Form 85 Sheet No. 1 (Revised July 1, 1914.)

1

U. S. DEPARTMENT OF AGRICULTURE

FOREST SERVICE

FIELD NOTES

HOMESTEAD ENTRY SURVEY NO. 591

SITUATED IN THE

TONTO MATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. . 3.

In Section 19 , un surveyed, Township 10 N., Range 14 E. In Section 20 , unsurveyed, Township 10 N., Range 14 E.

and

ESTABLISHMENT OF U.S.L.M. NO. 591 H.E.S.

of the

GILA AND SALT RIVER BASE & Meridian.

State of

ARIZONA

Applicant for listing

Henry Mott,

Residence

Young, Arizona.

Application No. 583

, dated

August 12, 19 15

List No.

3-3894

, dated

September 30,1916.

Applicant for survey

Robert J. Cook,

Residence

Young, Arizona.

H. E. No.

036200

, dated

September 1 , 19 17

Land Office

Phoenix, Arizona.

Survey executed by Frank D. Yost, Surveyor - Forest Service, [Forest Service Title.]

Under special instructions dated

March 12 , 19 19

Survey commenced

June 6 , 19 19

Survey completed

June 6 , 19 19

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

[OVER]

OATH OF ASSISTANTS

We hereby certify that we assisted Frank D. Yost,
Surveyor - Forest Service, in surveying all those
[Forest Service Title.]

parts or portions of Homestead Entry Survey No. 591 , 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.

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.

HE Brandebury

Chainman.

Subscribed and sworn to before me this

sixth

day of

August

, 1919.

Surveyor - Forest Service,

OATH OF SURVEYOR

I, Frank D. Yost,

Surveyor - Forest Service, [Forest Service Title.]

do solemnly swear that, in strict conformity with the special instructions of the United States Surveyor General for ARIZONA , dated March 12 , 19 19 , 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. 3-3894 , dated September 30,19 16 , for Patent , under the Act of June 11 , 19 06 , the same to be known as Homestead Entry Survey No. 591 , situated within the TONTO National Forest, in unsurveyed Section 19 , Township 10 N. , Range 14 E. , and unsurveyed Section 20 , Township 10 N. , Range 14 E. ,

of the GILA AND SALT RIVER BASE & 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.

Surveyor - Forest Service,
[Forest Service Title.]

Subscribed and sworn to before me this

fifth

day of

November

, 19 19.

Notary Public.

SEAL. 8-2

My Commission expires March 17, 1921.

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TONTO NATIONAL FOREST

STATE OF ARIZONA

Chains

-Signi

Applicant for listing, Henry Mott; Application No. 583. dated August 12, 1915, List No. 3-3894, dated September 30. 1916; H. E. 036200 made in the Phoenix Land Office on September 1, 1917, by Robert J. Cook.

Surveyed under special instructions from the Surveyor General for Arizona, dated March 12, 1919, and designated as Homestead Entry Survey No. 591.

Situated in what will probably be when surveyed, Secs. 19 and 20, T. 10 N., R. 14 E., Gila and Salt River Base and Meridian, Tonto National Forest, Arizona.

> Surveyed under the Acts of June 11, 1906 and October 1, 1918. the bearing of references that the de-

> Survey commenced June 6, 1919, and executed with a Buff and Buff transit No. 10019, equipped with Smith solar attachment.

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

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

June 6. 1919.

At Cor. No. 2 of this survey, hereinafter described, I observe the altitude of the sun for azimuth. reading on the reference mark was set at zero and the sun was observed in the upper right and lower left quadrants of the field. My watch is set for local mean time. in and

Lat. 34° 11' 29" N., Long. 110° 56' 15" W., Special Instructions from the Surveyor General and later verified.

STATE OF ARIZONA

Chains

Telescope Pos. l.m.t. Horizontal Vertical sun p.m. Angle Angle Direct, +º .5h 23m 30s 1,03° 39' 30" 20° 07' 30"

Reversed # 5h 24m 15s 104° 09' 00" 19° 27' 56"

Bearing of Reference Mark is N. 28° 23' 43" E.

At the same station I again observe the altitude of the sun for azimuth. The reading on the reference mark is set at zero and the sun was observed in the upper left and lower right quadrants of the field.

Telescope Pos. 1.m.t. Horizontal Vertical sum p.m. Angle Angle

Direct '4 5h 24m 50s 103° 29' 00" 19° 52' 04"

Reversed 5 5h 25m 30s 103° 58' 30" 19° 13' 00"

The bearing of reference mark is N. 28° 22' 30" E.

The two obsns. give a mean bearing of reference mark as N. 28° 23' E. I accept bearing of reference mark as N. 28° 23' E. and to the corresponding meridian all the courses of this survey were referred by sustained angulation.

Note: The lines of this survey were run on an assumed azimuth which was subsequently corrected to the meridian as above determined.

ESTABLISHMENT OF U.S.L.M. 591 H.E.S.

June 6, 1919.

There being no public land corner or U. S. Location

Monument within two miles of this claim, I therefore
establish U. S. L. M. 591 H. E. S. as follows:

On an open South slope forming the first rise of the
Mogollon rim, I select a limestone boulder in place
showing 6 x 5 x 3 ft. above ground, which is plainly
visible from East, South and West. I chisel boulder
+ on top for the point and U S L M 591 H E S 2 lks.

N. of the + on sloping N. face; raise a mound of stone
6 ft. base, 5 ft. high, N. of U. S. L. M., whence:

3.

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TONTO NATIONAL FOREST

STATE OF ARIZONA.

Chains

A juniper 40 ins. dia., brs. N. 85° 09' W., 521 lks. dist.

An : oak 12 ins. dia.; brs. N. 14° 07! W.,

377 lks. dist.

Each blazed and scribed USLM 591 HES and 1 H.E.S 591 + B T

No other bearing trees available.

NE. cor. of Robert J. Cook's house brs. S.62°02'W., 313 lks. dist.

Brown's Peak brs. S. 31° 46' W.

Mazatzal Peak brs. S. 72° 43' W.

North Peak brs. S. 84° Ol! W.

Cor. to Secs. 4, 5, 32 and 33, Ts. 9 and 10 N., R. 14 E. a granite porphyry stone 10 x 8 x 8 ins. above ground, marked and witnessed as described by the Surveyor General, brs. S. 14° 41' 30" E., 230.27 chs. distant by traverse which appears at the end of these . notes.

Note: U. S. L. M. No. 591 H. E. S. is also Cor. No. 1 of this survey, as is hereinafter described.

. BOUNDARIES OF CLAIM

June 6, 1919.

Beginning at Cor. No. 1, which is also U. S. L. M. 591 H. E. S. previously described.

Identical with Cor. H-1 of the list survey, Which is a sandstone 14 x 6 x 6 ins. set on top of the limestone boulder in place showing 6 x 5 x 3 ft above ground, . marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. The + chiseled on top of the limestone boulder for U. S. L. M. 591 H. E. S. is also point for Cor. No. 1, of this survey,

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HOMESTEAD ENTRY SURVEY NO. 591

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STATE OF ARIZONA

Chains

. and on the sloping SW. face of the boulder 2 lks. SW. of + I chisel 1 H E S 591; raise a mound of stone 3 ft. base, 2 ft. high, SW, of cor., whence:

A juniper 40 ins. dia., brs. N. 85° 09' W., 10.521 lks. distance on the local

An oak 12 ins. dia., brs. N. 14° 07' W., .377 lks. dist.

. . Each blazed and scribed 1 H E S 591 and USLM 591 HES + BT

Lat. 34° 11' 53" N., . Long. 110° 56' 15" W., from Special Instructions from the Surveyor General and later verified.

Magnetic declination at 8 a.m. 14° 30 . E. Mean Magnetic declination, 14° 26' E.

. Descend 40 ft. over open S. slope.

26.21 Enter heavy brush, Descend 20 ft. over steep E. slope. To Cor. No. 2. 39.89

Identical with Cor. H-2 of the list survey, which is a candatone 24 x 10 x 8 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor.

Deposit a sandstone 3 x 2 x 2 ins. marked with a + 20 ins. in the ground, over which set a sandstone 34 x 12 . x.6 ins. chiseled + for the point and 2 H E S 591 on NW. face; raise a mound of stone 3 ft. base, 2 ft. high, NW. of cor., whence: -

An oak 10 ins. dia., brs. S. 32° 00' W.,

4 lks. dist.

A juniper 24 ins. dia., brs. S. 66° 02' E., . 68 lks. dist. o beat lie work

. . . . da gine soint for wer. ic. i. or wise mavey,

STATE OF ARIZONA

Chains

Cor. No. 3 of H.E.S.590, a sandstone 14 x 5 x 4 ins. above ground, marked + on top and 3 H E S 590 on SE. face, set in a mound of stone 4 ft. base, 2 ft. high, brs. S. 41° 18, 40" E..

13022 19vo .: 45.17 chs. dist. by traverse which appears at . the end of these notes.

A dry wash 50 lks. wide, 3 ft. deep, course S. 10° W., passes 50 lks. to the E. of this corner. done . and a de de decorate

Thence S. 89° 47' W. Louis Line Show to be set all

Ascend 40 ft. over steep rocky east slope, thru heavy . at the brush, the for follow they amount out his and

Top of ascent, thence along open grassy south slope, thru scattering juniper.

39.23

> , Identical with Cor., H-3 of the list survey, which is a sandstone 9 x 6 x 2 ins. above ground, marked and , withessed as described by the Forest Service. I destroy all trace of this list cor.

Deposit a sandstone 2 x 2 x 1 ins. marked with a + 26 ins. in the ground, over which set an iron post 36 ins. long, 2 ins. dia., with brass cap marked 1919 on South rim and 3 H E S 591 in NE. quadrant; raise a mound of stone 3 ft. base, 2 ft. high, NE. of cor., whence:

A juniper 38 ins. dia., brs. S. 44° 00' E., 154 lks. dist.

A juniper 10 ins. dia., brs. S. 58° 02' W., 85 lks.dist.

Each blazed and scribed 3 H E S 591 + B T

Thence N. O° 071 E.

Descend 30 ft., over steep rocky NW. slope, thru heavy

Form 85. 6 .

TONTO NATIONAL FOREST

STATE OF ARIZONA

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Chains	brush. of the comment
3.91	Wash, 40 lks. wide, banks 3 ft. high, (dry) course SW.
	Ascend 35 ft., over steep rocky SE. slope, thru heavy
	brush
8.41	Top of steep ascent; thence ascend 50 ft., over gradual
	South slope, thru scattering juniper and oak.
39.98	To Cor. No. A. C. al
	Identical with Cor. H-4 of the list survey, which is a
	sandstone 9 x 5 x 3 ins. above ground, marked and wit-
	nessed as described by the Forest Service. I destroy
	all trace of this list cor.
real	Deposit a sandstone 4 x 3 x 2 ins. marked with a + 26
	ins. in the ground, over which set an iron post 36 ins.
, 30	long, 2 ins. dia., with brass cap marked 1919 on S. rim,
	and 4 H E S 591 in SE. quadrant; raise a mound of stone
	3 ft. base, 2 ft. high, SE. of cor., whence:
a. n	A juniper 15 ins. dia., brs. S. 31° 58' E.,
	22 lks. dist.
	. A juniper 36 ins. dia., brs. S. 71° 55' W.,
	210 lks. dist.
e ca	Each blazed and scribed 4 H E S 591 + B T
. m. 60	wish hotel and the appearance even our out off and the
July to A	Thence N. 89° 49° E.,
To an	Along gentle south slope, thru scattering juniper and
10	one of the second of the secon
40.71	To Cor. No. 1, the place of beginning.
	. 190 °CG AREA
	Area, 159.55 Acres.
	Control of the contro
1. 3.23	. 190 %

STATE OF ARIZONA

Chains

IMPROVEMENTS

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

A frame house 14 x 20 ft., the long sides extending E. and W., and the NE. cor. of which bears S. 62° 02' W., 3.13 chs. dist. from Cor. No. 1.

Value - - - - - - - - - - \$ 200.00 Approximately 1 mile of wire fence,

DESCRIPTION

This claim consists mainly of a wide flat grassy ridge, with a southern exposure. The soil is a good deep loam, usually gravelly on the surface but free of rock beneath.

Approximately 85 percent of the area is suitable for farming, of which 15 acres were under cultivation at the time of survey.

The rainfall is depended upon to grow crops. Water for domestic use is obtained from a spring about 1/4 mile NE. of the house.

There is no timber of commercial value on the claim. I saw no indications of mineral on the claim.

CONFLICTS AND ADJOINING CLAIMS

There are no conflicts or adjoining claims.

H. E. S. No. 590 lies about 1/2 mile distant in a Southeasterly direction.

Young, Arizona, the nearest settlement and postoffice, lies about 8 miles distant in a southerly direction.

STATE OF ARIZONA

Chains		mp A Train	CHACK			
	Course		1 animi 3			w.
to ter	Course	39.89	or Farling	39.86	The state of the s	
	S. 2° 16' W. S. 89° 47' W. N. 0° 07' E. N. 89° 49' E.	39.23	70 00	: 15.4	ene O8	39.23
	N. 89 49 E.	40.71	.13	Trame hou	40.71	40.81
9	olo - 10 .000	TOSCOT	40.01	20.01	40.79	40.79
	Error In Lat.	and Dep.	18 .10	. E 5:1860		.02
	Closing Error,	1:1567		.071.00		
	TIE FROM U.S. SECS. 4, 5,	32 and 33	, Ts. 9			
	Course	Dist.	N.	S.	E.	W.
	S. 20 761 W.	39.89/		39.86		1.58
	N. 82° 16' W. S. 6° 01' W. S. 3° 08' W.	7.97	1.30	7.93		9.58
	S. 3° 08! W.	20.11	1.2	20.08	7 94 4	1.10
, osoti	S. 16° 53' E. S. 85° 53' E.	40.22	tan ejal	3.12	40.10	
0.00	S. 0° 39' W. N. 87° 56' E. S. 0° 12' E. S. 89° 38' E.	24.93	0.75	24.93	80.68	.28
	S. 0° 12' E.	24.68		24.68	.09	
	S. 89° 38' E.	20.74		20.74	40.02	.31
6-589 = (S. 0° 52' W. N. 18° 10' E. S. 65° 00' W.	.77	.73	•1.00	. 24	0.05
101	S. 55° 00' W.	3.14	reered d	14.97	11.28	2.85
	S. 0° 41' E. S. 88° 01' W.	64.54		64.54	.77	17.36
	S. 85° 39' W. N. 78° 53' W.	10.05		.76		10.02
	N. 78° 53' W.	12.33	2.38	227.90 V	114.42	12.10
	. cowo wors	of Hogh	epucces.	5.16	56.02	55.62
JEGGE	Resultant Cour	se, S. 14°	41 50	222.74 E., 230.2	58.40 27 chs.	
				o . El olim		
e j	TIE LINE FROM	COR. NO.	2, H.E.S	591 to C	OR. NO.	3,
	Course			eva. i on	E.	W.
	N. 82° 16' W.	9.67	1.30	7.93		9.58
	S. 6° 01' W. S. 3° 08' W.	20.11		20.08		1.10
	S. 16° 53' E. S. 85° 33' E.	4.28	John	4.10	1.24	
			1.30	35.23	41.34	11.52
- NOTE	writ om cain oil			33.93	29.82	
	Resultant cour	se, S. 41°	183 40			
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1 70			Sı	arveyor -	orest se	ervice.

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TONTO NATIONAL FOREST

STATE OF ARIZONA

Chains

Direct Solar Obsn. at Cor. No. 2 of H. E. S. 591.

Lat. 34° 11' 29" N., Long. 110° 56' 15" W., from

Special Instructions from the Surveyor General and

later verified. Elevation approximately 6200 ft.

Telescope Pos. 1.m.t. Horizontal Vertical sun p.m. Angle Angle

Direct , +° 5h 23m 30s 103° 39' 30" 20° 07' 30"

Reversed # 5h 24m 15s 104° 09' 00" 19° 27' 56"

Means 5h 25m 52s 103° 54 15" 19° 47 43"

. Corr. for refr. 2! 02" 19° 45' 41"

Decl. 22° 37' 51" N.

Cos. Q. = Sin. 22° 37' 51" N. - tan. 34° 11' 29" Cos. 34° 11' 29" x Cos. 19° 45' 41"

x tan. 19° 45' 41"

sin. 22° 37' 51" = 19.5852262 2 123 111 202 . 000

Cos. 34° 11' 29" = 9.9175921

cos. 19 45 41" = 9.9736398

9.6939943 = log. .49430

tan. 34° 11' 29" = 9.8321125

tan. 19° 45' 41" = 9.5554102

9.3875227' = log. .24407

131 110 00 - Cos · Q. = .25023

. Q. = 75° 30' 32"

Bearing of Reference mark, N. 28° 23' 43" E.

-2310

HOMESTEAD ENTRY SURVEY NO. 591

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TONTO NATIONAL FOREST

STATE OF ARIZONA

Chains Direct Solar Obsn. at Cor. No. 2, H. E. S. 591.

June 6, 1919.

Telescope Pos. 1.m.t. Horizontal Vertical Angle

Direct 4 5h 24m 50s 103° 29' 00" 19° 52' 04"

Reversed 40, 5h 25m 30s 103° 58' 30" 19° 13' 00"

Means 5h 25m 10s 103° 43' 45" 19° 32' 32"

Corr. for refr. 2' 03"
19° 30' 29"

. Decl. 22° 37' 52" N.

Cos. Q. = sin. 22° 37' 52" - tan. 34° 11' 29" Cos. 34°11'29" x Cos.19°30'29"

'x tan. 19° 30' 29"

sin. 22° 37' 52" = 9.5852312

cos. 34° 11' 29" = 9.9175921

cos. 19° 30' 29" = 9.9743249

9.6933142 = log. .49353

tan. 34°.11'. 29" = 9.8321125

tan. 19° 30' 29" = 9.5493427

3.483.8 . 300

9.3814552 = log. .24069

8--2349

Q. = 75° 21' 15"

Bearing of Reference Mark, N. 28° 22' 30" E.

a things .H . Inches ment . In . Ro ; him we

Form 85. Sheet No. 3.—Revised Feb., 1915.

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.

CORNERS.	BEARING.	DISTANCE.	LATITUDES.				DEPARTURES.			DOUBLE M. D.		N. AREAS. S. AREAS.				
			Nort	н.	Sour	гн.	East	r.	West	r.	DOODEL	JI. D.	N. ARBAS.		b. Hitelis.	
1 - 2	s. 2-16 w.	39.89			39	86			1	58	80	04			3192 00	
2 - 3	s. 89-47 W.	39.23				13			39	METERS AND AND AND AND		23		14.34	6 67	
3 - 4	N. 0-07 E.		39	95				08		Lagren (4, 1	09	3	60		
4-1	N. 89-49 E.	40.71		13			40				40	The second second second	4	09		
		159.81	40	11 01	40	01'	40	79	40	81°		,,	7	69	3198 67	
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				7,800.2												

APPROVAL

Office of the United States Surveyor General,

Phoenix, Arizona, may 18

, 1920

The foregoing field notes of Homestead Entry Survey No.

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executed by Frank D. Yost, Surveyor
under his special instructions, dated Franch 12, 1919, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

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.

U. S. Surveyor General.