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U. S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE

OCT.-2 1916

FIELD NOTES

OF
Establishment of U.S.L.M. No 290 and of
HOMESTEAD ENTRY SURVEY NO. 290

OCT. 2-1915

SITUATED IN THE **CORONADO** NATIONAL FOREST

FEB. 15. 1918

ADMINISTRATIVE DISTRICT NO. 3

In Section **17** , un surveyed, Township **23 S** , Range **19 E.**
In Section **18**, unsurveyed, Township **23 S** , Range **19 E.**

of the

Gila and Salt River Base and Meridian.

State of

Arizona

Inspection report herewith

Applicant for listing **J. H. Merritt,**

Residence **Canille, Arizona.**

Application No. **121** , dated **August 12** , 1908.

List No. **3-428½** , dated **January 25,** , 1910.

Applicant for survey **J. H. Merritt,**

Residence **Parker Canyon, Arizona.**

H. E. No. , dated , 19

Office
Land District **Phoenix, Arizona.**

Survey executed by **Charles D. Hodson, Surveyor-Draftsman,**
[Forest Service Title.]

Under special instructions dated **October 17,** , 1914.

Survey commenced **February 2,** , 1915

Survey completed **February 2,** , 1915.

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

OATH OF ASSISTANTS

We hereby certify that we assisted **Charles D. Hodson,**
Surveyor-Draftsman, Forest Service in surveying all those
[Forest Service Title.]

parts or portions of Homestead Entry Survey No. **290**, 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 inconvenient to
have appeared before an officer
to administer the oaths to as-
sistants; hence, they were taken
by the surveyor.**

E. H. Baecht **Chairman.**

M. J. Robert **Chairman.**

Subscribed and sworn to before me this *first* day of

March, 19*15*.

Charles D. Hodson

Surveyor-Draftsman.

OATH OF SURVEYOR

I, **Charles D. Hodson, Surveyor-Draftsman, Forest Service**
[Forest Service Title.]

do solemnly swear that, in strict conformity with the special instruc-
tions of the United States Surveyor General for **Arizona**, dated
October 17, 1914, 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. **3-428 $\frac{1}{2}$** , dated **January 25**, 19*10*, for
Patent, under the Act of **June 11**, 19*06*,
the same to be known as Homestead Entry Survey No. **290**,
situated within the **Coronado** National Forest, in
un surveyed Section 17, Township **23 S.**, Range **19 E.**, and
un surveyed Section 18, Township **23 S.**, Range **19 E.**,

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 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.

Charles D. Hodson

Surveyor-Draftsman.

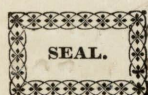
[Forest Service Title.]

Subscribed and sworn to before me this *3rd* day of

March, 19*15*.

Maudie L Bowen

Notary Public



*My commission
expired Sept 26, 1916*

CORONADO NATIONAL FOREST

STATE OF ARIZONA

Chains

Applicant for listing, J. H. Merritt; Application No. 121, dated August 12, 1908; List No. 3-428 $\frac{1}{2}$, dated January 25, 1910.

Surveyed under special instructions from the Surveyor General for Arizona, dated October 17, 1914, and designated as H. E. S. No. 290.

Located in unsurveyed T. 23 S. R. 19 E., G. & S. R. B. and M. in what will probably be when surveyed, secs. 17 and 18, within the Coronado National Forest, Arizona.

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

Survey commenced February 2, 1915, and executed with a Buff and Buff "Forest Service" transit, No. 9700-6, with vertical circle. The horizontal limb has two double verniers placed opposite to each other, and reads to single minutes of arc, which is also the least count of the vernier on the vertical circle. I test the adjustments of the transit and make necessary corrections.

All distances are horizontal and were reduced from measurements made on the slope with a 500 link steel tape, and the slope angles were determined with a clinometer.

February 2, 1915.

At cor. No. 1 of the list survey and what will be cor. No. 1 of this survey, I observe the altitude of the sun for azimuth. The reading on the reference object is set at zero and the sun was observed in the lower left and upper right quadrants of the field. My watch is set for l.m.t., lat. 31° 25' 21" N. and long. 110° 27' W., obtained from special instructions of the Surveyor General. and later verified

180

Chains

Telescope	l.m.t.	Hor. Ang.	Vert. Ang.	Position of sun
Direct	2h. 00m. 42s.	76° 46'	35° 26'	+
Reversed	2h. 02m. 13s.	77° 07'	34° 43'	+°
Mean	2h. 01m. 27s.	76° 56' 30"	35° 04' 30"	
Azimuth of sun at obsn. S. 32° 16' 28" W.				
Resultant bearing of reference point N. 70° 47' 02" W.				
Direct	2h. 03m. 28s.	76° 06'	35° 06'	+
Reversed	2h. 04m. 40s.	76° 27'	34° 27'	+°
Mean	2h. 04m. 04s.	76° 16' 30"	34° 46' 30"	
Azimuth of sun at obsn. S. 32° 56' 32" W.				
Resultant bearing of reference point N. 70° 46' 58" W.				
Resultant mean bearing of reference point N. 70° 47' W.				

With the verniers of the horizontal limb set on zero I sight on the reference point above and lay off 70° 47' to the R. and establish a meridian by driving a nail in a stake set firmly in the ground 5.00 chs. N. of my station. To this meridian all courses of this survey are referred.

There being no public land corner or U. S. L. M. within two miles of this claim, I establish U. S. L. M.

No. 290 H. E. S. as follows:

At a point on a ridge sloping gently to the S. and from which point the greatest amount of the surrounding country is visible, I set a sandstone 34 x 14 x 6 ins. 24 ins. in the ground over a small stone marked with a cross chiseled (+) at the point and U S L M No. 290 H E S on the E. face and raise a mound of stone 6 ft. base, 4½ ft. high, SE. 8 ft. from U.S.L.M. from which

My watch is set for 11:30 A.M. and from 11:00 A.M. and from 11:00 A.M. obtained from special instrum.

CORONADO NATIONAL FOREST

STATE OF ARIZONA

Chains. A double black oak 12 ins. dia. blazed and scribed U S L M No 290 H E S + B T bears N. 59° 09' E. 139 lks. dist.

A white oak 10 ins. dia. blazed and scribed U S L M No 290 H E S + B T bears N. 28° 47' W. 142 lks. dist.

Canille Peak bears N. 66° 43' W. approximately 1 mile dist.

Peterson's Peak bears N. 46° 00' E. approximately 3 1/2 miles dist.

South Peak in the Huachuca Mts. bears S. 73° 35' E. approximately 12 miles dist.

Serillo Peak in Mexico bears S. 17° 32' W. approximately 12 miles dist.

Beginning at cor. No. 1

Identical with cor. H-1 of the listing survey which is a sandstone 12 x 12 x 10 ins. above ground marked and witnessed as described by the Forest Service. I destroy all trace of the list cor. and at this point I set a sandstone 26 x 10 x 8 ins. 16 ins. in the ground, over a small stone marked with a cross, chiseled (+) at the point and 1-H E S 290 on the side facing the claim, and raise a mound of stone 2 ft. base, 1 1/2 ft. high, within the claim 3 1/2 ft. dist. from cor. from which

A juniper 24 ins. dia. blazed and scribed 1 H E S 290 + B T bears S. 0° 48' W. 162 lks.

A juniper 30 ins. dia. blazed and scribed 1 H E S 290 + B T bears S. 85° 30' E. 195 lks.

U.S.L.M. No. 290 heretofore described bears S. 68° 37' W. 14.29 chs. by direct measurement.

Chains
 Mag. decl. 13° 30' E. at 10h. 00m. a.m., l.m.t.
 Mean mag. decl. 13° 27' 48" E.
 Lat. 31° 25' 21" N. Long. 110° 27' W. taken from
 the special instructions from the Surveyor General.
 and later verified.

Thence N. 82° 42' E.
 Asc. 20 ft. over rocky S. slope.
 12.00 Top of asc. Thence over level ground.
 18.00 Fence bears NE. and SW. Enter cultivated land and
 asc. 10 ft.
 25.00 Parker Creek 15 lks. wide, banks 2 ft. high, course SW.
 36.00 To cor. No. 2.
 Identical with cor. H-4 of the list survey, which is
 a sandstone 8 x 6 x 8 ins. above ground, surrounded
 by a mound of stones, 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 9 ins. 16 ins. in the ground, over a small
 stone marked with a cross, chiseled (+) at the point,
 and 2-H E S 290 on side facing the claim; and raise
 a mound of stone 2 ft. base, 1½ ft. high, within
 the claim 3½ ft. dist from cor. from which
 A juniper 6 ins. dia. blazed and scribed
 2 H E S 290 + B T bears N. 59° 10' W. 139 lks.
 A juniper 5 ins. dia. blazed and scribed
 2 H E S 290 + B T bears S. 69° 20' W. 37 lks.

Thence S. 36° 38' W.
 Desc. 5 ft. over cultivated land.
 2.00 Road bears E. and W.
 11.78 To cor. No. 3
 Identical with cor. H-3 of the list survey which is
 a sandstone 12 x 12 x 8 ins. above ground surrounded
 by a mound of stone, marked and witnessed as described

HOMESTEAD ENTRY SURVEY NO. 290

CORONADO NATIONAL FOREST

STATE OF ARIZONA

Chains	<p>by the Forest Service. I destroy all trace of this list cor. and at this point I set a sandstone 24 x 10 x 10 ins. 14 ins. in the ground over a small stone marked with a cross, chiseled (+) at the point, and 3-H E S 290 on the side facing the claim; and raise a mound of stone 2 ft. base, 1-1/2 ft. high within the claim 3-1/2 ft. dist. from cor. from which:</p>
	<p>A juniper 8 ins. dia., blazed and scribed 3 H E S 290 + B T bears N. 80° 57' W. 124 lks. dist.</p>
	<p>A juniper 5 ins. dia., blazed and scribed 3 H E S 290 + B T bears S. 40° 39' E. 85 lks. dist.</p>
	<p>Thence S. 77° 43' W. Desc. 5 ft. over cultivated land.</p>
12.73	<p>To cor. No. 4. Identical with cor. H-2 of the list survey, which is a limestone 18 x 12 x 14 ins. above ground surrounded by a mound of stone marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. and at this point I set a limestone 24 x 8 x 8 ins. 14 ins. in the ground over a small stone marked with</p>
	<p>a cross chiseled (+) at the point and 4-H E S 290 on the side facing the claim; and raise a mound of stone 2 ft. base, 1-1/2 ft. high, within the claim 3-1/2 ft. dist. from the cor. from which:</p>
	<p>A juniper 6 ins. dia. blazed and scribed 4 H E S 290 + B T bears N. 12° 54' E. 63 lks.</p>
	<p>A juniper 8 ins. dia. blazed and scribed 4 H E S 290 + B T bears N. 57° 49' W. 70 lks.</p>
	<p>Thence N. 64° 57' W.</p>
1.10	<p>Leave cultivated land, bears N. and S. Asc. 20 ft. along NE. slope of ridge through scattering oak, bears N. and S.</p>

Chains
 7.50 Top of ridge; desc. 40 ft. along N. slope of ridge.
 14.00 Left bank Parker Creek, 4 ft. high, course W.
 16.00 Right bank Parker Creek, 4 ft. high, course W.
 17.00 Road, bears E. and W.
 17.96 To cor. No. 1, the place of beginning.

Area

Total Area 22.21 Acres.

Improvements.

The improvements made upon and for the benefit of this claim consist of the following:

A two room adobe house, 24 x 18 ft., the long side of which bears N. and S. and the SE. cor. of which bears N. 22° 10' W. 6.90 chs. dist. from cor. No. 4.

Value \$200.00

A pole barn 36 x 14 ft., the long side of which bears E. and W. and the SE. cor. of which bears N. 20° 15' W.,

9.15 chs. dist. from cor. No. 4. Value . . \$ 50.00

Approximately one mile of wire fence. Value . . \$ 75.00

Description.

This claim is situated on the head waters of Parker Creek in a well protected canyon. The hills to the north are steep and well timbered with oak and juniper. The hills to the south have a very gentle slope and are also heavily timbered.

Sufficient water for domestic purposes is obtained from a spring near the house. Water for stock purposes and some irrigation is obtained from the creek that crosses the claim from East to West. The claimant J. H. Merritt practices intensive farming to a great extent, and has approximately one half of his claim

CORONADO NATIONAL FOREST

STATE OF ARIZONA

Chains

under cultivation.

This is not a mineralized section and I saw no indica-

tion of mineral upon the claim.

Conflicts and Adjoining Claims.

There are no conflicts or adjoining claims.

Parker Canon postoffice is seven miles by wagon road
in a southwesterly direction.

Patagonia the nearest railroad point in the United

States is 34 miles by wagon road in a westerly direc-
tion.

Traverse.

Cor.	Course	Dist.	N.	S.	E.	W.
1-2	N. 82° 42' E.	36.00			4.57	35.71
2-3	S. 36° 38' W.	11.78		9.45		7.03
3-4	S. 77° 43' W.	12.73		2.71		12.44
4-1	N. 64° 57' W.	17.96		7.60		16.27
			12.17	12.16	35.71	35.74
			12.16			35.71

Error in lat. and dep. 0.01

0.03

Closing error. 1:2483

Survey completed February 2, 1914.

Charles D. Hodson
Surveyor Draftsman.

CORONADO NATIONAL FOREST

STATE OF ARIZONA

Chains	February 2, 1915. Direct Solar.			Position of sun
	Telescope l.m.t.	Hor.ang.	Vert.ang.	
	Direct 2h. 00m. 42s.	76° 46'	35° 26'	+
	Reversed 2h. 02m. 13s.	77° 07'	34° 43'	-
	Mean 2h. 01m. 27s.	76° 56' 30"	35° 04' 30"	
	Lat. 31° 25' 21" N.		1' 08" refraction	
	Elev. 5650 ft.		35° 03' 22" alt.	
	Long. 110° 27' W.		7h. 21m. 48s.	
	Time 7h. 21m. 48s.		2h. 01m. 27s.	
	Decl. 16° 55' 40.5"		9h. 23m. 15s.	
	cos A = $\frac{\sin \text{ decl.}}{\cos \text{ lat.}}$		tan. lat. tan. alt.	
			42.85"	
	log sin decl. = 9.464144		9.4	
			17140	17° 02' 23.3"
	log cos lat. = 9.931125		38565	
	log cos alt. = 9.913066		402.790	-360" = 6' 42.8"
			9.844191	
			9.619953	= log. .41682
				16° 55' 40.5"
	log tan lat. = 9.785999			
	log tan alt. = 9.846132			
			9.632131	= log. .42868
			Cos A = 84550	
			A = S. 32° 16' 28" W.	
			A = W. 76° 56' 30"	
			A = W. 109° 12' 58"	
	Bearing of reference object N. 70° 47' 02" W.			
	Telescope l.m.t.	Hor.ang.	Vert.ang.	Position of sun
	Direct 2h. 03m. 28s.	76° 06'	35° 06'	+
	Reversed 2h. 04m. 40s.	76° 27'	34° 27'	-
	Mean 2h. 04m. 04s.	76° 16' 30"	34° 46' 30"	
	Lat. 31° 25' 21" N.		1.09" refraction	
	Elev. 56500 ft.		34° 45' 21" alt.	
	Long. 110° 27' W.			
	Time 7h. 21m. 48s.			
	Decl. 16° 55' 40.5"			
	cos A = $\frac{\sin \text{ decl.}}{\cos \text{ lat.}}$		tan. lat. tan. alt.	
	log sin decl. = 9.464144			
	log cos lat. = 9.931125			
	log cos alt. = 9.914655			
			9.845780	
			log. 9.618364	= .41530
	log tan lat. = 9.785999			
	log tan alt. = 9.841282			
			log. 9.627281	= .42392
			Cos. A = .83922	
			A = S. 32° 56' 32" W.	
			76° 16' 30"	
			109° 13' 02"	
			N. 70° 46' 58" 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. 220, STATE OF ARIZONA, Coronado.

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.	S. AREAS.
			NORTH.	SOUTH.	EAST.	WEST.			
1-2	N. 82° 42' E.	36.00	4 57		35 71		35 73	162 93	
2-3	S. 36° 38' W.	11.78		9 45		7 03	64 43		608 86
3-4	S. 77° 43' W.	12.73		2 71		12 44	44 96		121 84
4-1	N. 64° 57' W.	17.96	7 60			16 27	16 26	123 58	
		78.47	12 17	12 16	35 71	35 74		286 51	730 70
			12 16	12 16	25 73	35 73		286 51	286 51
									444 19
									22 21 Acres.
Closing error, 1:2483									

APPROVAL

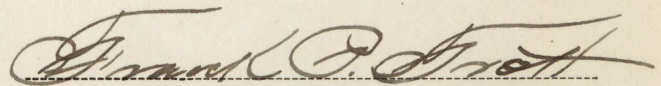
Office of the United States Surveyor General,

Phoenix, Arizona, April 4, , 1917.

The foregoing field notes of Homestead Entry Survey No.

290

executed by Charles D. Hodson, Surveyor-Draftsman, [Forest Service Title.]
under his special instructions, dated October 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.

- 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. 299, STATE OF Arizona

8-2349

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.		N. AREAS.		S. AREAS.			
			NORTH.	SOUTH.	EAST.	WEST.								
			Surveyor's Area		Traverse									
1-2	N. 82° 42' E.	36.00	4 57		35 71			35	75	162	93			
2-3	S. 26° 38' W.	11.78		9 48		7 03		64	43			508	86	
3-4	S. 77° 43' W.	12.73		2 71		12 44		44	96			121	84	
4-1	S. 64° 57' W.	17.96	7 60			16 27		16	26	113	89			
			12 17	12 16	35 71	35 74				206	81	750	70	
			12 16	12 16	35 73	35 73						286	81	
												30	144	19
												88	81	

DIRECTIONS.—1. Carry out calculations to two decimals only.
2. In balancing Latitudes and Departures do not obliterate or change the original figures, but put below them the corrected footing in red ink. 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.

TABLE AND CALCULATIONS OF HOMESTEAD ENTRY SURVEY NO. 200, STATE OF ILLINOIS

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.	S. AREAS.
			NORTH.	SOUTH.	EAST.	WEST.			
1-3	S. 02° 26' 30" W.	55.90	4.86		55.00		55.00	610.07	
2-3	S. 86° 29' 00" W.	12.79		9.49		7.02	64.37	188.24	
3-4	S. 77° 29' 00" W.	12.72		9.70		12.42	44.54		
4-1	S. 02° 02' 00" W.	17.92	7.52			16.06	16.24		
		98.63	12.38	19.19	55.00		200.19	808.11	
								808.69	
								21.44	828.51

L
Entry Surveys
Inspection - Coronado
Merritt, J. H. R.E.S. 290

Original survey by Charles D. Hedson, Surveyor - Draftsman.
Inspection by C. A. Long, Surveyor Forest Service.

1. Inspection was begun May 29, 1917 and completed May 29, 1917. The case is a metes and bounds survey situated in unsurveyed Secs. 17 and 18, T. 23 S., R. 19 E. G. and S. R. B. and M., Coronado National Forest, Arizona.
2. The transit used was a Buff and Buff light Mountain. Bearing of lines referred by angulation to azimuth determined by obsn. of Polaris on May 29, 1917 in connection with the survey of H. E. S. 535.
3. The lands included in the survey are properly listable from view-point of status and classification.
4. No overlaps or hiatus exist.
5. This claim is situated in an unsurveyed township and the position of the corners do not depend upon the public land corners.
6. The corners were of good material and were well set. Corners and witnesses properly marked.
7. The position of the corners do not depend upon subdivision and are believed to be correct.

Surveys

Distances

Station	Surveyor	Inspector	DIFT	Surveyor	Inspector	DIFT
1-2	15.82°42' E.	15.82°36' E.	.06	26.00	25.99	.01
2-3	15.26°38' W.	15.26°29' W.	.09	11.79	11.79	.01
3-4	15.77°45' W.	15.77°39' W.	.06	12.75	12.71	.04
4-1	15.66°57' W.	15.66°02' W.	.05	17.96	17.96	.00

194

