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

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U. S. DEPARTMENT OF AGRICULTURE

FOREST SERVICE

FIELD NOTES

OF

HOMESTEAD ENTRY SURVEY NO. 310

SITUATED IN THE CORONADO NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

In Section 18, un surveyed, Township 24 S., Range 21 E.,

of the Gila and Salt River Base and Meridian.

State of ARIZONA

Applicant for listing Ed Ratliff.

Residence

Hereford, Arizona

, 1913

Application No. 182 , dated February 3 , 19 11 Supplemental List No. 3-1676 dated November 13, 1914 List No. 3-1676 , dated January 16 , 1912

Applicant for survey Ed Ratliff,

Residence Hereford, Arizona

H. E. No. 021794 , dated March 19

8-2349

alst the off

Land District Phoenix, Arizona

Survey executed by R. P. A. Johnson,	Surveyor-Draftsman [Forest Service Title.]	
Under special instructions dated	October 19 , 19 14	
Survey commenced	March 11 , 19 15	
Survey completed	March 12 , 1915	
Inder Acts of		No. C

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

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NOR 1- 1075 JUN 29.1917

OATH OF ASSISTANTS

We hereby certify that we assisted R. P. A. Johnson, Surveyor- Draftsman [Forest Service Title.] in surveying all those

parts or portions of Homestead Entry Survey No. **310** , 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 inconvenient and expensive to appear before an officer to administer oaths to Assistants; hence, they were taken by the Surveyor.

March

Chainman Chainman

4.00 MED 4800 MED 800 MED 2000 876 880

Subscribed and sworn to before me this twent

day of

OATH OF SURVEYOR

I, R. P. A. Johnson, Surveyor-Draftsman [Forest Service Title.]

, 1915.

do solemnly swear that, in strict conformity with the special instructions of the United States Surveyor General for ARIZONA , dated October 19 , 19 14 , and the laws of the United States, I have well, faithfully, and truly, in my own proper person, surveyed a tract of land in List 3-1676 dated January 16, 1912 and Supplemental

List Patent		, dated November under the Act of		v,
the same to be know situated within the		Entry Survey No. NADO	. 310 National Forest,	, in
un surveyed Section surveyed Section	18 , Tow		Range 21 E., , a Range	nd ,

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.

Subscribed and sworn to before me this two

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, 1915.

SEAL. *****

Elie & myn nobary Pirblic

My Commission ampires April 20, 1010,

day of

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O HOMESTEAD ENTRY SURVEY NO. 310

CORONADO NATIONAL FOREST

STATE OF ARIZONA

Chai	Applicant for listing, Ed Ratliff; Application No.
	18 182, dated February 3, 1911; . List No. 3-1676 dated
	January 16, 1912 and Supplemental List No. 3-1676
	dated November 13, 1914; H. E. 021794 made in the
	Phoenix Land Office on March 19, 1913 by Ed Ratliff.
and the second se	Surveyed under Special Instructions from the Surveyor
1-	General for Arizona dated October 19, 1914 and desig-
	nated as Homestead Entry Survey No. 310.
	Situated in T. 24 S., R. 21 E. in what will probably be,
	when surveyed, Sec. 18, Gila and Salt River Base and
-	Meridian Coronado National Report
. Is:	Surveyed under the Acts of June 11, 1906 and June 30,
	Direct 8b. 7m. 44s. 70° 45' 50" .1196 55'
	Payarged Sh. 60a. 40a. 220 50" 220 38"
	Survey commenced March 11, 1915 and executed with a
The second s	Buff and Buff transitoo . W al eBant to mean any
9	I test the adjustments of the transit and make necessary
	correctionsberreter
an a far far and	All measurements were made directly on the slope with a
	500 link steel tape. The slope angles were determined
* a a	with a clinometer. i doldw yevras faif of the M-H . Too film feotfact
	guestaite store 12 x 6 x 5 ins. in mound of stones
	HIGTON TT' TATOP
do t do	At 3h. 40.2m., p.m., l.m.t., I observe the altitude
io i	of the sun for azimuth at Cor. No. 4 of this survey.
ON	The reading on the reference object is set at Zero
.bruo	and sun was observed in the upper left and lower right
	quadrants of the field. My watch is set for local
1	mean time. Lat. 31º 20' 18" N. Long. 110º 14' 30" W.
	from Hereford Quadrangle.

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O HOMESTEAD ENTRY SURVEY NO. 310

CORONADO NATIONAL FOREST

STATE OF ARIZONA

Chains	Horizontal Vertical Telescope Time Ital Mangle Angle Angle
	Direct . 3h. 39m. :42s 64. 36. 00"
	Reversed 3h. 40m. 46s. 64° 13' 30" 180 28° 56'
	Bearing of reference object N. 00° 31' 11" E.
Sand States and States and States	Phoenix Land Office on March 19, 1913 by Ed Rati
	Marchel2, al915, suctions instructions, 51918
	At Sh. 8.2m., a.m., 1.m.t., I again observe the alti-
	tude of the sun for azimuth at Cor. No. 4. The reading
ly be,	on the reference object is set at Zero and the sun was
1 - 1 - Link and the second to be the	observed in lower left and upper right quadrants of the
	Meridian, Coronado National Forest.
30,	Telescope Time and to stol Angle Angle Angle
	Direct 8h. 7m. 44s. 70° 45' 30" . 22° 56'
	Reversed 8h. 8m. 40s. 71. 09' 30" 22. 38'
£	Bearing of reference object N. 00° 29' 52" E.
	The mean of these is N. 00° 30' 31" E. and to corres-
viesa	ponding meridian all the courses of this survey are
	referred encitostion
th a	All measurements were made directly on the slope wi
benim	500 link steel tape. The slope angles were deter
	Beginning at Cor. No. 1. Identical with cor. H-4 of the list survey which is a
and the second s	quartzite stone 12 x 8 x 3 ins. in mound of stones
	marked and witnessed as described by the Forest Service.
95	ANTA ANT ATTARDED
•	I destroy all trace of the list cor. in place of which
	I set a diorite stone 24 x 16 x 16 ins. in a mound of
right	stone 4 ft. base, 3 ft. high chiseled 1-H E S 310 on
1	NE. face. Rocky, impracticable to set stone in ground,
	mean time. Lat. 51° 20' 18" M. Long. 10° 14' 30
	from Hereford Quadrangle.

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174 Form 85. Sheet No. 2. 2.

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HOMESTEAD ENTRY SURVEY NO. 310

CORONADO NATIONAL FOREST

STATE OF ARIZONA

	Chains A white oak 18 ins, dia. bears N. 22° 44' W.,
	226 lks. dist. scribed 1 H.E S 310 B T
	A white oak 8 ins. dia. bears N. 14º 47' W.,
	264 lks. dist. scribed 1 H E S 310 B T
	International Boundary Post No. 100 which is an
	iron post six feet high marked 100 on west face
	bears S. 54° 39' 20" W., 61.30 chs. dist. by
	traverse, which appears at the end of these of.
	10.00 Arroyo, 20 lks. wide, banks 1 ft. h. setonourse sh.
	Lat. 31° 20' 18" N. Long. 110° 14' W. from Hereford
	Quadrangle, U. S. G. S. ad abiv .add 2 .ogorra Si.ed
	Mag. Va. at 3 p.m., 14° 32' E. Mean Mag. Va. 14° 34' E.
	Descend 360 ft. to wash in timber. ersed esnell 34.23
	24.40 Fence bears SE. and NW.
	25.30 Road bears SE. and NW. S-F. 100 notive feetbeel
	25.50 Montezuma Wash. 240 lks. wide, banks 3 ft. high, course
	Bi aid SE. WAscende 65 ft. todcor. income as besaentiv
	39.27 To Cor. No. 2.003220 .0M . H to 8-H . To 0 oals
	Identical with Cor. H-3 of the list survey which is a
	quartzite stone 6 x 3 x 5 ins., above ground marked
	and witnessed as described by the Forest Service. I
	destroy all trace of this list cor. in place of which
	I set a quartzite stone 24 x 10 x 4 ins., 14 ins. in
	the ground over a small stone marked with a cross
	, chiseled. 2-H E S 310 on SE. face and raise a mound
	of stone 3 ft. base, 2 ft. high SE. of Cor. from
	. W which 2 . 2 state. dis. dis. bears 2. 2: dist M. M.
he	185 lks. dist. scribed 3 H E S 510 B T

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O HOMESTEAD ENTRY SURVEY NO. 310

CORONADO NATIONAL FOREST

STATE OF ARIZONA

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Form 85. Sheet No. 2. . 4.

7 -	1	
	Chains	
		A black oak 14 ins. dia. bears N. 79. 46' E.,
		T 8 083 1ks. dist. scribed 2 H E S 310 B T
		.W 'VA black oak 18. ins. dia. bears S. 11° 57' E.,
		1 23 lks. dist. scribed 2 H E S 310 B T
	8- 8L	International Boundary Post No. 100 which i
	b face	Thence N. 1890 471 E. In Jeer xis Jaoq nori
	by .	. Along the SE. slope in timber a aread
	1.90 96	Arroyo, 15 1ks. wide, banks 1 ft. high, course SE.
	10.00	Arroyo, 20 lks. wide, banks 1 ft. high, course SE.
	13.29.510	Arroyo, 5 lks. 'wide, banks 1 ft. high, course SE.
	19.12	Arroyo, 6 lks. wide, banks 1 ft. high, course S. 40° E.
	20.20	Arroyo, 4 1ks. wide; banks 1 ft. high, course S. 30° E.
	28.10	Arroyo, 4 lks. wide, banks 1 ft. high, course S. 40° E.
	38.90	Arroyo, 6 lks. wide, banks 1 ft. high, course S. 46° E.
	39.75	Fence bears NW. and SE. deaw of . th Ode Energed
	39.90	To Cor. No. 3
		Identical with Cor. H-2 of the list survey, which is a
	eeruos	quartzite stone 6.x 4 x.6 ins. above ground marked and
		witnessed as described by the Forest Service. This is
		also Cor. H-3 of H. E. No. 022290. I destroy all trace
	a is a	of this list cor. which refers to this claim and at
	rkeđ	this point I set a diorite stone 24 x 8 x 8 ins., 14
-	I e	ins. in the ground over a small stone marked with a
Part and	which	cross chiseled 3-HES310 on SW. face and raise a mound
	. in	of stone 3 ft. base, 2 ft. high SW. of cor. from
	88	otwhich: lw hearsm enote ilans a revo hauorg edt
	and	A white oak 18. ins. dia. bears-N. 87º 00' W.,
	-	. 123 lks. dist. scribed 3 H E S 310 B T
		A black oak 18 ins. dia. bears S. 25º 12' W.,
		185 lks. dist. scribed 3 H E S 310 B T

HOMESTEAD ENTRY SURVEY NO. 310

CORONADO NATIONAL FOREST

STATE OF ARIZONA.

Form 85 Sheet No. 2

	Chains	Thence S. O° 08' E.,
	Unarins .	Thence S. 0° 08' H.
		Along line H-3, H-4 of H. E. No. 022290. Descend 15
•		ft. to wash.
	0.30	Fence, bears S. 35° E. and N. 35° W.
	1.06	Wash, 20 lks. wide, banks 3 ft. high, course S. 26° E.
		· Ascend 15 ft. to ridge.
	5.00	Ridge bears NW. and SE. Descend 25 ft. to arroyo.
	5.60	Leave timber, bears E. and W.
	7.60	Arroyo, 10 lks. wide, banks 2 ft. high, course S. 70° E.
	. 31 08 I	Ascend 10 ft. to ridge:
	9.00	Ridge bears NW. and SE. Descend 55 ft. to arroyo.
	15.00	Arroyo, 10 1ks. wide, banks 2 ft. high, course SE.
	20.36	Arroyo, 8 lks. wide, banks 2 ft. high, course S. 57° E.
		Descend 25 ft. to wash.
	26.06	Road, bears S. 54° E. and N. 54° W.
-	26.11	Fence, bears S. 54° E. and N. 54° W.
	26.81	Enter cultivated land, bears NW. and SE.
	30.59	Leave cultivated land, bears NW. and SE.
	30.88	Fence, bears N. 54° E. and S. 54° W.
	31.64	Montezuma Wash, 446 lks. wide, banks 2 ft. high, course
	10	
	39.66	To cor. No. 4.
		Identical with cor. H-1 of the list survey, which is a
		granite stone 6 x 3 x 6 ins. above ground, marked and
		witnessed as described by the Forest Service. This
	00	I destroy all
		trace of this list cor. which refers to this claim and
		at this point I set a quartzite stone 24 x 16 x 8 ins.,
	- 00	. 14 ins. in the ground, over a small stone marked with
-		a cross, chiseled 4 - H E S 310 on NW. face; and raise
		. TOT THE FORDE

This dista is situated on Monternas Week at 33.

itrol elle fled-ello tucda anisticol apraeach to

International line. The general slope of the land

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Form 85 Sheet No. 2 · 6. HOMESTEAD ENTRY SURVEY NO. 310

CORONADO NATIONAL FOREST

STATE OF ARIZONA.

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-	1		
	Chains	a mound of stone 3 ft. base, 2 ft. high, NW. of cor.,	
	na 15	from which:	•
		A white oak, 18 ins. dia., bears N. 22° 44' W.,	
		226 lks. dist., scribed 4 H E S 310 B T.	
	• 5 • 1	A white oak, 8 ins. dia,, bears N. 15° 07' W.,	
		264 lks. dist., scribed 4 H E S 310 B T.	
		Thence N. 89° 49' W Das eresd , redails even be.	
	·10 001	Ascend 200 ft. to ridge. Fence on line.	
	26.60	Ridge bears NNE. and SSW. Enter timber. Descend 30 ft.	
	• 01	to ravine.	
	29.30	Ravine, 5 1ks. wide, course SE. Ascend 160 ft. to cor.	
	36.93	End of fence.	
	40.04	To cor. No. 1, the place of beginning.	
		AREA. A. AREA.	
		Total Area	*
	-	The sea . The press land, head land, many str. and ST.	
		IMPROVEMENTS:	
	E source	the improvements made upon and for the benefit of this	
		claim and belonging to the applicant consist of the	
		following:	
	A	sheet iron dwelling, 20 x 18 ft., the long side of	
	bus had	which bears E. and W. and NE. cor. of which bears	
		S. 62° E., 15.95 chs. dist. from cor. No. 2.	
	the vir	Value	
	TI SIN SI	here is approximately 1-1/2 miles of wire fence and	
	tat 8 x	stockade corral.	
	d JIW 19	Value \$200.00	
	siar 1	a gross, goiseled a - 16 31 3 310 on 200, face; a	-
		DESCRIPTION.	
	Th	is claim is situated on Montezuma Wash at SE. end	
		of Huachuca Mountains about one-half mile North of	
		International line. The general slope of the land	

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OLHOMESTEAD ENTRY SURVEY NO. 310

CORONADO NATIONAL FOREST

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STATE OF ARIZONA

Chains 1s to the SE. with NE. and SE. exposures. There is no merchantable timber on this tract but NE. and SE. slopes are covered with oak timber whose only value is for posts and fire wood. The bottom land along the creek is a sandy loam and will produce crops when irrigated. The NE. exposure is steep, rocky, non-tillable land suited only to pasture The SE. exposure is broken by arroyo with a shallow sandy soil of doubtful agricultural possibilities. There is no water for irrigation upon this tract. Water for domestic purposes can be obtained at about 30 ft. I saw no indication of mineral upon this claim. Hereford, the measest postoffice and reilroad point is approximately 15 miles to NE. and is reached by a good wagon road. Mis tract is joined on east by H. E. No. 022290 be- longing to W. M. Ratliff, father of applicant. Mineral Survey No. 1280 mentioned in the Special Instructions is approximately 1-1/2 miles to NW. U. S. L. M. No. 1274 is approximately 3 miles NW.			
There is no merchantable timber on this tract but NE. and SE. slopes are covered with oak timber whose only value is for posts and fire wood. The bottom land along the creek is a sandy loam and will produce creps when irrigated. The NE. exposure is steep, rocky, non-tillable land suited only to pasture The SE. exposure is broken by arroyo with a shallow sandy soil of doubtful agricultural possibilities. There is approximately 7 acres in cultivation. There is no water for irrigation upon this tract. Water for domestic purposes can be obtained at about 30 ft. I saw no indication of mineral upon this claim. Hereford, the nearest postoffice and railroad point is approximately 15 miles to NE. and is reached by a good wagon road. There are no conflicting claims. This tract is joined on east by H. E. No. OS2290 be- longing to W. M. Ratliff, father of applicant. Mineral Survey No. 1280 mentioned in the Special Instructions is approximately 1-1/2 miles to NW. U. S. L. M. No.		Chains	is to the SE. with NE. and SE. exposures
and SE. slopes are covered with oak timber whose only value is for posts and fire wood. The bottom land along the creek is a sandy loam and will produce crops when irrigated. The NE. exposure is steep, rocky, non-tillable land suited only to pasture The SE. exposure is broken by arroyo with a shallow sandy soil of doubtful agricultural possibilities. There is approximately 7 acres in cultivation. There is no water for irrigation upon this tract. Water for demestic purposes can be obtained at about 30 ft. I saw no indication of mineral upon this claim. Hereford, the nearest postoffice and railroad point is approximately 15 miles to NE. and is reached by a good wagon road. CONFLICTS AND ADJOINING CLAIMS There are no conflicting claims. This tract is joined on east by H. E. No. 022290 be- longing to W. M. Ratliff, father of applicant. Mineral Survey No. 1280 mentioned in the Special Instructions is approximately 1-1/2 miles to NW. U. S. L. M. No.			
value is for posts and fire wood. The bottom land along the creek is a sandy loam and will produce crops when irrigated. The NE. exposure is steep, rocky, non-tillable land suited only to pasture The SE. exposure is broken by arroyo with a shallow sendy soil of doubtful agricultural possibilities. There is approximately 7 acres in cultivation. There is no water for irrigation upon this tract. Water for domestic purposes can be obtained at about 30 ft. I saw no indication of mineral upon this claim. Hereford, the nearest postoffice and railroad point is approximately 15 miles to NE. and is reached by a good wagon road. CONFLICTS AND ADJOINING CLAIMS There are no conflicting claims. This tract is joined on east by H. E. No. 022290 be- longing to W. M. Ratliff, father of applicant. Mineral Survey No. 1280 mentioned in the Special Instructions is approximately 1-1/2 miles to NW. U. S. L. M. No.		0.06	
The bottom land along the creek is a sandy loam and will produce crops when irrigated. The NE. exposure is steep, rocky, non-tillable land suited only to pasture The SE. exposure is broken by arroyo with a shallow sandy soil of doubtful agricultural possibilities. There is approximately 7 acres in cultivation. There is no water for irrigation upon this tract. Water for demestic purposes can be obtained at about 30 ft. I saw no indication of mineral upon this claim. Hereford, the nearest postoffice and railroad point is approximately 15 miles to NE. and is reached by a good wagon road. CONFLICTS AND ADJOINING CLAIMS There are no conflicting claims. This tract is joined on east by H. E. No. 022290 be- longing to W. M. Ratliff, father of applicant. Mineral Survey No. 1280 mentioned in the Special Instructions is approximately 1-1/2 miles to NW. U. S. L. M. No.			
produce crops when irrigated. The NE. exposure is steep, rocky, non-tillable land suited only to pasture The SE. exposure is broken by arroyo with a shallow sendy soil of doubtful agricultural possibilities. There is approximately 7 acres in cultivation. There is no water for irrigation upon this tract. Water for domestic purposes can be obtained at about 30 ft. I saw no indication of mineral upon this claim. Hereford, the nearest postoffice and railroad point is approximately 15 miles to NE. and is reached by a good wagon road. CONFLICTS AND ADJOINING CLAIMS There are no conflicting claims. This tract is joined on east by H. E. No. 082890 be- longing to W. M. Ratliff, father of applicant. Mineral Survey No. 1280 mentioned in the Special Instructions is approximately 1-1/2 miles to NW. U. S. L. M. No.		 Statistics and the second secon	
<pre>steep, rocky, non-tillable land suited only to pasture The SE. exposure is broken by arroyo with a shallow sandy soil of doubtful agricultural possibilities. There is approximately 7 acres in cultivation. There is no water for irrigation upon this tract. Water for domestic purposes can be obtained at about 30 ft. I saw no indication of mineral upon this claim. Hereford, the nearest postoffice and railroad point is approximately 15 miles to NE. and is reached by a good wagon road.</pre> CONFLICTS AND ADJOINING CLAIMS There are no conflicting claims. This tract is joined on east by H. E. No. 022290 be- longing to W. M. Ratliff, father of applicant. Mineral Survey No. 1280 mentioned in the Special Instructions is approximately 1-1/2 miles to NW. U. S. L. M. No.		89.99	
The SE. exposure is broken by arroyo with a shallow sandy soil of doubtful agricultural possibilities. There is approximately 7 acres in cultivation. There is no water for irrigation upon this tract. Water for domestic purposes can be obtained at about 30 ft. I saw no indication of mineral upon this claim. Hereford, the nearest postoffice and railroad point is approximately 15 miles to NE. and is reached by a good wagon road. CONFLICTS AND ADJOINING CLAIMS There are no conflicting claims. This tract is joined on east by H. E. No. 022290 be- longing to W. M. Ratliff, father of applicant. Mineral Survey No. 1280 mentioned in the Special Instructions is approximately 1-1/2 miles to NW. U. S. L. M. No.		der ·	
sandy soil of doubtful agricultural possibilities. There is approximately 7 acres in cultivation. There is no water for irrigation upon this tract. Water for domestic purposes can be obtained at about 30 ft. I saw no indication of mineral upon this claim. Hereford, the nearest postoffice and railroad point is approximately 15 miles to NE. and is reached by a good wagon road. CONFLICTS AND ADJOINING CLAIMS There are no conflicting claims. This tract is joined on east by H. E. No. 022290 be- longing to W. M. Ratliff, father of applicant. Mineral Survey No. 1280 mentioned in the Special Instructions is approximately 1-1/2 miles to NW. U. S. L. M. No.			
There is approximately 7 acres in cultivation. There is no water for irrigation upon this tract. Water for domestic purposes can be obtained at about 30 ft. I saw no indication of mineral upon this claim. Hereford, the nearest postoffice and railroad point is approximately 15 miles to NE. and is reached by a good wagon road. CONFLICTS AND ADJOINING CLAIMS There are no conflicting claims. This tract is joined on east by H. E. No. O22290 be- longing to W. M. Ratliff, father of applicant. Mineral Survey No. 1280 mentioned in the Special Instructions is approximately 1-1/2 miles to NW. U. S. L. M. No.		try Post	Sendy soil of double is broken by arroyo with a shallow
There is no water for irrigation upon this tract. Water for domestic purposes can be obtained at about 30 ft. I saw no indication of mineral upon this claim. Hereford, the nearest postoffice and railroad point is approximately 15 miles to NE. and is reached by a good wagon road. CONFLICTS AND ADJOINING CLAIMS There are no conflicting claims. This tract is joined on east by H. E. No. 022290 be- longing to W. M. Ratliff, father of applicant. Mineral Survey No. 1280 mentioned in the Special Instructions is approximately 1-1/2 miles to NW. U. S. L. M. No.			
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I saw no indication of mineral upon this claim. Hereford, the nearest postoffice and railroad point is approximately 15 miles to NE. and is reached by a good wagon road. CONFLICTS AND ADJOINING CLAIMS There are no conflicting claims. This tract is joined on east by H. E. No. 022290 be- longing to W. M. Ratliff, father of applicant. Mineral Survey No. 1280 mentioned in the Special Instructions is approximately 1-1/2 miles to NW. U. S. L. M. No.			There is no water for irrigation upon this tract. Water
Hereford, the nearest postoffice and railroad point is approximately 15 miles to NE. and is reached by a good wagon road. CONFLICTS AND ADJOINING CLAIMS There are no conflicting claims. This tract is joined on east by H. E. No. 022290 be- longing to W. M. Ratliff, father of applicant. Mineral Survey No. 1280 mentioned in the Special Instructions is approximately 1-1/2 miles to NW. U. S. L. M. No.		19. 78	for domestic purposes can be obtained at about 30 ft.
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There are no conflicting claims. This tract is joined on east by H. E. No. 022290 be- longing to W. M. Ratliff, father of applicant. Mineral Survey No. 1280 mentioned in the Special Instructions is approximately 1-1/2 miles to NW. U. S. L. M. No.		•	291 808 7 63, 50 obs. 61st. from Cor. 30.
This tract is joined on east by H. E. No. 022290 be- longing to W. M. Ratliff, father of applicant. Mineral Survey No. 1280 mentioned in the Special Instructions is approximately 1-1/2 miles to NW. U. S. L. M. No.			CONFLICTS AND ADJOINING CLAIMS
longing to W. M. Ratliff, father of applicant. Mineral Survey No. 1280 mentioned in the Special Instructions is approximately 1-1/2 miles to NW. U. S. L. M. No.			
Survey No. 1280 mentioned in the Special Instructions is approximately 1-1/2 miles to NW. U. S. L. M. No.			This tract is joined on east by H. E. No. 022290 be-
is approximately 1-1/2 miles to NW. U. S. L. M. No.			longing to W. M. Ratliff, father of applicant. Mineral
			Survey No. 1280 mentioned in the Special Instructions
			is approximately 1-1/2 miles to NW. U. S. L. M. No.

O HOMESTEAD ENTRY SURVEY NO. 310

CORONADO NATIONAL FOREST

STATE OF ARIZONA

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rm 85. et No. 2. . 8.

Chains .aeineogxe .22 barraverses .22 odt of ai . Cor. toe Course to Dist.t elN. tradore S. on al E. edT W. 1-2 N.00° 05' W. 39.27 39.27 secola .42 bas 0.06 39.90 0.13 39.66 0.09 2-3 N.89° 47' E. 39.90 0 3-4 S.00° 08' E. 39.66 1 N.89º 49' W. 40.04 40.04 4-1 158.87 39.55 39.66 39.99 40.10 TIG W111 Error in Lat. and Dep. Slitt nedw 39.55 39.99 .11 steep, rocky, non-tillable 1201:1" forre gains closing error. The SH. exposure is broken by arroyo with a shallow Traverse from Cor. No. 1 to International Boundary Post . as it There is approximately 7 scres in cultivation. iter irrigatio W. S. E. staw on al stadT Dist. Course Tetel 40.04 0.13 S. 89° 49' E. 40.04 S. 00° 08' E. 5.00 O.13 40.04 5.00 O.13 40.04 .TT 8.63 N. 58° 28' W. 10.13 5.30 163.27 11.38 90.05 46.84 40.05 40.05 11.38 approximate 34.38 miles to NE. and is reached by a 50.00 Therefore International Monument No. 100 bears S. 54. 39" 20" W. 61.30 chs. dist. from Cor. No. 1. Survey completed March 12, 1915. There are no conflicting claims. This tract is joined on east by H. H. No. 022290 Betillf, father of applicant. Mineral wood in the Special Instructions .OH .M .I .E .U .WH of selim Surveyor - Draftsman 1274 is approximately 3 miles NW.

HOMESTEAD ENTRY SURVEY NO. 310

CORONADO NATIONAL FOREST

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HOMESTEAD ENTRY SURVEY NO.

NATIONAL FOREST

STATE OF

CARLES & CARLES FOR A DESCRIPTION	Azimita	
	Direct Solar, March 11, at cor. No. 4.	
	Lat. 31° 20' 16" N., Long. 110° 14' 30" W.	
	Alevetion 5000 ft.	0
Ios. of Sun	Telescope Time Angle Angle	
de la	Direct Sh. 39m. 428. 64° 36' 00" 29° 38'	
	Reversed 3h. 40m. 46s. 64° 15' 30" 28° 56' 2)7h. 20m. 26a. 128° 49' 50" 57° 34' 3h. 40m. 145. 64° 24' 45" 28° 47'	
50" ref. e	77. 97. 20	
.08	Dec. 3° 50' 55" S.	
-	Cos. Q. = - sin. 3° 50' 55" cos. 51° 20' 16" x cos. 23° 45' 30" tan. 31° 20' 16" x tan. 28° 45' 30'	
	log. sin. = 3° 50' 55" = + 8.826227 log. cos. = 31° 20' 18" = - 9.931514 log. cos. = 28° 45' 30" = - 9.942829	
089513	log. tan. = 31° 20' 18" = 9.784565	
.33418 42369	log. tan. = 28° 45' 30" = <u>9.739420</u> 9.523985 log	
42369	9.523985 10g 9.523985 10g Cos. Q. = 9 = 64° 55 30sring of reference object N. O° 31' 11" 1.	
42369	9.523935 log 9.523935 log Cos. Q. = 30sring of reference object N. O° 31' 11" 1. Direct Solar March 12, at cor. No. 4. Telescope Time Horizontal Vertical F	
.42369 ,* 56*	9.623985 log 9.623985 log 203. 0. = . 303. 0. = . 303. 0. = . 303. 0. = . 303. 0. = . 304. 55 304. 55 304. 55 304. 55 305.	
.42569 • 56" • 56	9.623985 log. 9.623985 log. 3.53985 log. 3.54° 55 3.54° 55 3.54° 55 3.54° 55 3.54° 55 3.54° 55 3.54° 55 3.54° 51 3.54° 51 3.54° 51 3.54° 51 3.54° 51 3.54° 51 3.54° 51 3.54° 51 3.55° 52° 55° 3.54° 52° 55° 55° 55° 55° 55° 55° 55° 55° 55	
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Form 85. Sheet No. 3.-Revised Feb., 1915.

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DIRECTIONS.--1. Clarry out calculation 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.
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 CALCITT ATT

8-2349

	S. AREAS.		3169 61 15 16 157.72 30res	
N ADFAC	N. AREAS.	1 57		
DOUBLE M D		39 93 79 98		
URES.	WEST.	06	40 10 <i>H</i> 0 05	
DEPARTURES.	EAST.	23 23 23 23	29 99 20 25	
DES.	South.	89 59 66	39 66 39 63	
LATITUDES.	North.	39 24 15 15 13	<u>33</u> 63 <u>33</u> 63	
DISTANCE.		29.27 29.90 39.66 40.04	X0•007	
BEARING.		N. 00° 05' W N. 89° 47' E S. 00° 08' E N. 89° 49' W.	Closing Error 1:1021	
CORNERS.		1-2 2-3 3-4 4-1	Glosi	

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APPROVAL

Office of the United States Surveyor General,

Phoenix, Arizona, August 8, 1917 The foregoing field notes of Homestead Entry Survey No.

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executed by R. P. A. Johnson, Surveyor-Draftsman, [Forest Service Title.] under his special instructions, dated October 19, 1914, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

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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.

8-2349

Frank P. Trott U. S. Surveyor General.