U. S. DEPARTMENT OF AGRICULTURE

ORIGINAL

588 abd

FOREST SERVICE

FIELD NOTES

4-1-1-192 APR-4 192

HOMESTEAD ENTRY SURVEY No. 581 And establishment of U.S. Location Monument No. 581 SITUATED IN THE NATIONAL FOREST KAIBAB

> ADMINISTRATIVE DISTRICT NO. 4 approximately

In Section 4, unsurveyed

Township 37 N., Range 3 W.,

of the

Gila and Salt River Meridian.

State-of

State of Arizona.

Applicant for listing Guy May

Residence Fredonia, Arizona.

Application No. 6

, dated January 1

List No.4-2024

, dated September 22 , 1916

Applicant for survey

Residence

H. E. No.

-0

, dated

, 19

Land Office Phoenix.

Survey executed by W. B. Rice, Forest Examiner.

Under special instructions dated January 25

, 19 19

Survey commenced June 19

, 19 19

Survey completed June 20

, 19 19

Under Acts of June 11, 1906 and October 1, 1918.

OVER

I We hereby certify that we assisted W. B. Rice Forest Examiner [Fcrest Service Title.] in surveying all those

parts or portions of Homestead Entry Survey No. 581 , 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 established, according to the instructions furnished by the United States Surveyor General for Arizona

> John Reddy (Chainman)

Subscribed and sworn to before me this

, 1919 . W.B.Rice.

Forest Examiner.

OATH OF SURVEYOR

I, W. B. Rice, Forest Examiner [Forest Service Title.]

do solemnly swear that, in strict conformity with the special instructions of the United States Surveyor General for Arizona , dated January 25 , 1919 , 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. 4-2024 , dated Sept. 22 , 19 16 , for nt , under the Act of June 11 , 1906 , patent the same to be known as Homestead Entry Survey No. National Forest, in situated within the Kaibab National Forest, in usurveyed Section 4 , Township 37 N., Range 3 W. , and surveyed Section , Township , Range , situated within the Kaibab surveyed Section

of the Gila and Salt River meridian, Arizona related retracements and resurveys and section subdivisions, which are represented in the following field notes as having been surveyed by mand 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. W.B.Rice.

Forest Examiner
[Forest Service Title.]

Subscribed and sworn to before me this 17th

November

, 1919.

Hattie P. Patterson

approx.

Notary Public.

Guy May, applicant for listing, application No. 6, dated January 1, 1916.

No entryman or present claimant.

Special instructions, dated January 25, 1919, for H.E. Survey No. 581.

Authority contained in the Acts of June 11, 1906, and October 1, 1918.

Claim situated approximately in unsurveyed Section 4. Township 37 North, Range 3 West, of the Gila and Salt River Meridian, Arizona, in the Kaibab National Forest.

Survey commenced on June 19, 1919, and executed with a Buff and Buff Transit No. 10800, the horizontal limb having two double verniers, placed opposite each other, and reading to single minutes of the arc.

> Measurements made with a Lallie 5-chain steel tape, directly on the slope, and corrected to the horizontal by means of clinometer angles. I examine the adjustments of the transit, finding all

adjustments correct.

LATITUDE DETERMINATION

June 19, 1919; at 7 h. 43.4 m.P.M. 1.m.t., at Cor.

No. 1 of this survey, I observe the altitude of Polaris at lower culmination for latitude.

Longitude = 1120 38' W. (From forest diagram).

Observed altitude = 35° 32'

From this observation I calculate the latitude of Cor. No. 1 as 36° 38' 26" N., which agrees with other data.

MERIDIAN DETERMINATION

OBSERVATION 1.

June 19, 1919: at cor. no. 1 of this survey, I observe

2.

Chains

the altitude of the sun for azimuth.

Latitude = 36° 38' 26" N. (From observation).

Longitude = 1120 38' W. (From forest diagram).

Time obtained by comparison with telegraphic clock,

at Marysvale, Utah, and checked by meridional observation of the sun during the observation for latitude recorded above.

At 9 h. 35 m., A. M., apparent time.

Observed vertical angle, upper right quadrant = 56° 29'.

Observed vertical angle, lower left quadrant = 56° 18'

Mean observed altitude = 56° 23' 30"

Horizontal angle (from reference to right to sun) =

From this observation I calculate the bearing of Cor.

No. 7 of this survey as N. 55° 57' 45" W., and

to the corresponding meridian all courses of

this survey are referred.

OBSERVATION 2

June 19, 1919; at Cor. No. 2 of this survey, I ob-

serve the altitude of the sun for azimuth.

Latitude = 36° 38' 03" N. (By account from observation).
Longitude = 112° 39' W. (From forest diagram).

At 2 h. 48 m., P. M., apparent time.

Observed vertical angle, upper left quadrant = 520 17'
Observed vertical angle, lower right quadrant = 510 20'
Mean observed altitude = 510 48' 50"

Horizontal angle (from reference to right to sun) = 280° 41° 30°

From this observation I calculate the bearing of Cor.

No. 3 of this survey as N. 18° 57' 13" W.

The bearing of line 2-3 thus obtained agrees within 00 0 13" with the bearing of the same line as determined by projection from the solar meridian established by me at cor. No. 1 of this survey,

on June 19, 1919, and described above.

I therefore conclude that my meridian is correct.

ESTABLISHMENT OF U. S. LOCATING MONUMENT NO. 581.

June 19, 1919.

There being no accepted cor. of the Public survey or other established monument within two miles, I establish U.S. Locating Monument No. 581 as follows: I chisel USLM-581 and a cross (x) on the top of a limestone, in place, 10 x 10 ft., showing 4 ft. above ground and raise a mound of stone, 6 ft. base, and 4 ft. high, along side to the west. This monument is lacated on the south side of Snake Gulch and is plainly visible to anyone passing down the canyon. The junction of Snake Gulch and Kanab wash is about one mile to. the SW. There were no cors. of the public survey, established monument, or any natural features to which this monument could be tied for the purpose of better identification. This monument is identical with Cor. No. 1 of this survey.

Beginning at Cor. No. 1 of this survey, identical with
the U.S. Locating Monument No. 581, heretofore
described, a limestone in place, 10 x 10 ft.,
showing 4 ft. above ground, mkd. USIM-581
and a cross (x), I take the cross (x) on this
monument for chaining and angle point for Cor.
No. 1 of this survey, and in addition mkd. it

1-HES-581 on the west face. This rock was mkd. H-4
and witnessed by one bearing rock, although listing field notes described a small stone set in a
mound of stone. I obliterate the markings on
this rock for Cor. No. 4 of the listing survey,

4.

HOMESTEAD ENTRY SURVEY NO. 581

KAIBAB NATIONAL FOREST

STATE OF ARIZONA

and obliterate the markings on the witness to Chains Cor. No. 4 of the listing survey. A red sandstone, in place, 3 x 3 ft., showing 2 ft. above ground, bears S. 62° 26' E., 69 lks. dist. A limestone, in place, 9 x 5 ft., showing 3 ft. above ground, bears S. 19° 56' W., 62 lks. dist. Both rocks mkd. X-1-HES-581-BR. Latitude = 36° 38' N.) From observation Longitude = 112° 38' W.) From Forest diagram. Observed Magnetic Declination, 10:00 A.M., June 19, 1919 I 16° 30' E. Mean magnetic declination 16° 29' 30" E. ile pacte , a ir . ru Thence . S. 52° 43' W. Over brushy land. Descend. 10.00 | 45 ft. below Cor. No. 1. Over level land. 32.00 Ascend. Ridge bears N. and S. about 85 ft. above point of ascent. Descend. About 55 ft. below ridge. 48.25 Ascend. About 50 ft. above point of ascent. Over level land 50.75 Descend. 54.50 Dry wash, course NW., about 50 ft. below point of descent. 59.00 Ascend. About 25 ft. above dry wash. Descend. 60.30 E. bank of Snake Wash about 55 ft. below point of descent 75.40 76.12 West bank of Snake Wash. Over level land. To Cor. No. 2, for which I set a limestone, 24 x 10 x 8 79.69 ins., 14 ins. in the ground, marked 2-HES-581 on Ver . the side facing the claim, and a cross (x) on the top for Cor. No. 2 of this survey. No bearings. therefore, dig pits, 24 x 24 x 12 ins., crosswise

want in the LL one to be

34:60

on this and the succeeding course, 7 ft., dist., and raise a mound of earth, 4 ft. base, high, $3\frac{1}{2}$ ft. dist., within the claim.

Cor. No. 5 of the listing survey, which is a limestone, firmly set, mkd. and witnessed as described by the Forest Service, bears S., 3 chs. dist. I destroy this corner and obliterate the markings and its witness.

Change in the location of this corner was made in order to keep the area of the claim within statutory limitations.

Thence

. 18° 57' W.

Over level brushy land.

Edge of Kanab Wash, 40 ft. deep, bears NE. and SW. 2.60

Kanab Creek, 25 lks. wide, 6 ins. deep, flows SW. 3.60

20.30 Kanab Creek flows E.

24.50 Edge of Kanab Wash, 30 ft. deep bears E. and W.

30.60 Edge of Kanab Wash, 40 ft. deep, bears NE. and SW.

31.90 Kanab Creek, 25 lks. wide, 6 ins. deep, flows SW.

Edge of Kanab Wash, '40 ft. deep, bears 'NE. and SW.

Cor. No. 3, 'identical with Cor. No. 6 of the listing 38.03

Survey, which is a limestone firmly set, mkd.

and withessed as described by the Forest Service,

in place of which I set a limestone, 24 x

8 x 6 ins., 14 ins. in the ground, over a limestone 3 x 2 x 2 ins., mkd. with a cross

(x) for Cor. No. 3 of this survey; marked 3-HES-

581 on the side facing the claim, and a cross

(x) on the top, and raise a mound of stone,

4 ft. base, 2 ft. high, 31 ft. dist., within

the claim.

No bearing objects available, pits impracticable.

I obliterate the markings on the witness to the listing

STATE OF ARIZONA

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object for this survey.

June 20, 1919.

June 19, 1919.

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N. 43° 42' E.

Over level land.

6.00 Edge of Kanab Wash, 50 ft. deep, bears N. and S.

6.25 Kanab Creek, 25 lks. wide, 1 ft. deep, flows south,

11.20 Kanab Creek, 50 lks. wide, 6 ins. deep, flows west.

22.00 | Kanab Creek, 50 lks. wide, 3 ins. deep, flows southeast.

24.00 Edge of Kanab Wash. 40 ft. high, bears NW. and SE.

27.23 To Cor. No. 4, identical with Cor. No. 7 of the list-

ing survey, which is a red sandstone boulder in place, 4 x 4 ft., showing 2 ft. above ground, mkd. and witnessed as described by the Forest Service, I obliterate the markings on this rock for Cor. No. 7 of the listing survey and mk. it 4-HES-581 on the side facing the claim and a cross (x) on the top for Cor. No. 4 of this survey; and raise a mound of stone, 4 ft. base, 2 ft. high, $3\frac{1}{2}$ ft. dist., within the claim.

A red sandstone, in place, 4 x 4 ft., showing 4 ft.

above ground, bears N. 63° 49' E., 33 lks. dist.

A red sandstone, in place, 6 x 2 ft., showing 2 ft. above ground, bears S. 54° 22' E., 28 lks. dist.

Both rocks mkd. X-4-HES-581-BR.

I obliterate the markings on the witnesses to the listing corner.

Thence

S. 3° 28' E.

Over level brushy land.

4.60 Edge of Kanab Wash, bears NW. and SE.

7.10 Edge of Kanab Wash, bears NE. and SW.

9.50 Ascend.

About 45 ft. above point of ascent. 14.50

Descend.

19.04

To Cor. No. 5, about 15 ft. below point of descent, identical with cor. No. 1 of the listing survey, which is a limestone, firmly set, mkd. and witnessed as described by the Forest Service, in place of which I set a limestone, 26 x 13x7 ins., 16 ins. in the ground, over a limestone, 4 x 2 x 2 ins., 'mkd. with a cross (x) for Cor. No. 5 of this survey; mkd. 5-HES-581 on the side facing the claim, and a cross (x) on the top; and raise a mount of stone, '4 ft. base, 2 ft. high, 31 ft. dist. within the claim.

A limestone, in place, $3\frac{1}{2} \times 2$ ft., showing $1\frac{1}{2}$ ft. above ground, bears N. 310 42' E., 105 lks. dist.

A limestone, in place, 2 x 2 ft., showing 1 ft. above ground, bears N. 40 34' E., 63 lks. dist. Both rocks, mkd. X-5-HES-581-BT.

I obliterate the markings on the witness to the listing Cor.

Thence

N. 81° 40' E.

Over broken land. Ascend.

. mostifice a proper

About 65 ft. above Cor. No. 5, Descend. 15.50

Edge of Snake Gulch, bears NE. and SW. 26.60

Edge of Snake Gulch, bears NW. and SE. 28.00

To Cor. No. 6, about 50 ft. below point of descent, 28.49

> for which I set a red sandstone, 30 x 16 x 8 ins., 20 ins. in the ground, over a limestone, 4 x 2 x 2 ins., mkd. with a cross (x) for Cor.

No. 6 of this survey; mkd. 6-HES- 581 on

Col. M. dor this how, ; Mt. Jan -Col as

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STATE OF ARIZONA

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the side facing the claim, and a cross (x) on the top; and raise a mound of stone, 4 ft. base, 2 ft. high, $3\frac{1}{2}$ ft. dist., within the claim.

A red sandstone, in place, 7 x 6 ft., showing 5 ft. above ground, bears N. 700 58 W., 80 lks, dist.

A red sandstone, in place, 8 x 4 ft., showing 4 ft. above ground, bears N. 28° 35° W., 44 lks. dist.

Both rocks mkd. X-6-HES-581-BR.

Cor. No. 2 of the listing survey, which is a sandstone boulder, in place, 8 x 5 ft., showing 5 ft. above ground, mkd. and witnessed as described by the Forest Service, bears N. 10 lks. dist.

I destroy the markings on this stone and on its witnesses.

A slight change in the position of this cor. was made in order to get a better location.

Thence

N. 57° 52° E.

Over level land.

23.75

To Cor. No. 7, identical with Cor. No. 3 of the listing survey, which is a sandstone, firmly set, mkd. and witnessed as described by the Forest Service, in place of which I set a limestone, 24 x 12 x 6 ins., 14 ins. in the ground, over a limestone, 4 x 4 x 2 ins., mkd. with a cross (x) for Cor. No. 7 of this survey; mkd. 7-HES-581 on the side facing the claim, and a cross (x) on the top; and raise a mound of stone, 4 ft. base, 2 ft. high, 3 ft. dist., within the claim.

A limestone, in place, 15 x 15 ft., showing 6 ft. above ground, bears S. 690 41' E., 126 lks. dist.

STATE OF ARIZONA

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mkd. X-7-HES-581-BR.

No other bearing objects available, pits impracticable. I obliterate the markings on the witness to the listing cor.

. Figh of the

S. 55° 58' E.

Over level bottom land.

3.24 North bank of Snake Wash, bears NE. and SW.

3.90 South bank of Snake Wash, bears NE. and SW.

To Cor. No. 1, the place of beginning. 9.10

June 20, 1919.

AREA

Area of H. E. Survey No. 581 = 158.06 acres.

IMPROVEMENTS

There are no improvements of any kind on this claim.

DESCRIPTION

This claim lies on level bottom land at the junction of Snake Gulch and Kanab Wash. The soil is sandy loam. No timber of any kind on the claim. No mineral or indications of mineral. No cultivation. There is water in Kanab Wash available for the irrigation of this claim, but large expense would have to be incurred in order to raise the water out of Kanab wash, which has banks averaging from 40 to 50 ft. in height. Fredonia, Arizona, the nearest postoffice, lies about 50 miles by trail and road to the north. Marysvale, Utah, the nearest accessible railroad point, lies about 200 miles by trail and road to the North. There are no adjoining or nearby claims.

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STATE OF ARIZONA

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No officer qualified to administer the oath being available, the final affidavit of the assistant is made before the surveyor in his official capacity.

June 20, 1919.

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W.B. Rice.

Forest Examiner.

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KAIBAB NATIONAL FOREST

STATE OF ARIZONA

Chains

COMPUTATION SHEET - DIRECT SOLARS

Observation at Cor. No. 1 for bearing of line 1-7.

Cos. Azm. = $\frac{\text{Sin. decl.}}{\text{Cos. Lat. x Cos. V.}}$ - (Tan. Lat. x Tan V).

Latitude = 36°38' 26" N. (From observation).

Longitude = 112° 38' W. (From forest diagram).

June 19, 1919.

At 9 h. 35 m., A.M., apparent time.

Declination= 230 25' 20" N.

Observed vertical angle, upper right quadrant = 560 291

Observed vertical angle, lower left quadrant = 560 18'.

Mean observed vertical angle = 56° 23' 30"

Refrac. in zenith dist. = 00 01 38"

True vertical angle (V) = 56° 22° 52"

Cos. Azm. = 0.89476 - 1.11865 = - 0.22389.

Azm. Sun = S. 77° 03' 45" E.

Horizontal angle (from reference to right to sun) = 158° 54°.

Bearing of line 1-7 = N. 550 57' 45" W.

OBSERVATION 2

At Cor. No. 2 for bearing of line 2-3.

Latitude = 360 38' 03" N. (By account from observation).

Longitude = 112° 39' W. (From forest diagram).

June 19, 1919.

At 2 h. 48 m., P.M., apparent time.

Declination = 230 25' 36" N.

Observed vertical angle, upper left quadrant = 520 17'

Observed vertical angle, lower right quadrant = 510 20

Mean observed vertical angle = 510 48' 30"

Refrac. in zenith dist. = 0' 45"

True vertical angle (V) = 51° 47' 45"

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KAIBAB NATIONAL FOREST

STATE OF ARIZONA

Chains

Cos. Azm. = 0.80109 = 0.94479 = -0.14370.

Azm. Sun = S. 810 44' 17" W.

Horizontal angle (from reference to right to sun) =

· 280° 41' 30".

Bearing of line 2-3 = N. 18° 57' 13" W.

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Form 85. Sheet No. 2.

HOMESTEAD ENTRY SURVEY NO.581

KAIBAB NATIONAL FOREST

STATE OF ARIZONA

Chains

COMPUTATION SHEET

Polaris at lower culmination.

Observation for latitude at Cor. No. 1.

June 19, 1919.

Longitude = 112° 38' W. (From forest diagram).

Latitude = True vertical angle + 90° - declination.

Declination = 88° 52' 14"

Observed vertical angle = 35° 32'

Refrac. in zenith dist. = 01' 20"

True vertical angle = 35° 30' 40"

Latitude = 35° 30' 40" + 90° - 88° 52' 14" = 36° 38'

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.

TARLING AND CALCILLATIONS OF HOMESTEAD ENTRY SURVEY NO 581 STATE OF ARTZONA

8-239 TABLING AND CALCULATIONS OF HOMESTEAD ENTRY SURVEY NO. 581 , STATE OF ARIZONA																
CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.		N. AREAS.		s. AREAS.					
			North. South.		East.											
1-2	s. 52°43' W.	79,69		29 7	48 48	27		63 42	63	42			3062	55		
2-3	N. 18°57' W.	, 38,03	35 35.	97				12 36	139	20	5005	63'				
3-4	N. 430421 E.	27.23	35. 14 19	68			18 81		132		2612					
4-5	S. 3º 28! E.	19.04			19	01	1 15		112				2144	52		
5-6	N. 81°40' E.	28.49	4	13			1 15 28 19		83		343	94				
6-7	N. 57°521 E.	23.75	12	63'			20 11		35	19-	444	45				
7-1	S. 55°58' E.	9.10			5	09-	7 54			54			38	38		
		225.33	72	42'	72	37	75 80′	75 76			8406	74	5245			
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APPROVAL

Office of the United States Surveyor General,

Phoenix, Arizona, April 30, 1921.

The foregoing field notes of Homestead Entry Survey No.

581

executed by W. B. Rice, Forest Examiner

[Forest Service Title.]

under his special instructions, dated January 25, 1919, 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.

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