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U. S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE

MAY - 7 1920

FIELD NOTES

OF

HOMESTEAD ENTRY SURVEY NO. 582

SITUATED IN THE TONTO NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO.

In Section 4 , un surveyed, Township 8 N. , Range 13 E.

of the

GILA AND SALT RIVER BASE & Meridian.

State of

ARIZONA

Applicant for listing **Jacob C. Kline,** ✓
 Residence **Young, Arizona.**
 Application No. **589** , dated **August 30** , 19 **15** ✓
 List No. **3-3718** , dated **December 2** , 19 **15** ✓

Applicant for survey **Jacob C. Kline,** ✓
 Residence **Young, Arizona.**
 H. E. No. **035282** , dated **June 30** , 19 **17** ✓
 Land Office **Phoenix, Arizona.** ✓

Survey executed by **Frank D. Yost,** Surveyor - Forest Service,
[Forest Service Title.]
 Under special instructions dated ✓ **March 12** , 19 **19**
 Survey commenced **June 19** , 19 **19**
 Survey completed ✓ **June 20** , 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. **582**, 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. C. Brandenburg
Chainman

H. H. Longfellow
Chainman

Subscribed and sworn to before me this **6th** day of

August

1919.

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, 1919, 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. **3-3718**, dated **Dec. 2**, 1915, for
the same to be known as Homestead Entry Survey No. **582**,
situated within the **TONTO** National Forest, in
un surveyed Section 4, Township **8 N.**, Range **13 E.**, and
-- surveyed Section ---, Township **----**, Range **---**,

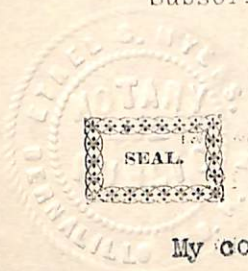
of the **GILA AND SALT RIVER BASE &** meridian, **ARIZONA**, and the
related retracements and resurveys and section subdivisions, which are
represented in the following field notes as having been surveyed by me;
and I further solemnly swear that all the corners of said survey have
been established and 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, 1919.

Echel S. Myers
Notary Public,



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

HOMESTEAD ENTRY SURVEY NO. 582

TONTO NATIONAL FOREST

STATE OF ARIZONA

Chains

Applicant for listing, Jacob C. Kline; Application No. 589, dated August 30, 1915; List No. 3-3718, dated Dec. 2, 1915; H. E. 035282 made in the Phoenix Land Office on June 30, 1917, by Jacob C. Kline.

Surveyed under special instructions from the Surveyor General for Arizona, dated March 12, 1919, and designated as Homestead Entry Survey No. 582.

Situated in what will probably be when surveyed Sec. 4, 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 19, 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 19, 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 all four quadrants of the field. My watch is set for local mean time.

Lat. 34° 04' 21" N., Long. 111° 01' 35" W., from special instructions from the Surveyor General and later verified.

Chains

Telescope	Pos. sun	l.m.t. p.m.	Horizontal Angle	Vertical Angle
Direct	+°	4h 54m 25s	167° 37' 30"	25° 49' 30"
Reversed	∫	4h 56m 45s	167° 56' 00"	24° 50' 30"
Direct	∫	4h 55m 10s	168° 07' 30"	25° 41' 30"
Reversed	+°	4h 56m 05s	167° 26' 00"	24° 58' 30"

Bearing of reference mark is N. 89° 58' 08" 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 all four quadrants of the field.

Telescope	Pos. sun	l.m.t. p.m.	Horizontal Angle	Vertical Angle
Direct	+°	4h 59m 45s	166° 59' 30"	24° 45' 00"
Reversed	∫	5h 02m 00s	167° 18' 00"	23° 46' 30"
Direct	∫	5h 00m 25s	167° 30' 00"	24° 36' 30"
Reversed	+°	5h 01m 20s	166° 48' 00"	23° 54' 30"

Bearing of reference mark is N. 89° 58' 19" E.

The two obsns. give a mean bearing of reference mark as N. 89° 58' 14" E. I accept bearing of reference mark as N. 89° 58' E., and to the corresponding meridian all the courses of this survey are referred by sustained angulation.

RETRACEMENT

From the std. cor. of Secs. 32 and 33, T. 9 N., R. 13 E., (accepted) a granite porphyry stone 7 x 6 x 6 ins. above ground, firmly set, marked and witnessed as described by the Surveyor General.

Thence East,

Retracing S. bdy. Sec. 33, W/2.

40.07 Fall 2 lks. S. of Std. 1/4 cor. on S. bdy. of Sec. 33,

TONTON NATIONAL FOREST

STATE OF ARIZONA

Chains

a granite porphyry stone 8 x 8 x 5 ins. above ground, firmly set, marked and witnessed as described by the Surveyor General.

True line is N. 89° 58' E., 40.07 chs.

June 19, 1919.

BOUNDARIES OF CLAIM

June 20, 1919.

Beginning at Cor. No. 1, and closing cor. on S. bdy. of Sec. 33, T. 9 N., R. 13 E.

Deposit a sandstone 6 x 4 x 3 ins. marked with a + 18 ins. in the ground on solid rock over which set an iron post 2 ins. dia., 36 ins. long, with brass cap marked 1919 on S. rim, 1 H E S 582 in SE. quadrant, and C C in S. half, surrounded by a mound of stone 3 ft. base, 1 ft. high; raise a mound of stone 3 ft. base, 2 ft. high on claim line S. of cor., whence:

A juniper 30 ins. dia., brs. S. 9° 48' E., 9.00 chs.

dist., blazed and scribed C C 1 H E S 582 + B T

No other witnesses available. Pits impracticable.

The Std. Cor. of Secs. 32 and 33, T. 9 N., R. 13 E., heretofore described, brs. S. 89° 58' W., 9.52 chs. dist.

The Std. 1/4 cor. on S. bdy. Sec. 33, heretofore described, brs. N. 89° 58' E., 30.55 chs. dist.

Cor. H-1 of the list survey, which is a sandstone 16

x 8 x 5 ins. above ground, marked and witnessed

as described by the Forest Service, brs. N. 12° 01' W.,

9 lks. dist. I destroy all trace of this list cor.

Lat. 34° 04' 21" N., Long. 111° 01' 35" W., from

special instructions from the Surveyor General and later verified.

Mag. decl. at 8 a.m. is 14° 30' E., Mean Magnetic

decl. is 14° 26' E.

Thence N. 89° 58' E.

Along S. bdy. of Sec. 33, T. 9 N., R. 13 E.

Chains

3.91 Wash, 60 lks. wide, 5 ft. deep, (dry), course N.

Bottom of desc.; Ascend gradual W. slope 30 ft. over open grassland.

15.02 To Cor. No. 2, and Closing Cor. on S. bdy. of Sec. 33, T. 9 N., R. 13 E.

Deposit a granite stone 3 x 2 x 2 ins. marked with a + 20 ins. in the ground on solid rock, over which set an iron post 2 ins. dia., 36 ins. long with brass cap mkd. 1919 on S. rim and 2 H E S 582 in SW. quadrant and C C in S. half, surrounded by a mound of stone 3 ft. base, 1 ft. high; raise a mound of stone 3 ft. base, 2 ft. high, S. of cor., whence:

A juniper 20 ins. dia., brs. N. 84° 32' E., 10.16 chs.

dist. blazed and scribed C C 2 H E S 582 + B T

No other witnesses available. Pits impracticable.

Std. 1/4 cor. on S. bdy. Sec. 33, heretofore described, brs. N. 89° 58' E., 15.53 chs. dist.

Std. cor. of Secs. 32 and 33, T. 9 N., R. 13 E., heretofore described, brs. S. 89° 58' W., 24.54 chs. dist.

Cor. H-6 of the list survey, which is a sandstone

6 x 5 x 4 ins. above ground, marked and witnessed as described by the Forest Service; bears N. 10° 02' W. 21 lks. dist. I destroy all trace of this list cor.

Cor. H-7 of the list survey, which is a sandstone

8 x 8 x 3 ins. above ground, marked and witnessed as described by the Forest Service, bears

N. 88° 01' W., 4.60 chs. dist. I destroy all trace of this list cor.

Note: It was not observed until after this survey had been completed that the special instructions required the N. bdy. of the claim be made proportional in length to the W/2 of Sec. 33 T. 9 N., R. 13 E., as retraced. Inasmuch as the survey covers the area intended to be embraced in the original listing, the additional work and expense incident to making the changes in order to comply with the above requirement, do not appear to be warranted.

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Chains ✓ Thence South,

Descend 20 ft. over open W. slope.

5.00 ✓ To Cor. No. 3,

Deposit a granite stone 4 x 3 x 2 ins. marked with a +
16 ins. in the ground, over which set a granite stone
24 x 8 x 6 ins. chiseled + for the point and 3 H E S
582 on SW. face; raise a mound of stone 3 ft. base,
2 ft. high, SW. of cor., whence:

No witnesses available. Pits impracticable.

Cor. H-5 of the list survey, which is a sand-
stone 6 x 6 x 4 ins. above ground; marked
and witnessed as described by the Forest
Service, bears N. 19° 42' E., 77 lks. dist.;

✓ I destroy all trace of this list cor.

Thence East,

Over open grassland;

5.00 ✓ To Cor. No. 4,

Deposit a granite stone 5 x 3 x 2 ins. marked with a +
18 ins. in the ground, over which set a sandstone 24 x
10 x 4 ins. chiseled + for the point and 4 H E S 582
on SW. face; raise a mound of stone 3 ft. base, 2 ft.
high SW. of cor., whence:

A juniper 24 ins. dia., brs. N. 41° 18' E.,
529 lks. dist.

A juniper 24 ins. dia., brs. S. 75° 32' E.,
688 lks. dist.

Each blazed and scribed 4 H E S 582 + B T

No other witnesses available.

Cor. H-4 of the list survey, which is a sandstone
9 x 6 x 6 ins. above ground, marked and witness-
ed as described by the Forest Service, bears
N. 2° 21' W., 27 lks. dist. I destroy all

Chains	<p>✓ trace of this list cor.</p> <hr/> <p>✓ Thence South,</p> <p>Over level open grassland,</p> <p>1.37 Wash, 40 lks. wide, banks 3 ft. high, (dry) course West.</p> <p>7.21 Wash, 45 lks. wide, banks 3 ft. high, (dry) course N. 60° W., Ascend 12 ft. over rocky N. slope, thru oak brush.</p> <p>10.00 To Cor. No. 5,</p> <p>Deposit a sandstone 4 x 3 x 3 ins. marked with a + 14 ins. in the ground, over which set a granite stone 24 x 8 x 6 ins. chiseled + for the point and 5 H E S 582 on NW. face; raise a mound of stone 3 ft. base, 2 ft. high NW. of cor., whence:</p> <p style="padding-left: 40px;">A juniper 30 ins. dia., brs. S. 18° 36' E., 647 lks. dist.</p> <p style="padding-left: 40px;">A juniper 30 ins. dia., brs. S. 29° 35' W., 592 lks. dist.</p> <p>Each blazed and scribed 5 H E S 582 + B.T</p> <p>Cor. H-3 of the list survey, which is a sand- stone 6 x 10 x 4 ins. above ground, marked and witnessed as described by the Forest Service, bears N. 23° 56' E., 79 lks. dist.</p> <p>✓ I destroy all trace of this list cor.</p> <hr/> <p>✓ Thence West,</p> <p>Ascend 40 ft. over rocky NE. slope, thru heavy oak brush.</p> <p>9.67 Top of ascent on small spur, bears NW. Descend 30 ft. over rocky W. slope, thru heavy oak brush.</p> <p>17.48 Wash, 45 lks. wide, 3 ft. deep (dry), course N. 30° E. Bottom of descent. Ascend E. slope, 20 ft., over open grassland.</p> <p>20.02 To Cor. No. 6,</p>
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STATE OF ARIZONA

Chains Deposit a sandstone 5 x 4 x 3 ins. marked with a + 18 ins. in the ground, over which set a sandstone 24 x 12 x 10 ins. chiseled + for the point and 6 H E S 582 on NE. face; raise a mound of stone 3 ft. base, 2 ft. high, NE. of cor., whence:

A + on an embedded granite boulder showing 36 x 24 x 2 ins. above ground, chiseled 6 H E S 582

+ B R, brs. S. 22° 08' W., 75 lks. dist.

A + on an embedded granite boulder showing 36 x 30 x 12 ins. above ground, chiseled

6 H E S 582 + B R, brs. N. 78° 40' E.,

92 lks. dist.

No other witnesses available.

Cor. H-2 of the list survey, which is a sand-

stone 6 x 8 x 2 ins. above ground, marked

and witnessed as described by the Forest

Service, brs. N. 20° 45' E., 41 lks. dist.,

I destroy all trace of this list cor.

Thence N. 0° 05' E.

Along E. slope, over open grass land.

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

AREA

Total area, - - - - - 27.49 Acres,

IMPROVEMENTS

The improvements belonging to the claimant are located upon his entry 025327, which adjoins this survey on the North.

DESCRIPTION

The area covered by this survey lies in a shallow draw.

TONTON NATIONAL FOREST

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Chains The general drainage is to the north. The soil is a sandy loam about 3 ft. deep, and somewhat rocky. The area is mainly suitable for pasture land. There is no water on the area. There is no commercial timber on the claim.

No indications of mineral were observed on the claim.

CONFLICTS AND ADJOINING CLAIMS

There are no conflicts. The survey is adjoined on the North by claimant's H. E. 025327 embracing W/2 SW/4, N/2 NW/4 NE/4 SW/4; SW/4 SE/4 NW/4; and SE/4 SW/4 NW/4, Sec. 33, T. 9 N., R. 13 E.

Little Walnut Administrative Site lies about 1/2 mile in a northeasterly direction.

Young, Arizona, the nearest settlement and postoffice is about four miles in a northeasterly direction.

TRAVERSE

Course	Dist.	N.	S.	E.	W.
N. 89° 58' E.	15.02	..01'		15.02	
South	5.00		5.00		
East	5.00			5.00	
South	10.00		10.00		
West	20.02				20.02
N. 0° 05' E.	14.96	14.96		.02	
	70.00	14.97	15.00	20.04	20.02

Error in Lat. and Dep. .03 .02

Closing Error, 1:1944

Survey completed June 20, 1919,

[Signature]
Surveyor - Forest Service,

TONTON NATIONAL FOREST

STATE OF ARIZONA

Chains

June 19, 1919.

Direct Solar obsn. at Cor. No. 1 of H. E. S. 582

Lat. $34^{\circ} 04' 21''$ N., Long. $111^{\circ} 01' 35''$ W., from

Special Instructions from the Surveyor General and

later verified.

Elevation approximately 5200 ft.

Telescope	Pos.	l.m.t.	Horizontal Angle	Vertical Angle
Direct	sun	p.m.		
Direct	$+$	4h 59m 45s	$166^{\circ} 59' 30''$	$24^{\circ} 45' 00''$
Reversed	$+$	5h 02m 00s	$167^{\circ} 18' 00''$	$23^{\circ} 46' 30''$
Direct	$+$	5h 00m 25s	$167^{\circ} 30' 00''$	$24^{\circ} 36' 30''$
Reversed	$+$	5h 01m 20s	$166^{\circ} 48' 00''$	$23^{\circ} 54' 30''$
Means		5h 00m 52s	$167^{\circ} 08' 52''$	$24^{\circ} 15' 37''$

Corr. for refr. $\frac{1.41''}{24^{\circ} 13' 56''}$

Decl. $23^{\circ} 25' 42''$ N.

$$\text{Cos. Q.} = \frac{\sin 23^{\circ} 25' 42''}{\cos 34^{\circ} 04' 21'' \times \cos 24^{\circ} 13' 56''} \times \tan 34^{\circ} 04' 21'' \times \tan 24^{\circ} 13' 56''$$

$\sin. 23^{\circ} 25' 42'' = 9.5994482$

$\cos. 34^{\circ} 04' 21'' = 9.9182031$

$\cos. 24^{\circ} 13' 56'' = 9.9599422$

$9.7213029 = \log. .52638$

$\tan. 34^{\circ} 04' 21'' = 9.8301722$

$\tan. 24^{\circ} 13' 56'' = 9.6533032$

$9.4834754 = \log. .30442$

$\text{Cos. Q.} = .22196$

$Q. = 77^{\circ} 10' 33''$

Bearing of Reference mark, N. $89^{\circ} 58' 19''$ E.

Chains

Telescope	Pos.	l.m.t.	Horizontal Angle	Vertical Angle
	sun	p.m.		
Direct	+°	4h 54m 25s	167° 37' 30"	25° 49' 30"
Reversed	+	4h 56m 45s	167° 56' 00"	24° 50' 30"
Direct	°	4h 55m 10s	168° 07' 30"	25° 41' 30"
Reversed	+	4h 56m 05s	167° 26' 00"	24° 58' 30"

Means 4h 55m 36s 167° 46' 45" 25° 20' 00"

Corr. for refr. 1' 35"
25° 18' 25"

Decl. 23° 25' 42" N.

$$\text{Cos. Q.} = \frac{\sin. 23^\circ 25' 42''}{\cos. 34^\circ 04' 21'' \times \cos. 25^\circ 18' 25''} - \tan 34^\circ 04' 21''$$

$$\times \tan. 25^\circ 18' 25''$$

sin. 23° 25' 42" = 9.5994482

cos. 34° 04' 21" = 9.9182031

cos. 25° 18' 25" = 9.9561832

9.7250619 = log. .53096

tan. 34° 04' 21" = 9.8301722

tan. 25° 18' 25" = 9.6747199

9.5048921 = log. .31981

Cos. Q. = .21115

Q. = 77° 48' 37"

Bearing of Reference mark, N. 89° 58' 08" 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. 582, STATE OF ARIZONA

8-2349

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.	S. AREAS.	
			NORTH.	SOUTH.	EAST.	WEST.				
	N. 89-58 E.	15.02	02 01 ✓		15 02 ✓		15 05	30 ✓		
	South	5.00		5 00 ✓			30 06		150 30	
	East	5.00			5 00 ✓		35 06			
	South	10.00		999 10 00 ✓			40 06		400 20	
	West	20.02				20 02 ✓	20 03			
	N. 0-05 E.	14.96	97 14.96 ✓		02 ✓		02	30 ✓		
		70.00	14 97 ✓	15 00 ✓	20 04 ✓	20 02 ✓		60 ✓	550 50 ✓	
			14 99	14 97	20 02	20 03			60	
	Error in Lat. and Dep.			03 ✓	02 ✓				20/549 90 ✓	
	Closing Error, 1:1944								27 49	Acres.
										I.S.

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APPROVAL

Office of the United States Surveyor General,

Phoenix, Arizona, May 10, 1920

The foregoing field notes of Homestead Entry Survey No.

582

executed by *Frank D. Gost, Surveyor* [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.