Copied May 29, 1914
A. L. H.

77 Apr. 28, 1913
Mar. 5, 1914.

e² nw se nw Sec. 24
ne sw se nw

4—679

HOMESTEAD ENTRY SURVEY NO. 73
Arizona Land District.

FIELD NOTES

Survey canceled by Com "E" Nov. 18, 1915.

OF THE SURVEY OF THE

HOMESTEAD ENTRY CLAIM

of

Hiram W. Hopen.

Described as

Phoenix, Arizona, H. E. No. 014761, List No. 3-776.

Situated in Secs. 13 & 24, T. 10 N., R. 20E unsurveyed.

G. & S. R. B. & M.

Sitgreaves National Forest.

Navajo County, Arizona.

8 Pick 3-2359
025504 7-28-14
German Pf Reidhead

Of the ..... *Meridian,*

In the State of .....

EXECUTED BY

Charles E. Perkins.

In the capacity of U. S. Deputy *Surveyor*, *under instructions dated* June 24 and August 15, *1912*, *issued by the United States Surveyor General to govern surveys included in Group No.* ....., *which were approved by the Commissioner of the General Land Office,* Dec. 11, *1911*, *pursuant to authority contained in the Act of Congress dated* June 11, 1906, *191*

Survey commenced April 2, *1913.*

Survey completed April 4, *1913.*

Address of claimant, Pinedale, Arizona.

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INDEX DIAGRAM.

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H.E.S. No. 73.

Field notes of the survey of H. E. No. 014761, Phoenix Land Office, dated June 21, 1911, based on List 3-776. Hiram W. Hopen, of Pinedale, Arizona, entryman, application for survey dated July 26, 1911. Authorized by G. L. O. letter "E" JSW 194304, dated December 11, 1911. Special Instructions dated June 24, 1912, & Aug. 15, 1912.

Chains.

Survey commenced April 2, 1913, and executed with a Gurley light mountain transit fitted with a Saegmuller solar attachment. The horizontal limb is provided with two opposite verniers reading to single minutes of arc. (I know from recent observations that the instrument is in good adjustment), and a steel tape.

At the corner of secs. 18 and 19 on the west boundary of T.10 N., R.21 E., which is a stone 12x12x6 ins. above ground, firmly set, marked and witnessed as described by the surveyor general, at 9 h.00 m., a.m., l.m.t., I set the solar telescope at a decl. angle of N.4°53', set off 34°12'N. on the lat. arc, and determine a true meridian with the solar.

Thence I run

N.0°31'W., on the W. bdy. of sec. 18.

5.13 The corner of secs. 13 and 24 as determined and set under Contract No.40-unapproved-

In order to properly identify the listed tract, I retrace the boundaries of secs. 13 and 24, T.10 N., R.20 E. according to the survey thereof under Contract No. 40-unapproved-, as follows:

From the corner of secs. 13 and 24 on the E. bdy. of the Tp., which is a sandstone, 8x8x6 ins. above ground, firmly set, marked and witnessed as described by the field notes of Contract No. 40 -unapproved-, I run

N. 0°31'W., on a blank line.

35.25 ~~35.23~~ The 1/4 sec. cor. of sec. 18, which is a stone, 16x12x 7 ins. above ground, firmly set, marked and witnessed as described by the surveyor general.

Thence I run

North, continuing the measurement from the last sec. corner.

40.00 The 1/4 sec. cor. of sec. 13, which is a sandstone, 9x 8x7 ins. above ground, firmly set, marked and witnessed as described by the field notes of Contract No. 40 -unapproved-.

75.54 ~~75.51~~ The corner of secs. 7 and 18, which is a stone, 9x8x7 ins. above ground, firmly set, marked and witnessed as described by the surveyor general.

Thence I run

N. 0°16'W., continuing the measurement on the blank line.

80.00 The corner of secs. 12 and 13, which is a stone, 8x8x8 ins. above ground, firmly set, marked and witnessed as described by the field notes of Contract No. 40 - unapproved-.

Thence I run

S.89°57'W., on a blank line.

40.34 The 1/4 sec. corner, which is a stone, 6x6x4 ins. above ground, firmly set, marked and witnessed as described by the field notes of Contract No. 40 -unapproved-.

80.34 The corner of secs. 11, 12, 13 and 14, which is a stone 8x6x6 ins. above ground, firmly set, marked and witnessed as described by the field notes of Contract No. 40 -unapproved-.

Thence I run

South, on a blank line.

40.00 The 1/4 sec. cor. bet. secs. 13 and 14, which is a stone 12x12x6 ins. above ground, firmly set, marked and witnessed as described by the field notes of Contract No. 40 -unapproved-.

80.00 The corner of secs. 13, 14, 23 and 24, which is a stone 12x12x7 ins. above ground, firmly set, marked and witnessed, as described by the field notes of Contract No. 40 -unapproved-.

Thence I run

S.89°59'E., on a blank line.

40.00 The 1/4 sec. cor. bet. secs. 13 and 24, which is a

Chains.

stone, 13x13x4 ins. above ground, firmly set, marked and witnessed as described by the field notes of Contract No. 40 -unapproved-.

64.77 A stone, 14x10x8 ins., loosely set in a mound of stone marked and witnessed as described by the field notes of the Forest Service as Road Corner No.2, bears S. 14 lks. dist.

65.77 A stone 16x10x8 ins., loosely set in a mound of stone marked and witnessed as described in the field notes of the Forest Service as Road Corner No.1, bears S. 14 lks. dist.

80.77 The corner of sections 13 and 24

April 2, 1913. At the cor. of secs. 13 and 24 I set the solar telescope at a decl. angle of N.4°56' and at 12 h. 4 m.pm,l.m.t., observe the sun on the meridian; the resulting lat. is 34°12'N.

From the corner of sections 18 and 19,T.10 N.,R.21 E., I run

South, on a blank line.

34.77 The 1/4 sec.cor.sec. 24, which is a stone,16x9x6 ins. above ground, firmly set, marked and witnessed as described by the field notes of Contract No. 40 - unapproved-.

40.52 The 1/4 sec. cor. of sec. 19, which is a stone, 18x9x 6 ins. above ground, firmly set, marked and witnessed as described by the surveyor general. S.0°24'E.

74.87 The corner of secs. 24 and 25, which is a stone, 12x 6x6 ins. above ground, firmly set, marked and witnessed as described by the field notes of Contract No. 40 -unapproved-.

Thence I run

S.89°57'W., on a blank line.

41.03 The 1/4 sec. cor. bet. secs. 24 and 25, which is a post, firmly set, marked and witnessed as described by the field notes of Contract No.40 -unapproved-.

81.03 The corner of secs. 23, 24, 25 and 26, which is a Stone, 12x12x6 ins. above ground, firmly set, marked and witnessed as described by the field notes of Contract No. 40 - unapproved-.

Thence I run

North, on a blank line.

40.00 The 1/4 sec. corner between secs. 23 and 24, which is a stone, 12x10x6 ins. above ground, firmly set, marked and witnessed as described by the field notes of Contract No. 40 -unapproved-.

80.00 The corner of secs. 13, 14, 23 and 24.

In accordance with my special instructions I now subdivide secs. 13 and 24 adjacent to the listed tract, into 1/4 1/4 1/4 1/4 secs. following the directions of the Department circular for the "Restoreration of Lost and Obliterated Corners and Subdivision of Sections", setting temporary corners at each intersection point and carefully placing all excessive measurements proportionately in the most easterly subdivisions.

April 2, 1913.

April 3, 1913. At the corner of sections 13 and 24, at 9 h.00 m., a.m., l.m.t., I set the solar telescope at a decl. angle of N.5°16', set off 34°12'N. on the lat. arc, and determine a true meridian with the solar. Mag. variation 13°.43'E.

I mark this corner stone, 1 H E S 73 on the N.W. and C C on the S.

Thence I run

N.0°31'W. on a true line.

Descend 20 feet, through scattering pine timber and undergrowth of locust and young pine.

3.87 A wagon road bears E. and W.

Foot of descent

Chains	
	Thence over level land.
5.85	A wire fence bears E. and W.
10.00	The temp. cor. heretofore set by me.
	Set an oak post, 3 feet long, 4 ins. square, 18 ins. in the ground, marked 2 H E S 73 CC for corner No.2., and raise a mound of stone and earth around post; from which
	An oak, 7 ins. diam., bears N.53°E.,74 lks. dist., marked 2 H E S 73 CC B T
	A n oak 6 ins. diam., bears S.26°E., 64 lks. dist., marked 2 H E S 73 CC B T
	A pine, 8 ins. diam., bears S.40°W.,109 lks.dist., marked 2 H E S 73 CC B T
	An oak, 16 ins. diam., bears S.65°W.76 lks. dist., marked 2 H E S 73 CC B T Variation 13°43'E.
	Thence I run
	N.89°59'W., on a true line.
	Through scattering pine and oak timber and undergrowth
.18	A wire fence bears N. and S.
2.20	Across wash, 30 lks. wide, 6 feet deep, course N.E.
2.90	A wagon road bears N. and S.
3.09	A wire fence bears N. and S.
	Enter Hopen's inclosed field.
10.70	The temp. cor. heretofore set by me.
	Set a sandstone, 24x12x6 ins., 12 ins. in the ground, for corner No.3, marked 3 H E S 73 on the S.E. face; from which
	A pine, 8 ins. diam., bears S.13°30'W., 88 lks. dist. marked 3 H E S 73 B T
	An oak, 6 ins. diam., bears S.65°W., 68 lks. dist., marked 3 H E S 73 B T
	A pine, 16 ins. diam., bears N.27°W., 113 lks dist. marked 3 H E S 73 B T
	A pine, 26 ins. diam., bears N.3°W.,50 lks. dist., marked 3 H E S 73 B T Variation 13°43'E.
	Thence I run
	South, on a true line.
	Over level land.
.70	Leave scattering timber and undergrowth, bears N.E. and S.W.
	Enter open level field.
5.00	The temp. cor. heretofore set by me.
	Set a pine post, 3 feet long, 4 ins. square, 18 ins. in the ground, for corner No.4, marked 4 H E S 73 on S.E. face, raise a mound of stone and earth around post; from which
	A pine, 6 ins. diam., bears S.71°W., 204 lks. dist., marked 4 H E S 73 B T
	A pine, 6 ins. diam., bears N.80°W., 89 lks. dist., marked 4 H E S 73 B T
	No other trees within limits. Variation 13°43'E.
	Thence I run
	N.89°59'W., on a true line.
	Over level field.
.70	Leave level field, enter scattering pine and oak timber and undergrowth.
	Ascend 20 feet to
5.00	The temp. cor. heretofore set by me.
	Set a pine post, 3 feet long, 4 ins. square, 18 ins. in the ground, for corner No. 5, marked 5 H E S 73 on the S.E. face, raise a mound of stone and earth around post; from which
	A pine, 8 ins. diam., bears N.60°E., 34 lks. dist., marked 5 H E S 73 B T
	A pine, 8 ins. diam., bears S.10°E., 10 lks. dist., marked 5 H E S 73 B T
	A pine, 6 ins. diam., bears N.82°W., 24 lks. dist., marked 5 H E S 73 B T
	A pine, 6 ins. diam., bears N.41°W., 28 lks.dist., marked 5 H E S 73 B T Variation 13°43'E.

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H.E.C.- Hiram W. Hopen, - No.73.

Chains.	
	Thence I run
	South, on a true line.
	Through scattering timber and undergrowth.
	Over rolling land.
	Descend 15 feet to
5.00	The temp. cor. heretofore set by me.
	Intersect ~~section~~ line, bet. secs. 13 and 24, 15.77 chs. N.89°59'W. of the cor. of secs. 13 and 24 on the E. bdy of the Tp.
	Set a pine post, 3 feet long, 24 ins square, 24 ins. in the ground, for corner No.6, marked 6 H E S 73 On S.E. and C C on E. faces raise a mound of stone and earth around post; from which
	A pine, 6 ins. diam., bears N.14°E., 49 lks. dist., marked 6 H E S 73 C C B T
	A pine, 20 ins. diam., bears S.61°E., 54 lks. dist., marked 6 H E S 73 CC B T
	A pine, 10 ins. diam., bears S. 4°E., 85 lks. dist., marked 6 H E S 73 CC B T
	A pine, 6 ins. diam., bears S.57°W., 116 lks. dist., marked 6 H E S 73 CC B T
	Forest Service road corner No. 1, bears S.80°E., 80 lks distant.
	Forest Service road corner No.2, bears S.66°W., 34 lks. distant. Variation 13°43'E.
	Thence I run
	N.89°59'W., on a true line.
	Over rolling, stony land, through scattering pine and oak timber and undergrowth.
1.00	Set a sandstone, 24x10x4 ins., 12 ins. in the ground, for corner No. 7, marked 7 H E S 73 on the S.W. and CC on the W. face; from which
	A pine, 6 ins. diam., bears N.67°30'E., 121 lks. dist. marked 7 H E S 73 CC B T
	A pine, 20 ins. diam., bears S.79°30'E., 149 lks. dist., marked 7 H E S 73 CC B T
	A pine, 10 ins. diam., bears S.49°30"E., 136 lks. dist., marked 7 H E S 73 CC B T
	A pine, 6 ins. diam., bears S.2°E.,64 lks. dist., marked 7 H E S 73 CC B T Variation 13°43'E.
5.00	The temp. cor. heretofore set by me.
	Set a sandstone, 24x12x6 ins., 12 ins. in the ground, for corner No.8, marked 8 H E S 73 on S.E. and C C on W. faces from which
	A pine, 6 ins. diam., bears S.64°E., 46 lks. dist., marked 8 H E S 73 CC B T
	A pine, 12 ins. diam., bears S.41°30'E., 15 lks. dist., marked 8 H E S 73 C C B T
	A pine, 8 ins. diam., bears S.45°W., 27 lks. dist., marked 8 H E S 73 C C B T
	A pine, 8 ins. diam., bears S.85°W., 86 lks. dist., marked 8 H E S 73 C C B T Variation 13°43'E.
	Thence I run
	South, on a true line.
	Over rolling land, through scattering pine and oak timber and undergrowth.
9.20	Across an arroyo, 15 lks. wide, 6 feet deep, course N.E.
	Thence over level land.
10.00	The temp. cor. heretofore set by me.
	Set an oak post, 3 feet long, 4 ins. square, 18 ins. in the ground, for corner No. 9, marked 9 H E S 73 on S.E. face, raise a mound of stone and earth around post; from which
	An oak, 6 ins. diam., bearsN.84°E., 82 lks. dist., marked 9 H E S 73 B T
	A pine, 16 ins. diam., bears S.24°E., 64 lks. dist., marked 9 H E S 73 B T
	A pine, 20 ins. diam., bears S.73°W., 77 lks. dist., marked 9 H E S 73 B T
	An oak, 5 ins. diam., bears N.14°W., 98 lks. dist., marked 9 H E S 73 B T Variation 13°43'E.
	Thence I run

Chains.

N.89°59'W., on a true line.
Over rolling land, through scattering pine and oak timber.
1.00 Across arroyo, 15 lks. wide, 6 feet deep, course N.E.
5.00 Along N. bank of artificial reservoir, of about 12 rods of water in area.
10.00 The temp. cor. heretofore set by me.
Set a pine post, 3 feet long, 4 ins. square, 18 ins. in the ground, for corner No 10, marked 10 H E S 73 on the S.E. face, raise a mound of stone and earth around post; from which
A pine, 12 ins. diameter, bears N.1°E., 81 lks.dist., marked 10 H E S 73 B T
A juniper 14 ins. diam., bears N.88°E., 59 lks. dist. marked 10 H E S 73 B T
A pine, 28 ins. diam., bears S.38°W., 50 lks. dist., marked 10 H E S 73 B T
A pine, 20 ins. diam. bears S.82°W., 70 lks. dist., marked 10 H E S 73 B T.
April 3, 1913. At this corner I set the solar telescope at a decl. angle of N. 5°18' and at 12 h. 3 m., p.m., l.m't., observe the sun on the meridian; the resulting latitude is 34°12'N. Variation 13°43'E.
Thence I run
South, on a true line.
Over level land, through scattering timber.
5.00 The temp. cor. heretofore set by me.
Set an oak post, 3 feet long, 4 ins. square, 18 ins. in the ground, for corner No. 11, marked 11 H E S 73 on S.E face; raise a mound of stone and earth around post; from which
A pine, 8 ins. diam., bears N.53°E., 123 lks. dist., marked 11 H E S 73 B T
An oak, 12 ins. diam., bears S.42°E., 70 lks. dist., marked 11 H E S 73 B T
A pine, 20 ins. diam., bears S.80°W., 60 lks. dist., marked 11 H E S 73 B T
An oak, 10 ins. diam., bears N.43°W., 144 lks. dist., marked 11 H E S 73 B T
From this corner, Hopen's ten room house bears S.25°W., 5 chs. dist.
Hopen's large barn bears S.21°E., 6 chains distant.
A small storage reservoir of water bears S.63°W., 7 chs. distant. Variation 13°43'E.
Thence I run
N.89°59'W., on a true line.
Over level land, through scattering pine timber.
3.00 Leave level land.
Ascend 20 feet.
Thence over rolling hills.
10.00 The temporary corner, heretofore set by me.
Set a sandstone, 24x12x8 ins., 12 ins. in the ground, for corner No. 12, marked 12 H E S 73 on the S.E. face; from which
A juniper, 12 ins. diam., bears N.20°E.,52 lks.dist., marked 12 H E S 73 B T
A pine, 12 ins. diam., bears N.33°E., 53 lks. dist., marked 12 H E S 73 B T
A pine, 10 ins. diam., bears N.59°E., 75 lks. dist., marked 12 H E S 73 B T
A juniper,10 ins. diam., bears S.5°W.,39 lks. dist., marked 12 H E S 73 B T Variation 13°43'E.
Thence I run
South, on a true line.
Over rolling hills, through scattering timber.
Descend 20 feet.
3.40 Across arroyo, 12 lks. wide, 6 feet deep, course E.
Thence over level land.
5.00 The temp. corner heretofore set by me.
Set an oak post, 3 feet long, 4 ins. square, 18 ins. in the ground, for corner No. 13, marked 13 H E S 73 on

Chains.

S.E. face; from which
An oak, 8 ins. diam., bears N.12°E., 110 lks. dist. marked 13 H E S 73 B T
An oak, 6 ins. diam., bears N.62°W. 79 lks. dist., marked 13 H E S 73 B T
A pine, 22 ins. diam., bears N.17°W., 62 lks. dist. marked 13 H E S 73 B T
An oak, 6 ins. diam., bears N.12°W., 87 lks. dist., marked 13 H E S 73 B T

April 3, 1913. At 3 h. 0 m., p.m., l.m.t., I set the solar telescope at a decl. angle of N.5°21', set off 34°12'N. on the lat. arc, and determine a true meridian with the solar. Variation 13°43'E.

Thence I run
West, on a true line.
Over level land, through scattering timber.

9.80 Across arroyo, 15 lks. wide, 5 feet deep, course N.E.
10.00 The temp. cor. heretofore set by me.
Set a sandstone, 24x12x8 ins., 12 ins. in the ground, for corner No. 14, marked 14 H E S 73 on S.E. face; from which
An oak, 10 ins. diam., bears S.70°E., 49 lks. dist. marked 14 H E S 73 B T
An oak, 6 ins. diam., bears S.40°W., 70 lks. dist., marked 14 H E S 73 B T
An oak, 6 ins. diam., bears S.70°W., 49 lks. dist., marked 14 H E S 73 B T
A pine, 20 ins. diam., bears N. 8°W., 41 lks. dist. marked 14 H E S 7 3 B T

April 3, 1913.

April 4, 1913. At 9 h. 0m., a.m., l.m.t., I set the solar telescope at a decl. angle of 5°39', set off 34°12'N. on the lat. arc, and determine a true meridian at corner No. 14. Variation 13°43'E.

Thence I run
South, on a true line.
Over level land, through scattering pine and oak timber.

.20 Across arroyo, 15 lks. wide, 5 feet deep, course N.E.
10.00 The temp. cor. heretofore set by me.
Set a pine post, 3 feet long, 4 ins. square, 18 ins. in the ground, for corner No. 15, marked 15 H E S 73 on the N. E., raised a mound of stone and earth around post; from which
A pine, 24 ins. diam., bears S.60°E., 181 lks. dist. marked 15 H E S 73 B T
No other trees within limits.
Raise a mound of earth, 2 ft. base, 18 ins. high, N.E. of corner. Variation 13°43'E.

Thence I run
East, on a true line.
Over level land, through scattering pine and oak timber.

3.20 Across arroyo, 106 lks. wide, 10 feet deep, course N.E.
10.00 A temp. cor. heretofore set by me.
Set a pine post, 3 feet long, 4ins. square, 18 ins. in the ground, for corner No. 16, marked 16 H E S 73 on the N.E. face; from which
A pine, 30 ins. diam., bears S.45°E., 8 lks. dist., marked 16 H E S 73 B T
A pine, 12 ins. diam., bears S.12°E., 83 lks. dist., marked 16 H E S 73 B T
A pine, 6 ins. diam., bears S.39°W., 132 lks. dist., marked 16 H E S 73 B T
An oak, 12 ins. diam., bears S.56°W., 111 lks. dist. marked 16 H E S 73 B T Variation 13°43'E.

Thence I run
North, on a true line.
Over level land, through scattering pine and oak timber.

4.30 Across arroyo, 46 links wide, 12 feet deep, course N.E. 46
5.00 The temp. cor. heretofore set by me.
Set an oak post 3 feet long, 4 ins. square, 18 ins. in

Chains.

the ground for corner No. 17, marked 17 H E S 73 on the N.W. face, raise a mound of stone and earth around post; from which

A pine, 20 ins. diam., bears N.16°E., 22 lks. dist., marked 17 H E S 73 B T

A pine, 6 ins. diam., bears S.20°E., 40 lks. dist., marked 17 H E S 73 B T

An oak, 12 ins. diam., bears S. 5°W., 35 lks. dist., marked 17 H E S 73 B T

A pine, 26 ins. diam., bears N.76°W., 59 lks. dist., marked 17 H E S 73 B T Variation 13°43'E.

Thence I run

East, on a true line.

Over rolling land, through scattering pine and oak timber and undergrowth.

3.20 Across arroyo, 46 lks. wide, 10 feet deep, course N.E.

17.11 Forest Service road corner No. 3 bears N.15°24'E., 5 lks. dist.

Set a pine post, 3 feet long, 4 ins. square, 18 ins. in the ground, for corner No. 18, marked 18 H E S 73 on N.W. ~~and C C on N.~~ face; raise a mound of stone and earth around post; from which

An oak, 6 ins. diam., bears N.41°E., 96 lks. dist., marked 18 H E S 73 ~~C C~~ B T

A pine, 20 ins. diam., bears S.15°W., 54 lks. dist., marked 18 H E S 73 ~~C C~~ B T

A pine, 12 ins. diam., bears S.37°W., 76 lks. dist., marked 18 H E S 73 ~~C C~~ B T

A pine, 10 ins. diam., bears N.38°W., 72 lks. dist., marked 18 H E S 73 ~~C C~~ B T

18.11 Forest Service road corner No. 4 bears N.15°24'E., 5 lks. dist.

Set a pine post, 3 feet long, 4 ins. square, 18 ins. in the ground, for corner No. 19, marked 19 H E S 73 on N.E. ~~and C C on N.~~ face; from which

An oak, 6 ins. diam., bears N.55°E., 90 lks. dist., marked 19 H E S 73 ~~C C~~ B T

An oak, 6 ins. diam., bears S.69°E., 81 lks. dist., marked 19 H E S 73 ~~C C~~ B T

A pine, 10 ins. diam., bears S.86°W., 20 lks. dist., marked 19 H E S 73 ~~C C~~ B T

An oak, 6 ins. diam., bears N.32°W., 72 lks. dist., marked 19 H E S 73 ~~C C~~ B T

20.00 The temp. cor. heretofore set by me.

Set an oak post, 3 feet long, 4 ins. square, 18 ins. in the ground, for corner No. 20, marked 20 H E S 73 on the N.W. face; raise a mound of stone and earth around post; from which

A juniper, 6 ins. diam., bears N.87°E., 73 lks. dist marked 20 H E S 73 B T

An oak, 5 ins. diam., bears S.20°E., 52 lks. dist., marked 20 H E S 73 B T

A pine, 10 ins. diam., bears S.50°W., 40 lks. dist., marked 20 H E S 73 B T

A pine, 8 ins. diam., bears N.63°W., 20 lks. dist., marked 20 H E S 73 B T Variation 13°43'E.

Thence I run

North, on a true line.

Over rolling land, through scattering pine and oak timber.

5.00 The temp. cor. heretofore set by me.

Set a pine post, 3 feet long, 4 ins. square, 18 ins. in the ground, for corner No. 21, marked 21 H E S 73 on N.W. face; raise a mound of stone and earth around post; from which

An oak, 6 ins. diam., bears S.89°E., 103 lks. dist., marked 21 H E S 73 B T

An oak, 6 ins. diam., bears S.49°E., 52 lks. dist., marked 21 H E S 73 B T

A pine, 16 ins. diam., bears S.85°W., 72 lks. dist., marked 21 H E S 73 B T

Chains.

An oak, 6 ins. diam., bears N.43°W., 75 lks. dist., marked 21 H E S 73 B T Variation 13°43'E.

Thence I run
East, on a true line.
Over rolling land, through scattering pine and oak timber and undergrowth.

5.00 The temp. cor. heretofore set by me.
Set a pine post, 3 feet long, 4 ins. square, 18 ins. in the ground, for corner No. 22, marked 22 H E S 73 on the N.W. face; raise a mound of stone and earth around post; from which

A pine, 10 ins. diam., bears N.60°E., 89 lks. dist. marked 22 H E S 73 B T
An oak, 6 ins. diam., bears S.24°E., 63 lks. dist., marked 22 H E S 73 B T
An oak, 6 ins. diam., bears S.42°E., 63 lks. dist., marked 22 H E S 73 B T
An oak, 6 ins. diam., bears N.64°W., 41 lks. dist., marked 22 H E S 73 B T
A pine, 24 ins. diam., bears N.13°W., 62 lks. dist. marked 22 H E S 73 B T Variation 13°43'E.

Thence I run
North, on a true line.
Over rolling land, through scattering timber and undergrowth.

10.00 The temp. cor. heretofore set by me.
Set a sandstone, 24x12x8 ins., 12 ins. in the ground, for corner No. 23, marked 23 H E S 73 on the N.W. face; from which

An oak, 4 ins. diam., bears N.27°E., 18 lks. dist., marked 23 H E S 73 B T
An oak, 30 ins. diam., bears N.63°E., 44 lks. dist., marked 23 H E S 73 B T
A pine, 28 ins. diam., bears S.14°W., 64 lks. dist., marked 23 H E S 73 B T
An oak, 6 ins. diam., bears S.44°W., 60 lks. dist., marked 23 H E S 73 B T

At this corner- April 4, 1913,- I set the solar telescope at a decl. angle of N.5°41', and at 12 h. 3 m., p.m., l.m.t., observe the sun on the meridian; the resulting latitude is 34°12'N. Variation 13°43'E.

Thence I run
S.89°59'E., on a true line.
Over rolling land, through scattering pine and oak timber and undergrowth.

5.00 The temp. cor. heretofore set by me.
Set an oak post, 3 feet long, 4 ins. square, 18 ins. in the ground, for corner No. 24, marked 24 H E S 73 on the N.W. face; raise a mound of stone and earth around post; from which

A pine, 6 ins. diam., bears N.22°E., 50 lks. dist., marked 24 H E S 73 B T
An oak, 6 ins. diam., bears S.69°E., 49 lks. dist., marked 24 H E S 73 B T
A pine, 5 ins. diam., bears S.15°W., 38 lks. dist., marked 24 H E S 73 B T
An oak, 5 ins. diam., bears N.88°W., 49 lks. dist., marked 24 H E S 73 B T Variation 13°43'E.

Thence I run
North, on a true line.
Over level land, through scattering pine and oak timber and undergrowth.

5.00 The temp. cor. heretofore set by me.
Set an oak post, 3 feet long, 4 ins. square, 18 ins. in the ground, for corner No. 25, marked 25 H E S 73 on the N.W. face; raise a mound of stone and earth around post; from which

An oak, 6 ins. diam., bears S.60°E., 33 lks. dist., marked 25 H E S 73 B T
An oak, 8 ins. diam., bears S.10°W., 32 lks. dist., marked 25 H E S 73 B T

Chains.	
	An oak, 6 ins. diam., bears N.68°W., 117 lks. dist., marked 25 H E S 73 B T
	An oak, 6 ins. diam., bears N.26°W., 107 lks. dist., marked 25 H E S 73 B T Variation 13°43'E.
	Thence I run
	S.89°59'E., on a true line.
	Over rolling hills, through scattering pine and oak timber and undergrowth.
5.00	The temp. cor. heretofore set by me.
	Set a pine post, 3 feet long, 4 ins. square, 18 ins. in the ground, for corner No. 26, marked 26 H E S 73 on the N.W. face; raise a mound ofnstone and earth around post; from which
	A pine, 16 ins. diam., bears N.35°E., 46 lks. dist., marked 26 H E S 73 B T
	A pine, 10 ins. diam., bears S.12°E., 113 lks. dist. marked 26 H E S 73 B T
	A pine, 10 ins. diam., bears S.60°W., 65 lks. dist., marked 26 H E S 73 B T
	A pine, 12 ins. diam., bears N.6°W., 23 lks. dist., marked 26 H E S 73 B T Variation 13°43'E.
	Thence I run
	North, on a true line.
	Over rolling hills, through scattering pine timber and dense undergrowth.
5.00	The temp. cor. heretofore set by me.
	Set a sandstone, 24x12x7 ins., 12 ins. in the ground, for corner No.27, marked 27 H E S 73 on the N.W. face; and C C on E. face; from which
	A pine, 6 ins. diam., bears N.30°E., 62 lks. dist., marked 27 H E S 73 C C B T
	A pine, 6 ins. diam., bearsN.58°E., 47 lks. dist., marked 27 H E S 73 C C B T
	An oak, 8 ins. diam., bears S.30°W., 199 lks. dist., marked 27 H E S 73 C C B T
	An oak, 8 ins. diam., bears S.42°W., 183 lks. dist., marked 27 H E S 73 B T Variation 13°43'E.
	This corner on line bet. secs. 13 and 24.
	Thence I run
	S.89°59'E., on a true line.
	Over broken northern slope of hill side, through scattering pine and oak timber and undergrowth.
5.77	The cor of secs. 13 and 24, corner No. 1 of this survey.

April 4, 1913. At 2 h.00m.,p.m.,l.m.t., I set the solar telescope at a decl. angle of 5°43', set off 34°12'N. on the lat. arc, and determine a true meridian with the solar at the corner No.6 H.E.S.73 C.C.

Variation 13°43'E.

	Thence I run
	S 15°24'W., on the eastern side of the Forest Service road as listed and delineated on the plat thereof furnished by the surveyor general.
25.89	Forest Service road corner No.4
25.94	Corner No.19 H.E.S. 73 ~~C.C.~~
	Thence I run West
	West.
1.00	Corner No.18 H.E.S. 73 ~~CC~~
	Thence I run
	N.15°24'E.
.05	Forest Service road corner No.3.
25.94	Corner No. 7 H.E.S. 73 C.C.

Improvements.

The claimant has erected a ten room adobe dwelling with a plastered exterior and a porch running along the south, east and west sides. It is well finished with native pine lumber and shingled roof. From Cor. No.11 this house bears S.35°W., 6 chs. dist.

A barn about 40 feet square with adjacent sheds and corrals, from corner No. 11 bears S.21°E., 6 chs. dist.

From corner No.11 a storage reservoir covering about 1/4 acre bears S.63°W., 7 chs. dist.

From corner No. 10 a reservoir of water covering about twelve square rods bears S.85°E., 4 chs. dist.

Nearly all of this claim within the boundaries of sec. 13 is under cultivation and seeded to small grain; also that portion lying west ~~terly~~ from the house has been recently cultivated and seeded.

The whole claim is well fenced.

Areas

Tract "A" within Sec.13. 13.24 Acres

Tract "A" within Sec.24 13.61 "

Tract "B" within Sec. 24 36.39 "

Excepted road strip, 2.50 Acres 63.24 Acres

See attached sheets.

LOCATION.

This claim is situated in Secs. 13 and 24 of T.10 N., R. 20 E., (rejected survey by Chas. E. Perkins, under Contract No. 40), within the Sitgreaves National Forest, in Navajo County, Arizona.

FINAL OATHS FOR SURVEYS.

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LIST OF NAMES.

A list of the names of the individuals employed by Charles E. Perkins, United States Mineral Surveyor, to assist in running, measuring and marking the lines, corners, and boundaries described in the foregoing field notes of the survey of the Homestead Entry claim of Hiram W. Hopen described as H. E. No. 014761, List No. 3-776

and showing the respective capacities in which they acted.

William Young	Chainman.
Don Young	Chainman.
Joseph Young	Axman.
Flagman.	

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We, William Young, Don Young and Joseph Young, do solemnly swear that we assisted Charles E. Perkins, United States Mineral Surveyor, in marking the corners and surveying the boundaries of the Homestead Entry claim of Hiram W. Hopen, of Pinedale, Arizona, described as SE1/4 SE1/4SE1/4, SE1/4 SW1/4 SE1/4 SE1/4, Sec.13, and NW1/4 NE1/4 NE1/4 NE1/4, NW1/4 NE1/4 NE1/4, W1/2 SW1/4 NE1/4 NE1/4, SE1/4 NW1/4 NE1/4, S1/2 SW1/4 NW1/4 NE1/4, N1/2 N1/2 SW1/4 NE1/4, NE1/4 SE1/4 NW1/4, Sec. 24, T.10 N., R.20 E., G. and S.R. B. and M. - H.E. No. 014761, List No. 3-776 represented in the foregoing field notes as having been surveyed by said mineral surveyor and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, faithfully and correctly executed, and the corner and boundary monuments established according to law and the instructions furnished by the United States Surveyor General for Arizona.

William Young
Chainman.

Don Young
Chainman.

Don Young
Axman.

Joseph Young
Flagman.

Subscribed and sworn to by the above named persons before me this 4 day of April, 1913

(Seal)

Charles E. Perkins
U.S.D.S.

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Holbrook, Arizona,

April 6, 1913.

Hon. Frank S. Ingalls,

United States Surveyor General of Arizona.

Phoenix, Arizona.

Sir:

Relative to the final oaths of the assistants in the survey of the Homestead Entry No. 73, I would say that there was no officer authorized to administer oaths within sixty-five miles of the tract surveyed, and as great delay, expense and inconvenience would result otherwise, I was obliged to administer the oaths.

Very respectfully,

Charles E Perkins

FINAL OATH OF U.S. MINERAL SURVEYOR.

I, Charles E. Perkins, U. S. Mineral Surveyor, do solemnly swear that, in pursuance of instructions received from the United States Surveyor-General of Arizona, dated June 24, 1912 & Aug.15,1912, I have, in strict conformity to the laws of the United States, the official regulations and instructions thereunder, and the instructions of said Surveyor-General, faithfully and correctly executed the survey of the Homestead Entry Claim of Hiram W. Hopen, described as H. E. No. 014761, List No. 3-776, situate in the Sitgraves National Forest, Navajo County, Arizona, and designated as Homestead Entry Survey No. 73, as represented in the foregoing field notes, which accurately show the boundaries of said Homestead Entry claim as distinctly marked by monuments on the ground, and described in List No. 3-776, as incorporated in the instructions for the survey received from the Surveyor-General, and that all the corners of said survey have been established and perpetuated in strict accordance with the law, official regulations, and instructions thereunder; and I do further solemnly swear that the foregoing are the true and original field notes of said survey and my report therein.

Charles E Perkins
U. S. Mineral Surveyor.

Subscribed and sworn to by the said Charles E Perkins, U. S. Mineral Surveyor, before me, J E Cox a Notary Public, this 26th day of April A D, 1913

(SEAL)

J E Cox
Notary Public

My Commission Expires Feb. 23, 1916.

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DESCRIPTION OF SURVEY.

Sitgreaves National Forest.

SE¼SE¼SE, SE¼SW¼SE¼SE¼, Sec. 13, NW¼NE¼NE¼NE¼, NW¼NE¼NE¼, W½SW¼NE¼NE¼, SE¼NW¼NE¼, S½SW¼NW¼NE¼, N½N½SW¼NE¼, NE¼SE¼NW¼ Sec. 24, T. 10 N., R. 20 E., except a strip of land for a road 1 chain wide described as follows; Bebinning at a point 15½ chains west of the northwest corner of Sec. 24, T. 10 N., R. 20 E., extending thence one half chain on either side of a line running S. 17° W. 26.04 chains. This description is in accordance with the unapproved survey of Charles E. Perkins under contract No. 40. Said tract was listed upon the application of H. W. Hopen, Pinedale, Arizona; List 3-776. 65 acres. Preference right of entry to June 29, 1911.

U. S. SURVEYOR-GENERAL'S FINAL CERTIFICATE

ON FIELD NOTES.

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DEPARTMENT OF THE INTERIOR,

Office of U. S. Surveyor-General,

Phoenix, Arizona, June 24, 1914.

I, U. S. Surveyor-General for the District of Arizona, do hereby certify that the foregoing transcript of the Field Notes, Return and Approval of the Survey of the Homestead Entry Claim of Hiram W. Hopen, described as Homestead Entry No. 014761, Phoenix, Arizona, Land Office, based on List No. 30776, situated in the Sitgreaves National Forest, Arizona, in Secs. 13 and 24, T. 10 N., R. 20 E., unsurveyed, and designated as Homestead Entry Survey No. 73, have been correctly copies from the originals on file in this office; that said Field Notes furnish such an accurate description of said Homestead Entry Claim as will, if incorporated into a patent, serve fully to identify the premises, and that such reference is made therein to natural objects or to permanent monuments as will perpetuate and fix the locus thereof.

Frank S. Ingalls
U. S. Surveyor General
for Arizona.

SURVEYOR-GENERAL'S CERTIFICATE OF APPROVAL

OF

FIELD NOTES AND SURVEY OF HOMESTEAD ENTRY CLAIM.

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DEPARTMENT OF THE INTERIOR,

Office of U. S. Surveyor-General,

Phoenix, Arizona, June 24, 1914.

I, U. S. Surveyor-General for the District of Arizona, do hereby certify that the foregoing and hereto attached Field Notes and Return of the Survey of the Homestead Entry Claim of Hiram W. Hopen, described as Homestead Entry No. 014761, Phoenix, Arizona, Land Office, based on List 3-776, situated in the Sitgreaves National Forest, Arizona, in Secs. 13 and 24, T. 10 N., R. 20 E., unsurveyed, designated as Homestead Entry Survey No. 73, executed by Charles E. Perkins, U. S. Deputy Surveyor, April 2 - 4, 1913, under my instructions dated June 24 and August 15, 1912, have been critically examined and the necessary corrections and explanations made and the said Field Notes and Return and the Survey they describe are hereby approved. A true copy of the copy of the Field Notes of the preliminary survey of said Homestead Entry Claim by the Department of Agriculture is included in the Field Notes.

Frank S. Ingalls
U. S. Surveyor-General for
Arizona.

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