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U. S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE

AN 3-1916

JUN 5-1917

JUL 2-1917

FIELD NOTES

OF

HOMESTEAD ENTRY SURVEY NO. 305

SITUATED IN THE

CORONADO NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

in

Section 1, un surveyed, Township 23 S., Range 16 E.

of the

Gila and Salt River Base and Meridian.

ARIZONA

Survey executed by Walter G. Turley, Surveyor - Forest Service

Under special instructions dated October 17, 1914 ✓

Survey commenced January 6, 1915

Survey completed January 7, 1915

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

Applicant for listing Josiah G. Best, ✓

Residence Patagonia, Arizona

Application No. 138 ✓, dated January 30, 1909 ✓

List No. 3-484 ✓, dated April 11, 1910 ✓

Applicant for survey Josiah G. Best, ✓

Residence Patagonia, Arizona

H. E. No. 012286 ✓, dated October 24, 1910 ✓

Land district Phoenix, Arizona

127179 df 5. 8' 56" x 6 52' each.

140

66

OATH OF ASSISTANTS

We hereby certify that we assisted Walter G. Turley,
Surveyor - Forest Service in surveying all those
parts or portions of Homestead Entry Survey No. 305, in
un surveyed Section 1, Township 23 S., Range 16 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 sur-
vey 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

Note: It would have been
very expensive and incon-
venient to appear before
an officer to administer
the oaths to Assistants;
hence, they were taken
by the Surveyor.

Charles D. Hodson Chainman
Charles B. Baecht Chainman

Subscribed and sworn to before me this 21st day of
January, 1915.

Walter G. Turley
Surveyor - Forest Service

OATH OF SURVEYOR
Service

I, Walter G. Turley, Surveyor - Forest, do solemnly swear
that, in strict conformity with the special instructions of
the United States Surveyor General for ARIZONA, dated
October 17, 1914, and the laws of the United States, I have
well, faithfully, and truly, in my own proper person, sur-
veyed a tract of land ~~upon the application of~~ embraced in
List, No. 3-484, dated April 11, 1910, for
PATENT, under the Act of June 11, 1906,
the same to be known as Homestead Entry Survey No. 305,
situated within the CORONADO National Forest, in
un surveyed Section 1, Township 23 S., Range 16 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 perpet-
uated in strict accordance with the stated special instruc-
tions, 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

Subscribed and sworn to before me this 23d day of
February, 1915.

Elsie C. Myers
Notary Public



CORONADO NATIONAL FOREST

STATE OF ARIZONA

Chains

Applicant for listing, Josiah G. Best; Application No. 138 dated January 30, 1909; List No. 3-484 dated April 11, 1910; Homestead Entry No. 012286; made in the Phoenix Land Office on October 24, 1910 by Josiah G. Best, whose postoffice address is Patagonia, Arizona. Surveyed under Acts of June 11, 1906 and June 30, 1914; and special instructions from the Surveyor General for Arizona, dated October 17, 1914, and designated as Homestead Entry Survey No. 305.

Situated in what will probably be when surveyed, Sec. 1, T. 23 S., R. 16 E., Gila and Salt River Base and Meridian within the Coronado National Forest, Arizona.

Survey commenced January 6, 1915, and executed with a W. & 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 to 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. The stadia wire interval is adjusted to read 1:132.

All distances are horizontal; and were reduced from measurements made directly on the slope, with a standard 500 link steel tape graduated to links and tenths; and the slope angles determined with a clinometer the vernier of which reads to degrees; and a Philadelphia stadia rod, graduated to feet and hundredths, provided

CORONADO NATIONAL FOREST

STATE OF ARIZONA

Chains

with two targets the verniers of which read to thousandths of a foot.

January 6, 1915.

I set up my transit over cor. H-1 of List 3-484 which is a granite stone 10 x 6 x 5 ins. above ground, marked and witnessed as described by the Forest Service; and, with telescope direct, I observe Polaris in accordance with instructions at 8h. 30m. 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. $31^{\circ} 27' 57''$ N. Long. $110^{\circ} 40' 07''$ W.

Astron. l.m.t., obsn. Jan. 6, 1915 8h. 30.0m.

Astron. l.m.t., U.C.Pol., Jan. 6, 1915 6h. 26.9m. ✓

Hour angle Pol. at obsn. 2h. 03.1m.

Azimuth Pol. at obsn. $0^{\circ} 41' 42''$ W. ✓

With my transit set up over cor. H-1 of List 3-484 heretofore described, and the telescope reversed in altitude and azimuth, at 8h. 40m., 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. Jan. 6, 1915 8h. 40.0m.

Astron. l.m.t., U.C.Pol., Jan. 6, 1915 6h. 26.9m. ✓

Hour angle Pol. at obsn. 2h. 13.1m.

Azimuth of Pol. at obsn. $0^{\circ} 44' 36''$ W. ✓

January 6, 1915.

CORONADO NATIONAL FOREST

STATE OF ARIZONA

Chains

January 7, 1915.

I turn off $0^{\circ} 41-1/2'$, the azimuth of Polaris, to the E. from her direction at 8h. 30m., p.m., l.m.t., Jan. 6, 1915; 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 $0^{\circ} 44-1/2'$, the azimuth of Polaris, to the E. from her direction at 8h. 40m., 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 $0^{\circ} 00' .34''$ 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 $31^{\circ} 27' 59''$ N. and Longitude $110^{\circ} 39' 47''$ W.

at SW. cor. to T. 22 S., R. 17 E. taken from the

Special Instructions of the Surveyor General which re-

duced gives Latitude $31^{\circ} 27' 57''$ N. and Longitude 110°

$40' 07''$ W. at cor. No. 1 of this survey. It was not

practicable to check the latitude by direct obser-

vation.

My watch is set for standard 105th meridian time from

which I subtract 22m. 40s. for l.m.t.

Observed magnetic declination Cor. No. 1, 8h. 00m., a.m.,

l.m.t., January 7, 1915, $13^{\circ} 40'$ E., which reduced

gives a mean magnetic declination of $13^{\circ} 39'$ E.

Chains

Tie.

Thence S. 83° 28' W.

On a random line by direct measurement from the SW. cor. T. 22 S., R. 17 E., which is a malpais stone 12 x 12 x 8 ins. above ground chiseled with 6 notches on the N., E. and S. edges with mound of stone S. of cor. from which:

A 20 in. oak scribed T 22 S, R 17 E, S 31 B T, bears N. 33° 30' E., 89 lks.

A 24 in. oak scribed T 23 S, R 17 E, S 6 B T, bears S. 76° 30' E., 44 lks.

26.57 I fell 13 lks. to the left of Cor. No. 1. Identical with Cor. H-1 of List 3-484 which is a granite stone 10 x 6 x 5 ins. above ground marked and witnessed as described by the Forest Service. I destroy cor. H-1 and its witnesses; and, for Cor. No. 1 of this survey, I chisel (+) on a stone 4 x 3 x 2 ins. and deposit it 15 ins. in the ground; over which I set a basalt stone 25 x 8 x 8 ins., 15 ins. in the ground; chiseled (+) at the point and 1. H E S 305 on the SW. face and raise a mound of stone 2 ft. base, 1-1/2 ft. high, SW. of cor. from which:

A 7 in. black oak scribed 1 H E S 305 + B T bears S. 20° 15' E., 40 lks.

A 5 in. black oak scribed 1 H E S 305 + B T bears N. 54° 30' E., 46 lks.

SW. cor. T. 22 S., R. 17 E., bears N. 83° 45'

26.57 chs.

Boundaries.

Thence S. 3° 31' W.

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STATE OF ARIZONA

Chains	Ascend rolling W. slope 30 ft. in oak brush.
52.65	Spur bears NW. and SE. Descend SW. slope 30 ft.
61.23	Arroyo, 60 lks. wide, banks 4 ft. high, course W. Ascend N. slope 30 ft.
65.00	Patagonia - San Rafael road bears E. and W.
70.66	To cor. No. 2. Identical with cor. H-4 of List 3-484 which is a granite stone 8 x 6 x 3 ins. above ground, marked and witnessed as described by the Forest Service. I destroy cor. H-4 and its witnesses; and, for cor. No. 2 of this survey, 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 14 x 12 ins., 14 ins. in the ground chiseled (+) at the point and 2 - H E S 305 on the NW. face and raise a mound of stone 2 ft. base, 1-1/2 ft. high NW. of cor. from which: A 7 in. white oak scribed 2 H E S 305 + B T bears S. 82° 00' E. 80 lks. A 10 in. black oak scribed 2 H E S 305 + B T bears S. 2° 08' W. 90 lks.
	Thence N. 75° 01' W. Descend W. slope 35 ft. in oak brush.
12.98	Creek bed, 40 lks. wide, banks 2 ft. high, course N. Small stream of water, Ascend E. slope 30 ft.
14.63	To Cor. No. 3. Identical with Cor. H-3 of List 3-484 which is a granite stone 8 x 4 x 4 ins. above ground, marked and witnessed as described by the Forest Service. I destroy cor. H-3 and its witnesses; and, for cor.

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STATE OF ARIZONA

Chains	<p>No. 3 of this survey, 1 chisel (+) on a stone 4 x 4 x 2 ins., and deposit it 14 ins. in the ground; over which I set a porphyry stone 24 x 2 x 5 ins. 14 ins. in the ground; chiseled (+) at the point and 3 - H E S 305 on the NE. face and raise a mound of stone 2 ft. base, 1-1/2 ft. high NE. of cor. from which:</p> <p style="padding-left: 40px;">A 7 in. black oak scribed 3 H E S 305 + B T bears S. 35° 35' E. 32 lks.</p> <p style="padding-left: 40px;">A 7 in. black oak scribed 3 H E S 305 + B T bears N. 89° 30' E. 49 lks.</p> <hr/> <p>Thence N. 8° 07' E.</p> <p>Descend NE. slope 35 ft. A fence bears with line about 10 lks. west of it.</p> <p>13.01 Left bank of creek bed 10 ft. high, course NW. Continue in creek bed.</p> <p>17.10 Left bank creek bed 10 ft. high, course NE. Ascend rolling east slope 15 ft.</p> <p>29.01 To Cor. No. 2 of H E S, 306, a porphyry stone 14 x 5 x 10 ins. above ground, marked + at the point and 2 - H E S 306 on NW. face, with mound of stone 2 ft. base, 1-1/2 ft. high, NW. of cor.</p> <p>Continue along line 2-1 of H E S 306.</p> <p>Descend N. slope 20 ft.</p> <p>34.03 Fence bears NNE. and SSW. Foot of slope. Continue over cultivated land.</p> <p>40.01 To Cor. No. 1 of H E S 306, a quartzite stone 8 x 7 x 10 ins. above ground, chiseled + at the point and 1 H E S 306 on the SW. face, with mound of stone 2 ft. base, 1-1/2 ft. high SW. of cor.</p> <p>40.03 Wire fence bears E. and W. Leave cultivated land.</p>
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CORONADO NATIONAL FOREST

STATE OF ARIZONA

Chains		Chains
40.60	Harshaw road bears NW. and SE.	
44.40	Arroyo, 40 lks. wide, banks 4 ft. high, course E. S. slope 10 ft. in oak brush.	Ascend
51.86	Fence bears NE. and SW. Descend N. slope 10 ft.	
60.45	Arroyo, 10 lks. wide, banks 6 ft. high, course E. SE. slope 20 ft.	Ascend
63.20	Fence bears E. and W.	
64.80	To Cor. No. 4.	
	Identical with Cor. H-2 of List 3-484, which is a basalt stone 12 x 6 x 4 ins. above ground marked and witnessed as described by the Forest Service. I destroy cor. H-2 and its witnesses; and, for cor. No. 4 of this survey, I chisel (+) on a stone 4 x 3 x 3 ins. and deposit it 16 ins. in the ground; over which I set a basalt stone 26 x 12 x 7 ins., 16 ins. in the ground; chiseled (+) at the point and 4 - H E S 305 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. black oak scribed 4 H E S 305 + B T bears S. 75° 20' E., 110 lks.	
	A 10 in. black oak scribed 4 H E S 305 + B T bears S. 32° 30' W., 98 lks.	
	Cor. common to Secs. 35 and 36, T. 22 S., R. 16 E. which is a standard iron post with brass cap 9 ins. above ground marked and witnessed as described by the Surveyor General bears N. 49° 00' W. 18.99 chs. from Cor. No. 4, by direct measurement.	

Chains	<p>Thence N. 74° 28' E.</p> <p>Descend E. slope 30 ft. in oak brush.</p> <p>Creek bed 80 lks. wide, banks 3 ft. high, course N.</p> <p>Ascend W. slope 25 ft. in oak brush.</p> <p>Patagonia - San Rafael road bears N. and S.</p> <p>To Cor. No. 1, the place of beginning.</p>	<p>03.04</p> <p>04.44</p> <p>51.86</p> <p>60.48</p>
3.70		
5.70		
9.70		
AREA		
Total Area	79.45 Acres	84.88
IMPROVEMENTS		
	<p>A well 4 x 4 x 21 feet deep with 2 H. P. gasoline engine and wind mill, the center of which bears S. 34° 24' W., 10.00 chs. from cor. No. 1 of this survey.</p> <p>Estimated Value \$350.00</p> <p>Two 1,000 gallon galvanized iron tanks, the center of which bears S. 34° 15' W., 10.00 chs. from cor. No. 1 of this survey.</p> <p>Estimated Value \$ 50.00</p> <p>A T shaped frame dwelling 48 x 48 ft., the long side extending N. and S. and the NE. cor. of which bears S. 29° 25' W., 10.80 chs. from cor. No. 1 of this survey.</p> <p>Estimated Value \$1,500.00</p> <p>A frame chicken house 16 x 18 ft., the long side extending E. and W. and the NE. cor. of which bears S. 33° 57' W., 12.00 chs. from cor. No. 1 of this survey.</p> <p>Estimated Value \$ 25.00</p>	

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CORONADO NATIONAL FOREST

STATE OF ARIZONA

Chains

A frame stable and garage 36 x 14 ft., the long side extending E. and W. and the NE. cor. of which bears S. 35° 25' W., 12.15 chs. from cor. No. 1 of this survey.

Estimated Value \$75.00

Approximately 1-1/2 miles of wire fencing.

Estimated Value \$150.00

Approximately 6 acres of cultivated land.

DESCRIPTION

This claim is situated on the NE. slope of the Patagonia Mts. at an elevation of approximately 4,500 ft. and is valuable for a live-stock ranch.

Oak brush on the slopes and a few sycamores along the arroyo beds are the only trees.

Sufficient water for cattle and domestic purposes is obtained from the arroyo and well. None is used for irrigation.

The bottom soil is a sandy loam and produces good crops of fruit and garden vegetables.

This section is mineralized but no townsites, mining, coal or oil claims are known to have been located on or near this homestead.

Patagonia postoffice and railway station is 9 miles by wagon road in a northwesterly direction.

There are no conflicts. H. E. S. No. 306, (Surveyed) adjoins this claim on the west.

It was not practicable to run a true line by direct measurement from H. E. S. No. 306 to U.S.M.M. No. 1, Harshaw Mining District as directed by the Surveyor General in special instructions for H. E. S. No. 306.

CORONADO NATIONAL FOREST

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Chains I computed the location of U. S. M. M. No. 1 from bearings taken at cor. Nos. 1 and 2, H. E. S. No. 305 and the resultant well conditioned triangle as follows:

U. S. M. M. No. 1, Harshaw Mining District
bears S. 69° 52' W. from cor. No. 1
H.E.S. No. 305.

U. S. M. M., No. 1. Harshaw Mining District
bears S. 88° 58' W. from cor. No. 2,
H. E. S. No. 305.

Log. 70.66 = 1.849174

Log. Sin. 94° 33' = 9.998629
1.847803

Log. Sin. 19° 06' = 9.514837

Log. = 2.332966

Dist. = 215.26

U.S.M.M. No. 1 bears S. 69° 52' W.,
215.26 chs. from cor. No. 1 of this survey.

TRAVERSE

Cor.	Course	Dist.	N.	S.	E.	W.
1-2	S. 3° 31' W.	70.66		70.53		4.33
2-3	N. 75° 01' W.	14.63	3.78			14.13
3-4	N. 8° 07' E.	64.80	64.15		9.15	
4-1	N. 74° 28' E.	9.70	2.60		9.35	
		159.79	70.53	70.53	18.50	18.46
				70.53	18.46	
Error in Lat. and Dep.				0.00	0.04	

Closing Error 1:3995.

Survey completed January 7, 1915.

Walter G. Tuttle
Surveyor Forest Service

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. 305, STATE OF ARIZONA, J. G. Best - Coronado

8-2349

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.	S. AREAS.
			NORTH.	SOUTH.	EAST.	WEST.			
1-2	S. 3° 31' W.	70.66		70 53	4	⁵⁻ 33	32 61		2299 98
2-3	N. 75° 01' W.	14.63	3 78		14	13	14 13	53 41	
3-4	N. 8° 07' E.	64.80	64 15		9	³ 15	9 13	585 69	
4-1	N. 74° 28' E.	9.70	2 60		9	35	27 61	71 79	
		159.79	70 53	70 53	18 50	18 46		710 89	2299 98
			^{70 53}	^{70 53}	^{18 48}	^{18 48}		710 89	710 89
								1589 09	1589 09
								Area	79 45
Closing error 1:3995									

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7A.

APPROVAL

Office of the United States Surveyor General,

Phoenix, Arizona JUL 12 1917 , 191

The foregoing field notes of Homestead Entry Survey No.

305

executed by

Walter G. Turley, ~~Surveyor~~

[Forest Service Title.]

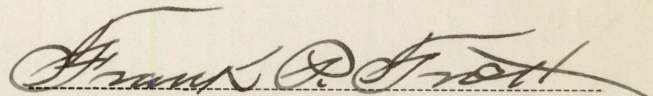
under his special instructions, dated

Oct. 17, 1914, 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.