· 4-679 Book 1 1895

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BOOK 1895

FIELD NOTES

OF THE SURVEY OF THE

	Morth and	i Fast boundary	i of Tp. 7 S.	Rg. 17 E.	
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<u>`</u>	Jo	hn F. Hesse	\dots , $United$	States Deputy S	surveyor
	A STATE OF THE STA				
Under h	is Contract No.	135 , dated	June 16, 19	05.	, 190
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NAMES AND DUTIES OF ASSISTANTS.

	W. W. OII	/er	Chaluman.		
800K 180p					<u>-</u>
- 80	B. M. Hyde)	Chairman.		
	Frank Robe	rtson	Axman.	,	
1					
	H. S. Youn	ıg	Flagman.		
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INDEX DIAGRAM.

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81	32	88	84	85	86

Meanders Page.....

_1	1890	
7k	WE, W. W. Oliver	and B. M. Hyde
	chain upon even and uneven ground, and plum we will report the true distances to all notable	and in accordance with instructions given us, in the survey
	of the North and East bdys. of	
		745
		W. W. Oliver, Chainma
		B. M. Hyde , Chainma
	Subscribed and sworn to before me this1	5th.
	day of September, 190 5	
	********	John J. Kesse
	N SEAL (N)	U. S. Dep. Surveyor.
	Wr	andand
		ruly perform the duties of moundmen in the establishme
		en us, to the best of our skill and ability, in the survey
		, Moundma
		, Mowndma
	Subscribed and sworn to before me this	····················
	day of, 190	
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	SEAL 東東東東美	
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	W/ T. Frank Robertson	664
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3

Chains.

Survey commence September 15, 1905, and executed with a Young and Sons light mountain transit, No. 7532 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 cor. of Tps. 7 and 8 S. Rgs 17 and 18 E.;
latitude 32° 46' 09" N., longitude 110° 32' 13" W.,
I set off 32° 46' N. on the lat. arc; 3° 02'/N. on the dec'l. arc; and, at 3h. 00m. p.m. l.m.t., determine with the solar a meridian and mark a point thereof with the solar a meridian and mark a point thereof, on a stone firmly set in the ground, 5 chs. N. of the cor.

At 7h. 5% p.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. September 15, 1905.

September 16: At 6h.30m. a.m. 1.m.t., I lay off the azimuth of Polaris, 1° 26 / to the west, and mark the meridian thus determined, by cutting a small groove in the stone set September 15, on which the meridian falls on the mark determined by the selar.

At 7h. 00m. a.m., 1.m.t., I set off 32° 46' N. on the lat. arc; 2° 48'/N. on the dec'l. arc; and mark a point in the meridian determined with the selar 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 which coincide 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. 15h. a. m. is N. 12° 57' W.; the angle thus determined gives the mag. dec'l. 12° 57'E.

The cor. of Tps. 7 and 8 S. Rgs. 17 and 18 E. is a granite stone 14 x 12 x 8 ins. above ground, well set, and marked and witnessed as described by the surveyor

general Thence I run North bet. secs. 31 and 36. Ober rolling mountains.

25.50 40.00

cross wash 8 lks. wide course S. W. ascend Set a malpais stone 18 x 6 x 6 ins. in a mound of stone for \(\frac{1}{4} \) sec. cor. marked \(\frac{1}{2} \) on \(\text{W. face; and raise a mound of stone 2 ft. base 1 1/2 ft. high \(\text{W. of cor. Pits} \) impracticable.

46.00 72.50 80.00 Top ridge bears N. E. and S. W. and descend. Cross wash 30 lks. wide course W. ascend. Set a sandstone 20 x 10 x 5 ins. 15 ins. in the ground for cor. of secs. 25, 30, 31 and 36; marked with 1 notch on S. and 5 notches on N. edges; from which

A cedar 6 ins. diam bears N. 63 $3/4^{\circ}$ E. 157 lks. dist. marked T7SR18ES30BT.

A cedar 4 ins. diam. bears S. 26° E. 112 lks. dist. marked T7SR18ES31BT.

No other trees available.

Raise a mound of stone 2 ft. base 1 1/2 ft. high w. of cor. Pits impracticable. Land, mountainous.

Soil, stony; 4th. rate.

Ascending over rough mountains. Cross wash 10 lks. wide course S. W...
Cross same wash 10 lks. wide course S. E. accending
Top ridge bears E. and W. and descend. 7.00 14.50 31.00 Set a slate stone 18 x 6 x 5 ins. 12 ins. in the ground 40.00 for descorceremarked on W. face; and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. Pits impracticable. 44.25 Cross wash 15 lks. wide course W. 74.00 cross wash 81ks. wide course W.

80.00 Set a slate stone 18 x6 x 6 ins. 12 ins. in the ground for cor. of secs. 19, 24, 25 and 30 marked with 2 notches on S. and 4 notches on N. edges; and raise a mound of stone 2 ft. base 1 1/2 ft. high w. of cor. Pits impraeticable.

Land, mountainous.

soil, stony 4th. rate.

No timber.

Mountainous land 80.00 chains.

September 16; At this cor. I set off 2° 41 1/2' N. on the dec'l. arc; and observe the sun on the meridian at noon the resulting lat. is 32° 48' N.

North bet. secs. 19 and 24 Over rough rolling mountains.

Cross wash 8 lks. wide course N. W. Cross wash 5 lks. wide course W. ascurd 10.00 19.60

Top of spur bears W. and E. 20 chs. to summit oh mountain Set a slate stone 18 x 6 x 6 ins. in a mound of stone for. \(\frac{1}{2}\) sec. cv. marked \(\frac{1}{2}\) on W. face; and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cer. Pits 34.50 40.00

impracticable. cross wash 10 lks. wide course W. ascend

44.75 Top of ridge bears E. and W. and descend 57.25

cross wash 8 lks. wide course W. 65.55

cross wash 10 lks. wide course W. and ascend steep slope set a slate stone 18 x 6 x 5 ins. Evins. in the ground for cor. of secs. 13, 18, 19 and 24, marked with 3 netches on S. and N. edges; and raise a mound of stone 74.00 80.00 2 ft. base 1 1/2 ft. high w. of cor. Pits impracticable Land, mountainous.

Soil, rocky; 4th. rate.

No timber.

11.50

40.00

80.00

Mountainous land 80.00 chains.

North bet. secs. 13 and 18.
Ascending steep S. slope of mountain.
Top of ridge bears E. and W. and descend. set a slate stone 18 x 10 x 5 ins. 12 ins. in the ground for \(\frac{1}{4} \) sec. cor. marked \(\frac{1}{4} \) on W. face; from which A cedar 5 ins. diam. bears S. 25° E. 214 lks. dist. marked \(\frac{1}{4} \) S18BT.

No other tree available. Raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. Pits impracticable.

cross wash 20 lks. wide course W. 48.80

Set a sandstone $18 \times 10 \times 5$ ins. 12 ins. in the ground for cor. of secs. 7, 12 13 and 18 marked with4 notches on S. and 2 notches on N. edges; from which

A caclaw 4 ins. diam. bears N. 2° E. 34 lks. dist. marked T7SR18ES7BT.

A palquerde 5 ins. diam. bears N.34° W. 28 lks. dist marked T7SR17ES12BT.

No other trees available. Raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. Pits impracticable. Land, mountainous. soil, rocky; 4th. rate.

No timber.

3

Top ridge bears E. and W. and along W. slope descending. Set a sandstone 24 x 10 x 4 ins. in a mound of stone for \(\frac{1}{4} \) sec. cor. marked \(\frac{1}{4} \) on W. face; and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. Pits 40.00

impracticable. fore)
Set a quartzite 20 x 6 x 6 ins. 15 ins. in the ground for cor. of Tps. 6 and 7 S. Rgs. 17 and 18 E. marked 65 on N. E., 18 E. on S. E., 7 S. on S. W., and 17 E. on N. W. faces; with 6 notches on accept and raise a mound. of stone 2 ft. base 1 1/2 ft. high S. of cor. Pits impracticable..

nd Land, mountainous. soil, rocky; 4th. rate. No timber.

80.00

Mountainous land 80.00 chains.

· September 17, 1905.

BOOK 1895 North boundary of Tp. 7 S. Rg. 17 E. chains September 26: At 7h. 00m. a.m. l.m.t. I set off 32° 51 1/2' N. on the lat. arc; 1° 05'/S. on the dec'l. arc; and determine a true meridian with the solar at the cor. of Tps. 6 and 7 S. Rgs. 1 7 and 18 E. Thence I run West on a random line, along the N. bdy. of Tp. 7S.Rg. 17 E., setting temp. 1/2 sec. and sec. cors. at intervals of 40.00 chains; and, at 475.24 chs., intersect the W. bdy. of the Tp. 210 lks. N. of the cor. of Tps. 6 and 7 S. Rgs. 16 and 17 E. Which is a sandstone 16 \times 16 \times 14 ins. with 6 notches on each edge nearly obliterated and with bearing trees destroyed. I reestablish this cor. as follows; Seta sandstone 16 x 16 x 14 ins. 11 ins. in the ground for cor. of Tps. 6 and 7 S. Rgs. 16 and 17 E. marked 6S. on N. E., 17 E on S. E., 7 S on S. W., and 16 E. on N. W. faces; with 6 notches on each edge; and raise a mound of stone 2 ft. base 1 1/2 ft. high S. of cor. Pits impracticable. The falling answers to a correction of 15' S. per mile, counting from the N. E. cor. of the Tp. september 26, 1905.

or 35 lks.

September 27: At 7 h. 00m. a.m. l.m.t. I set off 32° 51 1/2' N. on the lat arc; 1° 28' S. on the dec'l. arc; and determine a meridian with the solar at the cor. of Tps. 6 and 7 S.Rgs. 16 and 17 E.

8

4

Thence I run N. 89° 45' E. bet. secs. 6 and 31

Over rolling mountains assending through dense pale verde and greasewood.

7.75 Cross wash 8 lks. wide course S. W.

15.20 Cross wash 20 lks. wide course S. 27.20 Cross wash 10 lks. wide course S.

35.24 Set a granite stone 18 x 14 x 5 ins. 12 ins. in the ground for \$\frac{1}{4}\$ sec. cor. marked \$\frac{1}{4}\$ on N. face; from which

A paloverde 5 ins. diam. bears N. 48° E. 76 lks.

dist. marked \$\frac{1}{4}\$\$ SlBT.

A paloverde 5 ins. diam. bears S. 1 1/2° W. 54 lks dist. marked 4 S6BT.

43.59 cross wash 10 lks. wide course S.

45.80 Cross wash 10 lks. wide course S. 51.25 Cross wash 40 lks. wide course S. 54.25 Cross wash 25 lks. wide course S.

56. 25 cross wash 20 lks. wide course S. W.

67.75 Cross wash 45 lks. wide sourse S.

74.80 cross wash 10 lks. wider course S. W.

75.24 Set a granite stone 18 x 12 x 4 ins. 12 ins. in the groun for cor. of secs. 5, 6, 31 and 32 marked with 5 notches on E. and 1 notch on W. faces; and raise a mound of stone 2 ft. base 1 1/2 ft. high w. of cor. Pits impracticable. Land, mountainous.

Soil rocky; 4th. rate.

No timber.

Undergrowth paloverde and greasewood.

Mountainous land and land covered with dense undergrowth 75.24 chs.

N.89° 45' E. bet. secs. 5 and 32. Over rolling mountains.

7.50 Cross wash 15 lks. wide course S. W. 21.50 Cross wash 20 lks. wide course S. 28.85 Cross wash 12 lks. wide course S. W.

58.50 Cross wash 12 lks. wide course S. W.
40.00 Set a sandstone 18 x 12 x 5 ins. 12 ins. in the ground
for \(\frac{1}{4} \) sec. cor. marked \(\frac{1}{4} \) on N. face; and raise a mound of
stone 2 ft. base 1 1/2 ft. high N. of cor. Pits impracticable.

52.55 Cross wash 8 lks. wide course S. W.

65.00 cross wash 8 lks. wide course S. W.

79.60 cross wash 5 lks. wide course S. W. 80.00 Set a sandstone 18 x 8 x 5 ins. 12 ins. in the ground for cor. of secs. 4, 5, 32 and 33 marked with 4 notches of

```
North boundary of Tp. 7 S. Rg. 17 E.
        on E. and 2 notches on W. edges; and raise a mound of
        stone 2 ft. base 1 1/2 ft. high w. of cor. Pits
        impracticable.
        Land mountainous.
        Soil, rocky; 4th. rate.
        No timber.
        Undergrowth, paloverde and greasewood. Mountainous land 80,00 chains.
        september 27: At this cor. I set off 1° 35' S. on the
        dec'l. arc; and observe the sun on the meridian at noen,
        the resulting lat. is 32° 51 1/2' N.
        N...89^{\circ} 45' E. bet. secs. 4 and 33.
        Over rolling mountains through paloverde and greasewood.
5.00
        Cross wash 5 lks. wide course S. E.
21.85
       cross wash 15 lks. wide course S. E.
33.80 Cross wash 10 lks. wide course S. E. 40.00 Set a conglomerate stone 28 x 8 x 6 ins. 21 ins. in
        the ground for \frac{1}{4} sec. cor. marked \frac{1}{4} on N. face; and raise a mound of stone 2 ft. base 1 1/2 ft. high N. of
        cor. Pits impracticable.
50.00 Cross wash 30 lks. wide course S. 65.00 Cross wash 15 lks. wide course S.
72.90 cross wash 15 lks. wide course S.
77.50 Cross wash 5 lks. wide course S. W. accomb
80.00 Set a granite stone 18 x 12 x 6 ins. 12 ins. in the
```

2 ft. base 1 1/2 ft. high w. of cor. Pits impracticable. Land, mountainous. soil, stony, 4th. rate. No timber. Mountainous land 80.00 chs.

ground for cor. of secs. 3, 4, 33 and 34, marked with 3 notches on E. and W. edges; and raise a mound of stone

N. 89° 45° E. bet. secs. 3 and 34. Over rough top of mountain.

7.50 Descend steep E. slope.

14.50 Over bottom land through dense brush.

15.60 Cross fence bears N. E. and S. W.

16.50 Cross branch of Arivaipa Creek 30 lkm wide course S. W. 17.75 Cross road bears N. E. and S. W.

18.50 Cross Arivaipa Creek 30 lks. wide course S. W. and ascend.

40.00 Set a granite stone 18 x 10 x 4 ins. 12 ins. in the ground for 4'sec. cor. marked 4 on N. face; and raise a mound of stone 2 rt. base 1 1/2 ft. high N. of cor. Pits impracticable.

48.50 cross drain 8 lks. wide course N. W. + continue ascenh 80.00 Point for cor. falls on a granite rock in place 24 x 12 x 5 inst above ground. I mark a cross (x) for exact point for cor. of secs. 2, 3, 34 and 35 with 2 grooves E. and 4 grooves W. of cross; and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. Pits impracticable. Land mountainous.

soil, rocky; 4th. rate.

No timber.

Mountainous land and land covered with dense undergrowth 80.00 hains.

September 27, 1905.

September 28: At 7h. 00m. a.m. 1.m.t. I set off 32° 51 1/2' N. on the lat. arc; 1° 51 1/2' S./on the dec'1. arc; and determine a meridian with the solar at the cor. of secs. 2, 3, 34 and 35. Thence I run N.. 89° 45' E. bet. secs. 2 and 35. The line from here runs up steep inaccessible w. slope of mountain therefore I offset as follows:

South 1200 chs.; thence N. 89° 45' E. 18 .00 chains.; thence South 18. 00 chs.; thence N. 89° 45' E. 22.00 chs.; it is impossible to ح ک

described.

Land mountainous.

Soil, rocky; 4th. rate. No timber.

Mountainous land 80.00 chains.

September 28, 1905.

Boundaries of TISRITE. Latitudes, Departures and closing errors.

line designated	True	Diatomas	Latitu	des	Depart	tures
ine designated.	bearing	Distance	N.	v.	<u></u>	W.
East bdg. TISRITE	North	480.00	480.00		-	•
forth bdy. TTSRITE	589045W.	475.24		2.10		475.24
Yest body. TTSRITE	50°38'E	39.71		39.71	.44	•
	SOOOT'E	39.96	•	39.96	.08	
	S 00 09'E	39.90		39.90	.10	
	5 0°36'E			40.15	.42	
*	50º12'E			32.82	.14	
	S 0º16'E		. 1	39.70		7
	South	79.938		79.95		
	50°17'E	40.57		40.57	.20	
	50°42'E	40.74		40.74	50	
	5.0°32'E	1 - 1	•	39.48		
	50°07'E		•	39.50		•
0 44 44 T400 A F			.06		39.26	
South bdy. T.75.R17 E	SOPUSE	40 08	.06	.06	40.08	
	N89°42'E		.21		39.75	
	East				40.11	
	509°59'E	39.85			39.95	•
	589°30'E				39.09	
	589°44' E	- F		•	39.85	
	SARVO'E				39.75	1
	N88°28 E		1.05		39.28	
•	N89º47'E		.15		39.20	
	589048 E		,,,	14	38.95	
	1899/8 E		.48		38.89	
Convergency.	/10/ /6 /	50.70	, , 6			4
	. 1		110105	1100 1180	476,68	11.
otals.		., Υ	781.73	482.4	7/0.0T	770 ./
<i>5,</i>	En	rorin la		.49	93	Error I

7 BOOK 1895 W. S. Deputy Surveyor.

North bdy. of Tp. 7 S. Rg. 17 E.

This township is rough and mountainous. The north western part of the township is watered by Arivaipa Creek and the soil in creek bottom is quite fertile. There is no timber in the township.

Chains.

LIST OF NAMES.

BOOK 189	5
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,		
, United Sta	ates Deputy Surveyor, to assist i	n running, measuring, and
marking the lines and corners described in the	foregoing field notes of the surv	ey of the North
nd East boundaries of Tp. 7 S.	Rg. 17 E.	
showing the respective capacities in which they	acted:	
	w. w. Oliver	, Chainman.
	Thonk Bahantaan	
	Frank Robertson	
·	H. S. Young	, Flagman.
FINAL OAT	H OF ASSISTANTS.	
We hereby certify that we assisted	Iohn F. Hesse	·
, s	, United States Deputy	Surveyor, in surveying a
hose parts or portions of the North Rd Ea	art haundomics of ma	7 e De 10 D
and Salt River meridian, Territion in the foregoing field notes as having been surver has been in all respects, to the best of our kn	veyed by him and under his direct	ction; and that said surve
corner monuments established, according to the		•
General for Arizona		
	•	
	is willing	WEN Chainman
•	W. W. Oli	vev , Chainman.
	W.W.Oli B.M. H	rev , Chainman.
•	W.W.Oli B.M. H	Chainman. Chainman. Moundman
	•	, Moundman
	•	, Moundman
	Frank Probe	Moundman Moundman Axman. Axman.
	Frank Probe	Moundman Moundman Axman. Axman.
	Frank Probe	Moundman Moundman Axman. Axman.
	Frank Probe	Moundman Moundman Axman. Axman.
Subscribed and sworn to before me this 28th	Frank Probe	, Moundman , Moundman , Axman. , Axman. , Flagman.
	Frank Probe	Moundman Moundman Axman. Axman.
Subscribed and sworn to before me this 28th	Frank Probe	Moundman Moundman Axman. Axman. Flagman.
Subscribed and sworn to before me this28th day ofseptember, 1905.	Frank Probe	Moundman Moundman Axman. Axman. Flagman.
ubscribed and sworn to before me this28th day ofSeptember	Frank Probe	Moundman Moundman Axman. Axman. Flagman.

16th. day of June	, 190 5, I have well, faithfully, and truly, in my own
proper person, and in strict conformity v	with the instructions furnished by the United States Surveyor
General for Arizona	, the Manual of Surveying Instructions, and the laws of the
	portions of the North and East boundaries
	Cile and
	of the Gila and
	rritory of Arizona, which are represented in the
	eyed by me, and under my direction; and I do further solemnly
	have been established and perpetuated in strict accordance with
	I 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	of such survey.
	Jahn F. Hesse
10	United States Deputy Surveyor.
Subscribed by said sohn Start this 24 a day of Nove	esse, and sworn to before me
Subscribed by said Jordan	, and sworn to before me
this Life a day of Move	
	W.S. Surveyor General
000000	n n n n n
STALC	1. D. Hurveyor Genera
	APPROVAL.
OFFICE OF THE U	NITED STATES SURVEYOR GENERAL,
	Thoung Urin on a Sept 27 1906
	the mark of the
The foregoing field notes of the surv	Phoening Asizona Sept 27,1906 ey of the Morth and East boun- E of the Gila and Salt River in Darizona
daries of J. /2, (1.1)	6. of the Till and Dalt River
(Base and/my wide	n Mirinana
	·
7.1 7 1/2	. 11/ 1 1 7
executed by 10 mm	10 Dalpuly survey or
under his contract No, dated	MD deputy survey or 1900, having been
critically examined, and the necessary &	rrections and explanations made, the said field notes, and the
surveys they describe, are hereby approve	d.
	Manst & Juzally.
	United States Surveyor General.
I certify that the foregoing transcri	u pt of the field notes of the above described surveys in
	correctly copied from the original notes on file in this office.
	reorrectly copied from the originar quies on the in this office.
	- Marine
	- United States Surveyor General.
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