4358

UNITED STATES DEPARTMENT OF THE INTERIOR -GENERAL LAND OFFICE

Bureau of Land Management

FIELD NOTES

BOOK 4358

of the SURVEY _____of_a Portion of the Subdivision -----of T. 6 S., R. 28 E. Of the Gila and Salt River Meridian, In the State of _____ARIZONA EXECUTED BY Ty White, Cadastral Engineer. Under special instructions dated March 11 , 1947, which provided for the surveys included under Group No. 253...., bearing the approval of the and assignment instructions dated ______ March 14 _____, 19 47 Survey commenced April 7 , 1947 Survey completed April 14 , 1947

BOOK 4358

4358

Townsh	hip _6 Sout	h .	., Range	28 East.	
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7	3 8	9	10	11	12
18	17	16	15	14	18
19	20	21	22	23	24
30	29	28	27	26	25
81	32	38	34	85	36
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EOOK 4358

The subdivisional survey of T. 6 S., R. 28 E. was executed with a Buff light mountain solar transit No. 16724, constructed in accordance with the standard specifications of the Bureau of Land Management. The instrument was in good condition, and having been placed in satisfactory adjustment prior to the beginning of the survey, was tested and found free from appreciable error.

The directions of the subdivisional lines were determined by solar transit method. The measurements were made with a narrow steel tape, 5 chs. in length, graduated every link for the first 100 lks., and the balance at intervals of 10 lks. The tape was tested by comparison with a l chain standard steel tape 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 only are entered in this field note record.

The data furnished with the special instructions give the geographic position of the SE. cor. of the Tp. as latitude 32° 51.6' N., and longitude 109° 25.7' W.

April 5, 1947, at a transit point on the west side of Eighth Ave., and about 5 chs. north of Thatcher Ave., in

April 5, 1947, at a transit point on the west side of Eighth Ave., and about 5 chs. north of Thatcher Ave., in the town of Safford, Arizona, in approximate latitude 32° 49' N., and longitude 109° 42' 04" W. as determined from the State map, elevation approximately 3,000 ft., at 6h 12.2m p. m. l.m.t., I make an hour angle observation of Polaris west of the meridian for azimuth and latitude, making four observations, two each with the telescope in direct and reversed positions, observing simultaneously the vertical angle to Polaris and the horizontal angle from the east edge of a telephone pole approximately 20 chs. northeasterly, N-W to Polaris. My watch reads correct Mountain Standard Time as checked by radio time signals.

Mean watch time of observation Watch fast of l.m.t. Mean horizontal deflection angle	6h 31m 00.0s 0h 18m 48.0s 7° 19' 37.0"
Azimuth of Polaris	1° 09' 24.0"
True bearing of east edge of pole	N. 6° 10' 00.0" E.
Mean observed vertical angle	33° 00' 26.5"
Reduced latitude	32° 49' 21.7" N.

April 6, 1947, at half-hour intervals from 8:00 a.m. to 4:00 p.m., I make orientation tests of Buff solar transit No. 16724, including a latitude test by noon observation. The tests give a maximum error in orientation of less than 1' 30".

The observed magnetic declination is 14° E.

Beginning the subdivisional survey at the cor. of secs. 5, 6, 7, and 8, which is monumented with a malpais stone, 16x12x6 ins., firmly set, mkd. 5 grooves on S., 5 grooves on E., T 6 S on NE., and R 28 E on SE. faces and witnessed by a scattered mound of stone W. of cor.

At the corner point.

Set an iron post, 3 ft. long, 2 ins. diam., 18 ins. in the ground to bedrock, and in a mound of stone to top, with brass cap mkd.

BOOK 4358

SUBDIVISION of T. 6 S., R. 28 E.

Chains	Bury the original corner stone alongside the iron post. Rebuild the mound of stone, 3 ft. base, 2½ ft. high, W. of cor.
	N. 0° 03' W., on the W. bdy. of sec. 5.
	Over mountainous land, through scattering undergrowth.
15.75	Ravine, course S30° W.; asc. 56 ft. over a S. slope.
21.70	Road, on top of a ridge, bears NW. and SE.; desc. 175 ft. over a NE. slope.
34.90	Ravine, course N. 30° E.; thence along an E. slope.
40.00	Point for the $\frac{1}{4}$ sec. cor. of sec. 5.
	Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, with brass cap mkd.
, ,	1947
,	raise a mound of stone, 3 ft. base, 2 ft. high, E. of cor.
	Continue along an E. slope.
42.50	Spur, slopes N. 60° E.; desc. 165 ft. over a N. slope.
50.35	Gulch, course S. 70° E.; asc. 145 ft. over a S. slope.
- 57 - 30	Spur, slopes S. 70° E.; desc. 270 ft. over a NE. slope.
65.75	Begin steep descent into Bonito Creek Canyon.
73:40	Point for the witness closing corner of secs. 5 and 6.
, ,	Set an iron post, 3 ft. long, 2 ins. diam., 28 ins. in the ground, with brass cap mkd.
, ,	WC T5SR28E
	S31 `
	s 6 s 5 T 6 s R 28 E
·	
ing	from which
	A hackberry, 8 ins. diam., bears N. 85½° E., 8 lks. dist., mkd. W C T 6 S R 28 E S 5 C C B T.
,	A mesquite, 16 ins. diam., bears S. 77½° W., 14 lks. dist., mkd. W C T 6 S R 28 E S 6 C C B T.
76.80	Bonito Creek, a small stream of running water, course S. 20° E.; asc. 60 ft. over a SW. slope.
79-44	Intersect the First Standard Parallel South.
	True point for the closing cor. of secs. 5 and 6 falls on the steep wall of Bonito Creek Canyon.
·	From point of intersection the standard cor. of secs. 31 and 32, T. 5 S., R. 28 E., bears N. 89° 51' E., 39.24 chs. dist., and is monumented with a malpais stone in

	Chains		
	Onarns	place, 30x16x15 ins. above ground, mkd. and witnessed as described in the official record.	
		From the same point the witness standard \(\frac{1}{4} \) sec. cor. of sec. 31, T. 5 S., R. 28 E., bears S. 89° 51' W., 3.31 chs. dist. This cor. determined from the original bearing tree:	
	• * * * * * * * * * * * * * * * * * * *	A mesquite, 20 ins. in diam., bears N. 12½° W., 91 lks. dist., mkd. 31 B T, blaze partially overgrown, other markings not uncovered.	7
		At the corner point	
		Set a malpais stone, 16x14x8 ins., 12 ins. in the ground, mkd. W C S C 4 on N. face, from which	
*4100		A new bearing tree	
	* :	A mesquite, 6 ins. diam., bears N. $72\frac{1}{2}$ ° E., 38 lks. dist., mkd. W C $\frac{1}{4}$ S 31 S C B T.	
	•	Land, mountainous. Soil, rocky and gravelly. Timber, mesquite and hackberry along Bonito Creek; undergrowth, greasewood.	
	. ه		
		From the cor. of secs. 5, 6, 7, and 8.	
	٠ .	EAST, on the S. bdy. of sec. 5.	
	·	Over mountainous land, through scattering undergrowth.	
	,	Ascend 14 ft. over a SW. slope.	
	8.75	Road, on top of a ridge, bears N. and S.; desc. 136 ft. over an E. slope.	
	18.40	Ravine, course S.; asc. 103 ft. over a W. slope.	
	25.55	Spur, slopes SE.; desc. 152 ft. over an E. slope.	
	40.00	Point for the \(\frac{1}{2}\) sec. cor. of sec. 5.	
	,	Set an iron post, 3 ft. long, 1 in. diam., 14 ins. in the ground to bedrock, and in a mound of stone to top, with brass cap mkd.	
		1947	
		Bury a malpais stone, mkd. X alongside the iron post.	
	*	Descend 362 ft. over a NE. slope into Bonito Creek Canyon.	
	53.00	Center of Bonito Creek, stream of clear running water, course S.; asc. 128 ft. over a W. slope.	
	59•25	Spur, slopes S.; desc. 51 ft. over a SE. slope.	
	61.40	Gulch, course S. 45° W:; asc. 106 ft. over a NW. slope.	
	74.30	Spur, slopes S.; desc. 25 ft. over a SE. slope.	
	79-25	Ravine, course S. 45° W.; asc. 25 ft. over a NW. slope.	
	80.00	Point for the cor. of sec. 5.	

	Chains	Set an iron post, 3 ft. long, 2 ins. diam., 18 ins. in the ground to bedrock, and in a mound of stone to top, with brass cap mkd.
	• • • • • • • • • • • • • • • • • • • •	T 6 S R 28 E
	i i	1947
	(°	Bury a malpais stone, mkd. X alongside the iron post.
		Land, mountainous. Soil, rocky and gravelly. Timber, mesquite and sycamore along Bonito Creek; undergrowth, greasewood.
•		N. 0° 02' W., on the E. bdy. of sec. 5.
	• *	Over mountainous land, through scattering undergrowth.
		Descend over a NW. slope.
,	1.90	Ravine, course S. 45° W.; asc. 160 ft. over a SE. slope.
	14.00	Spur, slopes S. 60° W.; desc. 98 ft. over a NW. slope.
	21.95	Ravine, course S. 45° W.; asc. 107 ft. over a SE. slope.
	32.00	Spur, slopes S. 70° W.; desc. 28 ft. over a N. slope.
	40.00	Point for the \(\pm \) sec. cor. of sec. 5.
	•	Set an iron post, 3 ft. long, 1 in. diam., 18 ins. in the ground to bedrock, and in a mound of stone to top, with brass cap mkd.
	•	
		± S 5
		1947
		Bury a malpais stone mkd. X alongside the iron post.
		Descend 155 ft. over a N. slope.
	44.80	Gulch, course W. for 2 chs. to a junction with a wash, course S. 70° W. from N.; asc. 75 ft. over a SW. slope.
	50.50	Point of a spur, slopes S. 70° W.; desc. 36 ft. over a NW. slope.
	51.65	Gulch, course S. 70° W. for 1 ch. to a junction with a wash, course S.; asc. 252 ft. over a S. slope.
	67.00	Spur, slopes S. 70° W.; asc. 23 ft. along a W. slope.
	79•54	Intersect the First Standard Parallel South.
		Point for the closing cor. of secs. 4 and 5.
	•	Set an iron post, 3 ft. long, 2 ins. diam., 18 ins. in the ground to bedrock, aid in a mound of stone to top, with brass cap mkd. T 5 S R 28 E S32
		T 6 SIR 28 E

5

Bury a malpais stone mkd. X alongside the iron post.

From point of intersection the standard cor. of secs. 32 and 33, T. 5 S., R. 28 E., bears S. 89° 57' E., 38.31 chs. dist., and is monumented with a malpais stone, 14x8x8 ins. above ground, firmly set, mkd. 2 grooves on W., 4 grooves on E. and S C on N. faces, and witnessed by a scattered mound of stone N. of cor.

Rebuild the mound of stone, 4 ft. base, 4 ft. high, N. of cor.

From the same point the standard cor. of secs. 31 and 32 T. 5 S., R. 28 E., bears N. 89° 57' W., 40.80 chs. dist.

Land, mountainous.
Soil, rocky and gravelly.
Timber, none; undergrowth, greasewood.

The point for the $\frac{1}{4}$ sec. cor. on the N. bdy. of sec. 5 is at the midpoint.

At the corner point

Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, with brass cap mkd.

⁴ S 5 1947

raise a mound of stone, 3 ft. base, $2\frac{1}{2}$ ft. high, S. of cor.

From this corner the standard cor. of secs. 31 and 32, T. 5 S., R. 28 E., bears N. 89° 57' W., 78 lks. dist.

TEST OF SOLAR ORIENTATION

April 12, 1947, at a station in Safford, Arizona, at 9h 00m a.m. app. t., I set off 32° 49' 30" N., on the lat. arc; 8° 33' N., on the dec'l. arc; and orient the instrument with the solar; the line of sight agrees with the meridian established by Polaris observation.

At 3h 00m p.m. app. t., I set off 32° 49' 30" N. on the lat. arc; 8° 38' N. on the dec'l. arc; and repeat the test of the solar; the line of sight agrees with the meridian established by Polaris observation.

GENERAL DESCRIPTION

The land in section 5 is mountainous with a general elevation of approximately 4500 ft. above sea level. The soil is rocky and gravelly and is used for stock grazing. The general drainage in the northeast portion of the section is southwest and in the southwest portion it is northeast, this being toward Bonito Creek which enters the section at the northwest corner and courses through the section near the center, leaving it 13 chains east of the \$\frac{1}{4}\$ sec. cor. on the south boundary. Part of the water supply for the town of Safford, Arizona is furnished by this creek; the collection gallery of the water system, which is buried beneath the canyon bed, is located near

BOOK 4358

the center of the section, and the pipe line follows the bottom of the canyon southeasterly.

Mesquite, sycamore and hackberry trees grow along the creek and quite a thick growth of greasewood undergrowth is found over the entire section.

No mineral indications were observed during the progress of the survey.

14.1

4-680 (Revised May 1934)

UNITED STATES DEPARTMENT OF THE INTERIOR GENERAL LAND OFFICE

FIELD ASSISTANTS

NAMES	CAPACITY		
Edward L. Johnson	Chainman.		
Oscar W. Lanford	Flagman.		
James H. Stutte, Jr.			
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,			
	6-8412		

CERTIFICATE OF SURVEYOR

I,Ty. White, Cadastral Engineer	r, hereby certify upon	honor that, in
pursuance of special instructions bearing date of the13	Lth day of March	,1947
received from the estimated astral engineer for	Arizona, v	vith assignment
instructions dated March 14, 1947, I have surv	eyed a Portion of the	subdivision
of T. 6 S., R. 28 E.		
		· · · · · · · · · · · · · · · · · · ·
		
Gila and Salt River of the / Meridian, in the State of .	Arizona	, which are
represented in the foregoing field notes as having been exec	cuted by me and under my direction	; and that said
survey has been made in strict conformity with said instru	actions, the Manual of Instructions	for the Survey
of the Public Lands of the United States, and in the specif		
Phoenix, Arizona,	Ty White	
January 15, 1948.	Cadastral Enginee	er.
CERTIFICATE OF	APPROVAL	
	u of Land Management, Washi	ngton, D.C.
(9)	# <i>ሃላዶ/ø#/ጓላታ/</i> ቀቃ/ላ <i>‡ላቁ/</i> ቀፆ/ <i>ኦኮጾታዩ</i> ታ፥, September 27 	
		, 19_40
The foregoing field notes of the survey ofa_Port	ion of the Subdivision	of
T. 6 S., R. 28 E.		
		
		
executed by Ty White, Cadastral Enginee	r	,
under special instructions dated March 11, 194	.7,	and assignment
instructions dated March 14, 1947	having been critically	examined, and
the necessary corrections made prior to their certification b	by the engineer, the said field notes,	and the survey
therein described, are hereby approved.	1 00 10 4	
	Zar J. Harrington	J
Chief;	Superms Superms Branch of Engineering and	b r of Nurveys. Construction
CERTIFICATE OF T	ssistant Chief, Division of	Engineering.
I CERTIFY that the foregoing transcript of the field not	tes of the above-described surveys is	n ,
, is a true copy of the origin	nal field notes on file in the public s	urvey office.
	-	or of Surveys.
Chier,	Branch of Engineering and	construction