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U. S. DEPARTMENT OF AGRICULTURE FOREST SERVICE

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8-2349

FIELD NOTES

OF

HOMESTEAD ENTRY SURVEY NO. 224 SITUATED IN THE

APACHE NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

in Section 4, unsurveyed, Township 1 S., Range 29 E. ------_______

Gila and Salt River Base and Meridian.

· ARIZONA

Survey executed by C. A. Long	g, Surveyor-Forest Service.
Under special instructions dat	ed August 6 , 1914
	November 26 , 1914
	November 26 , 1914
	1906 and June 30, 1914.
Applicant for listing F. B	arkhurst.
Residence	Metcalf, Arizona.
Application No. 110 , dated	March 10 , 1910
List No. 3-1187 , dated	
Applicant for survey Char	
Residence	
H. E. No. 016756 , dated	
Land district Phoenix,	

OATH OF ASSISTANTS

We hereby certify that we assisted C. A. Long. Surveyor-Forest Service in surveying all those parts or portions of Homestead Entry Survey No. 224 , in unsurveyed Section 4 , Township 1 S. , Range 29 E. , surveyed Section , Township , Range . , . , . , . , . , . , . , . , . , .
of the G. & S.R.B. & meridian, 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.
Note: It would have been very expensive and inconvenient to appear before an officer to administer oaths to Assistants; hence, they were taken by the Surveyor. Chainman. The Count of Chainman. The Chainman.
Subscribed and sworn to before me this 26th day of November , 19 14. Surveyor-Forest Service.
OATH OF SURVEYOR
I, C. A. Long, Surveyor-Forest Service, do solemnly swear that, in strict conformity with the special instructions of the United States Surveyor General for Arizona, dated August 6, 1914, and the laws of the United States, I have well, faithfully, and truly, in my own proper person, surveyed a tract of land upon the application of embraced in List, No 3-1187, dated March 10, 1911, for Patent, under the Act of June 11, 1906, the same to be known as Homestead Entry Survey No. 224, situated within the APACHE National Forest, in unsurveyed Section 4, Township 1 S., Range 29 E., and surveyed Section, Township, Range, and surveyed Section, Township, Range, 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 of such survey.
Surveyor-Forest Service.
Subscribed and sworn to before me this 23rd day of
SEAL. 8-2349 Selsie C. Muyers Notary Public 14 15 16 17 18 18 19 19 19 19 19 19 19 19
An Commission outside you was not a fact to

HOMESTEAD ENTRY SURVEY NO. 224

APACHE NATIONAL FOREST

STATE OF ARIZONA

Chains

Applicant for listing, F. Barkhurst; Application No.

110; dated March 10, 1910; List No. 3-1187, dated

March 10, 1911; H. E. No. 016756, made at Phoenix,

Arizona by Charles N. Dudley, dated January 31, 1912.

Surveyed under special instructions from the Surveyor

General for Arizona, dated August 6, 1914 and designated as Homestead Entry Survey No. 224.

Situated in what will probably be, when surveyed, Sec.

4, T. 1 S., R. 29 E., Gila and Salt River Base and

Meridian, Apache National Forest, Arizona.

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

1914.

Survey commenced November 26, 1914 and executed with a W. and L. E. Gurley light mountain transit No. 11920, provided with a full vertical circle and horizontal limb having two double verniers placed opposite each other and reading to single minutes of arc, which is also the least count of the verniers on the vertical circle.

I test the adjustments of the transit and make necessary corrections. All measurements were made on the slopes with a 500 link steel tape, and the slope angles determined with a clinometer. The horizontal distances alone appearing in these notes.

November 26, 1914.

At cor. No. 1 of this survey I observe the altitude of the sun for azimuth. The sun is to the right of the reference mark. The zero of the azimuth circle is set on reference mark and the sun observed in the upper left, lower right, upper right and lower left quadrants of the field. . My watch is set for local

STATE OF ARIZONA

Chains

mean time. Longitude, by account from Land Office map, is 109° 21' W. Latitude, by account from Land Office map, is 33° 22' 15" N.

Telescope L.M.T. Vertical Horizontal Angle

Direct 9h. 07m. 00s. 24° 05' 82° 29' 00"

Reversed 9h. 09m. 00s. 23° 50' 82° 20' 00"

Means 9h. 08m. 00s. 23° 57' 30" 82° 24' 30"

Direct 9h. 10m. 20s. 24° 33' 30" 82° 38' 00"

Reversed 9h. 12m. 11s. 24° 15' 30" 83° 36' 40"

Means 9h. 11m. 15s. 24° 24' 30" 83° 07' 20"

Bearing of mark by (1) N. 56° 57' 37" E. Bearing of mark by (2) N. 56° 57' 40" E.

Mean, N. 56° 57' 38" E.,

and to the corresponding meridian all the courses of this survey are referred.

November 26, 1914.

At cor. No. 1 of this survey I put the telescope of my
transit in the meridian and observe simultaneously
the passage of the sun's upper and West, lower and
East limbs over the cross wires for time and latitude.

Telescope Watch Vertical time Angle

Sun's upper and West limb, Direct llh.45m.00s. 36°01'20' Sun's lower and East limb, Reversed llh.47m.20s. 35°27'50' Means, llh.46m.10s. 35°44'35'

Time computation.

Watch Time = llh. 46m, 10s.

Equation of Time = $\frac{+ 12m. 48s.}{11h. 58m. 58s.}$

Apparent Noon = 12h. 00m. 00s. Watch slow on 1.m.t., 01m. 02s.

APACHE NATIONAL FOREST STATE OF ARIZONA

Chains

Latitude Computation.

Obs. Vertical Angle, 35° 44' 35"

Refraction,

35° 43' 15"

Parallax

+ 0711 35° 43' 22"

Sun's declination,

+ 20° 54' 11" 56° 37' 33" = Co. Lat.

900 001 00"

33° 22' 27" = Lat.

November 26, 1914.

I begin at list cor. No. 1, which is a malpais stone showing 4 x 14 x 16 ins. above ground, marked and witnessed as described by the Forest Service. destroy same and witnesses thereto, and set a red sandstone 24 x 10 x 6 ins., 14 ins. in the ground, over a stone marked with a + for cor. No. 1 of this survey, marked 1-HES224 on side facing the claim and Dig pits 24 x 24 x 12 ins. crosswise a + on top. on this and succeeding course, 7 ft. dist.: and raise a mound of stone and earth 3 ft. base, 2 ft. high, 2-1/2 ft. dist. within the claim, whence:

> A yellow pine 18 ins. dia., bears N. 19° 08' E., 52 lks. dist.

> A yellow pine 14 ins. dia., bears S. 36° 35' W., 50 lks. dist.

A scrub oak 10 ins. dia., bears S. 47° 04' W., 111 lks. dist., each blazed and scribed 1 H E S 224 B T.

Bdy. post No. 10 on the G. and S. R. Base line. which is an iron post marked and witnessed as described by the Surveyor General, bears N. 04° 00' E., 34.74 chs. dist., by traverse, for Cor. Secs. 32 and 33, T. IN, R. 29 E. G. & S. R.M.

& S. O. letter E" 12-22-23

HOMESTEAD ENTRY SURVEY NO. 224

APACHE NATIONAL FOREST

STATE OF ARIZONA

hereinafter described. Chains The magnetic bearing of the true meridian at 4:30 p.m. is N. 15° 00" W., and the mean magnetic declination is 15° 00' E. Thence S. 87° 40' E. Over open level land, along edge of pine timber. Cor. of wire fence, bears South 20 links, from which 5.80 fences run S. 17° 00' E. and N. 02° 00' W. Leave edge of timber. Movember 26, 1910. Enter corral. 9.00 Leave corral, enter scattering pine timber. 10.50 To cor. No. 2. 11.00 Identical with list cor. No. 4, which is a malpais stone showing 6 x 8 x 12 ins. above ground, marked and witnessed as described by the Forest Service. I destroy same and set a red sandstone 24 x 12 x 10 ins., 14 ins. in the ground, over a stone marked with a + for cor. No. 2 of this survey, marked 2-HES224 on the side facing claim and a + on top. Dig pits 24 x 24 x 12 ins. crosswise on this and the succeeding course, 7 ft. dist.; and raise a mound of earth and stone, 3 ft. base, 3 ft. high, 3-1/2 ft. dist. within claim, whence: A yellow pine 26 ins. dia., bears N. 28° 30' W., 21 1ks. dist. A forked scrub oak, 10 ins. dia., bears N. 88° 42' E., 30 lks. dist., each blazed and scribed 2 H E S 224 B T.

Thence S. 05° 27' W.

Over level land, through edge of scattering pine and scrub oak.

APACHE NATIONAL FOREST

STATE OF ARIZONA

	T Comments	
	Chains 3.80	
	4.30	Wire fence, runs E. and W.
	5.80	SE. cor. of barn is 10 lks. West of line. Wire fence
		runs South from SE. cor. of barn.
	13.99	To cor. No. 3.
		Identical with list cor. No. 3, and cor. No. 4 of
-		the Pine Flat, Administrative site, which is a yellow
	75	pine 28 ins. dia., marked and witnessed as described
	-0200	
		fer to list survey and blaze and mark the NW. face
-		3-HES224 for cor. No. 3 of this survey; and raise a
		mound of earth and stone 4 ft. base, 2 ft. high, 3-1/2
-	122	ft: dist. within the claim. Pits impracticable.
		whence:
		Å yellow pine 28 ins. dia., bears N. 29° 30' E.,
		151 lks. dist.
,		A yellow pine 30 ins. dia., bears S. 87° 45' E.,
		131 1ks. dist., each blazed and scribed 3 H
		E S 224 B T.
	8.10.8	evitartairing dely and essets s sos 9-
		Thence S. 76° 18' W.
		Along the N. bdy. of Pine Flat, administrative site,
		Ascend 15 ft. through scattering pine.
	0.50	Leave pine timber.
	0.80	Pole and wire fence, runs N. 09° 00' E. and S. 09° 00' W.
	1.40	Top of ascent.
	1.60	Descend 25 ft.
	5.10	Bottom of descent, continue over open level land.
	5.20	Dry wash, 8 lks. wide, banks 2 ft. high, course N. and S.
	8.20	Dry wash, 15 1ks. wide, banks 5 ft. high, course South.
	11.15	Pole and wire fence.

HOMESTEAD ENTRY SURVEY NO. 224

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STATE OF ARIZONA

Chains 11.40

To cor. No. 4.

Identical with list cor. No. 2, which is a malpais stone showing 6 x 8 x 22 ins. above ground, marked and witnessed as described by the Forest Service.

I destroy same and witnesses thereto, and set a lava stone 23 x 12 x 6 ins., over a stone marked with a + for cor. No. 4 of this survey, marked 4-HES224 on side facing the claim and a + on top. (No larger stone available.) Dig.pits 24 x 24 x 12 ins. crosswise on this and succeeding course, 7 ft. dist.; and raise a mound of stone and earth 4 ft. base, 2 ft. high, 3-1/2 ft. dist. within the claim; whence:

5.80 Enil Louce, wand o. the M.

W., 69 lks. dist.

A scrub oak, 16 ins. dia., bears S. 54° 07' W.,

A scrub oak, 12 ins. dia., bears S. 15° 21' W.,
76 lks. dist., each blazed and scribed 4 H E S
224 B T.

Cor. No. 3 of the Pine Flat administrative site bears S. 76° 18' W., 8.31 chs. dist.

Thence N. 04° 37' E.

Over level land, along edge of scattering scrub oak.

Fence is East of line.

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

AREA

Area - - - - - 16.97 acres.

Los tressed 1

CONFLICTS AND ADJOINING CLAIMS.

No conflicts. This claim is joined on the South by

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7.

APACHE NATIONAL FOREST

STATE OF ARIZONA

Chains

the Pine Flat administrative site.

IMPROVEMENTS

The improvements upon this claim, the property of claimant herein, consist of the following:

A.new 4 room frame house, 32 x 32 ft., course of sides N. and S., the NE. cor. of which bears from cor. No. 2, S. 31° 30' W., 3.50 chs. dist.

Value ----- \$600.00

A frame salt house, 8 x 8 ft., course of sides N. and S. the NE. cor. of which bears from cor. No. 2, S. 61°
35' W., 1.69 chs. dist.

Value ----- \$ 10.00

A dug-well 25 ft. deep, the center of which bears from cor. No. 2, S. 12° 12' W., 4.45 chs. dist.

Value ---- \$ 75.00

Slab barn, 36 x 40 ft., course of long sides E. and W., the NW. cor. of which bears from cor. No. 2, S. 13° 30' W., 5.30 chs. dist.

Value ----- \$150.00

Log tool house 12 x 12 ft., course of sides E. and W., the NE: cor. of which bears from cor. No. 2, S. 13°
52' W., 5.30 chs. dist.

Value ---- \$.25.00

1 mile of pole and barbed wire fencing.

Value ----- \$125.00

Total value of improvements ----- \$985.00

DESCRIPTION.

This claim is in a level valley at an elevation of 6400 ft. above sea level. The soil is a light sandy loam, first rate, the entire claim is fenced and crossfenced, and has been under cultivation, producing good

1176300								
25 ft. deep, which supplies sufficient water for								
no evidence of precious minerals on the claim. There								
is no timber of commercial value on the claim.								
Clifton, the county seat of Greenlee County on the A.								
and N. M. B.R., the nearest postoffice and trading								
center, lies-about-35-miles in a southerly direction								
· over rough mountain trails								

Traverse from cor. No. 1 to bdy. Post No. 10 on Base Line.

. Course Dist	e	ELOOP VI
S. 87° 40' E. 11.0 N. 08° 15' W. 25.0 N. 10° 06' W. 7.5 S. 81° 37' W. 2.5 N. 19° 21' W3.5	0 24.74 5 .7.43	3.59 1.32 2.50 1.16
. missol or	35.48 0.82 0.82 0.65 34.66	10.99 8.57 8.57 2.42

From this traverse I compute the bearing and distance to the bdy. post as being N. 04° 00' E., 34.74 chs. dist.

Survey completed November 26, 1914.

Surveyor-Forest Service.

APACHE NATIONAL FOREST

STATE OF ARIZONA

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Detailed Computations.

Azimuth Computation.

Date of observation, November 26, 1914.

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88d6A. - . 201 =

(1)

Longitude, 109° 21' W., Latitude 33° 22' 15" N., by account from Land Office map.

Local mean time of obs. = 9h. 08m. 00s.

Apparent time of obs. = 9h. 20m. 48s.

Obs. Vertical Angle = 23° 57' 30"/

Reduced Vertical Angle = 23° 55' 51"

Sun's declination = S. 20° 52' 54"

Horizontal Angle, (Sun is to right of reference mark) = 82° 24' 30"

Cos A. = Sin 20° 52' 54"

Cos. 33° 22' 15" x Cos 23° 55' 51"

(Tan 33° 22' 15" x Tan 23° 55' 51")

Log Sin. 20° 52' 54" = 9.5519853 9.8827162 9.6692691 = Log. - .46695

Log Cos. 33° 22' 15" = 9.9217530 23° 55' 51" = 9.9609632 9.8827162

Log. Tan 33° 22' 15" = 9.8186536 " 23° 55' 51" = 9.6471706 9.4658242 = Log. - .29230

- .46695 - .29230 = - .75925 = Nat. Cos. of S. 40° 37' 53"

E., being the bearing of the sun, and the bearing of reference mark is N. 56° 57' 37" E.

(2)

Latitude 33° 22' 15" N., Longitude 109° 21' W., by account from a Land Office map.

Local mean time of obs. = 9h. 11m. 15s.

Apparent time of obs. = 9h. 24m. 03s.

Obs. Vertical Angle = 24° 24' 30"

Reduced Vertical Angle = 24° 22' 23"

Sun's declination = S. 20° 52' 56"

Horizontal Angle (Sun is to right of reference mark) = 83° 07' 20"

NATIONAL FOREST

STATE OF

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= . Sin 20° 52' 56"
Cos 33° 22' 15" x Cos 24° 22' 23"
Chains
       Cos A.
                   (Tan 33° 22' 15" x Tan 24" 22' 23")
                                 9.5519963
       Log Sin 20° 52' 56" =
                                 9.8812131
                                9.6707832 = Log. - .46858
       Log Cos 33° 22' 15" = 9.9217530
                9.8186536 neam lacol
       Log Tan 33° 22' 15" = 24° 22' 23" =
                                 9.6561492
9.4748028 = Log. - .29840
        - .46858 - .29840 = - .76698 = Nat. Cos of S. 39° 55' E.,
         being the bearing of the Sun, and the bearing of re-
         ference mark is N. 56° 57' 40" E. The mean of these
          two observations is N. 56° 57' 38" E/ tagir of
              Gos A. = Sin 20° 58' 54"
Uca. 38° 82' 15" x Cos 28° 55' 51"
             (Tan 33° 22' 15" x Tan 23° 55' 51")
                     Log Sin. 20° 52' 54" = 9.5519858
      9.6692691 = Iog. - .46695
                     Log dqs. 33° 22' 15" = 9.9217530
                     9.9609632
                     Log. Ten 23° 22' 15" = 9.8186526
      = Log. - .29230
    - .46695 - .29230 = - .75925 = Nat. Cos. of S. 40° 37'
    E., being the bearing of the sun, and the bearing of
                     reference mark is N. 56° 57' 37" E.
     Latitude 35° 22' 15" N., Longitude 109° 21' W., by sc-
                           count from a Land Office map.
            Tocal mean time of obs. = 9h. 11m. 15s.
                            Apparent time of obs. =
            9b. 24m. 03s.
                                    Obs. Vertical Angle
             24° 24' 30"
                                  elgna IsolfreV beoubeR
             "88 '88 °A5 =
                                       Sun's declination
             Horizontal Angle (Sun is to or so or so right of reference merk) = 83° 07' 20"
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Sheet No. 3.—Revised Feb., 1915.

Drections.—1. Carry out calculations to two decimals only.
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 figure or figures above in red ink. Do not change the footing of the lines.

The corrections for balancing fallings should be proportional to the lengths of the lines.
In calculations of fallings take result to nearest link. In calculations of N. and S. areas drop all after second decimal.
A. Only three copies of this tabulation are necessary, for the District Office, the Surveyor General, and the Commissioner.

Apache									L L								
Charles N. Dudley - Apache		S. AREAS.		397 02	29 89			20) 339 49	The second second								
		N. AREAS.				23 77	23 77										
E OF ARIZONA	T T T T T T T T T T T T T T T T T T T	DOUBLE M. D.	18 78	23 46	11 07	1 39											
, STATE	RES.	West.		1, 32	11.08	10 41	10 39										
JRVEY NO. 224	DEPARTURES.	EAST.	10 99		-	1 38	1										
SI	DES.	South.	45	13 93	2 70	17 08	1	*									
OF HOMESTEAD ENTRY	LATITUDES.	North.			0,0	17 10	17 10										
CALCULATIONS OF F	DISTANCE.		11.00	13.99	11,40	52.55	100										
TABLING AND CALCUL	BEARING.		S. 87° 40' E.	S. 05° 27' W.	N. 04° 371 F.			8 error 1:1198									
TABL 1	CORNERS.			0 2 2				BUISOTO									
8																	

Charles M. Dugley -1014 143 158 it. 52 AA T 23 SS 40 72 38 90 II 128 81 LABITUC WID OWTOTIVITIONS OF HOMESLEVD EMIKE SUBSERS NO. SSV g 8. 99 10 SPH 920 202 22 114.10 17.40 OT. 35. E. 181 4 B. B. 101 2. 541 20 8. Obe 01 ¥-1 N-01

Grostre error J:1138

APPROVAL

Office of the United States Surveyor General,

Phoenix, Arizona, May 29, 1916.

1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
The foregoing field notes of Homestead Entry Survey No.
224
*
executed by C. A. Long, Surveyor-Forest Service
under his special instructions, dated August 6 , 1914
having been critically examined, and the necessary correc-
tions and explanations made, the said field notes, and the
surveys they describe, are hereby approved.
Shank Dothoth
U. S. Surveyor General.
I certify that the foregoing transcript of the field
notes of the above-described survey in,
has been correctly copied from the original notes on file in
this office.
Frank P. Trott
8-2340 U. S. Surveyor General