

Book A.

FIELD NOTES

of the

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	Sections 28 and 29,
	Township 5 South, Range 4 East,
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	·
	Of the Gila and Salt River Meridian,
T . 17	e State ofArizona
in tn	e state of
	EXECUTED BY
	Roger F. Wilson, Surveyor
	General Land Office
	N - 0
	er special instructions dated May 9, 1936, which provided
for t	the surveys included under Group No. 216 , bearing the approval of the
Com	missioner of the General Land Office under date of May 25, 1936
	assignment instructions dated New 9, 1936
ana	dssignment instructions adved
. 4	Survey commenced May 28, 19 36
	Survey completed Nay 29 , 19 36

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BOOK 4167

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Subdivision of sections in T. 5 S., R. 4 E.

chains

The $\frac{1}{4}$ sec. cor. of secs. 27 and 28, is an iron post, 1 in. diam., firmly set, marked and witnessed as described in the official record.

Alongside of this post,

Set an iron post, 3 ft. long, 1 in. diam., 29 ins. in the ground, for $\frac{1}{4}$ sec. cor. and cor. of the Maricapa Indian Reservation, with brass cap mkd.

Thence

N.89°33'W., on E. and W. center line of sec. 28, S. bdy. of Maricopa Indian Reservation.

Over level land, thru mesquite timber and sagebrush.

64.18 Intersect E. bdy. of Tract 53.

Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground, for clos. cor. on E. and W. center line of sec. 28, and cor. of the Maricopa Indian Reservation, with brass cap mkd.

dig a circular

trench, 6 ft. diam., and pile the dirt around post, to top.

From this point cor. No. 4 of Tract 53 bears S.0°09'E., 12.61 chs. dist., an iron post, 1 in. diam., firmly set, marked and witnessed as described in the official record.

From the same point cor. No. 1 of Tract 53 bears N.0°09'W., 27.44 chs. dist., an iron post, 1 in. diam., firmly set, marked and witnessed as described in the official record.

From the $\frac{1}{4}$ sec. cor. of secs. 29 and 30, which is an iron post, 1 in. diam., firmly set, marked and witnessed as described in the official record.

East, on E. and W. center line of sec. 29, S. bdy. of Maricopa Indian Reservation.

Over level land, thru mesquite timber and sagebrush.

13.50 Intersect W. bdy. of Tract 53.

Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for clos. cor. on E. and W. center line of sec. 29 and cor. of the Maricopa Indian Reservation, with brass cap mkd.

$$c = \frac{\text{MIR}}{\text{CC}} c = \frac{\text{TR}}{53}$$

dig a circular

trench,6 ft. diam., and pile dirt around post to top.

'Subdivision of Sections in T. 5 S., R. 4 E.

chains

The surveys in this township were executed with a lightmountain solar transit made by Buff & Buff Manufacturing
Co., Serial No. 10125, equipped with the improved Smith
solar attachment, and constructed in accordance with the
standard specifications of the General Land Office. The
instrument was in good condition, and having been placed
in satisfactory adjustment prior to beginning the survey,
and tested and found free from appreciable error, was
approved by the district cadastral engineer on May 9, 1936.
I examined all the instrumental adjustments before making
the field tests hereinafter recorded.

The directions of the lines were determined by solar transit method. The measurements were made with a Lallie steel tape, 5 chs. in length, graduated every link for the first 100 lks., and thereafter at intervals of 10 lks. The tape was tested by comparison with a Lufkin standard and found correct. The measurements were made on the slope and the vertical angle of each interval was ascertained by a clinometer in good adjustment; the horizontal equivalents are entered in the field note record.

The data furnished with the special instructions gives the geographic position for the SW. cor. of T.5 S., R.4 E., as follows: latitude 32°56'17"N., and longitude 111°59'50"W.

May 26, 1936, in camp at the SE. cor. of sec. 32, T.4 S., R.2 E., G. & S.R. Meridian, my watch having been checked by radio time signals and found correct, I make an hour angle observation on Polaris west of the meridian, making four readings, two each with the telescope in direct and reversed positions, deflecting the angle from a sharp peak about 8 miles distant, in the direction N-E to Polaris.

Mean watch time of observation, p.m. Watch fast of l.m.t.

Mean deflection angle from peak to Polaris

Reduced bearing of peak

Mean vertical angle to Polaris

Reduced latitude

7h 53m 45s. 28m 15s. 40°47.5' N-E.

40°47.5' N-E. N.41°23.1' W. 32°08'30" 33°01'45"N.

May 26, 1936

May 27, 1936: at the above station, every 30 min. from 7 to 10.30 a.m. and from 1.30 to 5 p.m., I make proper settings on the arcs of the solar attachment and ascertain that the resulting orientation of the instrument, when compared with the meridian established by Polaris observation, has a maximum error of less than 1'30".

I repeat the tests of the arcs daily by noon observation, and verify the meridional indications at frequent intervals thruout the survey.

May 27, 1936.

Practically all of this township not included within the Maricopa Indian Reservation was resurveyed by J.F. Hesse, Surveyor, in 1916, in view of which it is not necessary to resurvey any of the lines of the original Ingalls survey of 1868.

The following notes describe the establishment of a corner on the west boundary of Tract 40, and the east boundary of Tract 53, to mark the latitudinal center line of sec. 28; a corner on the west boundary of Tract 53, at a point due east of the ½ sec. cor. bet. secs. 29 and 30, and one due west thereof on the east boundary of Tract 42.

1.

Subdivision of Sections in T. 5 S., R. 4 E.

chains

From this point cor. No. 2 of Tract 53 bears N.0°01'E., 28.49 chs. dist., an iron post, 1 in. diam., set and marked as described in the official record.

From the same point, cor. No. 3 of Tract 53 bears \$60°01'W., 11.50 chs. dist., an iron post, 1 in. diam., set an marked as described in the official record.

From the $\frac{1}{4}$ sec. cor. of secs. 29 and 30.

West, on E. and W. center line of sec. 30, S. bdy. of Maricopa Indian Reservation.

Over level land, thru mesquite timber and sagebrush.

6.47 Intersect the E. bdy. of Tract 42.

Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for clos. cor. of E. and W. center line of sec. 30 and cor. of the Maricopa Indian Reservation, with brass cap mkd.

dig a circular

trench, 6 ft. diam., and pile the dirt around post to top.

From this point, cor. No. 2 of Tract 41, on E. bdy. of Tract 42, bears S.0°08'W., 11.15 chs. dist., an iron post 1 in. diam., firmly set and marked as described in the official record.

From the same point, cor. No. 1 of Tract 42 bears N.0°08'E., 27.46 chs. dist., an iron post, 1 in. diam., firmly set and marked as described in the official record.

FINAL TEST OF SOLAR ATTACHMENT

May 30: At my station at the SE. cor. of sec. 32, T.4 S., R.3 E., at 8h Om a.m., app.t., I set off 33°02'N., on the lat. arc; 21°49'N., on the decl. arc; and orient the instrument with the solar; the line of sight agrees with the meridian established by Polaris observation.

At 4h 0m p.m., app.t., with latitude are unchanged, I set off 21°52'N., on the decl. are; and repeat the test of the solar; the line of sight agrees with the meridian established by Polaris observation.

May 30, 1936.

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BOOK 4167

4-680 (Revised May 1934)

FIELD ASSISTANTS

NAMES	CAPACITY
H.A. Weedon	Principal Assistant
Walter Wright	Chainman
Albert A. Blevins	Flagman
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6-8412

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CERTIFICATE OF UNITED STATES SURVEYOR

I, Roger F. Wilson	ı, Surveyor	Genera	l Land	Office , HEREBY	CERTIFY upon	honor that, in			
pursuance of special instruction									
received from the district cada	stral engineer for	·	Ariz	ona	, T	vith assignment			
instructions dated May 9,	1936 ,	I have sur	veyed೭	portion	of the E	ast and			
West center lines of	Sections 2	28 and	29, To	wnship 5	South, R	ange 4 East			
	·			••		·			
Gila and of theSalt River	- Meridian, in th								
represented in the foregoing fie	ld notes as having	g been exe	ecuted by	me and unde	r my direction	; and that said			
survey has been made in strict	conformity with	said inst	ructions, t	he Manual c	of Instructions	for the Survey			
of the Public Lands of the Uni	ted States, and in	n the spec	ific manne	11					
Glendale, California	1			J. Borge	p. Milse	Vilson			
February 1, 1939				Sarvey	or,				
				General	Land Off	ice			
	CERTIFIC	CATE OF	F APPRO	VAL					
	Office of U.S. Supervisor of Surveys,								
		Den	ver, Co	olorado,	February	25 <u>, 19</u> 39 •			
The foregoing field notes of	f the survey of	a por	tion of	the Eas	st and les	at center.			
lines of Sections 2	8 and 29, T	ownshi	p 5 3ou	th, Rans	ge 4 Bast	of the			
Gila and Salt River	Meridian,	in the	<u> 3tate</u>	of Arizo	ma,				
executed by									
under special instructions date	ı Mav 9	1936	ිච	neral La	nd Office	,			
instructions dated May									
the necessary corrections made		tification	by the eng	nneer, the sa	nd field notes,	and the survey			
therein described, are hereby a	pproved.		M	Van Par	P				
			<i>-</i>	MANTILISA.	YVMOL U.S. Supervis	or of Surveys.			
	CERTIFIC	ATE OF	TRANSC	RIPT					
- I century that the foregoing	ng transcript of the	he field n e	tes of the	above-descri	ibed surveys in	T			
	., is a true copy c	of the orig	inal-field-n	otes on file i	n the public s	ırvey office.			
·									
					U.S. Supervio	or of Surveys.			