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U. S. DEPARTMENT OF AGRICULTURE FOREST SERVICE

OCT.26.1917

FIELD NOTES

OF

HOMESTEAD ENTRY SURVEY NO. 229

SITUATED IN THE

APACHE NATIONAL FOREST
ADMINISTRATIVE DISTRICT NO. 3

Approximately
Section 4 , un surveyed, Township 2 S., Range 30 E.

of the

Gila and Salt River Base and Meridian.

ARIZONA

Surveyor-Forest Service
d August 6 , 1914
November 28 , 1914
November 28 , 1914
and June 30, 1914.
len Chitty,
Clifton, Arizona.
May 16 , 19 08
June 29 , 19 09
len Chitty,
Clifton, Arizona.
December 2, 1909
ix, Arizona.

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. 229, in
unsurveyed Section 4, Township 2 S., Range 30 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 fur-nished by the United States Surveyor General for Arizona.

very expensive and inconvenient to appear before an officer to administer oaths to Assistants; hence, they were taken by the Surveyor.

Note: It would have been wywans, Chainman Fred Furley, Chainman

gas gas gas on on the gas and dan ton the tan to the gas

Subscribed and sworn to before me this 28th 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.3-223, dated June 29 , 19.09, for

Patent , under the Act of June 11 , 19.06,

the same to be known as Homestead Entry Survey No. 229 ,

situated within the APACHE National Forest, in

Unsurveyed Section 4 Township 2 Sample 30 Feb. and unsurveyed Section 4 , Township 2 S. , Range 30 E. , and --surveyed Section -- , Township -- , Range -- , of the G. & S.R.B. & 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 perpetnated in strict secondaries with the stated street in strict. uated 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.

Surveyor-Forest Service

Subscribed and sworn to before me this 23/2 day of

pnl , 19 15.

8—2249

Elsie C Tuyens Trotany Public

.1.

APACHE NATIONAL FOREST

STATE OF ARIZONA

Chains Applicant for listing, J. Allen Chitty; Application No. 60, dated May 16, 1908; List No. 3-223, dated June 29, 1909; H. E. No. 07594, made at Phoenix, Arizona, on December 2, 1909.

Surveyed under special instructions from the Surveyor General for Arizona, dated August 6, 1914, and designated as Homestead Entry Survey No. 229.

Situated in what will probably be, when surveyed, Sec. tion 4, T. 2 S., R. 30 E., Gila and Salt River Base and Meridian, Apache National Forest, Arizona. Surveyed under the Acts of June 11, 1906 and June 30,

Mesns 9h. 11m. 25s. 24° 05' 50" 154° 37' 45"

Survey commenced November 28, 1914 and executed with a W. and L. E. Gurley light mountain transit No. 11920, provided with a full vertical circle and a 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 vernier on the vertical At cor. No. 1 of this survey, at apparent noon.

I test the adjustments of the transit and make necessary .edutical ent estaduce I neitavreado sint meri .'SA

All measurements were made directly 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.

Prue alt. of sun's center,

November 28, 1914.

"a.0a

09.4"

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

STATE OF ARIZONA

Chains time. Longitude, by account from a Land Office map is 109° 15' W. Latitude, from observation, is June 29, 1909; H. E. No. Oysee, "80 181 085 Arizona, on December 1. 1909. Telescope l.m.t. Vertical Horizontal Angle Direct 9h. 06m. 27s. 23° 41' 30" 155° 21' 20" Reversed 9h. 08m. 44s. 23° 28' 00" 155° 29' 00" 9h. 07m. 35s. 230 341 45" 155° 25' 10" Means tion 4, T. 2 S., ease revis fiel bus slid .. A (2) Direct 9h. 10m. 21s. 24° 13' 20" 155° 09' 00" June 30. Reversed 9h. 12m. 30s. 23° 58' 20" 154° 06' 30" 9h. 11m. 25s. 24° 05' 50" 154° 37' 45" Means Bearing of reference mark by (1) N. 65° 10' 44" W. Bearing of reference mark by (2) N. 65° 10' 15" W. Gurley light mountai N. 65° 10' 30" W. The mean is Lathoring and to the corresponding meridian all the courses of this survey are referred. each other and reading to single minutes of are, which is end to thuos tesel ent osls November 28, 1914. At cor. No. 1 of this survey, at apparent noon, I observe the altitude of the sun's upper limb to be 35° 43', from this observation I compute the Latitude. es with Observed vert. ang. sun's upper limb = 35° 43' 00" "8.14.8" 161 161 tape, and the henimined Semi-diameter Lainoziron ent , refementie a dition 21.0" -de enole Refraction ag in these notes. 35° 25' 24.2" + 07 Parallax .88, 1914. 35° 25' 31.2" True alt. of sun's center, o. 1 of this survey 210 16' 19.4" Sun's declination, o similar of si mus edt dimine roi mus e 56° 41' 50.6" ence mark. The sun was observed in the upper 900 001 00.0" -barp fiel rewel bas fight Tetitude = Tewel 53.0 18' 09.4" reads of the field. My watch is set for local mean

.3.

APACHE NATIONAL FOREST

STATE OF ARIZONA

There being no public land survey or U. S. Location . Bed a Monument within the prescribed limits, I establish U. S. L. M. 229 H. E. S. on a bald limestone peak ... 20 ft. in diameter at the apex and about 50 ft. above nois cor. No. 1 as follows: At. the center of the peak, I drill a hole in the solid rock and set an iron rod 3/4 in. dia., 10 ins. long, 6 ins. in the rock and chisel U. S. L. M. 229 H. E. S. around the point. No stone available for mound, whence:

A pinon 9 ins. dia., bears N. 73° 30' W., 76 1ks. dist. .bnsI bebore

A pinon 10 ins. dia., bears S. 46° 23' W., 54 enotebnes a si nontwo dist. ON . Too tell diw facitnebl

Each blazed and marked U S L M 229 H E S B T. Maple Peak bears N. 63° 10' E., about 9 miles dist. S. M. and witnesses thereto an nonh na tes

Bullard's Peak bears N. 79° 03' E., about 10 rock for cor. No. 2 of this survey, marked 2-HK3239

November 28, 1914.

Beginning at cor. No. 1.

Identical with list or. No. 2, which is a sandstone 12 x 12 x 14 ins. above ground, marked and witnessed as described by the Forest Service. I destroy same and witnesses thereto and set a shale stone 26 x 14 x 8 ins. over a 3/4 in. iron rod 8 ins. long, set 6 ins. in the solid rock to mark the exact point for cor. No. 1 of this survey, marked 1-HES229 on side facing claim and raise a mound of stone around corner. (Pits impracticable.) Whence:

A juniper 16 ins. dia., bears S. 58° 06' W., 110 lks. dist.

A pinon 5 ins. dia., bears S. 12° 50' W., source S. 15° 156 lks. dist.

.4.

APACHE NATIONAL FOREST

STATE OF ARIZONA

Chains Each blazed and marked 1 H E S 229 B T. Me de la U.S. L. M. 229 H. E. S., heretofore described, Med enoteem bears S. 24°.57! E., 2.31.chs. dist. . The magnetic bearing of the true meridian at 4:30 p.m. is N. 12° 15' W., and the mean magnetic declination bor nort is 129 15' Ecor bilos ent at efon a Ilira I

Thence S. 20° 27' W. H 828 .M .I . 3 . U feelds

Ascend: 35 ft. along NW. slope, denuded of soil.

im. dia., 10 ins. long, dins.

Top of ascent. Continue along NW. slope over badly 1.00 eroded land.

12.46 'To cor. No. 2. 1380 . ani Of nonig A

s a sandrtone

anton

Identical with list cor. No. 1, which is a sandstone 12 x 12 x 18 ins. above ground, marked and witnessed as described by the Forest Service. I destroy it and F. S. M. and witnesses thereto and set an iron rod 3/4 in. dia., 8 ins. long, 5 ins. in the solid rock for cor. No. 2 of this survey, marked 2-HES229 on side facing claim; and raise a mound of stone over corner point. (Pits impracticable.) Whence:

> A juniper 12 ins. dia., bears N. 19° 33' E., 120 lks. dist. vode .ani Al x Sl x

A juniper 8 ins. dia., bears S. 43° 16' E., 95 lks. dist. stone 26 x 14 x

Each blazed and scribed 2 H E S 229 B T.

.vevine sldj.ho I .oM

110 lks. dist.

156 lks. dist.

claim and raise a

Thence N. 71° 09' W.

Descend 15 ft. over bare rock slope.

Descend abrupt slope 60 ft. 1.60 Pits immracticable.

Bottom of slope. Enter creek bottom and scattering 2.07 sycamore.

Turkey Creek, 25 lks. wide, 1 ft. deep, course S. 15° 3.57 A pinon 5 ins. dia., beers S. 12 '00' E.

STATE OF ARIZONA

1	
5.60	Leave timber and creek bottom. Ascend.
6.20	
	rolling land and badly eroded slopes. Scant soil
	covering and scattering oak brush.
27.69	
30.00	Ascend 250 ft. over terraced rock. No soil.
39.57	To cor. No. 3.
	Identical with list cor. No. 4, which is a malpais
.71	boulder 12 x 14 x 16 ins. above ground, marked and
	witnessed as described by the Forest Service. I
	destroy same and witnesses thereto, and set a sand-
	stone 30 x 18 x 8 ins. in a mound of stone over a
	3/4 in: iron rod; 8 ins. long, set 4 ins. in the solid
	rock to mark the exact point for cor. No. 3 of this
	survey, marked 3-HES229 on side facing claim. Pits
	and mounds impracticable; whence:
	A pinon 8 ins. dia., bears N. 23° 40' W.,
	51 lks. dist.
	A pinon 10 ins. dia., bears N. 52° 39' E.,66
more,	Over lavel oreek bottom, thitsib saltering syce
	A pinon 8 ins. dia., bears S. 24° 34' E.,
540	6.00 Tarkey Creek, 25 lks. wide, teif. edurat course 6.
	Each blazed and marked 3 H E S 229 'B T.
	10.00 Desve Creek bottom and timber. Ascend 55 ft.
	Thence N. 18° 52' E. is equitado . insess to got 00.41
	Descend 90 ft. on terraced sandstone. No soil
8.00	Descend steep rock bluff, .75 ft want to moston 08.33
10.00	Bottem of descend. Enter creek bottom and scattering
	sycamore, cedar and scrub oak. Continue on level
	bottom landff 38 5messed 00.38
12.54	To cor. No. 4
, tnson	Identical with cor. of list No. 3, which is a malpais
	boulder 14 x 14 x 16 ins. above ground, marked and

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Chains

Pits

.6.

witnessed as described by the Forest Service. destroy same and witnesses thereto and set a wash boulder 26 x 18 x 12 ins., 10 ins. in the ground, over a stone marked with a cross (+) for cor. No. 4 of this survey, (unable to set stone deeper on account of rock) marked 4-HES229 on side facing claim and a cross (+) 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 stone 4 ft. base, 2 ft. high, 3-1/2 ft. dist. within the claim, whence:

A live oak 8 ins. dia., bears S. 46° 33' E., s revo enote 86 lks. dist. ent 8 x 81 x 05 enote

bifos ent ai . A sycamore 10 ins. dia., bears S. 86° 39' W., aint to a .on 33 olks. dist. of forme of warm of woor

> . Juniper 24 ins. dia., bears N. 57° 54' W., 29 lks adist eldesitesiqui abnoom bas Each blazed and scribed 4 H E S 229 B T.

ad Thence Sad719 07 beE. . sib . ani Of moning A Over level creek bottom, through scattering sycamore, .. juniper and scrub oak. in . and 8 moning A

Turkey Creek, 25 lks. wide, 1 ft. deep, course S. 54° 5.00 Lach blazed and marked S H E S : 100.

Leave Creek bottom and timber. Ascend 55 ft. 10.00

Top of ascent. Continue along South slope. 14.00

Descend 40 ft. abuse becarred no . It Oe buesed 18.10.

Bottom of draw, ascend. Theid soon geets bneesed 00.8 23.30

24.50 Top of ascent, 30 ft. above point of ascent. Continue sycamore, cedar and sorub oathacelevelurevo level

bottom land.

12.54 To cor. No. 4.

Descend 35 ft. 25.00

Bottom of draw, ascend 15 ft. 28.00

31.50 Top of ascent. Continue over broken rock land, scant boulder 14 x 14 x 16 ins. above ground. . fiosed

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APACHE NATIONAL FOREST

STATE OF ARIZONA

Chains	eele ein senl	the hills:	Der.	nis anto	seattes	bas	
34.90	Wire fence,	bears N.	50° 00"	E. and	S. 500	001	17
-v.s.n bn	adly eroded a	d puled i	nortion	ratianto	9. DU	00 1	
35.00	Ascend 25 f	t.				W. L	
	ternoth and						

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

teril to most yours that a si

quality. There is no evidence of precious minerals Area - - 49.72

uniper and black CONFLICTS AND ADJOINING CLAIMS.

Turkey Creek There are no conflicts or adjoining claims. eldages bus retaw raelo eruq 10 maerta lainnereg a ai

IMPROVEMENTS
IMPROVEMENTS Clifton, the The improvements on the claim, and belonging to the claimant herein, consist of the following:

A two room log house, 18 x 40 ft., course of long sides N. and S., the SE. cor. of which bears from cor. No. 2 N. 30° 00' W., 8.70 chs. dist.

00.00\$\$ ----- survey completed Hovember 28, 1914.

on the olaim.

Log store house 10 x 10 ft., course of sides N. and S. the SE. cor. of which bears from cor. No. 2 N. 29° 30' W., 9.45 chs. dist. Course

Value ----- \$ 25.00

Log chicken house 6 x 6 ft., course of sides N. and S., the SE. cor. of which bears from cor. No. 2, N. 26° 08. W., 10.00 chs. dist. 501 . 70 17 . 8 1-4

Value ----- \$ 10.00

1/2 mile of pole and barbed wire fencing.

Ta.II

.45

Value ----- \$ 40.00

Total value of improvements ----- \$275.00

DESCRIPTION

. This claim is located along Turkey Creek and the rocky barren hillsides draining into it. A narrow strip averaging 1-1/2 chains in width along the creek bottom will be suitable for cultivation when cleared of brush

00

038

APACHE NATIONAL FOREST

STATE OF ARIZONA	TS
chains and scattering timber. The harmonic control of a c	ng badly eroded and hav- ny kind. About 3-1/2
along the creek bottom is a li quality. There is no evidence on the claim.	
walnut is found along the cree is a perennial stream of pure	clear water and capable
clifton, the county seat of Gree	enlee County, on the
ing center. It is about 25 n	niles distant in a
southerly direction and is restrail.	edt a bas . M
Survey complete to serios of x of	eted November 28, 1914.
TRAVERSE OR . M & . ON . TOO MOTH STREET MOTHER Cor. Course Dist. N	
.Jaib .e	do 34.9 W 108

1-2 S. 20° 27' W. 12.46 N. 71° 09' W. 39.57 12.78 2-3 12.54 1 N. 18° 52' E. 12.95 37.85 S. 71° 07' E. 40.00 41.80 104.57 24.65 Error in Lat. and Dep. 24.62 41.80 .10 Error of closure = 1:1002.d bas eloq to elim S\1

Value ----- & 40.00

MOITE CALONG

vasor end bus deend vertur gnolSurveyor -eForest Service.

dints worren A .ti ofni gniniarb sebiallid nerrad averaging 1-1/2 chains in width along the creek bottom

Total value of improvements ----- \$275.00

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STATE OF ARIZONA

Chains

961

Detailed Computation. Devreed

Azimuth Computation.

Reduced Vertical Angle (1)

Sun's declination Date of obsn., November 28, 1914.

Longitude 109° 15' W., by account from Land Office map.

Latitude 33° 18' 09" N. 1 213 mi8 = A 800

L.M.T. of obs. = 9h. 07m. 35s.

= 9h. 19m. 45s. Apparent time of obs.

Observed Vertical Angle = 230 341 45"

Reduced Vertical Angle = 23° 32' 33"

"S. 21° 15' 07" Sun's declination, .

the left of reference mark) 155° 25' 10" Horizontal Angle, (Sun is to

Cos A = Sin 21° 15' 07"

Cos 33° 18' 09" x Cos 23° 32' 33"

33° 18' 09" x Tan. 23° 32' 33").

Horizontal Ang

9.8843513 - read owt eredt to mem ent ba 9.6749204 = Log. -47307

Log Cos, 33° 18' 09" = "9.9220937 ... 23° 32' 33" = 9.9622576
9.8843513

Log. Tan 33° 18' 09" = 9.8175255 23° 32' 33" = 9.6391822

9.4567077 = Log. - .28622 - 75929

- .47307 - .28622 = - .75929 = Nat. Cos of S. 40° 35' 54" E., being the bearing of the sun, and the bearing of reference mark is N. 65° 10' 44" W.

(2)

Date of observation, November 28, 1914.

Longitude 109° 15' W., by account from Land Office map.

Latitude 33° 18' 09" N.

Local mean time of obs.

9h. 11m. 25s.

Apparent time of obs.

9h. 23m. 35s.

NATIONAL FOREST

STATE OF

Observed Vertical Angle 24° 05' 50" Chains Reduced Vertical Angle = 24° 03' 41" 210 15' 09" Sun's declination Horizontal Angle, (sun is to 154° 37' 45" . gam solithe left of reference mark) 'di 'eoi obutionol Sin 21° 15' 09"
Cos 33° 18' 09" x Cos 24° 03' 41" 9h. 07m. 35s. (Tan 33° 18' 09" x Tan 24° 03' 41") Log Sin, 21° 15' 09" = 9.5592717 9.8826164 v bevredd 9.6766553 = Log. - .47496 Log Cos 33° 18' 09" = 9.9220937 Reduced Verti 24° 03' 41" = 9.9605227 miles s'nus 9.8826164 24° 03' 41" = 9.6496342 9.4673597 = Log. - .29333 - .76829 . 47496 - .29333 = - .76829 = Nat. Cos. of the bearing of sun. S. 39° 48' E. The bearing of reference mark is. N. 65° 10' 15" W., and the mean of these two observations is N. 65° 10!.30" W. 20 '81 '85 , 200 301 9.8843513 Log. Tan 38° 18' 09" = 9.8175255 = 1.0g. - .285 - .47307 - .28622 - - .75929 = Mat. Cos of S. 40° 55' 54" E., being the bearing of the sun, and the bearing of reference mark is N. 65° 10' 44" W. Oste of observation, November 28, 1914. Longitude 109° 15' W., by account from Land Office map. .W "00 '81 '8E ebulited eas .mil .de Local mean time of obs. 9h. 25m. 35s. Apparent time of obs.

Form 85. Sheet No. 3.—Revised Feb., 1915.

DIRECTIONS.—1. Carry out calculations to two decimals only.

2. In balancing Latitudes and Departures do not obliterate or change the original figures.

2. In balancing Latitudes and Departures do not obliterate or 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.

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.

J. Allen Chitty.

							49 715 49.72 acres							18	9	
	જું		925 78	594 60	38	30	715									
	S. AREAS.		986	594	1520 38	526 08	49	サー								
us.	N. AREAS.		47.8 24	47 84	526 08											
OF ARIZONA.	DOUBLE M. D.		79 33	4 03												
STATE		West.	4 3 3 4 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		41 80	4185										
NO. 229	DEPARTURES.	EAST.		37 4 4 37 85 75 3	41 90	4185										
ITRY SURVEY	DES.	South.	11 67	12 95	24 62	2463										
HOMESTEAD ENTRY	LATITUDES.	North.	12 76	11 87	24 65	2463										
OF	DISTANCE.		12.46	12,54	104.57											
TABLING AND CALCULATIONS	BEARING.		S. 20° 271 W.	N. 18° 52' E. S. 71° 07' E.												
8-2349 TABI	CORNERS.		1-2	3-4 4-1												

1. VITEU CUICEA. STATE OF LAHINOMA. LYBLING WAD QUTGOTVALIONS OF HOMERLEVE BALK RABARA NO SSS

\$0) ABT 20 05 P 08 T250 28 00 986 386 D04 80 333 F1 84 क्ष छ र 45 88 4 03 27 48 तुर पुरु 4T 80 20 P 90 14 35 II OT から 7.5 01 TS A8 11 84 153 00.0点 18.54 23.62 TS.46 TOK DA 3. AT. OA. E.
H. 18. PS. E.
H. AT. OB. M. F 6 1 5 F

The concepts of billings take regard to nearest link. In calculations of N. and S. areas dues of the first second decimal. Surve The conceptions for islancing is linkes should be proportional to the lengths of the break linker second decimal. Surve

The form of some statement of the contributions of the statement of the st

Birect No. 31—devised no. 1912

APPROVAL

Office of the United States Surveyor General,

Phoenix, Arizona, April 2, 1917.

The foregoing field notes of Homestead Entry Survey No.
229
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.
On valit
U. S. Surveyor General.
I certify that the foregoing transcript of the field
notes of the above-described survey inArizons,
has been correctly copied from the original notes on file in
this office.
Frank P. Trott
8-2349 U. S. Surveyor General.