Book A

JUL 2 1910 39 augtes 2 chy 2 1912

2242

FIELD NOTES

OF THE SURVEY OF THE

Second Standard Parallel Norththrough Rgs. 1 and 2 E.	
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0110 and 0214 Bires	
Of the Gila and Salt River Meridian,	
Territory of Arizona.	
AS SURVEYED BY	1
Alfred N. Oliver , United States Deput	ty Surveyor,
Under his Contract No. 161 , dated January 5, 1910	190
Survey commencedApril 30, 1910	
Survey completed May 5, 1910.	190

40 1A

BOOK 22A2

NAMES AND DUTIES OF ASSISTANTS.

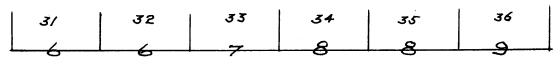
	Len Hall		Chainman		
·	A. E. Lyon		Chainman		
	H. T. Hartwell		Chainman		
	F. J. Cornick		Chainman		
	R. A. Coombs		Flagman.		
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6—151					

BOOK 2242

INDEX DIAGRAM.

Town	nship	9 N	, Range	IE.	
6	5	4	8	2	1
7	8	9	10	11	12
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	2	Standard Fo		11	4

Second Standard Parallel N. through R.I.E.
Meanders Page



Second Standard Parallel N. through RZE

PRELIMINARY OATHS OF ASSISTANTS.

	PRELIMINARY OA	THS OF ASSISTANTS.
42	2242	
© BOO	do solemnly swear that we will well and faithfully chain upon even and uneven ground, and plumb the we will report the true distances to all notable obj	execute the duties of chainmen; that we will level the tally pins, either by sticking or dropping the same; that etcs, and the true lengths of all lines that we assist in accordance with instructions given us, in the survey of
	the second Standard Parallel Nort	h, thorough Ranges, land 2 E.
		Leu Stall Chainman.
		a. E. Lyon, Chainman.
•	0-1	Chainman Chainman
	Subscribed and sworn to before me this 30th. day of April, 1910 , 190	7.9. Connick Chainman
	day of, 130	affred M. Chins
	**************************************	U. S. Deputy Surveyor.
	Wp	and
	· · ·	perform the duties of moundmen in the establishment s, to the best of our skill and ability, in the survey of
		, Moundman.
	1.14 de 40 de	"Moundman,
	Subscribed and sworn to before me this	 }
	day of, 190	
	WEEKE	
	WE,	and
		orm the duties of axmen in the establishment of corners as, to the best of our skill and ability, in the survey of
		. Axman.
•		
	Subscribed and sworn to before me this.	
	day of, 190	
•	(*) SEAL (*)	
	I, R. A. Coombs	do solemnly swear that I will well and truly
	perform the duties of flagman according to instruc	tions given me, to the best of my skill and ability, in the
	survey of the Second Standard Patall	el North, through Ranges 1 and 2 E.
	•	R. a. Combs, Flagman
	Subscribed and sworn to before me this 30th.	 }
	day of April, 1910. , 190	alfred M. Olim
	******* # SEAL M	U.S.Deputy Surveyor.
	No notary available without loss	
	no morary avairante armione 1088	or orme and Breat exhange.

(D)

Second Standard Parallel North, Through Rg. 1 E.

Survey commenced April 30, 1910, and executed with a Lietz Co. light mountain transit, No. 5631, with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs.

The instrument was examined tested on the true meridian at Phoenix, found correct, and was approved by the

surveyor general for Arizona

I examine the adjustments of the transit, and find them correct; then, to test the solar apparatus, by comparing its indications, resulting from solar observations made during a.m., and p.m., hours, with a meridian determined by observations on Polaris, I proceed as follows:

At the standard cor. of Ts. 9 N., Rgs. 1 E. and 1 W. which is a granite stone 14 x 12 x 7 ins above ground, firmly set and marked and witnessed as described by the surveyor general: latitude 34° 04! 21" N., longitude 112° 18' 24" W.; I set off 34° 04½! N. on the lat. arc; 14° 46' N. on the decl. arc; and at 5h. oom. p.m., 1.m.t determine with the solar a meridian and mark a point therof, on a stone firmly set in the ground, 5 chs. N. of the cor.

April 30, 1910.

May 1: At 4h. 57m.a.m. by my watch, which has correct 1.m.t., I observe Polaris at eastern elongation, in accordance with Manual of Instructions, and mark a point in the line thus determined, on a peg driven in the ground, 5 chs. N. of my station.
At 6 a.m., l.m.t., I lay off the azimuth of Polaris, 1.

25' to the west, and mark the meridian thus determined by cutting a small groove in the stone set April 30, on which the meridian coincides with the mark determined by the solar.

At 7h. 00m. a.m., l.m.t., I set off 34° 04½! N. on the lat. arc; 14° 56%! N. on the decl. arc; and mark a point in the meridian determined with the solar, by a cross on the stone already set 5 chs. N. of my station; this mark coincides with the meridian established by the Polaris observation.

The solar apparatus, by p.m., and a.m., observations defines positions for meridians, respectiverly, which agree with the meridian established by the Polaris observation; therefore, I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian, at 7h. lom. a.m., is N. 14° 30' W.; the angle thus determined gives the mag. decl. 14° 30' E.

From the standard cor. of Tps. 9 N. Rgs. 1 E. and 1 W. already described, I run

East, on S. bdy. of sec. 31.

Ascend steep, rocky west slope of ridge covered with loose rock.

10.74 Ridge N. and S. and descend

28.00 Cross wash 20 lks. wide course S. W. and ascend.

39.20 Cross drain 5 lks. wide course S. W.

Difference between measurements of 40.00 chs. by two sets of chainmen, is 10 lks; position of middle point

By 1st. set 39.95 chs.

By 2nd. set 40.05 chs.; the mean of which is Set a granite stone 20 x 8 x 6 ins. 15 ins. in the ground for standard $\frac{1}{4}$ sec. cor., marked SC $\frac{1}{4}$ on N. face; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.

Ridge bears N. and S. and descend.

40.00

54.90

(3)

BOOK 2242

44

, <u> </u>	Second Standard Parallel North, Through Range 1 East,
63.00	Cross wash 20 lks. wide course S. E. and ascend.
76.00	Ridge bears N. and S. and descend.
79.00	Cross wash 20 lks. wide course S. E.
	Difference between measurements of 80.00 chs., by two
	sets of chainmen, is 16 lks.; position of middle point
	By 1st. set 79.92 chs.
00.00	By 2nd. set 80.08 chs.; the mean of which is
80.00	Set a granite stone 18 x 8 x 8 ins. 12 ins. in the ground for standard cor. of secs. 31 and 32, marked SC
	on: N. with 5 grooves on E. and 1 groove on W. faces;
	and raise a mound of stone 2 ft. base 12 ft. high, N.
	of cor. Pits impracticable.
	Land, rough and mountainous, covered with loose rocks.
	Soil, rocky; 4th. rate.
	No timber.
	Undergrowth, mesquite, paloverde, catclaw and oak brush.
	Mountainous land, land covered with dense undergrowth
	and loose rocks, exceptionally difficult to survey
•	80.00 chs.
• • • •	
	East on S. bdy. of sec. 32
	Ascending steep S. W. slope of ridge covered with loose
	rocks, through dense brush.
16.00	Ridge bears N. E. and S. W. descend.
23.15	Cross wash 25 lks. wide course S. E. ascend.
33.50	Cross ridge bears N. W. and S. E. and descend.
	Difference between measurements of 40 chs. by two sets
71.7	of chainmen is 8 lks.; position of middle point By lst. set, 39.96 chs.
	By 2nd. set, 40.04 chs.; the mean of which is
40.00	Set a granite stone 20 x 12 x 6 ins. 15 ins. in the
1000	ground for standard t sec. cor., marked SCt on N. face;
, -	and raise a mound of stone 2 ft. base la ft. high, N.
	of cor. Pits impracticable.
45.50	Cross wash 15 lks. wide course S. E. ascend.
50.00	Ridge bears N. and S. descend.
61.00	Drain 6 lks. wide course S. E. ascend.
62.00	Spur runs S. E. descend.
65.40	Cross wash 50 lks. wide course S. Difference between measurements of 80.00 chs. by two
	sets of chainmen is 14 lks.; position of middle point
	By 1st. set, 79.93 chs.
	By 2nd. set, 80.07 chs.; the mean of which is
80.00	Mark a cross on a granite rock in place 3 ft. by 2 ft.
	by 5 ft. above ground, for exact point for standard cor.
	of secs. 32 and 33, marked SC on N. with 4 grooves on E.
	and 2 grooves on W. of cross; and raise a mound of stone
	2 ft. base la ft. high, N. of cor. Pits impracticable. Land, rough and mountainous and covered with loose rock.
	Soil, rocky; 4th. rate.
	No timber.
	Undergrowth, Paloverde, mesquite, catelaw and scrub oak.
	Mountainous land and land covered with dense undergrowth
	and loose rock, exceptionally difficult to survey 80.00
	chs.
	May 1; at this cor. I set off 14. 59½! N. on the decl.
	arc; and observe the sun on the meridian at noon; the
	resulting lat. is 34° 042° N.
	East on S. bdy. of sec. 33
	Ascending rocky S. W. slope through dense undergrowth
	and over loose rocks.
7.00	Ridge bears N. and S. descend.
11.60	Cross over mining shaft.
12.75	Cross drain 6.1ks. wide course S. ascend.

	Chaina	Second Standard Parallel North, through Range 1 East
	17.40	Ridge bears N. and S. descend.
	21.40 22.50	Cross wash 25 lks. wide course S. W. ascend. Stone house bears N. 50 lks.
	35.00	Difference between measurements of of 40.00 cha. by two
		sets of chaimnen is 4 lks.; position of middle point By lst. set 39.98 chs.
	40.00	By 2nd. set 40.02 chs.; the mean of which is
		Set a Schist stone 24 x 10 x 8 ins. 18 ins. in the ground for standard 4 sec. cor., marked SC4 on N. face;
		and raise a mound of stone 2 ft. base $l_{\frac{1}{2}}$ ft. high, N. of cor. Pits impracticable.
	59.00	Saddle in high rocky mountain ridge bears N. and S. descend.
	76.50	Cross wash 10 lks. wide course N. E.
		Difference between measurements of .80.00 chs. by two sets of chainmen is 10 lks.; position of middle point
		By 1st. set, 79.95 chs.
	80.00	By 2nd. set, 80.05 chs.; the mean of which is Set a granite stone 18 x 10 x 6 ins. 12 ins. in the
		ground for standard cor. of secs. 33 and 34, marked SC on N. with 3 grooves on E. and W. faces; and raise a.
		mound of stone 2.ft. base l_2 ft. high, N. of cor. Pits impracticable.
		Land, mountainous and covered with loose rock.
		Soil, rocky; 4th. rate. No timber.
		Undergrowth, paloverde, mesquite and scrub oak. Mountainous land and land covered with dense undergrowth
		and loose rock, exceptionally difficult to survey 80.00
		chs.
		May 1, 1910.
		May 2: At 7h. 00m. a.m., l.m.t., I set off 34 042 N.
		on the lat. arc; 15° 15° N. on the decl. arc; and determine a meridian with the solar at the standard cor.
		of secs. 33 and 34, Thence I run
	æ.	East on S. bdy. of sec. 34
		Descending N. E. slope of mountain through dense brush over loose rock.
	5.60 12.00	Cross drain 6 lks. wide course N. E. ascend. Spur extends N. E. and descend.
	28.00	Difference between measurements of 40.00 chs. by two sets
		of chainmen is 8 lks.; position of middle point By lst. set, 39.96 chs.
	40.00	By 2nd. set, 40.04 chs.; the mean of which is Set a granite stone 32 x 8 x 6 ins. 24 ins. in the
		ground for standard t sec. cor., marked SCt on N face.
		and raise a mound of stone 2 ft. base 12 ft. high, N. of cor. Pits impracticable
- 1	46.50 49.50	Cross wash 3Q lks. wide course S. E. and ascend. Ridge bears N. and S.
	54.00	Cross boulder Creek, dry, water in tanks. 40 lks. wide
	•	course S. E. and ascend. Difference between measurements of 80 chs. by two sets
		of chainmen is 12 lks.; position of middle point By 1st. set, 79.94 chs.
	80.00	By 2nd. set, 80.06 chs.; the mean od which is
		Mark a cross on a granite rock in place 3 x 22 x 2 ft. above ground for exact point for standard cor. of secs.
		grooves on W. of cross; and raise a mound of stone 2 ft
	•	Dase 12 It. high, N. of cor. Pits impracticable.
	•	Land, rough and mountainous and covered with loose rock. Soil, rocky; 4th. rate.

	Second Standard Parellel North through Pange 1 Fest
Chains.	No timber Undergrowth, catclaw and scrub oak. Wountainous land and land covered with dense undergrowth and loose rock, exceptionally difficult to survey, 80.00 chs.
	East on S. bdy. of sec. 35 Ascending steep W. slope, through dense brush, over loose
1.80 37.75	Ridge bears N. and S. and along S. slope of mountains. Ridge bears N. and S. and descend E. slope. Difference between measurements of 40 chs. by two sets of chainmen is 6 lks.; position of middle point By 1st. set, 39.97 chs. By 2nd. set, 40.03 chs.; the mean of which is
40.00	Mark a cross on a granite rock in place 4 x 32 x 12 ft. above ground, for exact point for standard t sec. cor., marked SCt on N. of cross; and raise a mound of stone 2 ft. base 12 ft. high N. of cor. Pits impracticable.
63.00 65.00 66.50	Cross wash 15 lks. wide course S. E. ascend. Ridge bears N. and S. descend. Cross wash 20 lks. wide course S. E. and ascend. Difference between measurements of 80.00 chs. by two sets of chainmen is 10 lks.; position of middle point By lst. set, 79.95 chs.
80.00	By 2nd. set, 80.05 chs.; the mean of which is Set a granite stone 18 x 12 x 10 ins. 12 ins. in the ground for standard cor. of secs. 35 and 36, marked SC on N. with 1 groove on E. and 5 grooves on W. faces; and raise a mound of stone 2 ft. base 12 ft. high, N. of cor. Pits impracticable. Land, rough and mountainous and covered with loose rock. Soil, rocky; 4th. rate. No timber.
	Undergrowth, catclaw and oak. Mountainous land and land covered with dense undergrowth and loose rock, exceptionally difficult to survey 80.00 chs. May 2: At this cor. I set off 15° 17½! N. on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is 34° 04½! N.
12.00 24.70 32.00	East on S. bdy. of sec. 36. Ascend steep S. W. slope of mountain, through dense brush, over loose rocks. Ridge bears N. and S. descend. Cross drain 5 lks. wide course, S. W. ascend Granite ridge bears N. and S. descend. Difference between measurements of 40.00 chs. by two sets of chainmen is 10 lks.; position of middle point By 1st. set, 39.95 chs.
40.00	By 2nd. set, 40.05 chs.; the mean of which is. Mark a cross on a granite rock in place 18 x 12 x 12 ins. above ground, for standard t sec. cor., marked SCt on N. of cross; and raise a mound of stone 2 ft. base 12 ft.
55.00 68.00	high N. of cross; pits impracticable. Cross drain 6 lks. wide course N. E. ascend. Saddle between granite peaksbears N. and S. Difference between measurements of 80.00 chs. by two- sets of chainmen is 14 lks.; position of middle point By 1st. set 79.93 chs.
80.00	By 2nd. set 80.07 chs.; the mean of which is Mark a cross on a granite rock in place 10 x 6 x 5 ft. above ground, for exact point for standard cor. of Tp. 9 N. Rgs. 1 and 2 E., marked SC on N. with 6 grooves

Second Standard Parallel North, through Range 1 East.

Chains.

On N., E., and W: of cross, and 9N on N. 2E. on E., and 1E on W: of cross; and raise a mound of stone 2 ft. base 1½ ft. high, N. of cor. Pits impracticable.

Land, rough and mountainous, and covered with loose rock. Soil, rocky; 4th. rate.

No timber.

Undergrowth, Catclaw and oak.
Mountainous land and land covered with dense undergrowth and loose rocks, exceptionally difficult to survey 80.00 chs.

May 2, 1910

BOOK 2242

		Second Standard Parallel North, through Range 2 East
	Chains,	May 3: At 7h. 00m. a.m., l.m.t., I set off 34° 04½' N. on the lat. arc; 15° 33' N. on the decl. arc; and determine a meridian with the solar at the standard cor. of Tps. 9 N. Rgs. l and 2 E. Thence I run
	12.50 21.10	East on S. bdy. of sec. 31 Descending over huge granite boulders, through dense brush. Cross wash 25 lks. wide course S. E. and ascend. Ridge bears N. W. and S. E. Difference between measurements on 40.00 chs. by two sets of chainmen is 10 lks.; position of middle point By 1st. set, 39.95 chs.
	40.00	By 2nd. set, 40.05 chs.; the mean of which is Set a granite stone 20 x 10 x 4 ins. 15 ins. in the ground for standard $\frac{1}{4}$ sec. cor., marked SC4 on N. face; and raise a mound of stone 2 ft. base $\frac{1}{2}$ ft. high N. of cor. Pits impracticable.
•	45.00 54.75 59.25 65.70 68.00 72.45	Leave granite boulders and over loose rocks. Cross drain 6 lks. wide course S. E. Cross same drain, course N. E. Cross same drain, course S. E. ascend. Ridge bears N. W. and S. E. Cross wash 30 lks. wide course S. E. ascend.
	78.20	Ridge bears N. and S. descend. Difference between measurements of 80.00 chs. by two sets of chainmen is 16 lks.; position of middle point By lst. set, 79.92 chs.
	80.00	By 2nd. set, 80.08 chs.; the mean of which is Set a schist stone 20 x 8 x 4 ins. 15 ins. in the ground for standard cor. of secs. 31 and 32, marked SC on N. with 5 grooves on E. and 1 groove on W. faces; from which A paloverde 6 ins. diam., bears N. 43 E. 39 lks. dist., marked SCT9NR2ES32BT. An ironwood 10 ins. diam., bears N. 76 W. 76 lks. dist., marked SCT9NR2ES31BT. Land, rough and mountainous and covered with loose rocks and hugh boulders. Soil, rocky; 4th. rate. No timber. Undergrowth, mesquite, catclaw, ironwood and oak. Mountainous land and land covered with dense undergrowth
-		and loose rock and boulders, exceptionally difficult to survey 80.00 chs.
	0.15 4.00 10.50 37.00	East on S. bdy. of sec. 32 Bescending through dense brush over loose rocks. Cross drain 5 lks. wide course S. ascend. Ridge bears N. and S. and descend. Cross wash 35 lks. wide course S. Ridge bears N. and S. descend. Difference between measurements of 40.00 chs. by two
	40.00	sets of chainmen is 4 lks.; position of middle point By lst. set, 39.98 chs. By 2nd. set, 40.02 chs.; the mean of which is Set a quartzite stone 18 x 10 x 4 ins. 12 ins. in the ground for standard t sec. cor., marked SCt on N. face; from which A mesquite 12 ins. diam., bears N. 314 W. 106
	43,45 49.00 56.00 63.40	Iks. dist., marked SCtS32BT. A paloverde 5 ins. diam., bears N. 82 E. 170 lks. dist., marked SCtS32BT. Cross drain 5 lks. wide course N. E. Cross same drain course S. E. ascend. Ridge bears N. and S. descend. Cross drain course S. W.

Second Standard Parallel North, through Range 2 East.

		second Standard Parallel North, through Range 2 East.
	handan	
1	Chains.	
	70.00	Ridge bears N. and S. descend.
		Difference between measurements of 80.00 chs. by two
		sets of chainmen is 12 lks.; position of middle point
	1	By 1st. set 79.94 chs.
		By 2nd. set 80.06 chs.; the mean of which is
	80.00	Set a Schist stone 20 x 8 x 4 ins. 15 ins. in the ground
		for standard cor. of secs. 32 and 33, marked SC on N.
		face, with 4 grooves on E. and 2 grooves on W. faces;
		from which
		A paloverde 8 ins. diam., bears N. 732 E. 170
		lks. dist., marked SCT9NR2ES33BT.
		A paloverde 4 ins. diam., bears N. 21 W. 76
		lks. dist., marked SCT9NR2ES32BT.
		Land, mountainous and covered with loose rocks.
		Soil, rocky; 4th. rate.
		No timber.
		Undergrowth, paloverde, catclaw and oak.
		Mountainous land and land covered with dense undergrowth
		and loose rocks, exceptionally difficult to survey 80.00
		chs.
	'	· · ·
		May 3, 1910.
	•	
		26 .4. 4. 39 .20
		May 4: At 7h. 00m., a.m., 1.m.t., I set off 34. 042! N.
		on the lat. arc; 15° 50½ N. on the decl. arc; and
		determine a meridian with the solar at the cor. of secs.
		32 and 33
	,	
	,	Thence I run
		East on S. bdy. of secs. 33
		Descending through dense brush over loose rocks.
	19.50	Cross wash 25 lks. wide course S. E. and ascend.
	25.60	Ridge bears N. and S. descend.
	20.00	
		Difference between measurements of 40.00 chs. by two sets
		of chainmen is 8 lks.; position of middle point
		By 1st. set, 39.96 chs.
		By 2nd. set, 40.04 chs.; the mean of which is .
	40.00	Set a granite stone 18 x 8 x 6 ins. 12 ins. in the
	2000	
		ground for standard t sec. cor., marked SCt on N. face;
		from which
		A paloverde 4 ins. diam., bears N. 21 W. 159
		lks. dist., marked SC#S33BT.
		A mesquite 5 ins. diam., bears N. 53 E. 86 lks.
		dist., marked SCLS33BT.
	44 00	
	44.00	Right bank of Agua Fria River.
	45.50	Center of running water in river bed, 100 lks. wide
		course S.
	53.93	Cross road bears N. W. and S. E.
	55.00	Center of running water in river bed, 100 lks. wide
	00100	course N. W.
	-0 00	
		Right bank of river.
	58.32	Fence bears N. W. and S. E.
		Difference between measurements of 80.00 chs. by two
		sets of chainmen is 10 lks.; position of middle point
		By 1st. set 79.95 chs.
	7	
ĺ		By 2nd. set 80.05 chs.; the mean of which is
	80.00	Set a malpais stone 18 x 8 x 8 ins. 12 ins. in the
		ground for standard cor. of secs. 33 and 34, marked SC
į		on N. with 3 grooves on E. and W. faces; from which
		A paloverde 6 ins. diam., bears N. 844 E 28
-		
		lks. dist., marked SCT9NR2ES34BT.
	٠	A mesquite 5 ins. diam., bears N. 70° W. 22
		lks. dist., marked T9NR2ES33BTSC.
	ļ.	Land, mountainous and covered with loose rocks.
		Soil, rocky; 4th. rate.
		No timber.
		Undergrowth, paloverde, mesquite and oak.
		ourcer from mi haro Aerra's mendrine sauc onk.
		· · · · · · · · · · · · · · · · · · ·

Second Standard Parallel North, through Range 3 East

	booming bandard raterior north; unrough hange a zero
Chains.	and dovered with loose rocks, exceptionally difficult to
	survey 80.00 chs.
	May 4: At this cor. I set off 15° 53' N. on the decl.
	arc; and observe the sun on the meridian at noon, the
,	resulting lat. is 34° 04½'.N.
	•
	A CONTRACTOR OF THE PARTY OF TH
	East on S. bdy. of sec. 34.
	Over level land through mesquite brush so dense as to
0.50	be exceptionally difficult to survey.
8.50	Cross fence bears N. E. and S. W.
16.40	Right bank of Agua Fria River. Center of running water in river bed50 lks. wide course
10.40	S. W.
18.20	Left bank of Agua Fria River.
18.35	Irrigation ditch 6 lks. wide course S. W.
19.80	Fence bears N. E. and S. W.
25190	Difference between measurements of 40.00 chs. by two
,	sets of chainmen is 6 lks.; position of middle point
	By 1st. set 39.9 7 chs.
	By 2nd. set 40.03 chs.; the mean od which is
40.00	Set a granite stone 18 x 8 x 6 ins. 12 ins. in the
	ground for standard t sec. cor., marked SCt on N. face;
	from which
	A mesquite 20.ins. diam., bears N. 45° E. 85
	lks. dist., marked SC4834BT.
	A catclaw 6 ins. diam., bears N. 36th W. 148
	lks. dist., marked SC 854BT.
45.45	Cross road bears N. E. and S. W.
51.95	Fence bears N. and S.
52.61	S. W. cor. of E. L. Hildebrand's house.
53.08	.N. E. cor. of store.
53.48	Fence bears N. W. and S. E.
53.60	Road bears N. and S.
55.37	Cor of barn bears N. loo lks.
59.00	Corral bears S. 50 .lks.
64.40	Cross wash 10 lks. wide course N. W.
66.70	Cross wash 15 lks. wide course N. W. ascend.
	Difference between measurements of 80.00 chs. by two
	sets of chainmen is 14 lks.; position of middle point By 1st. set 79.93.chs.
	By 2nd. set 80.07 chs.; the mean of which is
80.00	Set a malpais stone 20 x 10 x 6 ins. 15 ins. in the
00.00	ground for standard cor. of secs. 34 and 35, marked SC
	on N. with 2 grooves on E. and 4 grooves on W. faces;
	from which
	A mesquite 7 ins. diam., bears N. 25. E. 165
	lks. dist., marked SCT9NR2ES35BT.
	A mesquite 6 ins. diam., bears N. 847 W. 76
,	lks. dist., marked SCT9NR2ES34BT.
	Land, level and mountainous.
	Soil, rockyand sandy; 2nd. and 4th. rate:
	No.timber.
	Undergrowth paloverde, mesquite and catclew.
	Mountainous land, and land covered with dense undergrowth
*	exceptionally difficult to survey 80.00 chs.
	. May 4, 1910.
	Nov. 5. At 7h 00m am 1 mt T get off 340 04-1 N
	May 5: At 7h. 00m., a.m., 1.m.t., I set off 34 042 N.

May 5: At 7h. 00m., a.m., l.m.t., I set off 34 042 N. on the lat. arc; 16 08 N. on the decl. arc; and determine a meridian with the solar at the standard cor. of secs. 34 and 35

Thence I run
East on S. bdy. of sec. 35

	Second Standard Parallel North, through Range 2 East.
Chains.	Over rolling land covered with loose rocks, through
	dense brush.
0.40	Cross wash 20 lks. wide course N. W.
5.00	Ridge bears N. and S.
8.45 16.40	Cross wash 20 lks. wide course N. W. Cross wash 100 lks. wide course N.
1	Cross wash 30 lks. wide course N.
37.30	Cross wash 30 lks. wide course N.
	Difference between measurements of 40.00 chs. by two sets
	of chainmen is 4 lks.; position of middle point
	By 1st. set 39.98 chs.
40.00	By 2nd. set 40.02 chs.; the mean of which is
40.00	Set a malpais stone 18 x 10 x 6 ins. 12 ins. in the ground for Standard t sec. cor., marked SCt on N. face;
	from which
·	A paloverde 5 ins. diam., bears N. 142° E. 97
	lks. dist., marked &C+S35BT.
	A paloverde 5 ins. diam., bears N. 274 W. 98
53.00	lks. dist., marked SC4S35BT.
55.00	Cross wash 50 lks. wide course N. W. Difference between measurements of 80.00 chs. by two sets
	of chainmen is 6 lks.; position of middle point
·	By 1st. set 79.97 chs.
	By 2nd. set 80.03 chs.; the mean of which is
80.00	Set a malpais stone 18 x 10 x 6 ins. 12 ins. in the
	ground for standard cor. of secs. 35 and 36, marked SC
	on N. with 1 groove on E. and 5 grooves on W. faces;
	from which A paloverde 4 ins. diam., bears N. 17° W. 50
	lks. dist., marked SCT9NR3ES35BT.
	No other tree available. Raise a mound of stone 2 ft. base
	base log ft. high N. of cor. Pits impracticable.
	Land, rolling and covered with loose rock.
	Soil, rocky; 4th. rate.
	No timber. Undergrowth, greasewood, paloverde, mesquite and catclaw.
	Land covered with dense undergrowth and loose rocks,
	exceptionally difficult to survey 80.00 chs.
	May 5: At their cor. I set off 16° $10^{\frac{1}{2}}$ N. on the decl.
	arc; and observe the sun on the meridian at noon; the
	resulting lat. is 34° 04½! N.
	East on S. bdy. of sec. 36.
	Ascending through dense brush over loose rocks.
35.00	Ridge bears N. and S. and along N. slope of mountain.
	Difference between measurements of 40.00 chs. by two sets of chainmen is 8 lks.; position of middle point
	By 1st. set39.96 chs.
	By 2nd. set 40.04 chs.; the mean of which is
40.00	Set a malmais stone 18 v 12 v 5 inc. 12 inc. in the
	ground for standard t sec. cor., marked SCt on N. face;
	and raise a mound of stone 2 it. base 17 it. high, N.
67 00	of cor. Pits impracticable.
63.00	Ridge bears N. Malpais peak S. about 150 lks. and along S. slope of mesa.
	Difference between measurements of 80.00 chs. by two
	sets of chainmen is 20 lks.; position of middle point
	By 1st. set 79.90 chs.
	By 2nd. set 80.10 chs.; the mean of which is
80.00	Set a malpais stone 20 x 10 x 10 ins. 15 ins. in the
	ground for standard cor. of Tps. 9 N. Rgs. 2 and 3 E.
	marked SC9N on N. 3E on E. and 2E on W. faces, with 6 grooves on N. E. and W. faces; and raise a mound of stone
	2 ft. base 12 ft. high N. of cor. Pits impracticable.
	Land, mountainous and covered with loose rocks.
	Soil; rocky; 4th rate.
	No timber.
1	

BOOK 2242

Second Standard Parallel North, through Range 2 E.

Chains. Undergrowth, Greasewood, paloverde and catclaw.

Mountainous land and land covered with dense undergrowth and loose rocks, exceptionally difficult to survey 80.00

May 5, 1910.

GENERAL DESCRIPTION.

Through range 1 and the west half of range 2 thei line runs over high mountain ridges having a southerly trend. The east half of range 2 is over rolling land.

The land on both sides of the line is rough and mountainous.

Albert M. Elling

U.S.Deputy Surveyor.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

BOOK 2242

i	IST	OF	NIA	N // E	= e
_	101	\circ	INA	IVI	= 5.

	als employed by Alfred N. C	
	ed States Deputy Surveyor, to assist in ru	
marking the lines and corners described in		
	through Ranges 1 and 2 Eas	<u> </u>
showing the respective capacities in which	·	
•	Len. Hall	
	A. E. Lyon	
<u>-</u>	H. T. Hartwell	Chainman
	2) Corwick	Tanindman.
	<u></u>	
		, Axman.
· · · · · · · · · · · · · · · · · · ·	R. A. Coombs.	, Flaaman .
FINAL C	ATH OF ASSISTANTS.	, J
We hereby certify that we assisted	Alfred N. Oliver	
		avor in surveying all
	nd Standard Parallel North,	, ,
Salt River meridian, To the foregoing field notes as having been as been in all respects, to the best of our	erritory of Arizona surveyed by him and under his direction re knowledge and belief, well and faithfut to the instructions furnished by the Ur	which are represented; and that said survey lly surveyed, and the
eneral for Arizona.		
	den stack	Chainman.
	SAT Alas truell	. Chainman.
• 	200	Chainman
•	J. y. Cormela	Chainman
**************************************	V	Axman.
		.4xman.
en e	R. a. Coembo.	, Flagman.
· · · · · · · · · · · · · · · · · · ·		
ubscribed and sworn to before me this	5th. (
day of	alfred ?	2. Chim
OOOOOO O SEAL O OOOOOO	U.S. Deputy St	

No notary available without loss of time and great expense.

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR. BOOKAlfred N. Oliver , United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Frank S. Ingalls United States Surveyor General for Arizona. , bearing date of the 5th day of January, 1910, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Arizona, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the Second Standard Parallel North, through Ranges 1 and 2 East of the Gila and Salt River meridian, in the Territory of Arizona, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Arizona. and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey. Afrad M. Class
United States Deputy Surveyor. fred & Closs, and sworn to before me this 24th day of July , 1960 APPROVAL. OFFICE OF THE UNITED STATES SURVEYOR GENERAL, The foregoing field notes of the survey of __ //9/0, 190, having been under his contract No. ____/6_/____, dated ___ 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 surveys in......

has been correctly copied from the original notes on file in this office.

United States Surveyor General.