

ORIGINAL

19
DEC. 16 1918
JUN 23 1915

U. S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE

FIELD NOTES

OF

HOMESTEAD ENTRY SURVEY NO. 322

SITUATED IN THE **PRESCOTT** NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

In Section 4 , unsurveyed, Township 11 N., Range 5 E.

In Section 8 , unsurveyed, Township 11 N., Range 5 E.

In Section 9 , unsurveyed, Township 11 N., Range 5 E.

of the

Gila and Salt River Base and Meridian.

State of

ARIZONA

Applicant for listing **J. R. Alexander,**

Residence **Mayer, Arizona**

Application No. **107** , dated **December 13** , 1911

List No. **3-2499** , dated **April 24** , 1913

Applicant for survey **J. R. Alexander,**

Residence **Mayer, Arizona.**

H. E. No. **023205** , dated **September 16** , 1913

Office,
Land District **Phoenix, Arizona.**

Survey executed by **R. P. A. Johnson,** Surveyor - Draftsman
[Forest Service Title.]

Under special instructions dated **February 11** , 1915

Survey commenced **April 14** , 1915

Survey completed **April 14** , 1915

Under Acts of **June 11, 1906 and June 30, 1914.**

OATH OF ASSISTANTS

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

parts or portions of Homestead Entry Survey No. **322**, 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 D. Hodson, Chairman
W. B. Baer, Chairman

Subscribed and sworn to before me this *twenty third* day of
May, 19 *15*.

R. P. A. Johnson
Surveyor Draftsman

OATH OF SURVEYOR

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

do solemnly swear that, in strict conformity with the special instruc-
tions of the United States Surveyor General for **Arizona**, dated
February 11, 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, No. **3-2499**, dated **April 24**, 19 **13**, for
Patent, under the Act of **June 11**, 19 **06**,
the same to be known as Homestead Entry Survey No. **322**,
situated within the **PRESCOTT** National Forest, in
unsurveyed Section **4**, Township **11 N.**, Range **5 E.**, and
unsurveyed Section **8**, Township **11 N.**, Range **5 E.** and
unsurveyed Section **9**, Township **11 N.**, Range **5 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.

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

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

Elsie C. Myers
Notary Public



TO Peterson

LO:BTR
9182.2

UNITED STATES GOVERNMENT

Memorandum

GDV
9-9-66
201A

TO : Chief, Division of Engineering, Arizona

DATE: September 9, 1966

FROM : Chief, Branch of Title & Records, Arizona Land Office

SUBJECT: Correction of Location of HES 321, 322, 323 on Protraction
Diagram No. 54

The field notes and plats for the subject surveys show that the lands involved are located in, what will be when surveyed, secs. 2, 4, 8, and 9, T. 11 N., R. 5 E. The protraction diagram shows them to be in secs. 19, 20, 21, and 22, said township and range.

Please check the above and advise this office of your findings so that corrections may be made where appropriate and our status records will show the proper information.

C. G. Bazar

TO Bazar

These HES' are properly located on the ~~protraction~~ diagrams

Don V.

W. H. ...

Faint, illegible text, possibly bleed-through from the reverse side of the page.

Handwritten notes or signatures in the lower half of the page, including a large signature that appears to read "John ...".

PRESCOTT NATIONAL FOREST

STATE OF ARIZONA.

Chains

Applicant for listing, J. R. Alexander; Application No. 107, dated December 13, 1911; List No. 3-2499, dated April 24, 1913; H. E. No. 023205, made at Phoenix, Arizona, by J. R. Alexander, dated September 16, 1913.

Surveyed under special instructions from the Surveyor General for Arizona, dated February 11, 1915, and designated as Homestead Entry Survey No. 322.

Situated in unsurveyed T. 11 N., R. 5 E., in what will probably be, when surveyed, Secs. 4, 8 and 9, Gila and Salt River Base and Meridian, Prescott National Forest, Arizona.

Surveyed under the Acts of June 11, 1906 and June 30, 1914.

Survey commenced April 14, 1915 and executed with a Buff and Buff transit.

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

All measurements were made on the slope with a 500 link steel tape and the slope angles determined with a clinometer.

April 14, 1915.

At 9h. 37.8m. a.m., l.m.t., I observe the altitude of the sun for azimuth at cor. No. 1. The reading is set at zero on meridian brought from H. E. S. 321, which was established by observations on Polaris April 12, 1915 and checked by direct solar observation on April 15, 1915. The sun was observed in the lower left and upper right quadrants of the field. My watch is set for local mean time. Latitude, $34^{\circ} 20' N.$, by account from observation on H. E. S. No. 321. Longitude, $111^{\circ} 52' W.$, from special instructions of Surveyor General.

Chains	Telescope	l.m.t.	Horizontal Angle	Vertical Angle
	Direct	9h. 37m. 20s.	60° 08' 30"	49° 18' 30"
	Reversed	9h. 38m. 16s.	60° 43' 00"	48° 55' 30"
	Bearing of object N. 0° 00' 17" W.			

There being no corner of the public land surveys within two miles, I run a tie from cor. No. 1, hereinafter described, as follows: N. 66° W.

9.96 To U. S. L. M. No. 321, H. E. S., in sight, which is a malpais stone 36 x 24 x 10 ins. set in edge of mound of rock 7 ft. dia., by 6 ft. high and chiseled U S L M No 321 H E S on SW. face, whence:

A cross on top rock ledge, chiseled B R - U S L M No 321 H E S, bears N. 28° 51' E., 12 lks. dist.

A juniper 18 ins. dia., scribed U S L M No 321 H E S B T, bears S. 74° 47' W., 73 lks. dist.

Cor. No. 1 H. E. S. 321 bears N. 42° 51' E., 13.74 chs. dist.

Bald Hill bears N. 25° 14' W., approximately 11 miles dist.

Horner Mountain bears N. 2° 12' W., approximately 6-1/2 miles dist.

Highest visable point of Bradshaw Mountains bears S. 78° 32' W.

Junction of Tank and Sycamore Creeks bears N. 76° 14' E., approximately 1-1/2 miles dist.

Estler Peak bears N. 63° 12' W., approximately 10-1/2 miles dist.

Junction of Dry and Sycamore Creeks bears N. 68° W., approximately 5 miles dist.

Junction of Sycamore and South fork of Sycamore Creeks bears S. 63° 40' W., approximately 1 mile dist.

PRESCOTT NATIONAL FOREST

STATE OF ARIZONA

Chains .W2 .43 Chalk Spring bears East. NW. cor. of J. R. Alexander's house bears S. 32° E., approximately 1/4 mile.

Beginning at cor. No. 1. Identical with cor. H-3 of the list survey, which is a malpais boulder 10 x 8 x 6 feet above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. and mark a cross on top of same stone and 1 - H E S 322 on SE. face; and raise a mound of stone 3 ft. base, 2 ft. high, SE. of cor., from which:

A cross on malpais boulder 6 x 4 x 2 ft. above ground, chiseled B R. 1 - H E S 322, bears S. 12° 14' W., 243 lks. dist.

A cross on malpais boulder 8 x 4 x 4 ft. above ground, chiseled B R. 1 H E S 322, bears S. 70° 17' W., 85 lks. dist.

Lat. 34° 20' N., by account from cor. No. 1, H. E. S. 321. Long. 111° 52' W., by account from special instructions. Mag. Va. at 9:00 a.m., 14° 45' E. Mean mag. decl. 14° 43' E.

Thence N. 88° 25' E. Descend 40 ft. in open to cor.; Fence bears NE. and SW. To cor. No. 2. Identical with cor. H-2 of the list survey, a juniper post marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. and at this point I set a porphyry stone 24 x 14 x 6 ins., 14 ins. in the ground, over a small stone marked with a cross, chiseled 2 - H E S 322 on SW. face; and raise

Chains	<p>a mound of stone 2 ft. base, 1-1/2 ft. high, SW. of cor., from which:</p> <p>A juniper 12 ins. dia., bears N. 67° 01' W., 253 lks. dist., scribed 2 H E S 322 B T.</p>
	<p>A cross on a malpais rock 14 x 8 x 8 ins. above ground, chiseled B R. 2 H E S 322, bears S. 38° 14' E., 23 lks. dist.</p> <p>Cor. No. 1 H. E. S. 321 of Benjamin J. Stewart bears N. 27° 30' E., 15.68 chs. dist. by direct measurement.</p>
	<p>Thence S. 7° 31' W. Ascend 120 ft. in oak brush to point of hill.</p> <p>8.00 Top of ridge, descends 100 ft. to creek. Ridge bears E. & W.</p> <p>13.70 Fence bears S. 60° E. and N. 60° W.</p> <p>13.75 Water course 5 lks. wide, course NW. Ascend 40 ft. in timber to cor.</p> <p>16.90 Fence bears N. 75° E. and S. 75° W.</p> <p>17.12 To cor. No. 3. Which is a point 3 lks. North of cor. H-1 of the list survey, a 24 in. oak marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. and at the point for cor. No. 3, I set a sandstone 24 x 16 x 6 ins., 14 ins. in the ground, over a small stone marked with a cross, chiseled 3 H E S 322 on NW. face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high, NW. of cor., from which:</p> <p>A wild cherry, 6 ins. dia., bears N. 19° 56' W., 19 lks. dist., scribed 3 H E S 322 B T.</p> <p>An oak tree, 8 ins. dia., bears N. 2° 26' W., 36 lks. dist., scribed 3 H E S 322 B T.</p> <p>Crystal Spring bears N. 47° 29' W., 50 lks. dist.</p>
	<p>Thence S. 72° 56' W.</p>

PRESCOTT NATIONAL FOREST

STATE OF ARIZONA

Chains .. Ascend 50 ft. along N. slope in timber. A

8.00 Top ascent, descend 150 ft. along NW. slope in timber
and oak brush to cor.

26.10 To cor. No. 4.

Identical with cor. H-5 of the list survey, which is a juniper post marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. and at this point I set a sandstone 26 x 12 x 6 ins., set 14 ins. in the ground, over a small stone marked with a cross, chiseled 4 - H E S 322 on the N. face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high, N. of cor., from which:

An oak, 6 ins. dia., bears N. 63° 41' W.,
132 lks. dist., scribed 4 H E S 322 B T.

An oak, 4 ins. dia., bears N. 21° 47' E.,
36 lks. dist., scribed 4 H E S 322 B T.

Thence N. 71° 30' W. x 08

Descend 50 ft. in timber to Creek. Fence on line.

1.25 Enter Crystal Spring creek, 15. lks. wide, banks 3 ft. high. --- Continue in creek. Course N. 71° 30" W.

3.00 Fence cor. Fence bears SW. and along line.

4.45 Leave creek, course West.

5.50 Leave fence, bears NE.

7.74 To cor. No. 5.

Which is a point S. 8° 20' W., 4 lks. dist. from cor. H-4 of the list survey, a juniper tree, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. and at the point for cor. No. 5 I set a sandstone 24 x 16 x 6 ins., 14 ins. in the ground, over a small stone marked with a cross, chiseled 5 - H E S 322 on the E. face; and raise a mound of stone 3 ft. base, 1-1/2 ft. high, E. of cor., from which:

Chains A juniper 6 ins. dia., bears S. 71° 30' W.,
 20 lks. dist., scribed 5 H E S 322 B T.
 A juniper 6 ins. dia., bears N. 8° 20' E.,
 4 lks. dist., scribed 5 H E S 322 B T.

Thence N. 51° 02' E.
 Ascend 130 ft. along SE. slope in timber to cor.
 14.50 Leave timber, bears SSE. and NNW.
 34.84 To cor. No. 1, the place of beginning.

Total area - - - - - 40.60 acres

IMPROVEMENTS

The improvements made upon and for the benefit of this claim, and belonging to the claimant, consist of the following:

A tent dwelling house, 20 x 12 ft., the long side of which bears E. and W. and NE. cor. of which bears S. 1° 04' E., 12.10 chs. dist. from cor. No. 1.

Value ----- \$ 50.00

A store house, 12 x 10 ft., the long side of which bears E. and W. and NW. cor. of which bears S. 1° 00' W., 12.51 chs. dist. from cor. No. 1.

Value ----- \$ 50.00

A stable, 20 x 12 ft., the long side of which bears E. and W. and NE. cor. of which bears S. 7° 08' W., 14.33 chs. dist. from cor. No. 1.

Value ----- \$100.00

A corn crib 12 x 10 ft., the long side of which bears E. and W. and NW. cor. of which bears S. 12° 36' E., 4.50 chs. dist. from cor. No. 1.

Value ----- \$ 25.00

THE PRESCOTT NATIONAL FOREST

STATE OF ARIZONA

Chains A chicken house 22 x 6 ft., the long side of which bears
N. and S. and NW. cor. of which bears S. 48° 04' E.,
2.90 chs. dist. from cor. No. 1.
Value - - - - - \$10.00

There is approximately 3/4 of a mile of wire fence.
Value - - - - - \$90.00

DESCRIPTION

Situated in Crystal Spring gulch at foot of Mt. Thomas
and at an elevation of 5,300 ft. General slope to SW.
with NW. and SE. exposures.

Crystal Spring furnishes sufficient water for domestic
use and will furnish water for the irrigation of approx-
imately 20 acres.

There is approximately 8 acres in cultivation and orchard.
A deep loam covers central portion of the tract which de-
creases in depth as it approaches the boundaries which
are on rocky hillsides. The SE. exposure and the bot-
tom is open on northern portion of tract. The re-
mainder of tract is covered with oak brush and juniper
of small value. The southern portion of bottom is
covered with sycamore, oak, walnut, juniper and alder.
I saw no indication of mineral upon this claim.

CONFLICTS AND ADJOINING CLAIMS

There are no conflicting or adjoining claims. H.E.S.
No. 321 of Benjamin J. Stewart is approximately 15 chs.
to the North.

The power line of the Arizona Power Company as constructed
on the ground lies approximately 2-3/4 miles to North.
H.E.S. No. 44 is several miles to East on Houston Creek.
Mayer, the nearest railroad and post office is approxi-
mately 25 miles to west, 10 miles of which is over poor
wagon road.

PRESCOTT NATIONAL FOREST

STATE OF ARIZONA

Chains	Cor.	Course	Dist.	N	S	E	W
1-2	N.	88° 25' E.	7.48	0.21		7.48	
2-3	S.	7° 31' W.	17.12		16.97		2.24
3-4	S.	72° 56' W.	26.10		7.66		24.95
4-5	N.	71° 30' W.	7.74	2.46			7.34
5-1	N.	51° 02' E.	54.84	21.91		27.09	
			93.28	24.58	24.63	34.57	34.53
					24.58	34.53	

Error in Lat. and Dep. .05 .04

Closing error 1:1457

Survey completed April 14, 1915.

R. L. Johnson

Surveyor - Draftsman

CONFLICTS AND ADJOINING CLAIMS

There are no conflicting or adjoining claims. H. S. No. 321 of Benjamin J. Stewart is approximately 1/4 mile to the north.

The power line of the Arizona Power Company as constructed on the ground lies approximately 3-3/4 miles to north.

H. S. No. 44 is several miles to east on Houston Creek. The nearest railroad and post office is approximately 10 miles to west, 10 miles of which is over poor wagon road.

Chains

Computation for Meridian.

Lat. $34^{\circ} 20' 50''$. Long. $111^{\circ} 52' W$. Elevation 5300

Observation April 14.

Telescope	Time	Horizontal Angle	Vertical Angle
• Direct	9h. 37m. 20s.	$60^{\circ} 08' 30''$	$49^{\circ} 18' 30''$
Reverse	9h. 38m. 16s.	$60^{\circ} 43'$	$48^{\circ} 55' 30''$
	2) 19h. 15m. 36s.	$120^{\circ} 51' 30''$	$98^{\circ} 14' 00''$
	9h. 37m. 48s.	$60^{\circ} 25' 45''$	$49^{\circ} 07'$
	4h. 32m. 32s.		$42''$ ref. cor.
	5h. 5m. 16s.	True alt.	$49^{\circ} 06' 18''$

Dec. = $9^{\circ} 11' 40'' N$.

$$\text{Cos. Q.} = \frac{+ \sin. 9^{\circ} 11' 40''}{\cos. 34^{\circ} 20' 50'' \times \cos. 49^{\circ} 06' 18''}$$

$$\tan. 34^{\circ} 20' 50'' \times \tan. 49^{\circ} 06' 18''$$

$$\log. \sin. = 9^{\circ} 11' 40'' = - 9.203537$$

$$\log. \cos. = 34^{\circ} 20' 50'' = + 9.916788$$

$$\log. \cos. = 49^{\circ} 06' 18'' = + 9.816025$$

$$9.470724 = \log. .29561$$

$$\log. \tan. = 34^{\circ} 20' 50'' = 9.834651$$

$$\log. \tan. = 49^{\circ} 06' 18'' = 10.062445$$

$$9.897096 = \log. .78904$$

$$\text{Cos. Q.} = .49343$$

$$Q. = 60^{\circ} 26' 12''$$

Bearing of object N. $0^{\circ} 00' 17'' W$.

FEDERAL NATIONAL FOREST

STATE OF ILLINOIS

Chains

Computation for Meridian

Chains

Lat. 34° 20' 50" Long. 111° 58' W. Elevation 3300

Observation April 14.

Telescope	Time	Horizontal Angle	Vertical Angle
Direct	9h. 37m. 30s.	60° 08' 30"	49° 18' 30"

Reverse	9h. 38m. 15s.	60° 43'	48° 55' 30"
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2) 1st	10m. 35s.	120° 51' 30"	38° 14' 00"
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2d	37m. 42s.	60° 25' 45"	49° 07'
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4h. 32m. 32s.	41"	ref. cor.
5h. 5m. 15s.	3h. 5m. 15s.	True alt. 49° 08' 18"

Dec. = 9° 11' 40" W.

$$\cos. \phi. = \frac{\cos. 34^{\circ} 20' 50'' \times \cos. 49^{\circ} 08' 18''}{\cos. 9^{\circ} 11' 40''}$$

$$\tan. 34^{\circ} 20' 50'' \times \tan. 49^{\circ} 08' 18''$$

$$\log. \sin. = 9^{\circ} 11' 40'' = - 9.202527$$

$$\log. \cos. = 34^{\circ} 20' 50'' = + 9.916788$$

$$\log. \cos. = 49^{\circ} 08' 18'' = + 9.816025$$

$$9.470724 = \log. \text{base}$$

$$\log. \tan. = 34^{\circ} 20' 50'' = 9.824651$$

$$\log. \tan. = 49^{\circ} 08' 18'' = 10.022445$$

$$9.287026 = \log. \text{base}$$

$$\cos. \phi. = 49.343$$

$$\phi. = 80^{\circ} 25' 30''$$

Bearing of object N. 0° 00' 15" W.

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. 322, STATE OF Arizona

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.	S. AREAS.
			NORTH.	SOUTH.	EAST.	WEST.			
1-2	N. 88° 25' E.	7.48	0 21		7 48		61 62	12 94	
2-3	S. 7° 31' W.	17.12		16 97		2 24	66 85		1133 78
3-4	S. 72° 56' W.	26.10		7 66		24 95	39 64		302 85
4-5	N. 71° 30' W.	7.74	2 46			7 34	7 34	18 05	
5-1	N. 51° 02' E.	34.84	21 91		27 09		27 07	593 65	
		93.28	24 58	24 63	34 57	34 52		624 64	1436 63
			24 60	24 60	34 55	34 55		624 64	624 64
	Closing error 1:1457							201 811 99	40 599 Acres

31

EMH

APPROVAL

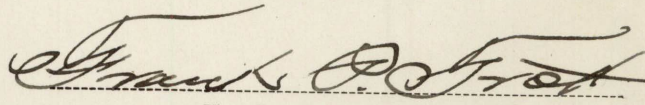
Office of the United States Surveyor General,

Phoenix, Arizona, August 14, 1917

The foregoing field notes of Homestead Entry Survey No.

322

executed by R. P. A. Johnson, Surveyor-Draftsman, [Forest Service Title.]
under his special instructions, dated February 11, 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.