U. S. DEPARTMENT OF AGRICULTURE FOREST SERVICE

FIELD NOTES

OF

HOMESTEAD ENTRY SURVEY NO. 164

SITUATED IN THE

CROOK NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

in

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of the

Gila and Salt River Base and Meridian.

ARIZONA

Survey executed by Walter G. Turley, S	urveyor-Forest Se:	rvice
Under special instructions dated Fe	bruary 12	19 14
Survey commenced Ma:	rch 3	19 14
Survey completed Oct	tober 17	19.14
Under Acts of June 11, 1906, March 4,	1913 and June 30,	1914.
Applicant for listing Charles W. Ha	ardy,	
Residence Miami. A	rizona.	
Residence Miami, A Application No. 146, dated Application No. 264, dated Max	cil 26 ,]	1910
Application No. 264 , dated Mar	rch 9	1914.
List No. 3-728 , dated Ser	otember 27 ,	1910
Applicant for survey Charles W. Ha	ardy,	

Residence Miami, Arizona.

H. E. No. 014363 , dated June 29, 1911.

8-2349

Land district Phoenix, Arizona.

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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. 164, in
unsurveyed Section 22, Township 1 N., Range 13 E.,
--surveyed Section ---, Township ---, Range----,
of the G. & S.R.B. & meridian State of Arizona which

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 furnished by the United States Surveyor General for Arizona.

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

Charles Hockson, Chainman Edward Ruderon, Chainman

Watter G. Fusley Surveyor- Front Surice

I, Walter G. Turley, Surveyor-Forest Service, do solemnly swear that, in strict conformity with the special instructions of the United States Surveyor General for Arizona, dated February 12, 1914, 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. 3-728, dated September 27, 1910, and a tract of land upon the application of Charles W. Hardy, Application No. 264, dated March 9, 1914, for listing and patent under the Act of June 11, 1906, the same to be known as Homestead Entry Survey No. 164, situated within the Crook National Forest, in unsurveyed Section 22, Township 1 N., Range 13 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.

Walley G. Tresley Surveyor-Houst Survive

Subscribed and sworn to before me this 23 and day of

February, 1915.

SEAL.

8-2349

Else C. Neyers Notary Cublic

STATE OF ARIZONA

Chains

Applicant for listing, Charles W. Hardy; Application
No. 146, dated April 26, 1910; List No. 3-728, dated
September 27, 1910; H. E. No. 014363, made by Charles
W. Hardy at Phoenix, Arizona, June 29, 1911.

Also a tract of unlisted land adjoining claimant's entry was included in this survey. The land is agricultural in character, was desired by the entryman and will be listed as a basis for amendment of his entry No. 014363. Application No. 264, dated March 9, 1914.

Surveyed under special instructions from the Surveyor General for Arizona, dated February 12, 1914, and designated as Homestead Entry Survey No. 164.

Situated in unsurveyed T. 1 N., R. 13 E., in what will probably be, when surveyed, sec. 22 of the Gila and Salt River Base and Meridian, within the Crook National Forest, Arizona.

Surveyed under the Acts of June 11, 1906, March 4, 1913, and June 30, 1914.

e o u o la company de la compa

Survey commenced March 3, 1914 and executed with a W. and L. E. Gurley light mountain transit, with vertical circle and Burt solar attachment. I test the adjustments of the transit and make necessary corrections. The stadia is adjusted to read 1:132.

All distances are horizontal and were reduced from measurements made on the slope with a 400 link steel tape and a Philadelphia stadia rod, and slope angles measured with a clinometer.

March 3, 1914.

There being no cor. of the public land survey or U. S. location monument within the prescribed limits, I es-

Form 85. Sheet No. 2.

HOMESTEAD ENTRY SURVEY NO. 164

CROOK NATIONAL FOREST

STATE OF ARIZONA

Chains

.2.

tablish: U. S. L. M. No. 164 H. E. S. on a hill top
near the ruins of an old indian pueblo as follows:
Set a porphyry stone 36 x 14 x 9 ins., 27 ins. in the
ground, over a small stone marked with a cross, marked
U. S. L. M. No. 164 H. E. S. on the N. face; and raise a
mound of stone 6 ft. base, 4 ft. high, S. of cor.,
from which:

A mesquite 5 ins. dia., bears S. 63° 45' E., 20

, lks. dist., marked U S L M No. 164 H E S B T.

The junction of Pinto Creek with Haunted Canyon

bears S. 47° 30' E., 12.00 chs. dist.

SW. cor. dwelling of Charles W. Hardy, bears N. 16° 11' E., 16.50 chs. dist.

Chimney rock on sky line, bears N. 50° 25' W.,

Cor. No. 1, H. E. S. 164 bears N. 64° 54' E., 8.58 chs. dist.

March 3, 1914.

At 10h. 3lm., a.m., l.m.t., I observe the sun in altitude for azimuth at U. S. L. M. No. 164 H. E. S., heretofore described. The reading on the reference object was set at zero, and the sun was observed in the lower left and upper right quadrants of the field. My watch is set for local mean time.

Lat. 33° 24' 25"Nand Long. 110° 59' 37"W, deduced from values given in the special instructions of the Surveyor General.

Telescope Horizontal Angle Vertical Angle
Direct 36° 06' 43° 00'
Reversed 36° 29' 42° 29'

Bearing of object S. 00° 00' 58" W. and from the corresponding meridian all the courses of this survey

8-2349

STATE OF ARIZONA

Chains

were deflected. To a same , T & sale

, March 3, 1914. 'OF '88 . Based . T & ASI

At 8h. 40.3m. p.m., 1.m.t., I observe Polaris at Western elongation, and turn off the azimuth 1° 22-1/2' to the East and my line of sight falls 0° QO' 14" of measured are to the E. of the meridian established by observing the sun in the altitude for azimuth. Therefore, I con-. clude that my transit was in satisfactory adjustment.

At 12h. 12m. p.m., 1.m.t., I set off 6° 54' S. on the decl. are and observe the sun on the meridian at cor. No. 5. I obtain a reading of 33° 25' on the lat. arc. March 3, 1914.

I test the adjustments of the transit heretofore described, and make necessary corrections. I then proceed with the survey. All courses were deflected from the meridian established on March 3. 1914.

To cor. No. 2.

Thence N. 64° 54' E.

-eino

enote

8.58 Cor. No. 1. and a x 21 x 32 snots waydown a Jos

. Identical with cor. H-4 of the list survey, also F. S. M. H., which is an embedded porphyry stone 30 x 24 x 15 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of the list cor. and F. S. M. H. and mark a cross (+) on the apex of the same stone for cor. No. 1, and 1-HES164 on the N. face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high, N. of cor., from which: An oak, 5 ins. dia., blazed and scribed 1 H E S

HOMESTEAD ENTRY SURVEY NO. 164

CROOK NATIONAL FOREST

STATE OF ARIZONA

Chains	164 B T, bears S. 51° 10' W., 31 lks. dist.
	An oak, 6 ins. dia., blazed and scribed 1 H E S
	164 B T, bears N. 36° 10' W., 46 lks. dist.
gretee	Therefore U. S. L. M. No. 164 H. E. S. bears S.
ont of	64° 54' W., 8.58 chs. dist. from cor. No. 1.
peruse	Cor. H-3 of the list survey, which is an embedded
Sulvie	porphyry stone 40 x 24 x 24 ins. above ground,
-noo I	marked and witnessed as described by the Forest
. Imom	Service, bears N. 39° 58' W., 20.84 chs. I
	destroy all trace of this list cor.
	Lat. 33° 24' 28" N., Long. 110° 59' 31" W., from special
the	instructions from the Surveyor General.
.100	Observed magnetic declination at cor. No. 1, 14° 17' E.
.ons .J	at 10h. 30m. a.m. Mean mag. decl. 14 4 17 E.
	Thence N. 51° 16' W.
	Descend 5 ft. over bottom. Over unlisted land.
0.25	Irrigating ditch, 3 lks. wide, course N.
1.05	Right bank of Pinto Creek, 3 ft. high, course NNW.
-ord u	Continue 6.00 chs. in creek bed, which contains a
50	small stream of water Vevius edd ddiw hees
7.05	Left bank Pinto Creek, 3 ft. high, course NNW. Ascend
all in decreases a management of the con-	10 ft. along NW. slope in undergrowth.
18.92	To cor. No. 2
	Set a porphyry stone 26 x 12 x 6 ins., 16 ins. in the
	ground, over a small stone marked with a cross, chis-
30	eled 2-HES164 on NW. face; and raise a mound of stone
as b	2 ft. base, 1-1/2 ft. high, NW. of cor., from which:
	A black jack oak, 4 ins. dia., blazed and
(+) 8	scribed 2 H E S 164 + B T, bears N. 54° 50' E.,
	ns , f .oH .63 lks. dist. emes end To xeqs edd no
	A juniper 6 ins. dia., blazed and scribed 2 H E S
:	164 + B T, bears S. 45° 10' E., 26 lks. dist.
BEH	Pits impracticable. I hadrae bus haseld . shb .ant d . so nA

5.

CROOK NATIONAL FOREST

STATE OF ARIZONA

		STATE OF ARIZONA
	Chains	Thence N. 41° 30' W.
		Descend N. slope 10 ft. in undergrowth.
	3.00	Continue along foot of slope.
	9.50	Ascend E. slope 30 ft. , and a constant.
	15.73	To cor. No. 3.
		I chisel a cross (+) for cor. point at the apex of .
		an imbedded porphyry boulder 4 x 3 x 5 ft. above
		ground, and 3-HES164 on the E. face; and raise a mound
		of stone 2 ft. base, 1-1/2 ft. high, W. of cor., from
	nd,	which: s . Jh 2 x 3 x 3 shows when he bedenne.
	-raa	A cross (+) on an imbedded porphyry stone 8 x
-	b	. 6 x 5 ft. above ground, chiseled 3 H E S 164
	I	B R, bears West 22 lks. dist.
-		Pits impracticable. No other bearings available.
	e o 200	It was impracticable to place the mound of stone in
		any other position.
		To house to her the land and here the
		Thence N. 06° 47! E.
-	3 2	Descend NE. slope 30 ft. in undergrowth.
	,6.00	Leave slope, bears NW. and SE. and enter bottom.
	8.22	To cor. No. 4. 1 of in the among
		I scribe 4-HES164 + in a blaze on the SSE. face of
		a blackjack cak 8 ins. dia., and raise a mound of
		stone 2 ft. base, 1-1/2 ft. high, SSE. of cor., from
		which: . The equip . To become
		A blackjack oak 8 ins. dia., blazed and scribed
		4 H E S 164 + B T, bears N. 74° W., 19 1ks.
-		dist.
-	e ai n	. A sycamore 9 ins. dia., blazed and scribed 4 H E
and the second	OT	S 164 + B T, bears N. 76° 10' E., 65 lks. dist.

Pits impracticable.

.6.

	STATE OF ARIZONA
Chains	Thence S. 59° 07' ET 100 210 .E comen anisho
	Descend gentle NE. slope 5 ft. to Pinto Creek.
3.10	Left bank Pinto Creek, 5 ft. high, course NW. Continue
	6.90 chs. in creek bed, which carries a small flow of
	water at this time.
7.00	Right bank Pinto Creek, 15 ft. high, course NW. Ascend
	SW. slope 95 ft. in undergrowth. sebaggai na
21.68	To cor. No.; 5. 1 . To of the sale Hall be been been been been been been been
in ordin	Identical, with cor. H-2 of list survey, which is an
	imbedded porphyry stone 5 x 5 x 2 ft. above ground,
=	marked and witnessed as described by the Forest Ser-
201	vice. I destroy all trace of this list cor. and
	mark a cross (+) at the apex of the same stone for
.s.fdei	cor. No. 5 and 5-HES164 on the S. face; and raise a
12.	mound of stone 2 ft. base, 1-1/2 ft. high, S. of cor.,
	from which:
	A cedar 7 ins. dia., blazed and scribed 5 H E S
	164 B T, bears N. 09° E., 73 lks. dist.
	A cross (+) on an imbedded porphyry stone 5 x 2
	x 5 ft. above ground, chiseled 5 H E S 164 B.R,
	bears S. 31° 30' W., 10 lks. dist.
	At this point I pass from unlisted to listed land.
	e blackjack oak 8 ids. sid. saide a mould o
4010	Thence S. 44° 41' E.
	Ascend SE. slope 5 ft.
5.20	Spur, bears N. and S. Descend 75 ft.
9.15	Ravine, course SW. Ascend W. slope 75 ft.
16.49	
	Identical with cor. H-1 of the list survey, which is

Identical with cor. H-1 of the list survey, which is an imbedded porphyry stone 30 x 24 x 12 ins. above bround, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor.

STATE OF ARIZONA

Chains

and mark a cross (+) at the apex of the same stone

for cor. No. 6, and 6-HES164 on the W. face; and
raise a mound of stone 2 ft. base, 1-1/2 ft. high,

NE. of cor.

Pits impracticable.

It was impracticable to place the mound in any other position.

The improvements are witnesses to this cor.

Thence S. 33° 40' W.

Descend E. slope 100 ft.

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

AREA.

Listed area - - - - - - - - - - - 18.50 acres
Unlisted area - - - - - - - - 20.24 acres
Total area - - - - - - - - 38.74 acres

IMPROVEMENTS.

The improvements made upon and for the benefit of this claim and belonging to the claimant herein, consist of the following:

A log store house, 8 x 8 ft., the long side of which bears N. and S., and the SE. cor. of which bears N. 72° 20' W., 10.95 chs. dist. from cor. No. 6.

Value ---- \$ 25.00

A frame dwelling house 10 x 10 ft., the long side of which bears N. and S. and the SE. cor. of which bears N. 70° W., 9.90 chs. dist. from cor. No. 6.

Value ----- \$100.00

A log dwelling 14 x 14 ft., the long side of which bears N. and S. and the SE. cor. of which bears N. 70° 30' 18 AS.

CROOK NATIONAL FOREST

STATE OF ARIZONA

Chains	W., 10.20 chs. dist. from (cor. No. 6. 200 base)
	Value \$ 50.00
	1/2 mile of stone and wire fence.
	Value \$100.00
	Five acres of cultivated land.

DESCRIPTION.

This claim occupies a bottom on both sides of Pinto Creek, immediately below its junction with Haunted Canyon.

The bottom soil is a rich sandy loam and there is a sufficient supply of water in Pinto Creek, for irrigation and domestic purposes. The slopes are clay and stony and valueless.

No mineral appears on this claim. - - - com be said

- CONFLICTS AND ADJOINING CLAIMS.

There are no conflicts or adjoining claims.

Miami postoffice and railway station is 10 miles in an easterly direction, and is reached by 9 miles of trail and 17 miles of wagon road.

October 17, 1914.

BIBEC	dořiw	20 .200	TRAV	ERSE.	.a bno .	I preso		
Cor.	. Cou	rse	Dist.	, N de.	S	OE SKY	W	
2-3 3-4 4-5 5-6 6-1	N. 41° N. 06° S. 59° S. 44° S. 33°	30' W. 47' E. 07' E. 41' E. 40' W.	18.92 15.73 8.22 21.68 16.49 10.77 91.81	11.78 8.16	11.13 11.72 8.96 31.81 31.78	11.60	14.76 10.42 5.97 31.15	
Clos	ing err	or 1:21	64.	0 % 14				
Surv	ey comp	leted O	ctober 1	7, 1914	•	6-0-		

STATE OF ARIZONA

Chains

Detailed Computations.

Sun in altitude for Azimuth, March 3, 1914, at U. S. L. M. No. 164 H. E. S.

Lat. 33° 24' 25" N. and Long. 110° 59' 37". 7 hrs 23" 58235

1.m.t.

Vertical Angle Horizontal Angle

36° 06' 10h. 30m. 00s. 43° 00'

10h. 31m. 30s.

7 hrs 28 58 + 36 02

10 h 18 m 31 3 4 >

36° 29' 420 291 36° 17' 30" 10h. 30m. 45s. 420 44' 30"

12m. 14s. agricos 56"

Celavation & ten Apparent time = 10h. 18m. 31s. 420 43' 34"

63" x .89 x 1.00 = 56"/

07° 01' 48".1 decl. apparent noon Greenwich.

05' 27".6 diff. for 5h. 42m. 29s.

06° 56' 20".5 decl. of sun at obsn.

log. sin. decl. 9.082114 log. tan. lat. 9.819250

0.078428 log. tan. alt. 9.965492 colog cos. lat. 9.784742 0.609174

colog. cos. alt. 0.133946 9.294488 0.197010

164 H. E. S.

0.609174 0.806184 Cos Azimuth

Azimuth 36° 16' 32". Bearing of object S. 00° 00' 58"W.

Polaris at W. elong. March 3, 1914, at U. S. L. M. No.

8h. 40.7m. W. elong. Pol. Greenwich. Lat. 40° N.

1.2m. siderial correction. 8h. 39.5m. W. elong. Pol. local meridian, lat. 40° N.

w. elong. Pol. at obsn. 0.8m.

88° 51' 08".6. decl. Pol. March 3, 1914.

01° 22' 34", Azimuth Pol. at W. elong. and obsn. by interpolation p. 16 G. L. O. Ephemeris.

HOMESTEAD ENTRY SURVEY NO.

NATIONAL FOREST

STATE OF ISA TO ATARA

No. 154 H. B. S. Lat. 35° 24' 25" N. and Long. 110° 59' 37". Vertical Angle Herizontal Angle 1.m.†. 45° 06' 36° 29' 10h. 31m. 30a. 42° 44' 30" 36° 17' 30" 10h. 31m. 30a. 42° 44' 30" 36° 17' 30" 10h. 31m. 31a. 56" Age 45' 34" Apparent time = 10h. 16m. 31a. 65" x .69 x 1.00 = 36" 07° 01' 48".1 decl. apparent moon Greenwich. 06' 56' 80".5 decl. of sun et obsn. 10g. ain. decl. 9.082114 10g. tan. lat. 9.315492 colog cos. lat. 0.073488 log. tan. lat. 9.315492 colog. cos. alt. 0.073488 log. tan. lat. 9.315492 colog. cos. alt. 0.132946 0.602474 0.197010 Azimuth 56° 16' 58". Bearing of object 5.00° 00' 5. Polaris at W. along. March 5, 1914. at U. B. L. M. No. 1.5m. siderial correction. 1.5m. siderial correction.	Tat. 35° 24' 25" M. and Long. 110° 58' 37". Vertical Angle Horizontal Angle 1.m.t. 48° 00' 36° 06' 10h. 30m. 00s. 42° 42' 20" 36° 17' 80" 10h. 30m. 45s. 42° 45' 24" Apparent time = 10h. 16m. 31s. 85" x .39 x 1.00 = 56" 05' 55' 5 34" Apparent neon Greenwich. 06' 27".6 diff. for 5h. 42m. 29s. 106. sin. deol. 9 08214 10s. tan. 1at. 9.819250 2010g. cos. alt. 0.078428 10s. tan. 1at. 9.819250 2010g. cos. alt. 0.128246	ins .eneits	tailed Comput	De
Tat. 35° 24' 25" N. and Long. 110° 59' 37". Vertical Angle Herizontal Angle 1.m.t. 48° 00' 36° 06' 100. 30m. 002. 42° 44' 30" 36° 17' 80" 100. 30m. 403. 42° 44' 30" 48° 17' 80" 100. 30m. 403. 42° 46' 24" Apparent time = 10h. 16m. 21a. 63" x .99 x 1.00 = 56" 05' 87" 6 diff. for 5h. 48m. 89s. 06' 86' 80" 5 dadl. of sun et obsn. 10g. sin. deel. 9.08214 10g. ten. 1st. 9.85498 200g. cos. 1st. 0.078428 10g. ten. 1st. 9.85498 200g. cos. 1st. 0.083346 200g. cos. 1st. 0.08346 200g. cos. 1st. 0.08346 200g. cos. 1st. 0.08346 200g. cos. 1st. 0.08346 200g. cos. 1st. 0.080164 200g. cos. 1st. 0.080164 200g. cos. 1st. 0.00° 20' 50' 50' 50' 50' 50' 50' 50' 50' 50' 5	Tat. 35° 24' 25" M. and Long. 110° 58' 37". Vertical Angle Horizontal Angle 1.m.t. 48° 00' 36° 06' 10h. 30m. 00s. 42° 42' 20" 36° 17' 80" 10h. 30m. 45s. 42° 45' 24" Apparent time = 10h. 16m. 31s. 85" x .39 x 1.00 = 56" 05' 55' 5 34" Apparent neon Greenwich. 06' 27".6 diff. for 5h. 42m. 29s. 106. sin. deol. 9 08214 10s. tan. 1at. 9.819250 2010g. cos. alt. 0.078428 10s. tan. 1at. 9.819250 2010g. cos. alt. 0.128246	arch 8, 1914, at U. S. I.	or Asimuth, 1	Sun in altitude f
Vertical Angle Horizontal Angle 1.E.t. 48° 00' 36° 06' 10N. Som. 00s. 48° 42' 20" 36° 17' 80" 10h. Som. 45s. 56" 48° 46' 30" 36° 17' 80" 10h. 50m. 45s. 68" x. 99 x 1.00 = 56" 68" x. 99 x 1.00 = 56" 68" 56' 20" 6 diff. for 5h. 42m. 29s. 105. Sim. deel. epperent noon Greenwich. 105. Sim. deel. 9.082114 105. tan. lat. 9.819250 20105 00s. lat. 0.078428 10s. tan. lat. 9.819250 20105 00s. lat. 0.078428 10s. tan. alt. 9.85492 20106. cos. alt. 0.182946 Cos Azimuth 86° 16' 58". Hearing of object 8. 00° 10' 58' 164 H. 2. 8. Polaris at W. elong. March 5. 1914, at U. S. L. M. No. 18h. 40.7m. W. slong. March 5. 1914, at U. S. L. M. No. 8h. 40.7m. W. slong. Fed. dreenwich. Lat. 40° H. 18h. 40.7m. W. slong. Fed. dreenwich. Lat. 40° H. 8h. 40.7m. W. slong. Fed. dreenwich. Lat. 40° H. 8h. 40.7m. W. slong. Fed. dreenwich. Lat. 40° H. 8h. 40.7m. W. slong. Fed. local meridian, lat. 40° H. 8h. 40.7m. W. slong. Fed. local meridian, lat. 40° H. 8h. 40.7m. W. slong. Fed. local meridian, lat. 40° H. 8h. 40.7m. W. slong. Fed. local meridian, lat. 40° H. 2s. 34", Aximuth Fed. at cosa. 0.8s. correction for lat. 10.8s. L. W. slong. Fed. at cosa.	Verticel Angle Herizontal Angle 1.m.t. 43° 00' 36° 06' 10h. 30m. 00s. 42° 52' 36" 36° 17' 30" 10h. 31m. 30s. 56" 18° 45' 30" 36° 17' 30" 10h. 30m. 45s. 63" x. 95 x 1.00 = 56" 65" x. 95 x 1.00 = 56" 65" 56' 20" 6 decl. apparent noon Greenwich. 65' 27" 6 diff. for 5h. 42m. 89s. 66' 56' 20" 5 deel. of sun at obsn. 10g. sin. deel. 9.082114 10g. tan. lat. 9.819250 2010g cos. lat. 0.078428 10g. tan. lat. 9.819250 2010g. cos. alt. 0.182946 2010g. cos. alt. 0.282946 Cos Azimuth 36° 18' 58". Hearing of object 8.00° 00' 5 Polaris at W. elong. March 2. 1914, at U. S. L. M. No. 18h. 40.7m. W. slong. March 2. 1914, at U. S. L. M. No. 8h. 40.7m. W. slong. Fel. decal meridian, lat. 40° M. 8h. 40.7m. W. slong. Fel. decal meridian, lat. 40° M. 8h. 40.7m. W. slong. Fel. decal meridian, lat. 40° M. 8h. 40.2m. W. slong. Fel. decal meridian, lat. 40° M. 8h. 40.2m. W. slong. Fel. at obsn. 10.8m. correction for lat. 10.8m. correction for lat. 10.8m. correction for lat. 10.8m. decl. Pol. March 5. 1914.			No. 164 H. E. S
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Ago 45' 24" Apparent time = 10h. 18m. 21s. 63" x .89 x 1.00 = 56" 05' 01' 48".1 deel. apparent noon Greenwich. 06' 56' 80".5 deel. of sun at obsn. 10g. sin. deel. 9.082114 log. tan. lat. 9.819850 colog cos. lat. 0.078428 log. tan. alt. 9.85492 colog. cos. alt. 0.182946 0.187010 0.62374 0.197010 Aximuth 86' 16' 82". Bearing of object 8.00° 00' 5 8h. 40.7m. W. elong. March 5, 1914, at U. S. L. M. No. 1.2m. siderial correction. 8h. 40.7m. W. elong. Pol. Greenwich. Lat. 40° M. 8h. 40.7m. W. elong. Fol. logal meridian, lat. 40° M. 8h. 40.7m. W. elong. Fol. 10cal meridian, lat. 40° M. 8h. 40.7m. W. elong. Fol. 10cal meridian, lat. 40° M. 8h. 40.7m. W. elong. Fol. 10cal meridian, lat. 40° M. 8h. 40.7m. W. elong. Fol. 10cal meridian, lat. 40° M. 8h. 40.7m. W. elong. Fol. 10cal meridian, lat. 40° M. 8h. 40.7m. W. elong. Fol. 10cal meridian, lat. 40° M. 8h. 40.7m. W. elong. Fol. 10cal meridian, lat. 40° M. 8h. 40.7m. W. elong. Fol. 10cal meridian, lat. 40° M. 8h. 40.7m. W. elong. Fol. 10cal meridian lat. 40° M. 8h. 40.7m. W. elong. Fol. 10cal meridian lat. 40° M. 8h. 40.7m. W. elong. Fol. 10cal meridian lat. 40° M. 8h. 40.7m. W. elong. Fol. 10cal meridian lat. 40° M. 8h. 40.7m. W. elong. Fol. 10cal meridian lat. 40° M. 8h. 40.7m. W. elong. Fol. 10cal meridian lat. 40° M. 8h. 40.7m. W. elong. Fol. 10cal meridian lat. 40° M.	48° 45' 24" Apperent time = 10h. 18m. 51s. 63" x .89 x 1.00 = 56" 05° 01' 48".1 decl. apperent noon Greenwich. 06° 56' 20".5 decl. of sun at obsn. 10g. sin. decl. 9.082114 log. tan. lat. 9.819250 colog cos. lat. 0.078428 log. tan. alt. 9.819250 colog. cos. alt. 0.125946 0.197010 0.6.2374 0.197010 Aximuth 86° 16' 82". Bearing of object 8.00° 00' 5 8h. 40.7m. W elong. March 5, 1914, at U. S. L. M. No. 1.2m. siderial correction. 8h. 40.7m. W elong. Pol. Greenwich. Lat. 40° M. 8h. 40.7m. W elong. Fol. Greenwich. Lat. 40° M. 8h. 40.7m. W elong. Fol. Greenwich. Lat. 40° M. 8h. 40.7m. W elong. Fol. Greenwich. Lat. 40° M. 8h. 40.7m. W elong. Fol. Greenwich. Lat. 40° M. 8h. 40.7m. W elong. Fol. Steph.	30" 10b. 30m. 45s.	36° 17' 8	42° 44' 30"
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Form 85. Sheet No. 3.—Revised Feb., 1915.

Charles W. Hardy -Crook 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.

4. Only three copies of this tabulation are necessary, for the District Office, the Surveyor General, and the Commissioner.

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S. AREAS.					228 40	594 05 /	504 90 4	1327 35		774 70 T. H									
N. AREAS.		421 98	122 75					552 65		Area									
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DISTANCE.		18.92	15.73	8.22	21.68	16.49	10.77	91,81				7		2					
BEARING.		N. 51° 16' W.	N. 41° 30° W.	N. 6° 47' E.	S. 59° 07' E.	S. 44° 41' E.	1			ing Error 1:2164	1		*						
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APPROVAL

Office of the United States Surveyor General,

Phoenix, Arizona, May 29, 1916.

Phoenix, Arizona, May 29, 1916.
The foregoing field notes of Homestead Entry Survey No.
164
executed by Walter G. Turley, Surveyor-Forest Service
under his special instructions, dated February 12, 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.
Au Vata
U. S. Surveyor General.
I certify that the foregoing transcript of the field
notes of the above-described survey in Arizona,
has been correctly copied from the original notes on file in
this office.
Frank P. Trott
8-2349 U. S. Surveyor General.