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MAR 2 - 1917

JUN 25 1917

U. S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE

428

FIELD NOTES

OF

HOMESTEAD ENTRY SURVEY NO. 428

SITUATED IN THE TONTO NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

In Section 12 , unsurveyed, Township 9 N. , Range 9 E.

In Section 13 , unsurveyed, Township 9 N. , Range 9 E.

of the

Gila and Salt River Base and Meridian.

State of

ARIZONA

Applicant for listing O. Guy Barkdall,
 Residence Payson, Arizona
 Application No. 70 , dated September 4 , 1907
 List No. 1209 , dated March 3 , 1908

Applicant for survey Napoleon W. Chilson,
 Residence Payson, Arizona
 H. E. No. 016029 , dated November 15 , 1911
 Office
 Land District Phoenix, Arizona

Survey executed by Walter G. Turley, Surveyor - Forest Service
[Forest Service Title.]
 Under special instructions dated November 4 , 1915
 Survey commenced January 18 , 1916
 Survey completed January 20 , 1916
 Under Acts of June 11, 1906 and March 4, 1915

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OATH OF ASSISTANTS

We hereby certify that we assisted **Walter G. Turley,**
Surveyor - Forest Service in surveying all those
[Forest Service Title.]

parts or portions of Homestead Entry Survey No. **428**, 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.

Charles H. Baecht, Chairman
Ferry D. Lewis, Chairman

Subscribed and sworn to before me this *twenty eighth* day of
March, 19*16*. *Walter G. Turley*
Surveyor Forest Service

OATH OF SURVEYOR

I, **Walter G. Turley,** **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
November 4, 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 Patent, No. **1209**, dated **March 3**, 19**08**, for
the same to be known as Homestead Entry Survey No. **428**,
situated within the **TONTO** National Forest, in
un surveyed Section **12**, Township **9 N.**, Range **9 E.**, and
un surveyed Section **13**, Township **9 N.**, Range **9 E.**,

of the **G. and S. R. B. and** 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.

Walter G. Turley
Surveyor Forest Service
[Forest Service Title.]

Subscribed and sworn to before me this *8th* day of
April, 19*16*.



8-2349

Elsie C. Myers
Notary Public

My Commission expires April 20, 1918.

TONTO NATIONAL FOREST

STATE OF ARIZONA

Chains

Applicant for listing O. Guy Barkdall; Application No. 70, dated September 4, 1907; List No. 1209, dated March 3, 1908; Homestead Entry No. 016029, made in the Phoenix Land Office on November 15, 1911 by Napoleon W. Chilson whose post office address is Payson, Arizona.

Surveyed under Acts of June 11, 1906 and March 4, 1915, together with special instructions from the Surveyor General for Arizona, dated November 4, 1915, and designated as Homestead Entry Survey No. 428.

Situated in what will probably be, when surveyed, secs. 12 and 13, T. 9 N., R. 9 E., Gila and Salt River Base and Meridian, within the Tonto National Forest, Arizona.

Survey commenced January 18, 1916, and executed with a W. and L. E. Gurley light mountain transit No. 12953, provided with prism eye piece, stadia wires, vertical circle and Burt solar attachment. The horizontal limb of the transit has two double verniers placed opposite each other and graduated to single minutes of arc, which is also the graduation upon the verniers of the latitude and declination arcs.

I test the adjustments of the transit and solar attachment and make necessary corrections.

All distances are horizontal, and were reduced from measurements made directly on the slope with a 500 link steel tape graduated to links and tenths. The slope angles were determined with a clinometer, the vernier of which reads to degrees.

January 18, 1916.

I set up my transit over cor. to secs. 7, 12, 13 and 18,

Chains

T. 9 N., Rs. 9 and 10 E., hereinafter described, and, with telescope direct, I observe Polaris in accordance with instructions at 7h. 48m. p.m., l.m.t., and mark the direction thus determined with a tack in a stake set firmly in the ground 5.00 chs. N. of my station, in Lat. $34^{\circ} 07' 50''$ N. and Long. $111^{\circ} 22' 37''$ W., from special instructions from the Surveyor General.

Astron. l.m.t. obsn., January 18, 1916, 7h. 48.0m.

Astron. l.m.t. U.C. Pol., Jan. 18, 1916, 5h. 41.1m.

Hour Angle Pol. at obsn., 2h. 06.9m.

Azimuth Pol. at obsn., $0^{\circ} 43' 54''$ W.

With my transit set up over cor. to secs. 7, 12, 13 and 18, hereinafter described, and with telescope reversed in altitude and azimuth, at 8h. 00m. p.m., l.m.t., on the same date, I again observe Polaris in accordance with instructions, and mark the direction thus determined with a tack in a stake set firmly in the ground 5.00 chs. N. of my station.

Astron. l.m.t. obsn., January 18, 1916, 8h. 00.0m.

Astron. l.m.t. U.C. Pol., Jan. 18, 1916, 5h. 41.1m.

Hour angle Pol. at obsn., 2h. 18.9m.

Azimuth of Pol. at obsn., $0^{\circ} 47' 30''$ W.

January 19, 1916.

I turn off $0^{\circ} 44'$, the azimuth of Polaris, to the E. from its direction at 7h. 48m. p.m., l.m.t., January 18, 1916; and mark the line thus determined with a tack in a stake set firmly in the ground 5.00 chs. N. of my station.

I also turn off $0^{\circ} 47-1/2'$, the azimuth of Polaris, to

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Chains

the E. from its direction at 8h. 00m. p.m., l.m.t., and mark the line thus determined with a tack in a stake set firmly in the ground 5.00 chs. N. of my station. This line falls $0^{\circ} 00' 18''$ of measured arc to the W. of the line previously established.

I mark the mean of these two lines with a tack in a stake set firmly in the ground 5.00 chs. N. of my station; and from the corresponding meridian all the courses stated in these field notes were deflected and referred by continuous sustained angulation.

Latitude $34^{\circ} 07' 50''$ N., Longitude $111^{\circ} 22' 37''$ W. at cor. No. 1 of this survey, by account from the special instructions of the Surveyor General. The sun was obscured at apparent noon, therefore a latitude observation was not possible.

My watch is set for Standard 105th. Meridian time, from which I subtract 25m. 30s. for l.m.t.

The observed magnetic declination at cor. No. 1, January 19, 1916 is N. $15^{\circ} 00'$ E. at 8h. 00m. a.m., which reduced gives N. $14^{\circ} 59'$ E.

RETRACEMENT

Thence North.

On a random line from cor. to secs. 7, 12, 13 and 18, T. 9 N., Rs. 9 and 10 E. (accepted), which is a red quartzite stone 9 x 9 x 9 ins. above ground, chiseled 2 notches on N. edge and 4 notches on S. edge, from which:

A 5 in. juniper bears N. $64^{\circ} 10'$ E., 50 lks., blazed and scribed T 9 N R 10 E S 7 B T.

Chains
 A 6 in. juniper bears S. 54° 30' E., 334 lks.,
 blazed and scribed T 9 N R 10 ES 18 B T.
 A 9 in. cedar bears S. 43° 45' W., 442 lks.,
 blazed and scribed T 9 N R 9 E S 13 B T.
 A 14 in. juniper bears N. 41° 23' W., 215 lks.,
 blazed and scribed T 9 N R 9 E S 12 B T.

40.05 I fall 17-1/2 lks. to the West of 1/4 cor. to secs. 7 and
 12, which is a granite stone 12 x 10 x 6 ins. above
 ground, marked and witnessed as described by the Sur-
 veyor General.

Thence S. 0° 15' W.

On a true line.

30.04 I mark temporary NW. cor. SW/4 SW/4 SW/4, sec. 7.
 40.05 Cor. to secs. 7, 12, 13 and 18, heretofore described.

Thence South.

From cor. to secs. 7, 12, 13 and 18.

40.12 I fall 17-1/2 lks. E. of the 1/4 sec. cor. to secs. 13
 and 18, which is a granite stone 12 x 8 x 8 ins. above
 ground, chiseled 1/4 on W. face, from which:

A 6 in. desert willow bears N. 50° 00' W., 9 lks.,
 blazed and scribed 1/4 S 13 B T.

A 6 in. desert willow bears S. 71° 00' E., 57 lks.,
 blazed and scribed 1/4 S 18 B T.

Thence N. 0° 15' E.

On a true line.

40.12 Cor. to secs. 7, 12, 13 and 18, heretofore described.

BOUNDARIES OF CLAIM

Beginning at cor. No. 1.

Identical with cor. to secs. 7, 12, 13 and 18, hereto-
 fore described. I chisel cor. stone + on top for cor.

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Chains

No. 1 of this survey, and alongside drive a cedar stake
scribed 1 - H E S 428; and raise a mound of stone 2 ft.
base, 1-1/2 ft. high W. of cor., from which:

A 10 in. cedar bears N. 40° 38' W., 215 lks.,
blazed and scribed 1 H E S 428 + B T.

A 12 in. cedar bears N. 86° 00' W., 430 lks.,
blazed and scribed 1 H E S 428 + B T.

Thence S. 0° 15' W.

Along W. bdy. sec. 18, T. 9 N., R. 10 E. Desc. SW.
mesa slope 5 ft. in open.

14.70 Edge of mesa bears NW. and SE. Desc. SW. slope 20 ft.

16.55 Wagon road bears NW. and SE.

17.12 Wire fence bears NW. and SE. Enter cultivated field.

33.65 Leave cultivated field, bears NW. and SE.; continue
in undergrowth.

35.76 Wire fence bears E. and W.

36.25 Left bank Rye Creek, 3 ft. high, course ESE. Enter
stream, 200 lks. wide.

39.60 Right bank Rye Creek, 3 ft. high.

40.12 To cor. No. 2.

Identical with the 1/4 sec. cor. to secs. 13 and 18,

heretofore described. I adopt the 1/4 sec. cor. to

secs. 13 and 18 as cor. No. 2 of this survey, and chis-

el + at the point on top of the stone. I drive a stake

scribed 2 H E S 428 along side and raise a mound of

stone 2 ft. base, 1-1/2 ft. high W. of cor., from which:

A 7 in. ash bears N. 38° 20' W., 22 lks.,

blazed and scribed 2 H E S 428 + B T.

A 6 in. ash bears S. 1° 10' W., 57 lks.,

blazed and scribed 2 H E S 428 + B T.

Thence West.

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Over bottom in undergrowth.

Chains
 2.76 Leave bottom, bears NW. and SE. Asc. NE. slope 40 ft.
 10.00 To cor. No. 3.

I chisel (+) on a stone 4 x 3 x 2 ins., and deposit it 15 ins. in the ground, over which I set a quartzite stone 25 x 12 x 6 ins., 15 ins. in the ground, chiseled + at the point and 3 - H E S 428 on the NE. face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high NE. of cor., from which:

A 12 in. cedar bears N. 25° 50' W., 185 lks., blazed and scribed 3 H E S 428 + B T.

No other witnesses available. Pits impracticable.

Thence N. 0° 15' E.
 Desc. open NE. slope of mesa 5 ft.

1.90 Edge of mesa bears E. and W. Desc. brushy N. slope 30 ft.

4.10 Ravine, course E. Asc. S. slope 25 ft.

7.30 Spur bears E. and W. Desc. NE. slope 25 ft.

10.80 Foot of slope bears NW. and SE. Continue over bottom.

20.06 To cor. No. 4.

I chisel (+) on a stone 4 x 3 x 2 ins., and deposit it 20 ins. in the ground, over which I set a sandstone 30 x 12 x 5 ins., 20 ins. in the ground, chiseled (+) at the point and 4 - H E S 428 on the NE. face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high NW. of cor., from which:

A 7 in. ash bears N. 64° 45' W., 173 lks., blazed and scribed 4 H E S 428 + B T.

A 14 in. sycamore bears S. 63° 10' W., 189 lks., blazed and scribed 4 H E S 428 + B T.

A 16 in. cottonwood, bears N. 3° 45' E., 71 lks.,

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blazed and scribed 4 H E S 428 + B T.

Chains
Note: It was impracticable to set Md. in any other position.
January 19, 1916.

January 20, 1916.

Thence West.
Over brushy bottom.

3.82 Leave bottom, bears NW. and SE. Asc. NW. slope 20 ft,
6.50 Spur bears N. and S. Desc. N. slope 10 ft.
12.40 Cease descending and asc. NE. slope 30 ft.
19.94 To cor. No. 5.

I chisel (+) on a stone 4 x 4 x 3 ins., and deposit it 14 ins. in the ground; over which I set a quartzite stone 24 x 8 x 6 ins., 14 ins. in the ground, chiseled (+) at the point and 5 - H E S 428 on the NE. face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high, NE. of cor., from which:

+ on an embedded quartzite stone, 20 x 15 x 8 ins. above ground, bears S. 74° 50' E., 24 lks., chiseled + B R 5 H E S 428.

Pits impracticable. No other witnesses available.

Thence N. 0° 15' E.
Desc. brushy N. slope, 30 ft.

6.40 Ravine, course E. Asc. S. slope 20 ft.
7.90 Top of ascent, bears E. and W. Continue over mesa.
17.50 Wire fence bears NE. and SW.
20.20 Edge of mesa bears E. and W. Desc. N. slope 20 ft.
24.92 Arroyo, 30 lks. wide, banks 3 ft. high, course East.
Asc. S. slope 10 ft.
30.07 To cor. No. 6.

Chains

At which point I chisel (+) on a stone 4 x 3 x 2 ins., and deposit it 14 ins. in the ground; over which I set a quartzite stone 24 x 9 x 5 ins., 14 ins. in the ground, chiseled (+) at the point and 6 - H E S 428 on the SE. face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high SE. of cor., from which:

A 7 in. mesquit bears S. 23° 15' E., 84 lks.,
blazed and scribed 6 H E S 428 + B T.

A 5 in. mesquit bears N. 60° 20' E., 16 lks.,
blazed and scribed 6 H E S 428 + B T.

Thence East.

Over mesa in undergrowth.

6.15 Edge of mesa bears N. and S. Desc. E. slope 15 ft.

11.80' Wire fence bears N. and S. Foot of mesa bears N. and S.
Continue over bottom.

14.05 Rye Creek, 195 lks. wide, banks 2 ft. high, course S.
Continue over brushy bottom.

21.80 Wagon road bears N. and S. Leave bottom bears N. and S.
Asc. W. slope 15 ft.

29.88 To cor. No. 7, and a C. C. on line bet. secs. 7 and 12.

Identical with the NW. cor. SW/4 SW/4 SW/4, sec. 7,
T. 9 N., R. 10 E., marked as heretofore described.

At which point I chisel (+) on a stone 4 x 3 x 2 ins., and deposit it 14 ins. in the ground; over which I set a granite stone 24 x 12 x 6 ins., 14 ins. in the ground, chiseled (+) at the point, C-C on W. face and 7 - H E S 428 on the SW. face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high W. of cor., from which:

A 5 in. juniper bears S. 19° 25' W., 17 lks.,
blazed and scribed 7 H E S 428 + B T.

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A 5 in. cedar bears N. 86° 35' W., 64 lks.,

blazed and scribed 7 H E S 428 + B T.

Thence S. 0° 15' W.

Over open mesa.

10.01 To cor. No. 1, the place of beginning.

AREA

Total Area - - - - - 109.95 acres

IMPROVEMENTS

A frame garage 24 x 12 ft., the long side extending N. and S. and the NE. cor. of which bears S. 60° 30' W., 9.10 chs. from cor. No. 1 of this survey.

Estimated Value - - - - - \$150.00

A frame dwelling, 48 x 40 ft., the long side extending NW. and SE. and the N. cor. of which bears S. 50° 45' W. 9.30 chs. from cor. No. 1 of this survey.

Estimated Value - - - - - \$2500.00

A well, 4 x 4 x 50 ft. deep, over which is a 2 Horse Power gasoline engine and pump, the center of which bears S. 55° 00' W., 10.70 chs. from cor. No. 1 of this survey.

Estimated Value - - - - - \$300.00

A galvanized iron water tank, 6 ft. dia., 12 ft. high on top of a wooden tower 25 ft. high, the center of which bears S. 56° 00' W., 10.40 chs. from cor. No. 1 of this survey.

Estimated Value - - - - - \$100.00

A frame granary 12 x 10 ft., the long side extending NE. and SW. and the N. cor. of which bears S. 36° 15' W., 12.00 chs. from cor. No. 1 of this survey.

Estimated Value - - - - - \$150.00

Chains

A frame stable 50 x 30 ft., the long side extending NW. and SE. and the N. cor. of which bears S. 37° 00' W., 12.70 chs. from cor. No. 1 of this survey.

Estimated Value ----- \$400.00

A cement water trough 12 x 4 ft., the long side extending N. and S. and the N. cor. of which bears S. 43° 00' W., 12.78 chs. from cor. No. 1 of this survey.

Estimated Value ----- \$ 50.00

Approximately 1-1/4 miles of wire fencing.

Estimated Value ----- \$150.00

Approximately 13 acres of cultivated land.

DESCRIPTION

This claim is situated on Rye Creek, which drains Southward into Tonto Creek, and is valuable for general farming.

There is no timber in this section. Cottonwood, sycamore and ash grow along the bottom lands.

The soil is sandy loam and fertile. Good crops of barley are raised without irrigation. The ordinary crops of the temperate zone would grow upon this area with irrigation.

Water flows in Rye Creek practically the entire year.

An abundance of water can be had at approximately 12 ft. below the surface.

This is not reported to be a mineralized section and no townsites, mining, coal or oil claims are known to have been located in conflict with this survey.

Payson post office is 12 miles by wagon road in a North-easterly direction. Globe railway station is 90 miles by wagon road in a southeasterly direction.

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There are no conflicts.

Claim is joined on the East by portion of claimant's entry No. 016029 described by legal subdivisions embracing the NW/4 SW/4 NW/4, S/2 SW/4 NW/4 and N/2 NW/4 SW/4 sec. 18, T. 9 N., R. 10 E.

TRAVERSE

Cor.	Course	Dist.	N	S	E	W
1-2	S. 0° 15' W.	40.12		40.12		0.18
2-3	West	10.00				10.00
3-4	N. 0° 15' E.	20.06	20.06		0.09	
4-5	West	19.94				19.94
5-6	N. 0° 15' E.	30.07	30.07		0.13	
6-7	East	29.88			29.88	
7-1	S. 0° 15' W.	10.01		10.01		0.04
		160.08	50.13	50.13	30.10	30.16
				50.13		30.10
				.00		.06

Error in Lat. and Dep.

Closing error, 1:2668.

Survey completed January 20, 1916.

Walter G. Turley

Surveyor - Forest Service

HOMESTEAD ENTRY SURVEY NO.

NATIONAL FOREST

STATE OF

Chains

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. 428, STATE OF ARIZONA. Napoleon W. Chilson.

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.		N. AREAS.	S. AREAS.
			NORTH.	SOUTH.	EAST.	WEST.				
1-2	S. 0° 15' W.	40.12		40 12		0 18 ⁶	59 82			2399 98 ✓
2-3	West	10.00				10 00	49 66			
3-4	N. 0° 15' E.	20.06	20 06		0 09 ⁰	19 94 ³	39 76	797 59 ✓		
4-5	West	19.94					19 93			
5-6	N. 0° 15' E.	30.07	30 07		0 13 ⁴	0 14	0 14	4 21 ✓		
6-7	East	29.88			29 88 ⁹		30 17			
7-1	S. 0° 15' W.	10.01		10 01		0 04	60 02		600 80 ✓	
		160.08	50 13	50 13	30 10	30 16		801 80	3000 78	
			50 13	50 13	30 13	30 13			801 80	
									2198 98	
									109 95 ✓	Acres.
	Closing error, 1:2668									

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APPROVAL

Office of the United States Surveyor General,

Phoenix, Arizona JUL 19 1917 , 191

The foregoing field notes of Homestead Entry Survey No.

428

executed by *Walter G. Surley, Surveyor* [Forest Service Title.]
under his special instructions, dated *November 4*, 1915, 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.