

ORIGINAL

105

U. S. DEPARTMENT OF AGRICULTURE FOREST SERVICE

MAR. 23. 1918

FIELD NOTES

OF

MAR 3-1916

HOMESTEAD ENTRY SURVEY NO. 367

SITUATED IN THE COCONINO NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

In Section 21 , un surveyed, Township 18 N., Range 6 E.

of the

Gila and Salt River Base and Meridian.

State of

ARIZONA.

Applicant for listing **Jesse E. Purtyman,**

Residence **Sedona, Arizona.**

Application No. **84** , dated **August 29** , 19 **08.**

List No. **3-1127** , dated **February 10** , 19 **11.**

Applicant for survey **Jesse E. Purtyman,**

Residence **Sedona, Arizona.**

H. E. No. **015177** , dated **August 14** , 19 **11.**

Land District **Phoenix, Arizona.**

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

Under special instructions dated **July 9** , 19 **15.**

Survey commenced **August 15** , 19 **15**

Survey completed **August 16** , 19 **15**

Under Acts of **June 11, 1906 and March 4, 1915.**



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OATH OF ASSISTANTS

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

parts or portions of Homestead Entry Survey No. **367**, 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 incon-
venient to appear before an
officer to administer oaths
to Assistants; hence, they
were taken by the Surveyor.

W. G. Baecht, Chairman
D. E. Moister, Chairman

Subscribed and sworn to before me this **first** day of
October, 19 **15.**

Charles D. Hodson

Surveyor - Draftsman.

OATH OF SURVEYOR

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

do solemnly swear that, in strict conformity with the special instruc-
tions of the United States Surveyor General for **Arizona**, dated
July 9, 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. **3-1127**, dated **February 10, 1911**, for
Patent, under the Act of **June 11**, 19**06**,
the same to be known as Homestead Entry Survey No. **367**,
situated within the **Coconino** National Forest, in
un surveyed Section **21**, Township **18 N.**, Range **6 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 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 **eight** day of
October, 19**15.**

Elsie C. Myers
Notary Public



HOMESTEAD ENTRY SURVEY NO. 367

COCONINO NATIONAL FOREST

STATE OF ARIZONA.

Chains Applicant for listing, Jesse E. Purtyman, Application No. 84, dated August 29, 1908; List No. 3-1127, dated February 10, 1911; H. E. 015177, made in the Phoenix Land Office August 14, 1911 by Jesse E. Purtyman.

Surveyed under special instructions from the Surveyor General for Arizona, dated July 9, 1915 and designated as Homestead Entry Survey No. 367.

Situated in unsurveyed sec. 21, T. 18 N., R. 6 E., G. and S. R. B. and M., Coconino National Forest, Arizona.

Surveyed under Acts of June 11, 1906 and March 4, 1915.

Survey commenced August 15, 1915 and executed with a Buff and Buff transit.

I test the adjustments of the transit and make necessary corrections.

All measurements were made on the slope with a 500 link steel tape and slope angles determined with a clinometer.

August 15, 1915.

At 9h. 50m., p.m., l.m.t. at cor. No. 1, with telescope direct, I begin to follow the progress of the star, and when it reaches its maximum eastern position and begins to thread the wire, I depress the telescope and mark the line thus determined with a tack driven in a stake set 5.00 chains N. of my station.

I reverse the telescope and again observe the star and mark the line with a tack driven in the stake 5.00 chains N. of my station.

The last of the two points falls 1/8 inch west of the first.

HOMESTEAD ENTRY SURVEY NO. 367

COCONINO NATIONAL FOREST

STATE OF ARIZONA.

Chains

August 16, 1915.

At 7h. 00m., a.m., l.m.t., I turn off 1° 24' to the W. of the mean of the two points as established by observation on Polaris and establish a meridian by driving a nail in a stake set firmly in the ground 5.00 chs. N. of my station.

From the meridian thus determined, all courses of this survey are deflected.

Beginning at cor. No. 1.

Identical with cor. H-1 of the list survey, a malpais boulder 36 x 24 x 12 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 malpais stone 36 x 24 x 12 ins., 26 ins. in the ground over a small stone marked with a cross, chiseled cross at the point and 1 - H E S 367 on the NW. face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high, 3-1/2 ft. dist. NW. of cor. whence:

A juniper, 18 ins. dia., bears S. 81° 12' W. 150 lks. dist., blazed and scribed 1 H E S 367 + B T.

A malpais boulder 10 x 10 x 5 ft. above ground bears S. 9° 11' E., 71 lks. dist., marked 1 + H E S 367 B R.

The W. C. to the 1/4 sec. cor. between secs. 21 and 22, a malpais stone 10 x 5 x 5 ins. above a mound of stone, marked and witnessed as described by the Surveyor General, bears N. 49° 09' E. 30.12 chs. dist., by triangulation and traverse which appears at the end of these notes.

Lat. 34° 06' N. Long. 111° 44' 45" W. from the Surveyor General's special instructions. and later verified.

HOMESTEAD ENTRY SURVEY NO. 367

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Chains Mag. decl. at lh. 00m., p.m., l.m.t., 15° 10' E. Mean
mag. decl. 15° 13'.2

Thence N. 77° 25' W.

Along SW. edge of brushy flat, approximately 30 ft.
above Oak Creek.

5.63 Cor. H-2 of the list survey, a malpais stone 24 x 10 x 8
ins. marked and witnessed as described by the Forest
Service. I destroy all trace of this list cor.

Descend 10 ft. Enter scattering pine.

11.90 To cor. No. 2.

Identical with cor. H-3 of the list survey, a malpais
stone 14 x 14 x 8 ins. above ground, marked and
witnessed as described by the Forest Service. I des-

troy all trace of this list cor. and at this point I
set a malpais stone 24 x 8 x 8 ins., 14 ins. in the
ground over a small stone marked with a cross, chiseled

cross at the point and 2 - H E S 367 on the NE. face;
and raise a mound of stone, 3 ft. base, 2 ft. high,

NE. of cor. whence:

A yellow pine 24 ins. dia. bears N. 54° 28' E.
15 lks. dist., blazed and scribed

2 H E S 367 + B T.

A yellow pine 20 ins. dia. bears S. 31° 41' E.
57 lks. dist., blazed and scribed

2 H E S 367 + B T.

Thence N. 38° 47' W.

Along SW. edge of brushy bench. Ascend 20 ft.

3.50 Top of ascent, continue over level ground.

6.40 Road bears E. and W.

Chains

11.88

To cor. No. 3.

Identical with cor. H-4 of the list survey, a malpais stone 18 x 14 x 8 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 malpais stone 24 x 14 x 6 ins., 14 ins. in the ground over a small stone marked with a cross, chiseled cross at the point and 3 - H E S 367 on the E. face; and raise a mound of stone 3 ft. base, 2 ft. high, E. of the cor. whence:

A yellow pine, 16 ins. dia. bears S. 14° 37' E., 109 lks. dist., blazed and scribed

3 H E S 367 + B T.

A yellow pine 8 ins. dia. bears S. 58° 47' E. 32

lks. dist., blazed and scribed 3 H E S 367 + B T.

Thence N. 8° 46' E.

Ascend 20 ft.

1.50 Ditch, 1-1/2 ft. deep, 2 ft. wide, course SSE:

1.86 To cor. No. 4.

Identical with cor. H-5 of the list survey, a malpais stone 12 x 6 x 8 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of the list cor. and at this point set a malpais stone 26 x 10 x 8 ins., ¹⁶6 ins. in the ground over a small stone marked with a cross, surrounded by a mound of stone 5 ft. base, 1 ft. high, chiseled cross at the point, and 4 - H E S 367 on the ESE. face; and raise a mound of stone, 3 ft. base, 2 ft. high, ESE. of cor. whence:

An oak 10 ins. dia., bears S. 36° 00' E. 7 lks.

dist., blazed and scribed 4 H E S 367 + B T.

An oak 6 ins. dia., bears N. 53° 59' E. 36 lks.

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COCONINO NATIONAL FOREST

STATE OF ARIZONA.

Chains

dist., blazed and scribed 4 H E S 367 + B T.

Thence N. 65° 49' E.

Through scrub oak over level bench. Fence inside claim.

3.95 To cor. No. 5.

Identical with cor. H-6 of the list survey, a red malpais stone 24 x 14 x 4 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 malpais stone 36 x 24 x 12 ins., 12 ins. in the ground, over a small stone marked with a cross, surrounded by a mound of stone, 6 ft. base, 1 ft. high, chiseled cross at the point and 5 - H E S 367 on the S. face; and raise a mound of stone 3 ft. base, 2 ft. high, S. of cor. whence:

An oak, 6 ins. dia., bears N. 22° 59' W., 13 lks. dist., marked 5 H E S 367 + B T.

An oak, 8 ins. dia., bears S. 72° 00' E., 53 lks.

dist., marked 5 H E S 367 + B T.

Note: Cor. stone was set 12 ins. in ground (on solid rock)

Thence S. 44° 36' E.

Through dense scrub oak at foot of steep hill and NE. edge of bench. Fence inside claim.

Descend 30 ft.

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

August 16, 1915.

AREA.

Total area - - - - - 10.32 Acres.

IMPROVEMENTS.

The improvements made upon and for the benefit of this

Chains claim and belonging to the claimant, consist of the following:

A shake cabin 18 x 16 ft., the long side of which bears E. and W. and the NW. cor. of which bears from cor. No. 4 S. 82° 00' E. 3.80 chs. dist.

Value- - - - - \$150.00

There is approximately 1/2 mile of wire fence on the claim.

Value- - - - - \$75.00

A ditch 3 ft. wide, 1-1/2 ft. deep, 1/2 mile long.

Value- - - - - \$150.00

DESCRIPTION.

This claim is situated on the east side of Oak Creek in Oak Creek Canyon, the walls of which rise to approximately 3000 feet above the Creek in from one-fourth to one-half mile of horizontal distance.

The general slope of the claim is southwesterly.

The soil on the south end is a sandy loam while that of the north portion is a clay loam with imbedded malpais boulders. Apparently the claim has been entirely covered with scrub oak, about two-thirds of which the claimant has grubbed off. He has taken a large amount of rock from the land and is gradually working it into an ideal fruit farm, having approximately .5 acres under cultivation at the present time. The timber on the claim has no value for commercial purposes.

The high walls of the canyon protect this place from extreme cold, and ice is very seldom known.

Water for irrigation, stock, and domestic purposes is obtained from Oak Creek.

COCONINO NATIONAL FOREST

STATE OF ARIZONA.

Chains

CONFLICTS AND ADJOINING CLAIMS.

There are neither conflicts nor adjoining claims.
 The claim of John J. Thompson, H.E.S. No. 94, lies approximately 1 mile SE. of this survey claim.
 The claim of F. L. Pendley, H. E. No. 014418, lies approximately 1-1/2 miles NW. of this claim.
 Sedona post office is approximately 1 mile SE. of the claim.
 Flagstaff, the nearest railroad point, is approximately 30 miles in a northerly direction by wagon road, 20 miles of which is very rough.

TRAVERSE.

Course.	Dist.	N.	S.	E.	W.
N. 77° 25' W.	11.90	2.59			11.61
N. 38° 47' W.	11.88	9.26			7.44
N. 8° 46' E.	1.86	1.84		.28	
N. 65° 49' E.	3.95	1.62		3.60	
S. 44° 36' E.	21.59		15.37	15.16	
	51.18	15.31	15.37	19.04	19.05
Error in lat. and dep.			15.31		19.04
			0.06		0.01

Closing error 1:841

Traverse Cor. No. 1 to W. C. 1/4 sec. cor. between secs. 21 and 22.

Course.	Dist.	N.	S.	E.	W.
S. 61° 06' W.	33.44		16.16 ✓		29.28 ✓
S. 23° 51' E.	2.51		2.30 ✓	1.01 ✓	
S. 77° 19' E.	5.63		1.24 ✓	5.49 ✓	
			19.70	6.50	29.28
				6.50	
				22.78 ✓	

Therefore W. C. 1/4 sec. cor. between secs. 21 and 22 bears N. 49° 09' E. 30.12 chs. dist.

Survey completed August 16, 1915.

Charles D. Hodson
 Surveyor - Draftsman.

87546 48228
 40434 91461
 99560 21956

75642 65408

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HOMESTEAD ENTRY SURVEY NO. 606

NATIONAL FOREST

STATE OF ILLINOIS

Chains COURSE AND DISTANCE

There are no other claims in this section.
 The claim of John J. Thompson, P.M. No. 121, lies
 approximately 1/2 mile S.E. of this survey claim.
 The claim of W. E. Terrier, P.M. No. 12118, lies
 approximately 1 1/2 miles N.E. of this claim.
 Johnson's office is approximately 1 1/2 miles S.E. of the
 claim.
 Finally, the nearest railroad point, is approximately
 20 miles in a northerly direction by wagon road, 30
 miles of which is very rough.

TRAVERSE

Course	Dist.	N.	S.	E.	W.
N. 77° 32' E.	11.30	3.29			
N. 38° 47' E.	11.80	9.26			
S. 82° 48' E.	1.85	1.84			
N. 05° 49' E.	3.35	1.63			
S. 44° 30' E.	31.25		13.37		27.16
	32.10	14.31	14.07		19.03
		18.31			18.04
		0.06			0.01

Closing error 1:841

Traverse Cor. No. 1 to W. C. 1/4 sec. cor. between
 secs. 21 and 22.

Course	Dist.	N.	S.	E.	W.
S. 51° 06' W.	33.44		16.16		29.38
S. 23° 51' E.	2.51		2.30	1.01	
S. 77° 19' E.	5.63		1.24	5.49	
	19.70		19.70		29.38
					2.50
					22.78

Therefore W. C. 1/4 sec. cor. between secs. 21 and 22

bears N. 49° 09' E. 30.13 chs. dist.

Survey completed August 16, 1918.

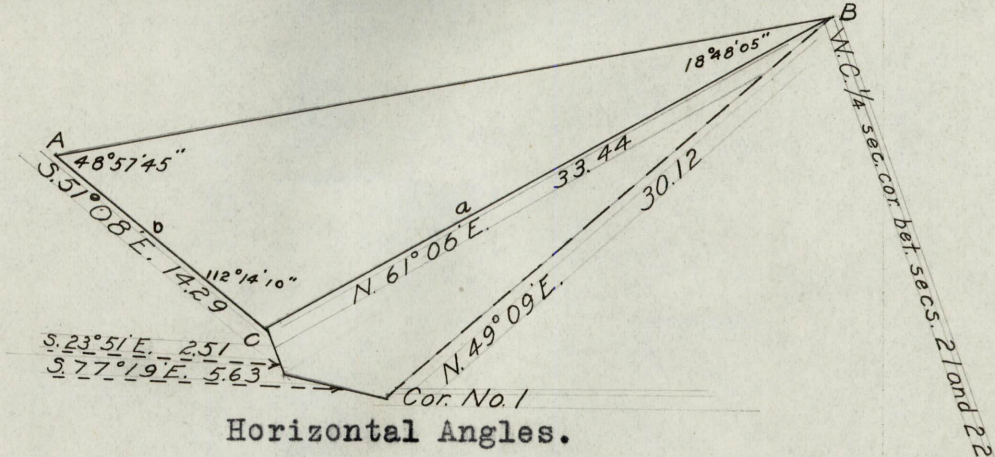
[Signature]
 Surveyor - Chairman

COCONINO NATIONAL FOREST

STATE OF ARIZONA.

Chains

COMPUTATION OF TRIANGULATION AND TRAVERSE.



Horizontal Angles.

B. A. C.		B. C. A.	
Direct		Direct	
	48° 57' 30"		112° 14'
	97° 55'		224° 28' 30"
	146° 52' 30"		336° 42' 30"
Mean	<u>48° 57' 30"</u>	Mean.	<u>112° 14' 10"</u>
Reverse		Reverse.	
	48° 58'		112° 14'
	97° 55' 30"		224° 28'
	146° 54'		336° 42' 30"
Mean	<u>48° 58'</u>	Mean.	<u>112° 14' 10"</u>
Mean	48° 57' 45"	Mean.	112° 14' 10"

It was impossible to set my transit over the W. C. 1/4 sec. cor., and the base line was the longest possible.

$$a = b \frac{\sin. A}{\sin. B}$$

log. 14.29	1.155032 ✓
log. sin. 48° 57' 45"	9.877533 ✓
log. sin. 18° 48' 05"	<u>9.508245 ✓</u>
log. a. =	1.524320 ✓
a. = 33.44 ✓	

T. A.

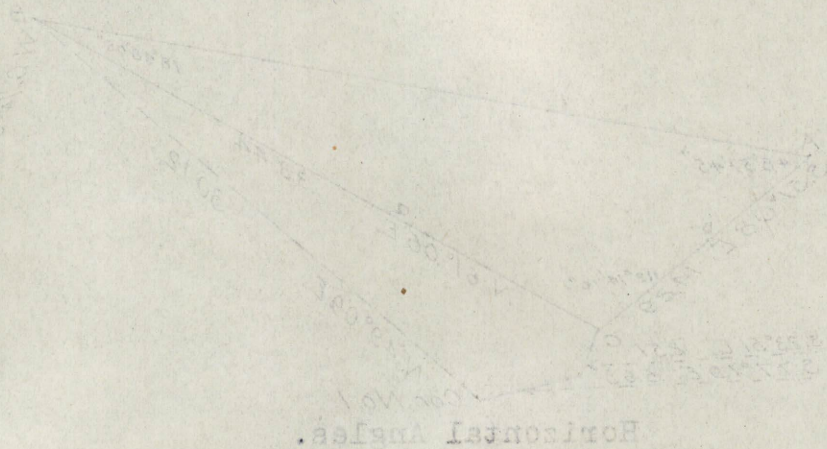
NATIONAL FOREST

STATE OF ARIZONA

Chains

COMPUTATION OF TRIANGULATION AND TRAVERSE

Chains



Horizontal Angles.

Station	Direction	Angle	Mean
B. A. C.	Direct	48° 57' 30"	Mean 48° 57' 30"
	Reverse	142° 54'	
	Mean	48° 57' 30"	
B. C. A.	Direct	112° 14'	Mean 112° 14' 10"
	Reverse	338° 43' 30"	
	Mean	112° 14' 10"	

It was impossible to set up transit over the B. C. 1/4 sec. cor., and the base line was the longest possible.

Station	Angle	Log. sin.	Log. cos.
B. C. 1/4	48° 57' 30"	9.877533	9.908245
B. C. 1/4	112° 14' 10"	9.877533	9.908245
Mean	48° 57' 30"	9.877533	9.908245
Mean	112° 14' 10"	9.877533	9.908245

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. 367, STATE OF ARIZONA.

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.	S. AREAS.
			NORTH.	SOUTH.	EAST.	WEST.			
27698 21786 1-2	N. 77° 25' W.	11.90	2 59			11 61	26 49	69 14	
22638 20952 2-3	N. 38° 47' W.	11.88	9 26			7 44	7 44	68 97	
15241 98832 3-4	N. 8° 46' E.	1.86	1 84		28		28	52	
92244 40066 4-5	N. 65° 49' E.	3.95	1 62		3 60		4 16	6 74	
70015 71203 5-1	S. 44° 36' E.	21.59	15 37	314	15 16		22 93	351 75	
		51.18	15 31	15 37	19 04	19 05		145 37	351 75
			15 34	15 34	19 05	19 05		145 37	145 37
	Closing error 1:841							Area	20) 206 38
									10 32 A.

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APPROVAL

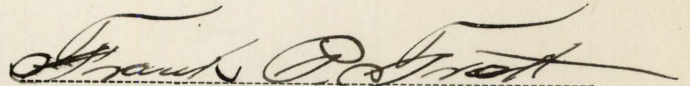
Office of the United States Surveyor General,

Phoenix, Arizona, May 15, 1918.

The foregoing field notes of Homestead Entry Survey No.

367

executed by Charles D. Hodson, Surveyor-Draftsman [Forest Service Title.]
under his special instructions, dated July 9, 1915, 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.