

ORIGINAL

121

F. S.
MAR 2 1920
Referred to
DISTRICT FORESTER
MAR 11 1918
MAR 12 1918

U. S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE

FIELD NOTES

OF

HOMESTEAD ENTRY SURVEY NO. 368

SITUATED IN THE COCONINO NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

In Section 16, unsurveyed, Township 18 N, Range 6 E.

In Section 17, unsurveyed, Township 18 N., Range 6 E.

MAR 26 1920

of the

Gila and Salt River Base and Meridian.

State of

ARIZONA

Applicant for listing Frank L. Pendley

Residence Sedona, Arizona.

Application No. 39, dated October 6, 1902

List No. 3-1054, dated January 26, 1911

Applicant for survey Frank L. Pendley

Residence Sedona, Arizona.

H. E. No. 014418, dated June 29, 1911

Office
Land District Phoenix, Arizona.

Survey executed by R. P. A. Johnson, Surveyor-Draftsman, Forest Service
and A. W. Hendrix, Surveyor-Draftsman, Forest Service,

Under special instructions dated July 9, 1915

Survey commenced October 15, 1917

Survey completed June 1, 1919.

Under Acts of June 11, 1906 and March 4, 1917, & Oct. 1, 1918.

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OATH OF ASSISTANTS

We hereby certify that we assisted R.P. Johnson in surveying all those parts or portions of Homestead Entry Survey No. 368, 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

Charles Robinson
Chainman

Henry Edwards
Chainman

Subscribed and sworn to before me this twentieth day of October, 1917.

R.P. Johnson
Surveyor Draftsman

OATH OF SURVEYOR

I, R.P. Johnson Surveyor Draftsman [Forest Service Title.]

do solemnly swear that, in strict conformity with the special instructions of the United States Surveyor General for Arizona, dated July 9, 1915, 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 Act 3-1054, dated January 26, 1911, and a tract of land upon the application of Frank & Cuddey, Application, No. 39, dated October 6, 1902, for Patent, under the Act of June 11, 1906, the same to be known as Homestead Entry Survey No. 368, situated within the Cocconino National Forest, in unsurveyed Section 16, Township 18N, Range 6E, and unsurveyed Section 17, Township 18N, Range 6E,

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.

R.P. Johnson
Surveyor Draftsman [Forest Service Title.]

Subscribed and sworn to before me this fifteenth day of March, 1918.

Eshel M. Gutchall
Notary Public



8-2349

My Commission expires Mar. 17 1921

U. S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE

FIELD NOTES

OF

HOMESTEAD ENTRY SURVEY NO.

SITUATED IN THE NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO.

In Section , surveyed, Township Range

(Sec 17, T. 18 N, R 6 E.)

of the

Meridian.

State of

Applicant for listing

Residence

Application No. , dated , 19

List No. , dated , 19

Applicant for survey

Residence

H. E. No. , dated , 19

Land Office

Survey executed by

[Forest Service Title]

Under special instructions dated , 19

Survey commenced , 19

Survey completed , 19

Under Acts of

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OATH OF ASSISTANTS

We hereby certify that we assisted **A. W. Hendrix,**
Surveyor-Draftsman, Forest Service, in surveying all those
[Forest Service Title.]

parts or portions of Homestead Entry Survey No. **368**, 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 the
oath to Assistant; hence,
it was taken by the Surveyor.

Donald G. Harbison
Chainman

Subscribed and sworn to before me this **first** day of
June, 19**15**.

W. J. Hendrix
Surveyor - Draftsman, Forest Service,

OATH OF SURVEYOR

I, **A. W. Hendrix, Surveyor - Draftsman, 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
July 9, 19**15**, 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 3-1054, dated January 26, 1911, and a tract of
land upon the application of Frank L. Pendley,

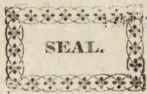
Application, No. **39**, dated **October 6**, 19**07**, for
Patent, under the Act of **June 11**, 19**06**,
the same to be known as Homestead Entry Survey No. **368**,
situated within the **COCONINO** National Forest, in
un surveyed Section **16**, Township **18 N.**, Range **6 E.**, and
un surveyed Section **17**, Township **18 N.**, Range **6 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.

W. J. Hendrix
Surveyor-Draftsman, Forest Service,
[Forest Service Title.]

Subscribed and sworn to before me this **12th** day of
March, 19**20**.

Sam. R. Holdeman
Notary Public



W. J. Hendrix
Feb 11, 1923

COCONINO NATIONAL FOREST

STATE OF ARIZONA

Chains

Applicant for listing, Frank L. Pendley; Application No. 39, dated October 6, 1907; List No. 3-1054, dated January 26, 1911; H. E. 014418, made in the Phoenix Land Office on June 29, 1911 by Frank L. Pendley.

Also a tract of unlisted land adjoining claimant's entry was included in this survey; the land is agricultural in character, was desired by entryman and will be listed as a basis for amendment of his entry No. 014418.

Surveyed under special instructions from the Surveyor General for Arizona, dated July 9, 1915; and designated as Homestead Entry Survey No. 368.

Situated in unsurveyed Sections 16 and 17, T. 18 N., R. 6 E., (partly surveyed and accepted), Gila and Salt River Base and Meridian, within the Coconino National Forest, Arizona.

Surveyed under the Acts of June 11, 1906, March 4, 1917 and October 1, 1918.

Survey commenced October 15, 1917, and executed with a Buff and Buff transit No. 9700-6, 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.

October 15, 1917.

I observe Polaris for azimuth at Cor. No. 1, hereinafter described. The reading on the reference object West of star is set at zero. My watch is set for local mean time.

COCONINO NATIONAL FOREST

STATE OF ARIZONA

Chains Latitude $34^{\circ} 56' 14''$ N., Longitude $111^{\circ} 44' 50''$ W., from Forest Service Grazing Atlas.

Telescope	Time	Horizontal Angle
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Direct	5h. 04m. 55s.	$1^{\circ} 14' 30''$
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Reversed	5h. 06m. 20s.	$1^{\circ} 15' 00''$
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Mean	5h. 05m. 37s.	$1^{\circ} 14' 45''$
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Greenwich m.t. U.C. Pol. October 15,	11h. 56.0m.
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Correction for Longitude,	<u>1.2m.</u>
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l.m.t. U. C. Pol. October 15, p.m.	11h. 54.8m.
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l.m.t. Obsn. October 15, p.m.	<u>5h. 05.6m.</u>
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Hour angle Pol. at obsn.	6h. 49.2m.
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Azimuth of Pol. at obsn. $1^{\circ} 20' 36''$.

Bearing of reference object, N. $0^{\circ} 05' 51''$ E.

October 15, 1917.

I again observe Polaris for azimuth at Cor. No. 1, hereinafter described. The reading on the reference mark West of star is set at zero.

Telescope	Time	Horizontal Angle
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Direct	5h. 07m. 50s.	$1^{\circ} 15' 00''$
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Reversed	5h. 10m. 15s.	$1^{\circ} 15' 30''$
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Mean	5h. 9m. 02s.	$1^{\circ} 15' 15''$
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l.m.t. U. C. Pol. October 15, p.m.	11h. 54.8m.
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l.m.t. obsn. October 15, p.m.	<u>5h. 09.0m.</u>
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Hour angle Pol. at obsn.	6h. 45.8m.
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Azimuth of Pol. at obsn. $1^{\circ} 20' 48''$

Bearing of reference object N. $0^{\circ} 05' 33''$ E.

The mean of these two observations is N. $0^{\circ} 05' 42''$ E., and to the corresponding meridian all courses of this survey are referred.

COCONINO NATIONAL FOREST

STATE OF ARIZONA

Chains

RETRACEMENT

October 16, 1917.

Beginning at the Cor. to Secs. 16, 17, 20 and 21, a broken sandstone 24 x 15 x 6 ins. set in mound of stone over a cross on sandstone ledge, mkd. and witnessed as described by the Surveyor General. This cor. being in poor condition, I restore same as hereinafter described.

Thence N. 1° 01' E.

On true line, bet. Secs. 16 and 17, to 1/4 cor. dist. by triangulation which appears at end of these notes.

38.01 To 1/4 sec. cor. bet. Secs. 16 and 17, a malpais stone, 36 x 8 x 6 ins. in mound of stone, mkd. as described by the Surveyor General. No witnesses.

October 16, 1917.

R. P. A. Johnson, Surveyor - Draftsman, Forest Service.

June 1, 1919.

In accordance with letter from Surveyor General dated October 29, 1918, I, A. W. Hendrix, Surveyor - Draftsman, Forest Service, together with Donald E. Harbison, Assistant, return to this claim for the purpose of making necessary retracement of North half of Sec. line bet. Secs. 16 and 17, T. 18 N., R. 6 E., Gila and Salt River Base and Meridian, Arizona.

The retracement was executed with a Buff and Buff transit No. 10530, equipped with a 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 400 link steel tape. The slope angles were determined with a

COCONINO NATIONAL FOREST

STATE OF ARIZONA

Chains

clinometer.

The course of this retracement was deflected from the meridian established by me on May 26, 1919, by Polaris observation at Cor. No. 1 of H. E. S. No. 579, in connection with the survey of H. E. S. No. 579.

Beginning at the W.C. of Secs. 8, 9, 16 and 17, a malpais stone 6 x 12 x 24 ins. set in mound of stone mkd. and witnessed as described by the Surveyor General,

76 lks. which is N. 89° 53' E., from true point for cor.

Thence S. 4° 15' W. (Record course S. 0° 02' W.)

On random line bet. secs. 16 and 17.

42.26 Fall 88. lks. S. 85° 45' E. of 1/4 cor. bet. secs. 16 and 17, which is a malpais stone 6 x 8 x 36 ins. in a mound of stone mkd. and witnessed as described by the Surveyor General.

True line is S. 4° 25' W., 42.20 chs.

June 1, 1919.

A. W. Hendrix, Surveyor - Draftsman, Forest Service,

BOUNDARIES OF CLAIM

R. P. A. Johnson, Surveyor - Draftsman, Forest Service,
October 17, 1917.

Beginning at cor. No. 1,

Identical with the cor. to Secs. 16, 17, 20 and 21,

I set a sandstone 30 x 16 x 8 ins., surrounded by a mound of stone 4 ft. base, 2 ft. high, over the

original cross. I chisel 4 notches on E. edge and 3 notches on S. edge. I chisel a cross on top for

Cor. No. 1 of this survey and on ledge at E. edge of mound surrounding corner stone, I chisel 1 - H E S 368; and raise a mound of stone 3 ft. base, 2 ft. high, W.

of cor., whence:

COCONINO NATIONAL FOREST

STATE OF ARIZONA

Chains

+ B R T 18 N R 6 E S 16 - 1 H E S 368

chiseled on a sandstone ledge 20 x 10 x 25

ft. high, brs. N. 88° 04' E., 26 lks. dist.

+ B R T 18 N R 6 E S 17 1 H E S 368 chiseled

on a sandstone ledge 15 x 8 x 30 ft. high,

bears N. 1° 24' W., 17 lks. dist.

Lat. 34° 56' 14" N. Long. 111° 44' 50" W., from Forest

Service Grazing Atlas.

Mag. decl. 5 p.m. 14° 45' E. Mean Mag. decl. 14° 45'

E.

Thence N. 36° 13' W.

Over unlisted land. Desc. 75 ft. over sandstone ledge and along NE. slope.

5.30 Foot of ledge, enter scrub oak.

21.50 Ascend 100 ft. along precipitous NE. slope.

33.85 To Cor. No. 2.

Identical with Cor. H-3 of the list survey, a cross

on a sandstone ledge, 15 x 4x 6 ft. high on E. edge,

marked and witnessed as described by the Forest Ser-

vice. I destroy all trace of the list cor. And

chisel 2 - H E S 368 E. of the cross; and raise a mound

of stone, 3 ft. base, 2 ft. high, W. of cor., whence:

A juniper, 10 ins. dia., blazed and scribed

2 H E S 368 + B T, bears N. 44° 39' W.,

89 lks. dist.

A juniper 14 ins. dia., blazed and scribed

2 H E S 368 + B T, bears South, 14 lks.

dist.

Note: It was impracticable to place the mound upon

the claim.

Chains	Thence N. 26° 45' W. Enter listed area and desc. 75 ft. over N. slope in brush and timber.
5.10	Arroyo, 30 lks. wide, 1 ft. deep, course ENE. and asc. 75 ft. to ridge.
7.00	Top of ridge, bears E. and W. Descend 65 ft. in brush.
10.70	Foot of descent, and cor. of fence. Fence bears SE. and along line. Continue along foot NE. slope in brush.
16.00	Leave foot slope and ascend 45 ft. along NE. slope in brush. Fence, bears NNW. Leave fence.
19.25	Top of ascent, thence over flat ledge.
20.67	To Cor. No. 3. Identical with cor. H-4 of the list survey, a cross on a sandstone boulder in place, 36 x 48 x 6 ins. above the surrounding ledge, marked and witnessed as described by the Forest Service. I destroy all trace of the list cor. and mark 3 - H E S 368 E. of the cross; and raise a mound of stone 4 ft. base, 3 ft. high E. of cor., whence: + B R 3 H E S 368 chiseled on face of depression in cliff, bears S. 79° 18' W., 92 lks. dist. No other witnesses available. Pits impracticable.
	Thence N. 10° 33' E. Desc. 45 ft. through scrub oak on E. slope.
1.60	Fence, bears SSE. and N.
6.00	Foot of descent. Ascend 15 ft. along foot East slope to cor.
16.00	Enter ditch, 5 lks. wide, 1 ft. deep, course S.
16.80	Leave ditch.

COCONINO NATIONAL FOREST

STATE OF ARIZONA

Chains

16.88

To Cor. No. 4.

Identical with cor. H-5 of the list survey, a cross on a sandstone ledge 6 x 6 x 15 ft. high on low side, marked and witnessed as described by the Forest Service. I destroy all trace of the list cor. and chisel 4 - H E S 368 S. of cross; and raise a mound of stone 2 ft. base, 1-1/2 ft. high, W. of cor., whence:

A juniper 4 ins. dia., blazed and scribed
4 H E S 368 + B T, bears N. 78° 20' W.,
23 lks. dist.

An oak, 6 ins. dia., blazed and scribed
4 H E S 368 + B T, bears S. 22° 37' W.,
126 lks. dist.

Note. It was impracticable to place the mound in any other position.

October 17, 1917.

October 18, 1917.

Thence S. 26° 54' E.

Desc. 15 ft. over sandstone ledge.

0.10

Foot of ledge, thence desc. 10 ft. along edge of bench.

Fence along line.

16.16

To Cor. No. 5.

Identical with cor. H-1 of the list survey, a malpais boulder in place, 4 x 3 x 2 ft. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of the list cor. and chisel same boulder cross at the point, 5 - H E S 368 on the WSW. face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high WSW. of cor., whence:

Chains

An oak 16 ins. dia., blazed and scribed

5 H E S 368 + B T, bears S. $1^{\circ} 25'$ W.,
33 lks. dist.

An oak, 8 ins. dia., blazed and scribed

5 H E S 368 + B T, bears S. $61^{\circ} 00'$ E.,
8 lks. dist.

Cor. No. 1 of H. E. S. No. 369, which

is a lava stone 8 x 8 x 10 ins. above

ground, marked 1 H E S 369 on NW.

face, bears N. $7^{\circ} 50' 47''$ W.,

64.83 chs. dist. by traverse which

appears at the end of these notes.

True point for corner of sections 8, 9,

16 and 17, T. 18 N., R. 6 E., (which

is 76 lks. S., $89^{\circ} 53'$ W. of W. C.,

a malpais stone 24 x 12 x 6 ins.

above ground, marked and witnessed

as described by the Surveyor General)

bears N. $35^{\circ} 40' 04''$ E., 39.29 chs. by

traverse and triangulation, computation

of which appears at the end of these

notes.

Thence S. $28^{\circ} 29'$ E.

Over level land. Fence along line.

7.80 Leave fence, bears SW.

8.30 Road, bears NW. and SW.

10.00 Desc. 50 ft. over precipitous bank to Oak Creek, 80 lks.
wide. Descend 30 ft. in creek bed.

35.80 Leave creek and ascend 20 ft. along precipitous creek
bank.

40.20 To point for cor. No. 6 and closing corner on line bet.

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Chains

secs. 16 and 17. Falls on precipitous slope to Oak Creek, therefore set witness corners as follows:

At a point S. 11° 19' W., 97 lks. dist. from point for cor. No. 6, set a malpais stone 24 x 14 x 14 ins., 6 ins. in the ground, over a cross marked on solid rock, and surrounded by a mound of stone 4 ft. base, 1 ft. high, chiseled a cross at the point and W C 6 - H E S 368 on West face, C. C on NNW. face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high NNW. of corner, whence:

A juniper, 16 ins. dia., blazed and scribed W C 6 H E S 368 + B. T, bears S. 17° 31' E., 93 lks. dist.

A juniper, 16 ins. dia., blazed and scribed W. C 6 H E S 368 + B. T, bears N. 85° 56' W., 130 lks. dist.

From point for corner No. 6, N. 61° 36' W., 2.22 chs. dist. I chisel C C + W C 6 H E S 368 on top of a sandstone ledge, 10 x 10 x 40 ft. above creek; and raise a mound of stone 2 ft. base, 1-1/2 ft. high NNW. of corner, whence:

A juniper, 22 ins. dia., blazed and scribed W C 6 H E S 368 + B T, bears S. 82° 06' W., 85 lks. dist.

A juniper, 16 ins. dia., blazed and scribed W C 6 H E S 368 + B T, bears S. 44° 00' W., 81 lks. dist.

Cor. to sections 16, 17, 20 and 21, and corner No. 1 of this survey, heretofore described, bears S. 1° 01' W., 12.71 chs. dist. from point for corner No. 6.

Chains

1/4 corner between sections 16 and 17,
 heretofore described, bears N. 1° 01' E.,
 25.30 chs. distant from point for corner
 No. 6.
 October 18, 1917.

October 19, 1917.
 Return to point for cor. No. 6.

Thence S. 28° 29' E.
 Ascend 25 ft. along precipitous creek bank.
 9.50 Top of bank. Thence over level brush covered land.
 10.40 Enter road, bears NW. and along line.
 14.00 Leave road, bears N. 28° W. and S. 35° E.
 14.36 To Cor. No. 7.

Identical with Cor. H-2 of the list survey, a malpais
 boulder 4 x 4 x 2 ft. above ground, on W. side of
 road which bears NW. and SE., marked and witnessed as
 described by the Forest Service. I destroy all trace
 of the list cor., chisel same boulder a cross at the
 point and 7 H E S 368 on N. face; and raise a mound
 of stone 2 ft. base, 1-1/2 ft. high, NW. of cor.,
 whence:

A juniper, 20 ins. dia., blazed and
 scribed 7 H E S 368 + B T, bears
 N. 22° 30' W., 40 links distant.
 A juniper, 16 ins. diameter, blazed
 and scribed 7 H E S 368 + B T,
 bears S. 71° 10' E., 88 links
 distant.

Thence S. 89° 22' W.
 Over unlisted land. Asc. 100 ft. over NE. slope of small
 ridge.

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TOCOCONINO NATIONAL FOREST

9. 85

STATE OF ARIZONA

Chains
7.08

To cor. No. 1, and place of beginning.

AREA

Listed Area - - - - - 48.42 acres

Unlisted Area - - - - - 9.73 acres

Area in Sec. 16 - - - - - 4.50 acres

Area in Sec. 17 - - - - - 53.65 acres

Total Area - - - - - 58.15 acres

IMPROVEMENTS

The improvements made upon and for the benefit of this claim consist of the following:

A two-story frame house, 32 x 28 ft., the long side extending E. and W. and the NE. cor. of which bears S. 83° 18' W., 98 lks. dist. from cor. No. 5.

Value - - - - - \$1200.00

A frame cabin, 24 x 16 ft., the long side extending N. and S., and the NE. cor. of which bears S. 2° 00' W., 148 lks. dist. from cor. No. 5.

Value - - - - - \$ 200.00

Approximately 1-1/2 miles of irrigation ditch, 200 feet of which is rock tunnel and 3/4 mile of which is rock cut and suspended metal flume.

Value - - - - - \$2000.00

Approximately 1-1/4 mile of wire fence.

Value - - - - - \$175.00

DESCRIPTION

This claim is situated on the west side of Oak Creek at the foot of Wilson Mountain, at an elevation of approximately 5000 feet above sea level.

Along the S. and W. lines the slopes drop abruptly to a bench which has a gentle slope to the rim of the

Chains

precipitous bank of Oak Creek along E. boundary.

The soil is a rich sandy loam and at the time of survey there was approximately 20 acres under intensive cultivation in the Northern portion, producing excellent crops of garden truck, alfalfa, corn and milo maize. Approximately 8 acres of the same area has in addition, a bearing apple and peach orchard. The south portion is covered with a dense growth of scub oak, interspersed with scattering yellow pine and juniper.

The Northern portion is practically all cleared land. The high walls of the canyon protect the claim from extreme changes of temperature and killing frosts are practically unknown. This condition makes for an ideal fruit farm.

Water for all purposes is obtained from Oak Creek. This is not a mineralized section and I saw no indication of mineral on the claim.

CONFLICTS AND ADJOINING CLAIMS

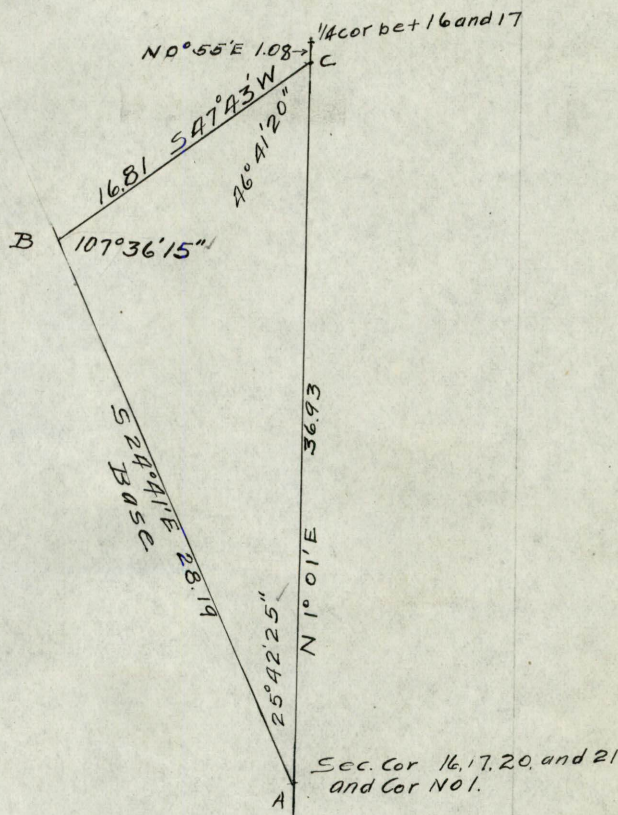
There are no conflicts or adjoining claims.

The Homestead claim of Jesse E. Purtyman, H. E. S. No. 367, lies about one mile in a southeasterly direction. H. E. No. 017996 of J. J. Howard, H. E. S. No. 369, lies approximately 3/4 mile in a northwesterly direction.

Sedona, Arizona, the nearest post office, is approximately 7 miles in a southeasterly direction and is reached by rough wagon road. Flagstaff, Arizona, the nearest railroad and market point, is approximately 29 miles in a northeasterly direction and is reached by fair wagon road.

Chains

Chains



∠ B A C

∠ C B A

Direct	Reversed	Direct	Reversed
25° 42' 30"	25° 43'	107° 36' 30"	107° 37' 00"
51° 24' 00"	51° 25' 30"	215° 12' 30"	215° 12' 00"
77° 06' 00"	77° 08' 00"	322° 49' 00"	322° 48' 00"

6	154° 12' 30"	154° 16' 30"	645° 38' 00" ✓	645° 37' 00" ✓
	25° 42' 05" ✓	25° 42' 45" ✓	107° 36' 20" ✓	107° 36' 10" ✓
	Mean 25° 42' 25" ✓		107° 36' 15" ✓	

$$B C A = 180 - (107^{\circ} 36' 15'' + 25^{\circ} 42' 25'') = 46^{\circ} 41' 20''$$

$$A C = \frac{28.19 \times \sin 107^{\circ} 36' 15''}{\sin 46^{\circ} 41' 20''}$$

$$\begin{aligned} \log 28.19 &= 1.4500951 \checkmark \\ \text{co } \log \sin 46^{\circ} 41' 20'' &= 10.1380836 \checkmark \\ \log \sin 107^{\circ} 36' 15'' &= 9.9791698 \checkmark \\ \log 36.927 \checkmark &= \frac{1.5673485 \checkmark}{1.4500951 \checkmark} = A C \end{aligned}$$

C N 0° 55' E. 108 lks. to 1/4 sec. cor. bet. secs. 16 and 17

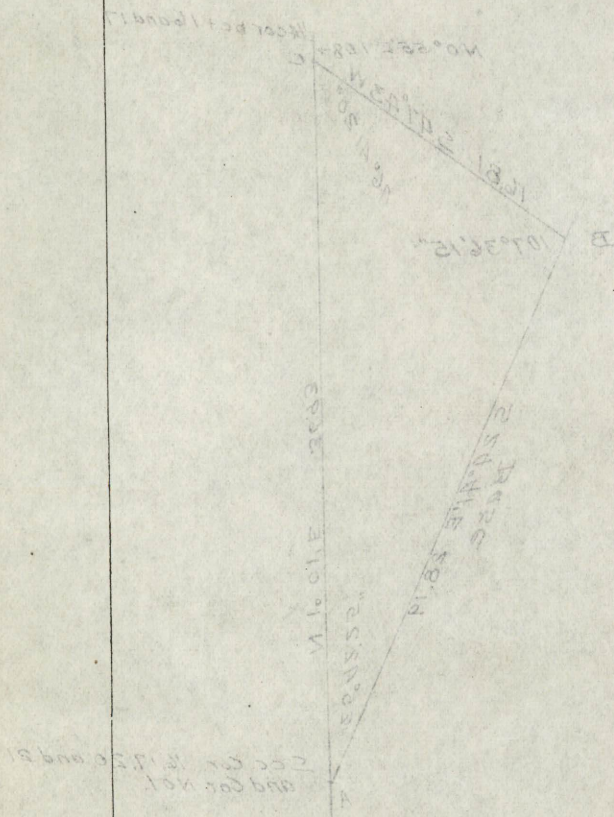
From sec. cor. 16, 17, 20 and 21, 1/4 sec. cor. bet. 16 and 17 bears N. 1° 01' E., 38.01 chs. ✓

NATIONAL FOREST

STATE OF

Chains

Chains



Direct	Reversed	Direct	Reversed
22° 41' 30"	107° 31' 15"	107° 31' 15"	22° 41' 30"
31° 21' 00"	31° 21' 00"	31° 21' 00"	31° 21' 00"
17° 08' 00"	17° 08' 00"	17° 08' 00"	17° 08' 00"
Σ 158° 10' 30"		Σ 158° 10' 30"	
38° 42' 00"	38° 42' 00"	107° 31' 15"	107° 31' 15"
Mean 38° 42' 00"		Mean 107° 31' 15"	

$B.C. = 180 - (107^{\circ}31'15'' + 22^{\circ}41'30'') = 50^{\circ}27'15''$
 $A.C. = \frac{1681.2135 \times \sin 107^{\circ}31'15''}{\sin 48^{\circ}41'20''}$

$\log 1681.2135 = 3.2260331$
 $\log \sin 107^{\circ}31'15'' = 9.2718833$
 $\log \sin 48^{\circ}41'20'' = 9.3752885$
 $\log A.C. = 3.1226279 = 132.26279$

C.M. of 20' 108 line to 1/4 sec. cont. base line
 and IV
 from sec. 16, IV, 20 and 21, 1/4 sec. cor.
 bet. 16 and 17 bears N. 1° 01' E., 23.01 mas.

Chains

Chains



Direct	Reversed	Direct	Reversed
32° 01' 30"	32° 00' 00"	72° 48' 00"	72° 48' 00"
184° 02' 30"	184° 00' 00"	142° 31' 00"	142° 31' 00"
276° 04' 00"	276° 00' 00"	218° 18' 30"	218° 18' 30"
328° 02' 15"	328° 00' 00"	321° 01' 30"	321° 01' 30"
320° 13' 15"	320° 00' 00"	327° 33' 30"	327° 33' 30"
32° 01' 30"	32° 00' 00"	72° 48' 31"	72° 48' 31"

Mean 32° 00' 40" 72° 48' 48"

$B F A = 180 - (32° 00' 40" + 72° 48' 48") = 75° 10' 12"$

$A B = \sin 18' 13' 54" \times 11.08 = 3.9237324$

$\log A B = \log 3.9237324 = 0.594048$

$\log \sin 18' 13' 54" = 9.5006575$

$\log 11.08 = 1.0449398$

$= 1.5396453 = \log 34.16$

TRAVELER

Sec. Cor. 8, 9, 16 and 17 to cor. No. 5.

Cor.	Course	Dist.	M	S	A	W
1 - 5	N. 63° 31' E.	2.45	1.14	1.31	2.14	
5 - 6	N. 83° 31' E.	1.16	0.52	0.64	0.78	
6 - 7	N. 43° 01' W.	1.16	0.85	0.71	0.73	
7 - 8	S. 32° 27' W.	42.16	33.91	26.05	26.05	
8 - 9	N. 63° 31' E.	2.45	1.14	1.31	2.14	
9 - 10	N. 83° 31' E.	1.16	0.52	0.64	0.78	
10 - 11	N. 43° 01' W.	1.16	0.85	0.71	0.73	
11 - 12	S. 32° 27' W.	42.16	33.91	26.05	26.05	
12 - 13	N. 63° 31' E.	2.45	1.14	1.31	2.14	
13 - 14	N. 83° 31' E.	1.16	0.52	0.64	0.78	
14 - 15	N. 43° 01' W.	1.16	0.85	0.71	0.73	
15 - 16	S. 32° 27' W.	42.16	33.91	26.05	26.05	
16 - 17	N. 63° 31' E.	2.45	1.14	1.31	2.14	
17 - 18	N. 83° 31' E.	1.16	0.52	0.64	0.78	
18 - 19	N. 43° 01' W.	1.16	0.85	0.71	0.73	
19 - 20	S. 32° 27' W.	42.16	33.91	26.05	26.05	
20 - 21	N. 63° 31' E.	2.45	1.14	1.31	2.14	
21 - 22	N. 83° 31' E.	1.16	0.52	0.64	0.78	
22 - 23	N. 43° 01' W.	1.16	0.85	0.71	0.73	
23 - 24	S. 32° 27' W.	42.16	33.91	26.05	26.05	
24 - 25	N. 63° 31' E.	2.45	1.14	1.31	2.14	
25 - 26	N. 83° 31' E.	1.16	0.52	0.64	0.78	
26 - 27	N. 43° 01' W.	1.16	0.85	0.71	0.73	
27 - 28	S. 32° 27' W.	42.16	33.91	26.05	26.05	
28 - 29	N. 63° 31' E.	2.45	1.14	1.31	2.14	
29 - 30	N. 83° 31' E.	1.16	0.52	0.64	0.78	
30 - 31	N. 43° 01' W.	1.16	0.85	0.71	0.73	
31 - 32	S. 32° 27' W.	42.16	33.91	26.05	26.05	
32 - 33	N. 63° 31' E.	2.45	1.14	1.31	2.14	
33 - 34	N. 83° 31' E.	1.16	0.52	0.64	0.78	
34 - 35	N. 43° 01' W.	1.16	0.85	0.71	0.73	
35 - 36	S. 32° 27' W.	42.16	33.91	26.05	26.05	
36 - 37	N. 63° 31' E.	2.45	1.14	1.31	2.14	
37 - 38	N. 83° 31' E.	1.16	0.52	0.64	0.78	
38 - 39	N. 43° 01' W.	1.16	0.85	0.71	0.73	
39 - 40	S. 32° 27' W.	42.16	33.91	26.05	26.05	
40 - 41	N. 63° 31' E.	2.45	1.14	1.31	2.14	
41 - 42	N. 83° 31' E.	1.16	0.52	0.64	0.78	
42 - 43	N. 43° 01' W.	1.16	0.85	0.71	0.73	
43 - 44	S. 32° 27' W.	42.16	33.91	26.05	26.05	
44 - 45	N. 63° 31' E.	2.45	1.14	1.31	2.14	
45 - 46	N. 83° 31' E.	1.16	0.52	0.64	0.78	
46 - 47	N. 43° 01' W.	1.16	0.85	0.71	0.73	
47 - 48	S. 32° 27' W.	42.16	33.91	26.05	26.05	
48 - 49	N. 63° 31' E.	2.45	1.14	1.31	2.14	
49 - 50	N. 83° 31' E.	1.16	0.52	0.64	0.78	
50 - 51	N. 43° 01' W.	1.16	0.85	0.71	0.73	
51 - 52	S. 32° 27' W.	42.16	33.91	26.05	26.05	
52 - 53	N. 63° 31' E.	2.45	1.14	1.31	2.14	
53 - 54	N. 83° 31' E.	1.16	0.52	0.64	0.78	
54 - 55	N. 43° 01' W.	1.16	0.85	0.71	0.73	
55 - 56	S. 32° 27' W.	42.16	33.91	26.05	26.05	
56 - 57	N. 63° 31' E.	2.45	1.14	1.31	2.14	
57 - 58	N. 83° 31' E.	1.16	0.52	0.64	0.78	
58 - 59	N. 43° 01' W.	1.16	0.85	0.71	0.73	
59 - 60	S. 32° 27' W.	42.16	33.91	26.05	26.05	
60 - 61	N. 63° 31' E.	2.45	1.14	1.31	2.14	
61 - 62	N. 83° 31' E.	1.16	0.52	0.64	0.78	
62 - 63	N. 43° 01' W.	1.16	0.85	0.71	0.73	
63 - 64	S. 32° 27' W.	42.16	33.91	26.05	26.05	
64 - 65	N. 63° 31' E.	2.45	1.14	1.31	2.14	
65 - 66	N. 83° 31' E.	1.16	0.52	0.64	0.78	
66 - 67	N. 43° 01' W.	1.16	0.85	0.71	0.73	
67 - 68	S. 32° 27' W.	42.16	33.91	26.05	26.05	
68 - 69	N. 63° 31' E.	2.45	1.14	1.31	2.14	
69 - 70	N. 83° 31' E.	1.16	0.52	0.64	0.78	
70 - 71	N. 43° 01' W.	1.16	0.85	0.71	0.73	
71 - 72	S. 32° 27' W.	42.16	33.91	26.05	26.05	
72 - 73	N. 63° 31' E.	2.45	1.14	1.31	2.14	
73 - 74	N. 83° 31' E.	1.16	0.52	0.64	0.78	
74 - 75	N. 43° 01' W.	1.16	0.85	0.71	0.73	
75 - 76	S. 32° 27' W.	42.16	33.91	26.05	26.05	
76 - 77	N. 63° 31' E.	2.45	1.14	1.31	2.14	
77 - 78	N. 83° 31' E.	1.16	0.52	0.64	0.78	
78 - 79	N. 43° 01' W.	1.16	0.85	0.71	0.73	
79 - 80	S. 32° 27' W.	42.16	33.91	26.05	26.05	
80 - 81	N. 63° 31' E.	2.45	1.14	1.31	2.14	
81 - 82	N. 83° 31' E.	1.16	0.52	0.64	0.78	
82 - 83	N. 43° 01' W.	1.16	0.85	0.71	0.73	
83 - 84	S. 32° 27' W.	42.16	33.91	26.05	26.05	
84 - 85	N. 63° 31' E.	2.45	1.14	1.31	2.14	
85 - 86	N. 83° 31' E.	1.16	0.52	0.64	0.78	
86 - 87	N. 43° 01' W.	1.16	0.85	0.71	0.73	
87 - 88	S. 32° 27' W.	42.16	33.91	26.05	26.05	
88 - 89	N. 63° 31' E.	2.45	1.14	1.31	2.14	
89 - 90	N. 83° 31' E.	1.16	0.52	0.64	0.78	
90 - 91	N. 43° 01' W.	1.16	0.85	0.71	0.73	
91 - 92	S. 32° 27' W.	42.16	33.91	26.05	26.05	
92 - 93	N. 63° 31' E.	2.45	1.14	1.31	2.14	
93 - 94	N. 83° 31' E.	1.16	0.52	0.64	0.78	
94 - 95	N. 43° 01' W.	1.16	0.85	0.71	0.73	
95 - 96	S. 32° 27' W.	42.16	33.91	26.05	26.05	
96 - 97	N. 63° 31' E.	2.45	1.14	1.31	2.14	
97 - 98	N. 83° 31' E.	1.16	0.52	0.64	0.78	
98 - 99	N. 43° 01' W.	1.16	0.85	0.71	0.73	
99 - 100	S. 32° 27' W.	42.16	33.91	26.05	26.05	

Chains

Log 22.91 = 1.3600251 ✓
Log 31.92 = 1.5040629 ✓
Log tan. $35^{\circ} 40' 04''$ ✓
= 9.8559622 ✓

Log 31.92 = 1.5040629 ✓
Log cos $35^{\circ} 40' 04''$ = 9.9097761 ✓
Log 39.29 ✓ = 1.5942868 ✓

HOMESTEAD ENTRY SURVEY NO.

NATIONAL FOREST

STATE OF

Chains

Log 32.91 = 1.8800881
 Log 31.92 = 1.8040829
 Log tan 32° 40' 04" = 0.647761
 = 1.2342868
 Log 31.92 = 1.8040829
 Log cos 32° 40' 04" = 0.847761
 = 1.948868

Chains

COCONINO NATIONAL FOREST

STATE OF ARIZONA

Chains

TRAVERSE Sec. 16.

Course	Dist.	N.	S.	E.	W.
N. 1° 01' E.	12.71	12.71		.2723	
S. 28° 29' E.	14.36		12.62	6.85	
S. 89° 22' W.	7.08		.08		7.08
	<u>34.15</u>	12.71	12.70	7.08	7.08
		12.70		7.08	
Error in Lat. and Dep.		.01		.00	

Closing Error, 1:3415.

TRAVERSE - Sec. 17.

Course	Dist.	N.	S.	E.	W.
N. 36° 13' W.	33.85	27.31			20.00
N. 26° 45' W.	20.67	18.46			9.30
N. 10° 33' E.	16.88	16.59		3.09	
S. 26° 54' E.	16.16		14.41	7.31	
S. 28° 29' E.	40.20		35.33	19.17	
S. 1° 01' W.	12.71		12.71		.23
	<u>140.47</u>	62.36	62.45	29.57	29.53
			62.36	29.53	
Error in Lat. and Dep.			.09	.04	

Closing Error, 1:1426

TIE FROM COR. NO. 5, H. E. S. 368 to COR. No. 1,
H. E. S. 369

Course	Dist.	N.	S.	E.	W.
N. 35° 40' 04" E.	39.29	31.92		22.91	
N. 44° 31' 01" W.	45.30	32.30			31.76
		64.22		22.91	31.76
					<u>22.91</u>
Resultant Course, S. 7° 50' 47" E.,	64.83 chs.				8.85

Log 8.95 =	10.9469433 ✓
Log 64.22 =	1.8076703 ✓
Log tan. 7° 50' 47" =	9.1392730 ✓
Log 64.22 =	1.8076703 ✓
Log cos. 7° 50' 47" =	9.9959149 ✓
Log 64.83 =	1.8117554 ✓

Survey completed June 1, 1919.

R. L. Johnson
Surveyor - Draftsman, Forest Service

Arthur J. ...
Surveyor-Draftsman, Forest Service,

NATIONAL FOREST

STATE OF

Chains

Chains

Course	Dist.	N.	S.	E.	W.
N. 1° 01' E.	13.71				
S. 88° 33' E.	14.33				
S. 89° 22' E.	7.08				
Error in lat. and dep.					
Closing error, f: 3.15					

Course	Dist.	N.	S.	E.	W.
N. 50° 13' E.	32.83				
N. 28° 43' W.	30.87				
N. 10° 33' E.	18.88				
S. 23° 04' E.	18.15				
S. 23° 22' E.	40.20				
S. 1° 01' W.	13.71				
Error in lat. and dep.					
Closing error, f: 1.83					

THIS FROM COR. NO. 5, H. E. 358 TO COR. NO. 1, H. E. 359

Course	Dist.	N.	S.	E.	W.
N. 36° 40' E.	32.33				
N. 44° 31' E.	32.30				
Residual Course, 3.750' 47" N., 64.83' E.					

$\log 8.92 = 10.9492233$
 $\log 64.83 = 1.812703$
 $\log \tan 750' 47" = 7.1322750$
 $\log 64.83 = 1.812703$
 $\log \cos 750' 47" = 9.2323122$
 $\log 64.83 = 1.812703$

Survey completed June 1, 1919.

Surveyor - Dr. J. H. ...

Surveyor - Dr. J. H. ...

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. 368, STATE OF ARIZONA

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.	S. AREAS.
			NORTH.	SOUTH.	EAST.	WEST.			
Sec. 17, 1 - 2	N. 36°13' W.	33.85	27.33 27 31			20 01 20 00	38 63	1055 76	
2 - 3	N. 26°45' W.	20.67	18.48 18 46			9 31 9 30	9 31	172 05	
3 - 4	N. 10°33' E.	16.88	16.59	14.40 14 41		3 09 3 09	3 08	51 13	
4 - 5	S. 26°54' E.	16.16		14 41 13 70		7 31 7 31	13 47		193 97
5 - 6	S. 28°29' E.	40.20		35 33 35 33		19 17 19 17	39 94		1410 28
6 - 1	S. 1°01' W.	12.71		12 71			58 87		747 65
		140.47	62 36	62 45	29 57	29 53		1278 94	2351 90
			62 41	62 41	29 55	29 55		1278 94	2351 90
			Closing error 1:1426					20 / 1072 96	53.65 Acres
Sec. 16									
1 - 6	N. 1°01' E.	12.71	12 71	12 63	23			2 92	
6 - 7	S. 28°29' E.	14.36		12 62	6 85		7 31		92 33
7 - 1	S. 89°22' W.	7.08		08		7 08	7 08		57
		34.15	12 71	12 70	7 08	7 08		2 92	92 90
			12 71	12 71	7 08	7 08		2 92	92 90
			Closing error 1:3415					20 / 89 98	4.50 Acres
									58.15

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APPROVAL

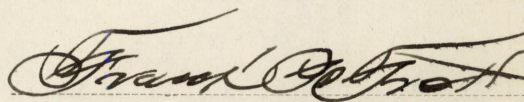
Office of the United States Surveyor General,

Phoenix, Arizona, May 26, 1920

The foregoing field notes of Homestead Entry Survey No.

368

executed by R. P. A. Johnson, and
A. H. Hendrix, Surveyor-Draftsman [Forest Service Title]
under his special instructions, dated July 9, 1915, 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.