commend 16/00

1-679. Accepted by Theyrow any Stog 100 M A. Will 12 1900 (1)

FIELD NOTES BOOK 2106

2106	OF THE SURVEY OF THE	2106
Fractional?	North and East a	Boundaries
	Rg. 15 6.	·
		·
		<u></u>
	2106	
	**************************************	<u>:</u>
	· .	
of the Gil	a and Galt River	Meridian,
•		
·	Myono	
	AS SURVEYED BY	•
John	Wesse, United 8	tates Deputy Surveyor,
// / /	June 4-1909 isaged in co	4 1909
Under his Contract No. Z	, aurea Joseph	
Survey commenced	June 19	
survey completed	June 23	, 1909

2106

NAMES AND DUTIES OF ASSISTANTS.

True F

	the state of the s
6 V. Sepner	Chainnan
Frank & Thornas	Chainnan
L. B. Jordon	axman •
Ross Stoken	axuan
W. J. Bellows	Plagman
······································	
	•
6—151	

BOOK 2106

INDEX DIAGRAM.

Towns	ship 5°C	<u>)</u> .	, Range	15 E	
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	38	34	35	36

Meanders Page

6-151

14 4 2106	PRELIMINARY O	ATHS OF ASSISTANTS
BOOK	-	
		and I. E. Thomas
, -		ly execute the duties of chainmen; that we will level the
		he tally pins, either by sticking or dropping the same; that
_		bjects, and the true lengths of all lines that we assist in
		I in accordance with instructions given us, in the survey of
the fract no	th and east bou	danies of Mr. 55 R. 15 C. Chainman.
		Le S. Hipsel , Chainman.
		Company of the contract of the
		The state of the s
Subscribed and swo	orn to before me this	(
dayof	211e, 1909.	
	*****	Jeo Jeoll
my	SEAL A A A A A A A A A A A A A A A A A A	Molay Triblic
edures ap	as 20th 1911. 8	
WE,		and
-		perform the duties of moundmen in the establishment
of corners, accordi	ng to the instructions given	us, to the best of our skill and ability, in the survey of
,		
		, Moundman.
		, Moundman.
Subscribed and swe	orn to before me this)
day of	, 19)
. 65		
	SEAL W	
α		D St
	B. Jordan	and Rose Stoker
		erform the duties of axmen in the establishment of corners
and other duties, a	ccording to instructions given	n us, to the best of our skill and ability, in the survey of
the fract is	orth and east bo	undaries of Mr. 5 S. Q. 15 C.
•		I Dordon Axman.
e e		De Steller
		Yusz Stoker, Axman.
Subscribed and sw	orn to before me this 194	生
α ()	ne, 1909	
		(ded Scalo
	SEAL A	expires april 20 % 1911 do solemnly swear that I will well and truly
	O W M	Spies april 20 \$ 1911
I,		
perform the duties	of flagman according to instr	ructions given me, to the best of my skill and ability, in the
survey of the fu	act north and ear	et boundaries of Pp. 5 & 9.15 E.
u		W. J. Fellows , Flagman.
÷	. ~ .	
Subscribed and sw	orn to before me this	
day of	ne , 19 09	1 6 -0 6
		(dea de coto
	SEAL R	motor Tarbles
6-151	unission expires	
1/1/		

Chains.

Survey commenced June 19, 1909 and executed with a Young and Sons light mountain transit, No. 7532, with solar The horizontal limb is provided with two attachment. 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 survey-

or general for Arizona

I examine the adjustments of the transit and find them rrect; then, to test the solar apparatus, by comparing correct; 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 a stone set firmly in the ground and marked with a cross on top about 20 chains north of Winkleman; latitude 32° 59' N. longitude approximately lll° 16 ' W.; I set off 32° 59' N. on the lat. arc; 23° 27' N. on the dacl. arc; and at 4h. com. p. m. l. m. t., determine with the solar a meridian and mark a point theref, on a stone set firmly in the ground, 5chs. N. of my station. June 19, 1909.

June 20: At lh. 39m. a. m. by my watch, which has correct l. 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 7 a. m., 1. m. t., I lay off the azimuth of Polaris 1°24' to the West, and mark the meridian thus determined by cutting a small groove in the stone set Auge 19, on which the meridian falls 0.3 ins. east of the mark deter-

mined by the solar.

At 8h. 00m. a. m., 1. m. t., I set off 32° 59' N. on the lat. arc; 23° 27' 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 falls 0.3 ins. east of the meridian established by the Polaris observation.

The solar apparatus, by p.m. and a.m. observations, defines positions for meridians, respectively about 0' 16 east and west of the meridian established by the Polaris observations; therefore, I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian, at 8h. 30m. a.m., is N. 14° 00' W.; the angle thus determined gives

the mag. decl. 14° 00' E.

The cor. of secs. 7, 12, 13 and 18 on the east boundary of the Tp. is a post marked and witnessed as described by the Surveyor General, but as the post is badly rotted I destroy this old cor. and reestablish it in the same place as follows; set a limestone 24 x 6 x 6 ins. 18 ins. in t the ground for cor. of secs. 7, 12, 13 and 18, marked with 4 notches on S. and 3 notches on N. edges; and raise a mound of stone 2 ft. base 12 ft. high, W. of cor. Pits impracticable.

from this cor. I run North bet. secs. 7 and 12.

Descending rough rocky point through mesquite brush.

O.40 Over bed of Gila River dry but subject to overflow.

3.20 Gila River course West, 80 lks.wide, clear running water, rough South slope over 6 ins., deep. Asc. steep 付 loose rocks and boulders.

4.50 Phoenix and Eastern Railroad grade, bears East and West.

22.00 Top of extremely high hill, desc.steep rocky rough NE.

slope. 40.00 Set a limestone, 20X8X8ins., 15ins., in the ground, for \$ sec. cor.marked $\frac{1}{4}$ on W.face; and raise a mound of stone, 2ft.base,1,1/2 ft.high, W.of cor. Pits impraticable.

74 6 BOOK 2106

East Boundary of Township 5 South Range 15 East.

80.00 Set a limestone, 16X10X8ins., llins.in the ground, for cor. of secs.1,6,7, and 12, marked with 1 notche on the Nr., and 5 motches on the s. edge; and raise a mound of raise a mound of stone, 2ft. base, 1,1/2 ft.high, w.of cor. Pits impraticable. Land, rough, rugged and mountainous. Soil, stony and rocky; 4th rate. No timber. Underbrush, greasewood, and cactiand mesquite. Land covered with dense brush, mountainous, exceptionally difficult to survey, 80.00 chs. North bet.secs. 1 and 6. Descending over steep rough slope, covered with loose rocks, and through dense underbrush. Wash, course SE., 40 lks.wide, Asc. steep rough slope. 2.00 7.00 Drain, source SE. 22.50 Top of Ridge, bear's E. and W.; Desc. steep rough slope. wash, 25 lks. wide, course E. Asc steep rough slope. 30.00 Top of ridge, bears E. and W., Desc. steep rough slope. 36.00 set a limestone, 16X14X6ins., llins.in the ground, for 40.00 sec.cor., marked 2 on W.face; and raise a mound of stone, 2ft.base, 1,1/2 ft.high, W.af cor. Pits impratica Wash, 50 lks.wide, course E. Asc steep rough slope.
Top of steep bluff.bears K.and W., Desc. steep rough slope 41.75. 49,35 54.85 Drain.course E. Asc. steep rough slope' Top of Rim of box canyon, bears SE. 59.60 Wash, 40 lks., course SE. Ase: steep wall of box canyon. Top of N. Rim of box canyon course SE. Top of S. Rim of same box canyon. Desc into canyon. 63.00 67.75 70.00 Along Wash in canyon. 72.00 Leave wash and asc, steep wall of canyon. 74.50 Top of N. Rim of box canyon, course SW. Asc steep rough slope. 76.00 slope. Wash, 30 lks.wide, course SE. Asc steep rough slope. 78.00 Set a malpias stone, 18x8x8ins., 12ins.in the ground, for 80.00 Tps. 5 and 4 S., Rs., 15 and 16 E., marked, 4 S on NR. 16 E., on SE., 5 S, on SW., and 15 E, on NW. face; with 6 notches on each edge, and raise a mound of stone, 2ft, base, 1, 1/2 ft. high, s. of cor Pits impraticable. Land, rough, rugged and mountainous. Soil, stony and rocky: 4th rate. Underbrush, mesquite, greasewood and cacti. Land, covered with dense underbrush, mountainous, and exceptionally difficult to survey, 80.00 chs. June 20 1909

11111



Frac. North Boundary of Township 5 South Range 15 East.

June 22: At 7.a.m., l.m.t., I set off 35°01, 1/2'on the Lat.arc; 25°28, ... N.on the decl.arc; and determine a true meridian with the solar at the cor of Tps 4 and 5 S., Rs., 15 and 16 E., Thence I run West on a random line, along the N.bdy.of Tp.5 S.,R.15 E. setting temp 1 sec. and sec. cors.at intervals of 40.00 chs.; and, at 161.07 I fall 150 lksc.S.of the old cor.of secs.2,3,34, and 35, marked and witnessed as described by Surveyor General. The falling answers to a correction of 3°03!, counting from the NE cor.of the Tp.: I reset cor. as follows Set a limestone 16x12x10ins 51lins.in the ground, for cor of secs. 2,3,34, and 35, marked with 2 notches on the E. and & notches on the W.edges; and raise a mound of stones, 2ft. base, 1,1/2 ft. high, w.of cor. Pits imprate cabl At this cor. I set off 23°27 N.on the detlarc, and ebs observe the sun on the meridian at noon; the resulting lat.being 33°01,1/2'.N. Thence from this cor. I run S 89°57'E.on true line bet.secs 2 and 35. Asc.steep rough slope covered with Mense rocks, thro dense underbrush. 1.70 Top of ridge, bears N. and S., desc steep rough slope over loose rocks. Wash,24 lks.wide,course S. asc steep rough slope over 11.50 loose rocks, and boulders. Top of high bluff, bears N. and S., desc. steep rough slope 37.70 over loose rocks. 40020 Drain, course S., asc, steep rough slope over loose rocks. 41.07 Set a granite stone, 18x8x6ins., 12ins.in the ground, for 1 sec.cor., marked with 1 on N.face; and raise a mound of stones 2.ft.base, 1 1/2 ft.high N.of.cor.pits imprac. 43.20 Top of ridge, bears N. and S. desc. steep rough slope over loose rocks. 46.70 Drain, course S. asc, steep rough slope covered with loose rocks. Top of extremely high ridge, bears N. and S.; desc. steep 55.70 rough slope covered with dense rocks. 81,9% Set a granite stone, 18X8X8ins., 12ins. in the ground, for cor.of secs 35 and 36, marked with 5 notches on the W.and 1 notch on the E.edges. and raise a mound of stones,2ft.base,1,1/2 ft.high,N.of cor. Land, rough, rugged and mountainous. Soil, stony and rocky: 4th rate. No timber. Underbrush, mesquite, greasewood, and cacti. Land mountainous, covered with loose rocks and dense Under brush, exceptionally difficult to survey, \$1.07 mas June 23rd; at 7 a.m., 1.m.t., I set off 33°01, 1/2 on the lat.arc; 23°27, 1/2'N on the decl.arc and determine a true meridian with the solar at the cor. of secs. 35 and 36; thence I run S 89°57'E.bet.secs.1 and 36. Descending steep rough slope over loose rocks thro dense underbrush. 20.00 Wash, 45lks. wide, course S. Asc. steep rough slope covered with loose rocks. Top of high ridge, bears N. and S. Desc. steep rough slope 24.50 covered with dense rocks. 32.00 Drain course S. Asc. steep rough slope covered with dease rocks. 40.00 Set a granite stone, 2018X6ins., 15ins.in the ground, for \$\frac{1}{4}\$ sec.cor., marked \$\frac{1}{4}\$ on N.face; and rais(a mound of stones, 2ft.base, 1, 1/2 ft.hg.hN.of cor.Pits impracicable) Ridge, bears N. and S. desc. steep rough slope over loose 41.00 rorocks. Drain, course S. asc. steep rough slope covered with 49.00

North Boundary of Township 5 South Range 15 East.

-	chains	
	CHarms	
		loose rocks.
	63.00	Top of ridge, bears N. and S. desc. steep rough slope
		covered with loose rocks.
	77.50	wash, 25 lks. wide, course SE. Asc. steep rough slope covered
	11.00	with loose rocks.
	00.00	
	80.00	Intersect the cor. of Tps. 4 and 5 S., Rs., 15 and 16 E.,
		Hand I orbit, I appear and mountainers
		Soil, rocky and stony.
	1	No timber.
	1	Underbrush, mesquite, greasewood and cacti.
		Land, mountainous, covered with loose rocks and dense
		Land, incontrations, covered with a contration of the contrations of t
	1	underbrush, exceptionally difficult to survey, 80.00 ch
	1	
	1 . 1	
		Roundaries of fractional To. 5 S. Rg. 15 E.
	•	Boundaries of fractional Tp. 5 S. Rg. 15 E.

Boundaries of fractional Tp. 5 S. Rg. 15 E. Latitudes, departures and Closing errors.

L17	ve designated	True bearing.	Distance	Lati	tudes	Depo	ntures
East I	Bdy. T.55, R.15E	South_				i	
	+ Secs. 12813	N8948W	79,42	0.28			79.42
	Secs. 13814.	South ~ Segotsw West	80.00		80.00	7 1, 100	76.17
l	of Secs. 2, 11,814.	NOº23'W_	80.08	80.08			0.54
	·	NO°17W_ NO°33'W_			1	1	l .
		NO°06'E_	40.12	40.12		0.07	
North	i	NO°/8W S89°57E	1		1	161.00	•
	gency					0.08	
	Totals			240.36	240.49 240.36	161.23	160.87
			,			.35	
					39 .	, , , , , , , , , , , , , , , , , , , ,	

General Description.

This fractional township is very rough and mountainous excepting a stripmalong the north bank of the Gila River which is level. The Gila River runs along the southern part of the portion of this township surveyed under these instructions.

U. S. Deputy Surveyor.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS. LIST OF NAMES. A list of the names of the individuals employed by... marking the lines and corners described in the foregoing field notes of the survey of the final Mand 6. Coundaries of Db 5 & Rag showing the respective capacities in which they acted: C. S. Hepn, Moundman. FINAL OATH OF ASSISTANTS We hereby certify that we assisted John I Hesse, United States Deputy Surveyor, in surveying all those parts or portions of the frack worth and east boundaries Salt River meridian, Verretory of Rugona, which are represented in the foregoing 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 Chas SHipne, Chainman. Jos don Axman.

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR. United States Deputy Surveyor, do suf spicial Instructions issued fur f-1909 in connection with a United States Deputy Surveyor solemnly swear that, in pursuance of a contract received from Chank of Sugalls United States Surveyor General for Charge and the bearing date of the day of Surveyor Market 1909, 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 _______, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the fractional Worth Vall River meridian, in the Kerritory of Chrysna, 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 Uniona and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey. John H. Kesse United States Deputy Surveyor. and sworn to before me) APPROVAL. OFFICE OF THE UNITED STATES SURVEYOR GENERAL dated having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved

United States Surveyor General

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.