R 17 E S 1 B T

A yellow pine 22 ins. dia., brs. N. 50° W.,

84 lks. dist., blazed and scribed

T 12 N R 17 E S 36 B T

(Note: This corner was restored by Forest Service Surveyor R.P.A. Johnson, in connection with the survey of H.E.S. 452, on August 3, 1916.)

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA.

Chains

Cor. No. 4 of H.E.S. 452, a sandstone 16 x 8
x 10 ins. above ground, marked + on top and
4 H.E.S. 452 on SE. face, with mound of stone
SE., brs. S. 70° 51' W., 7.21 chs. dist. by
direct measurement.

Lat. 34° 23' 19" N., Long. 110° 30' 55" W., from
Special Instructions from the Surveyor General and
later verified.

Magnetic declination at 8 a.m. is 14° 30' E., Mean
Magnetic declination, 14° 25' E.

Thence S. 89° 51' W.

Over level bottom land, thru scattering pine.

4.91 Begin ascent of 30 ft., over grassy SE. slope.

7.47 Top of ascent; thence over level open land, thru juniper
oak and cedar.

33.55 To Cor. No. 2, which is also Cor. No. 2 of H.E.S. 548.
Identical with Cor. H-3 of List 3-4023, which is a
cobble rock 6 x 5 x 4 ins. above ground, marked and
witnessed as described by the Forest Service. I de-
stroy 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 36 ins.
long, 2 ins. dia., with brass cap marked 1919 on South
rim, and 2 H.E.S. 549 in NE. quadrant and 2 H.E.S. 548
in the NW. quadrant; raise mounds of stone 3 ft. base,
2 ft. high, NE. and NW. of cor., whence:

A juniper 7 ins. dia., brs. N. 87° 09' E.,
90 lks. dist.

A juniper 12 ins. dia., brs. S. 4° 01' W.,
77 lks. dist.

Each blazed and scribed 2 H.E.S. 549 - 2 H.E.S.
548 + B T.

July 12, 1919.

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA

Chains July 13, 1919.

Thence N. $12^{\circ} 05' E.$

Descend 10 ft. over grassy north slope, thru juniper and cedar.

4.41 Cor. wire fence; fence bears NW., S. $12^{\circ} 05' W.$ and N. $12^{\circ} 05' E.$ along line. Bottom of descent.

Thence across level bottom land, cultivated land on west.

41.86 Cor. wire fence; fence bears NW., S. $12^{\circ} 05' W.$, and N. $12^{\circ} 05' E.$ along line. Leave cultivated land on West.

54.23 To Cor. No. 3, which is also Cor. No. 1, H.E.S. 548.

Identical with Cor. H-4 of List 3-4023 and Cor. H-1 of List 3-3968, which is a cobble rock 10 x 7 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 5 x 4 x 2 ins. marked with a + 18 ins. in the ground, on solid rock, over which set an iron post 36 ins. long, 2 ins. dia., with brass cap marked 1919 on S. rim and 3 H E S 549 in the East half, and 1 H E S 548 in the SW. quadrant, surrounded by a mound of stone 2 ft. base, 18 ins. high, whence:

A cedar 12 ins. dia., brs. N. $7^{\circ} 47' E.$,
575 lks. dist.

A cedar 14 ins. dia., brs. N. $20^{\circ} 10' W.$,
422 lks. dist.

Each blazed and scribed 4 H E S 549 - 1 H E S 548 + B T

Thence N. $12^{\circ} 21' E.$

Ascend 5 ft. over grassy SE. slope; wire fence on line.

4.85 To Cor. No. 4.

Identical with Cor. H-5 of the list survey, which is a cobble rock 8 x 6 x 4 ins. above ground, marked and

HOMESTEAD ENTRY SURVEY NO. 549

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA

Chains witnessed as described by the Forest Service. I destroy all trace of this list cor.

Deposit a sandstone 4 x 3 x 3 ins. marked with a + 20 ins. in the ground, over which set a sandstone 30 x 16 x 10 ins. chiseled + for the point and 4 H E S 549 on SE. face; raise a mound of stone 3 ft. base, 2 ft. high, SE. of cor., whence:

A cedar 18 ins. dia., brs. N. 16° 12' W.,
98 lks. dist.

A cedar 20 ins. dia., brs. S. 73° 05' W.,
264 lks. dist.

Each blazed and scribed 5 H E S 549 + B T

Cor. wire fence bears S. 10° E., 4 lks. dist., from which fences bear S. 12° 21' W., and East.

Thence N. 89° 06' E.

Descend 12 ft. over open grassy east slope; wire fence 3 lks. South, and parallels line.

4.07 Wash, 8 lks. wide, banks 2 ft. high, (dry) course N. Bottom of descent. Ascend 20 ft. over grassy West slope. Wire fence, 6 lks. South and parallels line.

20.68 Drift fence brs. N. and S.

20.72 To Cor. No. 5.

Identical with Cor. H-1 of the list survey, which is a cobble rock 5 x 4 x 2 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor.

Deposit a sandstone 3 x 2 x 2 ins. marked with a + 18 ins. in the ground, over which set a sandstone 28 x 14 x 5 ins. chiseled + for the point and 5 H E S 549 on SW. face; raise a mound of stone 3 ft. base, 2 ft. high, SW. of cor., whence:

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA

Chains

A juniper 24 ins. dia., brs. S. 78° 58' E.,
904 lks. dist.

A juniper 14 ins. dia., brs. S. 14° 13' E.,
1127 lks. dist.

Each blazed and scribed 5 H E S 549 + B T
Cor. of fence brs. S. 43° 30' W., 32 lks.
dist. from which fences bear West and
South.

Thence S. 0° 26' E.

Over level land, thru juniper and cedar.

53.91 Begin descent of 25 ft., over rocky SE. slope.

55.98 Bottom of descent.

Thence over level grassy bottom land.

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

AREA

Total Area - - - - - 157.00 Acres.

IMPROVEMENTS

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

A frame barn 20 x 30 ft., the long sides ex-
tending N. and S., the NE. cor. of which
bears S. 18° 40' W., 10.20 chs. dist. from
Cor. No. 5.

Value - - - - - \$200.00

A frame house 15 x 15 ft., the long sides ex-
tending E. and W., the NE. cor. of which
brs. S. 14° 20' W., 11.19 chs. dist. from
Cor. No. 5.

Value - - - - - \$200.00

Chains

Approximately 2-1/2 miles of wire fencing,

Value - - - - - \$350.00

DESCRIPTION

The claim consists mainly of open level land lying on the East side of a wide shallow draw, which drains North.

The soil is a rich dark loam, generally free from rocks, about 3 ft. deep, with a red clay subsoil. Practically the whole of the claim is suitable for farming, of which approximately 25 acres were under cultivation at the time of survey. Dry farming methods are necessary to grow crops.

There is no water on the claim, and the prospects of developing water are very meager. Water for domestic use is hauled from Pierce Seep, which lies about 1-1/2 miles West.

There is no timber of commercial value on the tract. I saw no indications of mineral on the claim.

CONFLICTS AND ADJOINING CLAIMS

There are no conflicts. H.E.S. 548 adjoins on the West.

H.E.S. 452 lies to the South about 2 chs. dist.

Heber, Arizona, the nearest settlement and postoffice, lies about 6-1/2 miles distant in a Northwesterly direction.

Holbrook, Arizona, the nearest railroad point lies about 50 miles distant in a Northeasterly direction, and is reached by fair wagon road.

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA

Chains

TRAVERSES

Course	Dist.	N.	S.	E.	W.
S. 89° 51' W.	33.55		.09		33.55
N. 12° 05' E.	54.23	53.03		11.35	
N. 12° 21' E.	4.85	4.74		1.04	
N. 89° 06' E.	20.72	.33		20.72	
S. 0° 26' E.	57.99		57.99	.44	
	171.34	58.10	58.08	33.55	33.55
		58.08		33.55	
Error in Lat. and Dep.		.02		.00	

Closing Error, 1:8567

TIE FROM COR. NO. 1 TO COR. TS. 11 AND 12 N.,
RS. 17 AND 18 E.

N. 89° 55' E.	18.37	.03		18.37	
S. 89° 15' E.	32.42		.42	32.42	
S. 77° 09' E.	4.56		1.01	4.45	
S. 89° 57' E.	16.70		.01	16.70	
S. 78° 29' E.	7.11		1.42	6.97	
N. 11° 13' W.	.43	.42			.08
		.45	2.86	78.91	.08
			.45	.08	
			2.41	78.83	

Resultant Course, S. 88° 14' 56" E., 78.87 chs.

Survey completed July 13, 1919.

Frank D. York

Surveyor - Forest Service.

78.83 = 1.8966915
 2.41 = 0.3870170
 1.5146745 = 88° 14' 56"
 78.83 = 1.8966915
 9.9997972
 1.8968943 = 78.87 ✓

Chains

Direct Solar obsn. at Cor. No. 5, H.E.S. 549.
Lat. $34^{\circ} 24' 01''$ N., Long. $110^{\circ} 30' 55''$ W., from
Special Instructions from Surveyor General and later
verified. Elevation approximately 6500 ft.

Reading on Ref. mark set at $267^{\circ} 29'$.

Telescope	Pos.	l.m.t.	Horizontal	Vertical
	sun	a.m.	Angle	Angle
Direct	$+^{\circ}$	7h 01m 15s	$258^{\circ} 04' 30''$	$22^{\circ} 35' 30''$
Reversed	\pm	7h 03m 30s	$257^{\circ} 48' 00''$	$22^{\circ} 32' 30''$
Direct	\ominus	7h 02m 00s	$257^{\circ} 36' 30''$	$22^{\circ} 45' 30''$
Reversed	\oplus	7h 03m 00s	$258^{\circ} 18' 00''$	$22^{\circ} 26' 30''$
Means		7h 02m 26s	$257^{\circ} 56' 45''$	$22^{\circ} 35' 00''$

Cbrr. for refr. $\frac{1' 44''}{22^{\circ} 33' 16''}$

Decl. $22^{\circ} 04' 36''$ N.

$$\text{Cos. } Q. = \frac{\sin 22^{\circ} 04' 36''}{\cos 34^{\circ} 24' 01'' \times \cos 22^{\circ} 33' 16''} - \tan 34^{\circ} 24' 01''$$

$$\times \tan 22^{\circ} 33' 16''$$

$$\sin 22^{\circ} 04' 36'' = 9.5750109$$

$$\cos 34^{\circ} 24' 01'' = 9.9165123$$

$$\cos 22^{\circ} 33' 16'' = 9.9654442$$

$$9.6930544 = \log. .49324$$

$$\tan 34^{\circ} 24' 01'' = 9.8355139$$

$$\tan 22^{\circ} 33' 16'' = 9.6183904$$

$$9.4539043 = \log. .28438$$

$$\text{Cos. } Q. = .20886$$

$$Q. = 77^{\circ} 56' 40''$$

Azimuth of sun $77^{\circ} 56' 40''$

Angle sun to mark $9^{\circ} 32' 15''$

Bearing of Ref. mark N. $87^{\circ} 28' 55''$ E.

Chains

Direct Solar at Cor. No. 5, of H. E. S. 549

July 12, 1919.

Telescope Pos.	l.m.t.	Horizontal Angle	Vertical Angle
Direct	7h 06m 30s	258° 43' 00"	23° 40' 30"
Reversed	7h 08m 55s	258° 27' 00"	23° 39' 30"
Direct	7h 07m 05s	258° 13' 00"	23° 47' 30"
Reversed	7h 08m 15s	258° 55' 30"	23° 30' 00"
Means	7h 07m 41s	258° 34' 37"	23° 39' 22"

Corr. for Refr.

1' 38"
23° 37' 44"

Decl. 22° 04' 34" N.

$$\cos \theta = \sin 22^\circ 04' 34'' \times \cos 23^\circ 37' 44'' - \tan 34^\circ 24' 01'' \times \tan 23^\circ 37' 44''$$

$$\times \tan 23^\circ 37' 44''$$

$$\sin 22^\circ 04' 34'' = 9.5750006$$

$$\cos 34^\circ 24' 01'' = 9.9165123$$

$$\cos 23^\circ 37' 44'' = 9.9619717$$

$$9.6965166 = \log .49718$$

$$\tan 34^\circ 24' 01'' = 9.8355139$$

$$\tan 23^\circ 37' 44'' = 9.6409680$$

$$9.4764819 = \log .29956$$

$$\cos \theta = .19762$$

$$\theta = 78^\circ 36' 08''$$

Azimuth of sum,

$$78^\circ 36' 08''$$

Angle sum to mark,

$$8^\circ 54' 23''$$

Bearing of Ref. mark, N. 87° 30' 31" 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. 549, STATE OF ARIZONA

E-2349

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.		N. AREAS.		S. AREAS.		
			NORTH.	SOUTH.	EAST.	WEST.							
1 - 2	S. 89-51 W.	33.55		09		33 55	33 55				3 02		
2 - 3	N. 12-05 E.	54.23	53 03		11 35		11 35	601 78					
3 - 4	N. 12-21 E.	4.85	4 74		1 04		23 74	112 53					
4 - 5	N. 89-06 E.	20.72	33		20 72		45 50	15 02					
5 - 1	S. 0-26 E.	57.99		57 99	44		66 66				3866 28		
		171.34	58 10	58 08	33 55	33 55		729 33			3869 30		
			58 08	58 09	33 55	33 55					729 33		
	Error in Lat. and Dep.		02		00						20/3139 97		
	Closing Error, 1:8567										157 00	Acres.	

INSPECTION OF
HOMESTEAD ENTRY SURVEY NO. 549119
FEB. 23

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA

Chains

Survey by Frank D. Yost, Surveyor, Forest Service,
Inspection by N. F. Newman, Surveyor - Draftsman.

1. This inspection was begun September 25, 1919 and was completed September 26, 1919.
The tract is by metes and bounds and is situated in, what will probably be when surveyed, Secs. 35 and 36, T. 12 N., R. 17 E., Gila and Salt River Base and Meridian.
2. Inspection was executed with a Buff and Buff transit No. 10802 with Smith solar attachment. The solar attachment was not tested or used. I test the adjustments of the transit and make the necessary corrections. All measurements were made directly on the slope with a 500 link steel tape, and reduced to the horizontal. Slope angles were measured with a clinometer.
3. September 25, 1919.
At 7h 21.7m p.m., l.m.t., I set off the azimuth of Polaris $1^{\circ} 21' 30''$ to the east and observe same at Eastern Elongation at Cor. No. 3 of this claim. The meridian as thus determined was referred to a mark S. $48^{\circ} 40' W.$ about 30 chains distant.
All courses of this inspection were deflected from this meridian by angulation.
4. The original surveyor made no changes in the list survey. The included lands are properly listable, being for the most part arable lands of an open nature. There are no conflicts with adjoining claims.
5. The lines of the original survey are simple and no corners could be eliminated.

INSPECTION OF

HOMESTEAD ENTRY SURVEY NO. 549

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA

- ~~Chains~~
6. The corners were well set, with well built mounds and were properly witnessed.
 7. No changes were necessary on this survey, all courses and distances being well within limits.
 8. No recommendations for changes are made.
 9. A contrast sheet and inspection area sheet are attached.

CONTRAST SHEET

Corners	Bearing		Diff.	Distances		Diff.
	Yost	Newman		Yost	Newman	
1 - 2	S. 89° 51'W:	S. 89° 52'W:	+ 01'	33.55	33.54	- .01
2 - 3	N. 12° 05'E:	N. 12° 06'E:	+ 01'	54.23	54.22	- .01
3 - 4	N. 12° 21'E:	N. 12° 21'E:	00'	4.85	4.85	.00
4 - 5	N. 89° 06'E:	N. 89° 06'E:	00'	20.72	20.70	- .02
5 - 1	S. 0° 26'E:	S. 0° 23'E:	- 03'	57.99	58.00	+ .01
Yost's closing error,			1:8567			
Inspector's closing error,			1:5710			
The line, Cor. No. 1 to Cor. Rs. 17: and 18 E.,				Ts. 11 and 12 N.,		
	S. 88° 14'E:	S. 88° 09'E:	- 05'	78.88	78.84	- .04

(Sgd.) N. F. Newman,

Surveyor - Draftsman,

INSPECTION OF YOST'S SURVEY

- DIRECTIONS.—1. Carry out calculations to two decimals only.
 2. In balancing Latitudes and Departures do not obliterate or change the original figures.
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 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. 549, STATE OF ARIZONA

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.		S. AREAS.	
			NORTH.	SOUTH.	EAST.	WEST.					
1 - 2	S. 89-52 W.	33.54		08		33 54 ³	33 53				2 68
2 - 3	N. 12-06 E.	54.22	53 02		11 37		11 38	603 37			
3 - 4	N. 12-21 E.	4.85	4 73		1 04		23 80	112 57			
4 - 5	N. 89-06 E.	20.70	33		20 70		45 54	15 03			
5 - 1	S. 0-23 E.	58.00		58 00		40	66 65				3867 70
		171.31	58.08	58 08	33 51	33 54		730 97			3870 38
					33 53	33 53					730 97
											20/3139 41
											156.970 Acres.
								Yost's area,			157.00 Acres.
								Difference,			.03 Acres.

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APPROVAL

Office of the United States Surveyor General,

Phoenix, Arizona, April 26, 1920

The foregoing field notes of Homestead Entry Survey No.

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executed by *Frank D. Gost, 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.

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.