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

U. S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE

JAN 10 1920

MAY - 7. 1920

FIELD NOTES

CF

HOMESTEAD ENTRY SURVEY NO. 583

SITUATED IN THE TONTO NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

In Section 25 , unsurveyed, Township 10 N., Range 13 E.
In Section 26 , unsurveyed, Township 10 N., Range 13 E.

of the

GILA AND SALT RIVER BASE & Meridian.

State of

ARIZONA

Applicant for listing C. G. Clark,
Residence Young, Arizona.
Application No. 475 , dated May 11 , 19 14
List No. 3-3617 , dated July 1 , 19 15

Applicant for survey Chas. G. Clark,
Residence Young, Arizona.
H. E. No. 028420 , dated October 30 , 19 15
Land Office Phoenix, Arizona.

Survey executed by Frank D. Yost, Surveyor - Forest Service,
Under special instructions dated March 12 , 19 19
Survey commenced June 9 , 19 19
Survey completed June 10 , 19 19
Under Acts of June 11, 1906, and October 1, 1918.

OATH OF ASSISTANTS

We hereby certify that we assisted **Frank D. Yost,** in surveying all those
Surveyor - Forest Service, in surveying all those
[Forest Service Title.]

parts or portions of Homestead Entry Survey No. **583**, 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. Brandenburg
Chainman.
H. H. Sayfellow
Chainman.

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 instruc-
tions of the United States Surveyor General for **ARIZONA**, dated
March 12, 19 19, 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

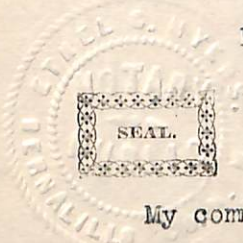
List No. **3-3617**, dated **July 1, 19 15**, for
Patent, under the Act of **June 11, 1906**,
the same to be known as Homestead Entry Survey No. **583**,
situated within the **TONTO** National Forest, in
unsurveyed Section **25**, Township **10 N.**, Range **13 E.**, and
un surveyed Section **26**, Township **10 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**.

Ethel G. Myers
Notary Public,



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

HOMESTEAD ENTRY SURVEY NO. 583

Tonto NATIONAL FOREST
STATE OF ARIZONA.

Chains Applicant for listing, C. G. Clark; Application No. 475, dated May 11, 1914; List No. 3-3617, dated July 1, 1915; H.E. 028420 made in the Phoenix Land Office on October 30, 1915 by Chas. G. Clark.

Surveyed under special instructions from the Surveyor General for Arizona dated March 12, 1919 and designated as Homestead Entry Survey No. 583.

Situated in what will probably be when surveyed Secs. 25 and 26, T. 10 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 9, 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.

June 9, 1919.

At Cor. No. 4 H. E. S. 583, hereinafter described, I observe the altitude of the sun for azimuth. The reading on the reference mark was set at zero, and the sun was observed in all four quadrants of the field. My watch is set for local mean time.

Lat. 34° 10' 49" N., Long. 110° 57' 56" W. from special instructions from the Surveyor General and later veri-

	Pos.	l.m.t. a.m.	Horizontal Angle	Vertical Angle
Telescope	Sun			
Direct	+	6h.26m.00s.	86°31'30"	19°21'30"
Reversed	o+	6h.28m.00s.	86 47 00	19 08 30
Direct	o+	6h.26m.40s.	87 00 30	19 20 00
Reversed	+o	6h.27m.30s.	86 20 30	18 58 30

Means 6h.27m.02s. 86°39'52" 19°09'52"

Bearing of reference mark is S.18°30'54" E.

HOMESTEAD ENTRY SURVEY NO. 583

TONTO 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 zero, and the sun was observed in all four quadrants of the field.

Telescope	Pos.	l.m.t.	Horizontal	Vertical
	Sun	A.M.	Angle	Angle
Direct	+°	6h.32m.10s.	85°46'30"	20°26'00"
Reversed	o+	6h.34m.25s.	86 03 30	20 21 30
Direct	o+	6h.33m.15s.	86 15 00	20 34 00
Reversed	+o	6h.33m.50s.	85 33 30	20 14 00

The bearing of reference mark is S. 18° 31' 04" E.
 The two observations give a mean bearing of the reference mark of S. 18° 30' 59" E. I accept bearing of reference mark as S. 18° 31' E., and from the corresponding meridian all the courses of this survey were deflected by sustained angulation.

BOUNDARIES OF CLAIM

June 9, 1919.

Beginning at Cor. No. 1,

Identical with Cor. H/1 of the list survey, which is a granite boulder 10 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 granite stone 3 x 2 x 2 ins. marked with a + 26 ins. in the ground, over which set an iron post 36 ins. long, 2 in. dia. with brass cap marked 1919 on south rim and 1 HES 583 in NW. quadrant; raise a mound of stone 3 ft. base, 2 ft. high NW. of cor., whence:

A pine 16 ins. dia. bears N. 3° 40' W.

540 lks, dist.

An oak 6 ins. dia. bears N. 52° 56' W.

874 lks. dist., each blazed and

Scribed 1 H E S 583 + B T.

Cor. wire fence bears N. 51° W. 5 lks. dist.

Fences bear NNE and S. 89° 04' W. along claim line.

TONTO NATIONAL FOREST

STATE OF ARIZONA.

Chains

The cor. of Ts. 9 and 10 N., Rs. 13 and 14 E.,
a sandstone 10 x 8 x 8 ins. above ground,
marked and witnessed as described by the
Surveyor General bears S. 21° 31' 56" E.,
87.32 chs. dist. by traverse which appears
at the end of these notes.

Diligent search was made to find the 1/4 sec. cor. on the
south bdy. of Sec. 35, T. 10 N., R. 13 E., the cor. of
Secs. 35, 36, 2 and 1, T. 9 and 10 N., R. 13 E., and
the 1/4 cor. on the S. boundary of Sec. 36, T. 10 N.,
R. 13 E., but no trace of any of the above corners was
found. This survey is therefore tied to the cor. of
Ts. 9 and 10 N., Rs. 13 and 14 E.

Lat. 34° 10' 28" N., Long. 110° 57' 56" W. from instruc-
tions from the Surveyor General and later verified.

Mag. decl. at 8 a.m. 14° 40' E. Mean mag. decl. 14° 36' E.

Thence S. 89° 04' W.

Descend 20 ft. over grassy SW. slope. Wire fence 2 lks.
to right and parallels line.

6.92 Cor. of fence bears N. 2 lks. Fences bear N. 89° 04' E.,
NE, and S. 89° 04' W. along line.

30.07 Creek 75 lks. wide, banks 3 ft. high, running water 15 lks.
wide, 9 ins. deep, course SW.

Bottom of desc. Ascend 30 ft. over open SE. slope.

34.91 Top of ascent on point of ridge, bears S. Descend 30 ft.
over open west slope.

41.19 Wash 50 lks. wide, banks 3 ft. high (dry), course S.
Bottom of Desc. Asc. 35 ft. over open East slope.

43.21 Top of ascent on edge of mesa.
Thence across level grassy mesa.

47.64 To Cor. No. 2.

Identical with cor. H/6 of the list survey, which is a
granite boulder 12 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 granite

47

TONTO NATIONAL FOREST
STATE OF ARIZONA.

Chains stone 2 x 2 x 1 ins. marked with a + 26 ins. in the ground, over which set an iron post 36 ins. long, 2 ins. dia. with brass cap mkd 1919 on S. rim and 2 H E S 585 in the NE quadrant; dig pits 24 x 18 x 12 ins. cross-wise on claim lines, and raise a mound of earth 3 ft. base 2 ft. high NE of cor. whence:

A pine 16 ins. dia. bears S. 14° 30' E .
586 lks. dist.

A pine 30 ins. dia. bears S. 50° 02' E.
674 lks. dist.

Each blazed and scribed 2 H E S 585 + B T.

June 9, 1919.

June 10, 1919.

Thence N. 0° 54' W.
Over level grassy mesa.

.07 Cor. wire fence. Fences bear East and NNW.

21.01 Begin ascent of 50 ft. over steep rocky south slope thru scrub oak.

25.57 Top of ascent. Descend 10 ft. over rocky west slope thru heavy scrub oak.

30.02 To cor. No. 3.

Identical with cor. H/5 of the list survey, which is a sandstone 6 x 6 x 8 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 3 x 2 ins. marked with a + 24 ins. in the ground, over which set a sandstone 34 x 14 x 8 ins. chiseled + for the point and 3 H E S 585 on SW. face; raise a mound of stone 3 ft. base, 2 ft. high SW. of cor., whence:

An oak 12 ins. dia. bears N. 70° 10' W.
45 lks. dist.

A pine 4 ins. dia. bears S. 11° 57' W.
170 lks. dist.

Each blazed and scribed 3 H E S 585 + B T.

TONTO NATIONAL FOREST

STATE OF ARIZONA.

Chains Thence N. 83° 18' E.
 Over steep rocky west slope. Ascend 30 ft.
 2.01 Top of ridge, bears NNE and SSW. Desc. 40 ft. over
 open East slope.
 16.47 Wash 50 lks. wide, banks 2 ft. high (dry) course S.
 Bottom of desc. Asc. 25 ft. over open West slope.
 28.21 Top of low flat ridge bears NE. and SW., thence over
 level land thru scattering juniper and cedar.
 31.07 Wire fence, bears S. 80° E. and N. 80° W.
 32.14 Begin desc. of 20 ft. over gradual E. slope thru juniper,
 cedar and oak.
 44.21 Road bears N. and S.
 45.12 Wash 50 lks. wide, banks 3 ft. high (dry) course S.
 Bottom of desc. Asc. 10 ft. over rocky West slope
 thru heavy oak brush.
 48.36 To cor. No. 4,
 Identical with cor. H/2 of the list survey, which is
 a granite boulder 14 x 10 x 8 ins. above ground, mkd.
 and witnessed as described by the Forest Service. I
 destroy all trace of this list cor. Deposit a granite
 stone 2 x 2 x 1 ins. marked with a + 18 ins. in the
 ground, over which set a granite stone 26 x 12 x 10 ins.
 chiseled + for the point and 4 H E S 583 on SW. face;
 raise a mound of stone 3 ft. base, 2 ft. high SW. of
 cor., whence:
 A juniper 24 ins. dia. bears N. 53° 01' W.
 80 lks. dist.
 A juniper 24 ins. dia. bears N. 4° 24' E.
 24 lks. dist.
 Each blazed and scribed 4 H E S 583 + B T.
 After careful search no evidence of cors. H/3
 and H/4 of the list survey could be found.
 The change as made along the north boundary of this sur-
 vey is in accordance with the desires of the entryman
 and meets with the approval of the Forest Service and

Chains was made in order to eliminate unnecessary corners and to simplify the claim boundaries.

Copy of a signed statement from the claimant agreeing to the changes made and also agreeing to amend his entry to conform to this survey is attached at the end of these notes.

- Thence S. 0° 06' E.
- Over rocky bottom land thru heavy oak and juniper.
- 3.97 Wash 25 lks. wide, banks 4 ft. high (dry), course S. 75° W., thence over level grassy flat.
- 8.41 Road bears N. 80° W. and S. 80° E.
- 9.02 Wire fence, bears N. 80° W. and S. 80° E. Enter cultivated land.
- 12.21 Wash 25 lks. wide, banks 3 ft. high (dry), course S. 75° W.
- 16.27 Wash 25 lks. wide, banks 5 ft. high (dry), course N. 85° W.
- 22.81 Wire fence bears E. and W. Leave cultivated land. Ascend 25 ft. over rocky N. slope thru heavy oak brush.
- 30.71 Top of ascent on small spur, bears West. Desc. 15 ft. over rocky S. slope thru heavy brush.
- 34.87 Wire fence bears N. 7° E. and S. 7° W.
- 34.91 To cor. No. 1, the place of beginning.

June 10, 1919.

AREA

Area----- 155.36 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 20 x 22 ft. the long sides extending N. 80° W. and S. 80° E., the NE. cor. of which bears S. 30° W. 9.55 chs. dist. from cor. No. 4.

Value----- \$350.00

A log barn 30 x 40 ft. the long sides extending N. 10° W. and S. 10° E., the NE. cor. of which bears S. 55° 10' W.

TONTO NATIONAL FOREST

STATE OF ARIZONA.

Chains 7.41 chs. dist. from Cor. No. 4.
 . Value-----\$200.00.
 A well 5 ft. dia. 25 ft. deep, the center of which bears
 S. 28° W., 9.50 chs. dist. from cor. No. 4.
 Value-----\$100.00
 A well 8 ft. dia. 10 ft. deep, the center of which bears
 S. 1° 01' W., 2.91 chs. dist. from cor. No. 4.
 Value-----\$ 50.00
 Approximately 2-3/4 miles of fencing.
 Value-----\$450.00

DESCRIPTION

The claim consists mainly of bottom lands, along two small draws which drain into Pine Creek. The soil in the bottom lands is a rich sandy loam, of good depth and very fertile. Approximately 70% of the area is suitable for agricultural purposes, of which about 30 acres were under cultivation at the time of survey. The rainfall is depended upon to raise crops. Water for domestic use is obtained from the wells. There is no timber of commercial value on the claim. No indications of mineral were observed on the claim.

CONFLICTS AND ADJOINING CLAIMS

There are no conflicts or adjoining claims. HES 591 lies about 1 mile dist. in a northeasterly direction. HES 586, 585 and 584 lie about 1-1/2 miles dist. in a westerly direction. Young, Arizona, the nearest settlement and postoffice is about 8 miles dist. in a southerly direction.

Course	Dist.	TRAVERSE			
		N.	S.	E.	W.
S. 89° 04' W.	47.64		.78		47.63
N. 0° 54' W.	30.02	30.02			.47
N. 83° 18' E.	48.36	5.64		48.03	
S. 0° 06' E.	34.91		34.91	.06	
	160.93	35.66	35.69	48.09	48.10
			<u>35.66</u>		<u>48.09</u>
Error in Lat. and Dep.			.03		.01
Closing error 1:5092					

HOMESTEAD ENTRY SURVEY NO. 583

TONTO NATIONAL FOREST

STATE OF ARIZONA.

Chains

TIE FROM COR. NO. 1 HES 583 to COR.Ts. 9 and 10 N.,
Rs. 13 and 14 E.

Course	Dist.	N.	S.	E.	W.
S. 30° 26' E.	85.87		74.04	43.49	
S. 57° 51' W.	13.51		7.19		11.44

81.23	43.49	11.44
	11.44	
	32.05	

Resultant course S. 21° 31' 56" E.
87.32 chs.

Survey completed June 10, 1919.

[Handwritten Signature]
Surveyor, Forest Service

TONTO NATIONAL FOREST
STATE OF ARIZONA.

Chains Direct solar at Cor. No. 4 H. E. S. 583. June 9, 1919.
Lat. 34° 10' 49". Long. 110° 57' 56" W. from special instructions from the Surveyor General and later verified.

Approximate elevation 5400 ft.

Telescope	Pos. Sun	l.m.t. a.m.	Horizontal Angle	Vertical Angle
Direct	+°	6h.32m.10s.	85°46'30"	20°26'00"
Reversed	o+	6h.34m.25s.	86 03 30	20 21 30
Direct	o+	6h.33m.15s.	86 15 00	20 34 00
Reversed	+o	6h.33m.50s.	85 33 30	20 14 00

Means 6h.33m.25s. 85°54'38" 20°23'52"

Corr. for Refr. $\frac{2'01''}{20°21'51''}$

Decl. 22° 52' 35" N.

$$\text{Cos. } Q = \frac{\text{Sin. } 22°52'35''}{\text{Cos. } 34°10'49'' \times \tan. 20°21'51''} - \tan. 34°10'49'' \times \tan. 20°21'51''$$

$\text{sin } 22° 52' 35'' = 9.5896640$
 $\text{cos } 34° 10' 49'' = 9.9176493$
 $\text{cos } 20° 21' 51'' = 9.9719712$
 $\frac{9.9719712}{9.7000435} = \text{log. } .50124$

$\text{tan } 34° 10' 49'' = 9.8319313$
 $\text{tan } 20° 21' 51'' = 9.5695904$
 $\frac{9.5695904}{9.4015217} = \text{log. } .25207$
 $\text{Cos. } Q = .24917$

Q=75° 34' 18"

Azimuth of sun 75° 34' 18"

Angle sun to mark $\frac{85°54'38''}{161°28'56''}$

Bearing of Ref. Mark S. 18° 31' 04" E.

Direct solar at Cor. No. 4 H E S 583. June 9, 1919.

Telescope	Pos. Sun	(2) l.m.t. a.m.	Horizontal Angle	Vertical Angle
Direct	+°	6h.26m.00s.	86°31'30"	19°12'30"
Reversed	o+	6h.28m.00s.	86 47 00	19 08 30
Direct	o+	6h.26m.40s.	87 00 30	19 20 00
Reversed	+o	6h.27m.30s.	86 20 30	18 58 30

Means 6h.27m.02s. 86°39'52" 19°09'52"

Corr. for Refr. $\frac{2'10''}{19°07'42''}$

Decl. 22° 52' 34".

$$\text{Cos. } Q = \frac{\text{sin } 22° 52' 34''}{\text{cos } 34°10'49'' \times \text{cos } 19°07'42''} - \tan 34°10'49'' \times \tan 19° 07' 42''$$

HOMESTEAD ENTRY SURVEY NO. 583

TONTO NATIONAL FOREST

STATE OF ARIZONA.

Chains

$\sin 22^\circ 52' 34'' = 9.5896591$

$\cos 34^\circ 10' 49'' = 9.9176493$

$\cos 19^\circ 07' 42'' = 9.9753339$

$\frac{9.6966759}{9.9753339} = \log.49737$

$\tan 34^\circ 10' 49'' = 9.8319313$

$\tan 19^\circ 07' 42'' = 9.5401229$

$\frac{9.3720542}{9.5401229} = \log.23553$

$\cos. Q = .26184$

$Q = 74^\circ 49' 14''$

Azimuth of sun $74^\circ 49' 14''$

Angle sun to mark $86^\circ 39' 52''$

$\frac{161^\circ 29' 06''}{86^\circ 39' 52''}$

Bearing of Reference Mark S. $18^\circ 30' 54''$ 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 figures 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. 583, STATE OF ARIZONA.

8-2349

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.	S. AREAS.
			NORTH.	SOUTH.	EAST.	WEST.			
1-2	S. 89° 04' W.	47.64		77 78		47 63	48 57		37 40
2-3	N. 0 54 W.	30.02	30 02			47	47	14 11	
3-4	N. 83 18 E.	48.36	5 64		48 03		48 04	271 43	
4-1	S. 0 06 E.	34.91		34 91		06	96 14		3355 29
		160.93	35 66	35 69	48 09	48 10		285 54	3392 69
			35 66	35 66	48 10	48 09			285 54
		Error in Lat. and Dep.		03		01			20/3107 15
	Closing error 1/5092								155 36 Acres
	5092								

1/67

(Copy)

June 10 , 1919.

I, Chas. G. Clark, hereby agree to the survey of my homestead, Number 585 as made on 10th 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, eliminating two corners on the North boundary of my homestead, to simplify the lines.

The land included and excluded is all of the same type of agricultural land.

(Sgd.) Oscar Knudson,
(Sgd.) F.M. Bragg,

Witnesses

(Sgd.) Chas. G. Clark,

Claimant

APPROVAL

Office of the United States Surveyor General,

Phoenix, Arizona, May 10, 1920

The foregoing field notes of Homestead Entry Survey No.

583

executed by *Frank D. Gost* [Forest Service Title.]
under his special instructions, dated *March 12*, 1919, 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.