66

-1837-BOOK 1837 Mar. 21/05; FIELD NOTES

OF THE SURVEY OF THE

	Somiles of the E boundary TRSP.	'6 <i>E</i>
	E and N homeday TIOS PITE	
1837	Jour miles of the & houndary, and to	LE OJRIHE
	Of the South Row Meridian, AS SURVEYED BY	
	Under his Contract No. 117, dated June 13 Survey commenced	(9•3) , 189 (9•3)
	Survey completed. 6-151	., 189

NAMES AND DUTIES OF ASSISTANTS.

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6—151					

BOOK 1837

INDEX DIAGRAM.

Town	nship 10	South	, Range	17 Fact	- 9- 1
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Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS. 1831 BOOK and.....and do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of ·----. Chainman. Subscribed and sworn to before me this _____) day of, 189 WE,and do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of -----, Moundman. Subscribed and sworn to before me this _____) We,and do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of Subscribed and sworn to before me this day of, 189 I,, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of _____ Flagman. Subscribed and sworn to before me this _____) day of, 189

SEAL &

BOOK 1837
INDEX DIAGRAM.

Town	ship/	0	05	, Range	14E		•
		1	16	16+17	14	17	
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Meanders Page.....

1831. (3) NARY OATHS OF ASSISTANTS. ._.and._. do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of cereary for Subscribed and sworn to before me this,1891904) do solemnly swear that we will well and truly perform the drives of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of the E and N farmday 17/05 RIYE; the South I miles of the E toursay 793 RIS these exterior and subdivisional lines necessary for emuection and closing in 7/05? - Brac - Muntio Subscribed and sworn to before me this _____), 180190H) racy S. Dur do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of the Earth of the E transland of 7705 817E; The anth of the E transland of 7705 818 Subscribed and sworn to before me this), do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of and the exterior and subliminant lines well the Ething To survey in T105 RIHE of the lile South Rine Bank Mills of the Franciscopy for entirely in T105 RIHE of the lile of th draing in T108 RIHE of the Sila North Subscribed and sworn to before me this ______

Re-survey of the E. bdy. of T. 9 S., R. 16 E.

Survey commenced Oct. 7th, 1904, and executed with a Young & Sons Light Mountain Transit, No.7520, with a solar attachment; the horizontal limb having two double verniers placed opposite each and reading to single minutes of arc. The instrument was examined, tested on the true meridian at Phoenix, Arizona, found correct and approved by the Surveyor General for Arizona, June 25th, 1904.

I begin at the cor. of Tps. 9 and 10 S. Rs. 16 and 17 E. recently established by me in lat. 32 37.8 N. long. 110 39 W.

I examine the bubble, collimention, and standard adjustments of the Transit, and find them to be correct.

In order to test the solar appratus by comparing the results of observations made on the sun during a.m. and p.m. hours with a true meridian determined by observation on polaris, I proceed as follows:

Oct. 7th, 1904; At 4 h. o m. p.m., l.m.t., I set off 32 38'N. on the lat. arc 5 35-1/2'S. on the decl.arc, and mark the meridian thus established by a tack driven in a stake set firmly in the ground about 6 chs. N. of my station, l ch. N. of cor. of Tps. 9 and 10 S., Rs. 16 and 17 E.

At 6 h. 24 m. p.m. l.m.t., I observe polaris at eastern elongation in accordance with instructions given in the Manual, and mark the line thus established by a tack driven in a stake set firmly in the ground about 6 chs.N. of my instrument.

October 7th, 1904.

October 8th,1904; At 6 h. 30 m. a.m.l.m.t., I lay off the azimuth of polaris 1 25.7 %. to the west of stake set last night and mark the meridian thus established by a tack driven in a stake set the evening before; the meridian falls .32 ins. west of the mark determined by the solar ob-

servation.

At W h. 15 m. a.m. l.m.t., I set off 32-38' N. on the lat.

arc, 5-49' S. on the decl. arc and mark the meridian
thus est ablished by a tack driven in stake already set;
this mark falls .26 ins. W. of the meridian determined

by observation on polaris.
The difference in direction of the meridian as established by solar and polaris observation is less than the probable error of observation; therefore I conclude that the adjustments are satisfactory.

The magnetic bearing of true north is 12-45' W. at this

N. on a true line bet. secs. 31-36. Wash 40 lks. wide course E. Ascend.

Wash 40 lks. wide course E. Ascend.
Top of ridge bears N.E. Descend.
Wash, 10 lks. wide, course N.E. Ascend.
Top of ridge bears N.E. Descend.
Wash 30 lks. wide bears N.E.
Wash 20 lks. wide bears N.E.
Old 1/4 cor., decayed stake lying loose on the ground, bears W. 60 lks. dist. I re-establish as followsSet a quartz stone 8 x 10 x 20 ins. 15 ins in the ground for I/4 cor.bet. secs. 31-36, marked 1/4 on W. face; dig pits 18 x 18 x 12 ins. N. and S. of stone 3 ft. dist. and raise a mound of earth 3 ft. base, 2 ft. high W. of cor. cor.

The true course of this half mile is N. 0-52' W. 40.05 chs. Wash 30 lks. wide course N.E. Ascend. Top of ridge, bears N.E. Descend. Cross well traveled road, bears N.E. Ascend. Top of ridge, bears N.E. Descend.

Wash, 40 lks. wide course E.N.E. Old sec.cor. (decayed stake) bears W. 1.32 chs.dist. re-astablish as follows:

7.25 13.50 15.90 21.50 29.20 37.50 40.04

50.60 56.00

64.45 **68.**50 71.90 79.98

Set a quarts stone 12 x 12 x 20 ins. 15 ins. in the ground for cor. 60 secs. 25-30-31-36 marked with 5 notches on N and 1 notch on S: edges; dig pits 18 x 18 x 12 ins. in each sec. 5-1/2 ft. dist., and raise a mound of earth 4 ft. base, 2ft. highW. of cor.

The true course of this half mile is N. 1°-21W 39.95 chs. Land mountainous; soil sandy and rocky, 3rd and 4ht rates; timber, mesquite Mountainous land 80.00 chs. N. bet. secs. 25-30.
Wash 15 lks. wide, course N.E. Ascend
Top of ridge bears N.E. Descend
wash 1 ch. wide bears N.E.
Trail bears N.N.E. 9.50 12.00 15.20 18.70 Wash 15 lks. wide, course E.N.E. Old 1/4 cor. (decayed stake) bears W. 40 lks. dist. I reestablish as follows: 32.00 40.22 Set a sandstone 8 x 8 x 14 ims 10 ins in the ground for 1/4 cor bet. secs. 25-30, marked 1/4 on W:face; dig pits 18 x 18 x 12 ins. W. and S. of stone 3 ft.dist; raise a mound of earth, 3 ft. base, 2 ft. high W. of cor. The true course of this line is N. 0°-34' W., 40.22 chs. Wash 15 lks. wide, course N.E. Old cor. (decayed stake) bears W. 142 lks. dist. I re-establish as follows: 59.20 80.19 Set asandstone 8 x 12 x 20 ins. 15ins in the ground for cor of secs. 19-24-25 30, marked with 4 notches on N. and 2 notches on S. edges; dig pits 18 x 18 x 12 ins in each sec. 5-1/2 ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high W. of cor.

The true course of this half mile is N. 1-28 W. 39.98 chs. Land mountainousl soil, rocky and sandy, 3rd and 4th rates; timber, mesquite.
Mountainous land 78.00 chs N. bet. secs. 19-24.

No traces of 1/4 cor. can be found

Granite stone 10 x 12 x 16 ins. 6 ins. above ground, with

markings nearly obliterated and scattered mound of

stones alongside, bears W. 146 lks. dist. I re-estab
lish as follows:

Set. a franite stone 10 x 12 x 16 inc. 11 inc. in the 40.00 80.08 Set a granite stone 10 x 12 x 16 ins. Il ins. in the ground for cor. of secs. 13-18-19-24, marked with 3 notches on the N.and S. edges; raise a mound of stones 3ft base, 3ft high with of cor. Pits impracticable.

Thence I run S. 193' E. bet. secs. 19-24, a scending.

Top of ridge, bears N.E. Descend.

Wash. 30 lks wide course .N.E. Ascend 1.00 6.13 13.00 25.30 30 50 40:04-1 Wash, 30 lks wide, course .N.E. Ascend. To p of ridge. Descend. Cross old road bears N.E. Cross old road bears N.E.

Wash, 50 lks. wide, course N.N.E.

2 Point for 1/4 cor. bet. secs. 19-24 falls in wash. Second N.E.

Set a sanstaone 8 x 12 x 16 ins. 11 ins. in the ground of W.C.

for 1/4 cor. bet. secs. 19-24, marked 1/4 W.C. on W.face, and raise a mound of stones 2 ft. base, 1-1/2 ft high W.

of cor. Pits impracticable

Wash 30 lks. wide, course N.E.

Cross trail, bears E. Thence through low bushy valley.

The cor. of secs. 19-24-25-30.

Land mountainous; soil rocky, 4th rate; undergrowth of mesquite; no timber. Mountainous land 80.69 chs.

October 8th, 1904; I setoff 5 55-1/2' S. on the decl.arc and at 12 h. 1.m.t. observe the sun on the meridian at the cor. fo secs. 19-24-25-30; the resulting lat. is 32 39-1/2' N. 41.00 64.00 64.70 80.09

6,5

Re-survey T 10 S., R. 17 E. BOOK 72 East Bdy. Survey commenced Sept. 30th,1904, and executed with a Young & Sons Light Mountain Transit, No.7520; the horizontal limb having two double verniers placed opposite each other and reading to single minutes of arc, this is also the least reading of the decl. and lat. arcs.

At the cor. of T.10 S., Rs.17-18 E. re-established by me July 18th,1904, in lat. 32° 32-1/2' N., long.110° 33' W., set off 32° 32-1/2' N. on the lat. arc, 2° 53' S. on the decl. arc, and at 3 h.20 m.a.m.l.m.t., determined by the solar a true meridian and mark a point thereof by a tack driven in a stake, firmly set in the ground about 3 chs.N. of my station.

At 6h.51.4 m. p.m., I observe polaris at eastern elongation At 6h.51.4 m. p.m., I observe polaris at eastern elongation in accordance with instructions given in the Manual and mark the line thus determined on a stake driven in the ground E.of the stake set this afternoon.

Septmber 30th, 1904. Oct.lst,1904; At 7 h.10 m.a.m.l.m.t., I lay off the azimu of polaris 1,26 to the W.and mark the meridian thus determined by cutting a notch in the stake set yesterday on which the true meridian falls .18 ins.E.of the meri I lay off the azimuth dian established by the solar observation.

At 8 h.10 m.a.m., I set off 32° 32-1/2' N.on the lat.arc,

3° 9' S.on the decl.arc, and mark a point in the meridian determined with the solar by a tack driven in the stake already set about three chs. N.of my station; this mark falls .24 ins. E.of the true meridian established by polaris observation. The solar apparatus by a.m. and p.m. observations defines the positions for meridians respectively about 20 °E. and 16 W.of the meridian established by polaris observation; therefore I conclude that the adjustments of the solar are satisfactory.

Var. 13 15 E.

From this point I run, N. bet.secs.31-36 over sharply rolling broken land covered with dense cacti, pale verde and mesquite undergrowth. and mesquite undergrowth.

Edge of abrupt descent into canyon. Middle of canyon, bears E.by N. Spur slopes S.E. Tributary canyon, bears E.S.E.

Top of ridge bearing E. a mound getting.

Remains of old cor. bear west 15 lks. dist. I re-establish same as follows: Set a quartz stone 6 x 14 x 18 ins. 12 ins. in the ground for I/4 cor. bet. secs. 31-36, marked 1/4 on W.face, raise a mound of stones, 2 ft. base, 2ft. high W.of cor. Pits impracticable. The true course of this line is N. 0° 13' W. 39.62 chs.

N.from 1/4 cor. N.from 1/4 cor. Gulch bears E. Ridge bears E. Tributary canyon bears E. Top of mesa. Remains of cor.bear W. 9 lks. dist. I re-establish it as follows; Set a granite stone 10 x 10 x 22 ins., 16 ins in the ground for cor. of secs.25-30-31-36, marked with 5 notches on N. and one notch on S. edges; Faise a mound of stones, 2ft.base, 2ft.high W. of cor. Pits impracticable. The true course of this line is, N. 0°8' W. 39.69 chs. Land, sharply rolling, broken by ridges and canyons; no grass; soil; 4th rate; undergrowth of cacti palo verde and mesquite. mesquite. N. bet.secs.25-30 through dense undergrowth of cacti and Descend into canyon.

1.40 5.00 11.00 14.00 39.69

14.00 27.00 32.00 39.00

39.62

Dense undergrowth 79.31 chs.; mountainous land 53/62 chs.

palo verde.

34.20 40.00 39.00 Falls in wash; since no where in this vicinity can I find any trace of any 1/4 cor. in order to ensure permanency I establish a W.F. to 1ks. E. ef the meridional line on which I am running by setting a granite stone 6 x 8 x 14 ins. 10 ins. in the ground for W.C. to 1/4 cor. bet. secs. 25-30, marked 1/4 on W.face, and W.S. on top; from which

		BOOK 1837	/ /V
	Chains		
		A mesquite, 9 ins. diam. bears S. 53° 15' W.71 lks.	
		dist.marked 1/4 S.25, B.T.W.C. A mesquite, 8 ins.diam. bears N. 69 15' E. 92 lks	•
		marked 1/4 S. 30 B.T.W.C.	
	40.00	Wash, 40 lks.wide, bears E.N.E. Ascend.	
	58.00	Top of left bank of canyon; ascend gradually hill sloping	-
	*,	S.E.	
	66.00	Descend into small deep canyon, course E.	
	69.00 7 3.3 0	Wash, course E. Ascend. Top of left bank of canyon. Ascend gradually over mesa.	
	79.60	Old cor. of secs. 19-24-25-30, bears E. 20 lks. dist.; this	
		consists of a granite stone 7 x 8 x 12 ins.above ground	•
		with marks nearly obliterated and byare traces of pits 1	n
	·	each section; I re-establish as follows:	_ &
		Set a granite stone 7 x 8 x 18 ins. 12 ins. in the ground for cor. of secs. 19-24-25-30 marked with 4 notches on	باره سعد
		the N and 2 notches on the S. edges dig nits 18 x 18	
		x 12 ins.in each sec. 5-1/2 ft.dist.and raise a mound	
•		of earth 4 ft base 2ft high W.of Cor. •	
		The course of this wax mile, is N. 0. 3.79.66 chs.	
	,	Land broken by canyons and covered with growth of cacti	
		andpalo verde; soil 4th rate. Dense undergrowth 79.60 chs.; mountainous land 31.10 chs.	4
		Note: The closing of this mile indicates the position	
	,	of 1/4 cor.as follows: w.C. 1/4 25-50, as set, refers	
•		to cor.situated 30 lks 5 M.	
		0.4.1. 1.4.1004. T	
		October 1st, 1904; I set off 3° 13-1/2 S.on the decl. are and at 12 h.6 m.l.m.t., observe the sun on the meridian	•
		at the cor. of secs. 19-24-25-30, the resulting lat. is	
		32° 34' N/ Thence I run	•
		W. bet.secs. 19-24 through undergrowth of greasewood, choice	las, etc.
	9.50	Magin roughly rolling ascent.	
	21.50	dge bears E & W. Descend.	
	33.00 39.85	Root of descent. Thence over rolling land sloping W. Remains of old cor. bear W. 19 lks.dist.; I re-establish	
	0 3.00	gor as follows: Set a granite stone 8 x 8 x 12 ins.	
٠		gor as follows: Set a granite stone 8 x 8 x 12 ins. 8ins.in the ground for 1/4 cor.bet.secs.19-24,marked 1/4 cor.bet.secs.19-24,marked 1/4 cip Wor; dig pits 18 x 18 x 12 ins. N.& S.of stone 3 ft. dist.and raise a mound of earth 3ft.base,2ft.high W.of The course of this line is, N.0° 66' W. 39.85 chs.	4
		on Wn; dig pits 18 x 18 x 12 ins. N.& S. of stone 3 It.	
	•	distand raise a mound of earth oit.base, cit.nigh w.oi	COP.
		M from 1/4 sec cor over roughly rolling land.	
	16.65	N. from 1/4 sec.cor.over roughly rolling land. 16.10. Ridge bears W.N.W. Descend over rolling ground sloping N.	
	30.45	Descend shountly	
	31.70	Foot of descent. Enter flat of wash.	
	36.00	Middle of wash 4 chs.wide, course E.N.E.	
*	40.00 40.40	Perpendicular bank, 30 ft.high. Granite stone 12 x 14 x 24 ins.18 ins.in the ground,	
		with no visible markshut scattered mound of stones	
-	1		,,,
		alongside, hears W. 37 lks.dist.; this cor.is described by the Surveyor General as a W.C. at 80.50 khs.; I re-establish as follows: Set a granite stone 12 x 14 x 24 ins. 18 ins.in the ground for cor.of secs.13-18-19-24, marked with 3 notches on N.& S.edges; raise a moun of stones 2-1/2 ft.base, 2-1/2 ft.high W.of cor. Pits	M.C.
		I re-establish as follows: Set a granite stone 12 x 1	CHONE.
		19-24 marked with 3 notches on N.& S.edgescraise a moun	ıd ¹
		of stones 2-1/2 ft.base.2-1/2 ft.high W.of cor. Pits	
		impracticable.	
	***	The true course of this line is N. 0° 32' W. 20.40 chs.	
	* 1	Land broken by canyons; soil 4th rate; undergrowen of	
		greasewood and chollas, etc. Mountainous land 55.60 chs.; dense undergrowth 79.75 chs.	
		from cor. pt.	
		N. bet. secs. 13-18, through dense undergrowth of cacti, pal	.0
		verde and greasewood.	
	18.20	Descend into small canyon.course E.	
-	21.50	Descend abruptly 20 ft. Wash, bears E.	
1	22.50 22.60	Ascend abruptly 30 ft.	
	23.50	Top of left bank of canyon.	
	30. 10	101d road bears W S.W.	. p
	40.03	Granite stone 11 x 13 x 14 ins.above ground with traces of	/L \it=
	ql 🗸	markings, bears E. 13 lks.dist. No traces of mound or I re-establish as follows:	/#UD,
	4, 1	Mark 1/4 on W. Face for 1/4 cor.bet.secs.13-18; rai se a	1
		mound of stones 2 ft.base, 2 ft.high W.of cor. Pits	
1		impracticable.	

Wash 10 1ks.wide bears N.E. Wash, bears E. A decayed mesquite post 4 ins.diam.loose in small mound of dirt bears W. 30 lks.dist. I re-establish as follows: Set a granite stone 12 x 12 x 26 ins.18 ins.in the ground for cor.of Ts.9-10 S.Rs. 17-18 E.markedwith 6 notches on for cor. of Ts.9-10 S.Rs. 17-18 E.markedwith 6 notches on N.E.S.& W. edges; from which

A palo verde 5 ins. diam bears S. 46° 30' E.70 lks. dist.marked T.10 S.R. 18 E. S.6 B.T.

A palo verde 6 ins. diam. bears S.32° W 32 lks. dist. marked T.10 S.R. 17 E. S. 1 B.T.

A palo verde, 8 ins. diam. bears N.10° W. 31 lks. dist. marked T.9 S.r.17 E. S. 36 B.T.

A palo verde, 4 ins. diam. bears N. 39° 30'E. 138 lks. dist.marked T.9 S.R.18 E.S.31 B.T.

The course of this half mile is N. 0°26' W.39.60 chs. Land rolling; soil 3rd and 4th rates; dense undergrowth of cacti, palo verde and mesquite. cacti palo verde and mesquite.
Densely wooded land 79.31 chs.; mountainous land 18.20 chs. Oct.2nd 1904; I set off 3° 37' S. on the decl.arc, and at 12 h. observe the sun on the meridian at the cor. of Ts 1.9-10 S. Rs.17-18 E.; the resulting lat. is 32° 38' N. Thence I run, W. en a true line set.secs. 1-36 over land roughly broken by canyon, through dense undergrowth of palo verde, cacti and mesquite.

Leave dense undergrowth. Descend 200 ft.into large canyon.

Jash, 2 chs.wide, bears N.E.

Jecend gypsum cliff.

Top of high spur bearing N.E. bet.the two canyons.

Jecend cliff 100 ft. thence down bank sloping N.W.

Jectom; over flat in canyon, covered with greasewood.

In order to assure permanency I establish W.C. as follows:

Jet a granite stone 6 x 9 x 22 ins.16 ins.in the ground for W.C. te 1/4 cor.bet.secs.1-36, marked 1/4 en N. and W.C. on top, and raise a mound of stones, 2-1/2ft.base, 2-1/2 ft. high N. of cor. Pits impracticable.

Falls on steep canyon bank, no traces of 1/4 cor.can be found.

Top of left bank of canyon.

Tributary wash, bears N.N.E/

Descend into large canyon Re-survey T. 10 S., R 17 E. N. bdy. Tributary wash, bears N.N.E/ Descend into large canyon. Wash, bears N.E. Top of left bank of canyon. Spur bears N.E.

Descend into small deep canyon.

Washbears E.N.E.

Top of left bank of canyon. Ascend.

A granite stone 8 x 10 x 14 ins.loose on scattered mound of stones bears S.126 lks.dist. This granite stone has linetch and 5 notches barely discernable on epposite edges; I re-establish cor.as follows:

Set said granite stone 8 x 10 x 14 ins. 9 ins.in the ground for cor.of secs.l-22-35-36, remarked with 5 notches on W. and 1 notch on E.edge; raise a mound of stones 3ft.base.

3 ft.high W. of cor. Pits m impracticable.

True course of this line S. 89° 6' W. 79.90 chs.

Note: W.C. 1/4 bet.secs.l-36 witnesses a cor. 45 lks.W.

and 63 lks.S.

Land hadly broken by canyons: soil 4th rate:undergrowth of Spur bears N.E. Land badly broken by canyons; soil 4th rate; undergrowth of greasewood and cacti. greasewood and cacti.

Dense undergrowth 56.40 Chs.; mountainous land 79.90 chs.

W.from cor.ef secs. 1-2-35-36 through dense undergrowth.

Wash, 15 lks.wide, bears N.N.E.

Ridge bears N.E.

Wash, 15 lks.wide, bears N.N.E.

Wash, 10 lks.wide, bears N.E.

Mound of earth with decayed post bears S. 3 lks.dist; I reestablish cor.as follows:

Set a quartz stone 6 x 11 x 16 ins.10 ins.in the ground for 1/4 cor.bet.secs.2-35, marked 1/4 on N. Facelfrom which 7.20 14.50 18.20 **3**1.05 39.80

12 Survey commenced Oct. 16th,1904, and executed with a Young & Sons Light Mountain Transit, No. 7520, the horizontal limb having two double verniers placed opposite each other, and reading to single minutes of arc, which is also the least reading of the lat. and decl. arc.

At the cor. of secs. 32-33, which is a pine post 4" x 4" x 4 ft. above ground, marked S.C. T. 10 S. R. 14 R. on N. S. 33 on R., and S. 32 on W. faces and firmly set in a mound of stone 2 ft.base 2ft.high, on the Second Standard Parallel South, lat. 32° 32-1/2'N., long.110° 55' October 16th, 1904; At 5 h. 40.5'm. a.m., l.m.t., I observe polaris at western elongation, in accordance with serve polaris at western elongation, in accordance with instructions given in the manual, and mark a point in the line this determined, on a stake driven in the ground about 5chs. N. of my station.

It 7 h.30 m.a.m. l.m.t., l lay off the azimuth of polaris 1° 26' to the E. and mark the meridian thus determined by a tack driven in a stake set 5 chs. N. of my station.

At 8 h. 40 m. a.m., l.m.t., I set off 32° 32-1/2' N. on the lat.arc, 8° 52' % on the decl.arc, and mark a point in the meridian determined by solar observation by a notch cut in the stake already set about 5 chs. N. of my station; this mark falls .4 ins. E. of the meridian established by polaris observation. tablished by polaris observation. The solar apparatus by a.m. observation determines a direction for the meridian which checks sufficiently close with the polaris observations, therefore I conclude that the adjustments of the solar are satisfactory. Thence I run, N. 0° 2' W. bet.secs.32-33.

Var. 13° 15' E. Spur bears E. Thence over gulches and ridges bearing E. Remains of 1/4 cor.bears E. 14 lks.dist.I re-establish as follows: Set a quartz stone 5 x 6 x 18 ins. 12 ins.in the ground for 1/4 cor.bet.secs.32-33, marked 1/4 on W.face; raise a mound of stones 2ft.base, 2ft.high W.of cor. Pits impracticable. The true course of this line is, N. 0° 10 'E. 40.09 chs. N. 0° 2' W. from 1/4 cor. bet.secs. 32-33. Ridge bears W.S.W. Wash, 20 lks.wide, bears S.W. Remains of sec.cor. bears 5.w.
Remains of sec.cor. bears E. 6 lks.dist. I re-establish
as follows: Set a quartz stone 6 x 6 x 15 ins. 10 ins.
in the ground for cor.of secs.28-29-32-33, marked with 4
notches onthe E.and one notch on the S.edges; raise a
mound of stones 2ft.base,2ft. high W.of cor. Pits impracticable
The true course of this line is, N. 0° 3' E. 40.27 chs.
Land, mountainous; soil 4th rate, some undergrowth of mesquite and cacti.
Mountainous land 80 36 chs Mountainous land 80.36 chs. From the cor.of secs. 28-29-32-33, I run N. 0°2' W. Let Secs 29+29 Ridge bears S.W. Gulch bears S.W. Ridge bears S.W Wash, 20 lks.wide, bears S.W. Remains of 1/4 cor.bear E. 5 lks.dist. I re-establish as follows: Set a quartz stone 5 x 13 x 15 ins. 10 ins.in the ground for I/4 cor.bet.secs. 28-29, marked 1/4 on W.face; raise a mound of stones, 2ft.base, 2ft.high W.of cor.

The true course of this line is N. 0° 2' E.

From the 1/4 cor.bet. secs. 28-29, I run N. 0° 2' W. Ridge bears S.W. Ridge bears S.W. Remains of sec cor.bear W. 143 lks.dist. I re-establish

5.00 13.00 17.00 26.00 40.08

8.00 40.09

8.00 31.90 40.27

15.00 21.30 28.50 39.17

as follows:

Set a granite stone 6 x 9 x 18ins. 12 ins.in the ground for cor.of secs. 20-21-28-29, marked with 4 notches on the E.and 2 notches on the S.edges.

A mesquite 10 ins.diam.bears S. 60° 30' W. 67 lks. dist.marked T. X., R. XIV, S. 1111 11.

Raise a mound stones 2 ft.base 2ft high W.of cor.

The true course of this line is N. 2° 7' W. 39.20 cha.

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Chains
                           Land sharply rolling; soil 4th rate, undergrowth of mesquite and cacti.
Mountainous land 79.25 chs.
                           From the cor.of secs.20-21-28-29 I run N. 0°2' W. Wash, 30 lks.wide, hears N.W.
  4.20
13.00
18.80
27.00
                           Ridge bears N.E.
                           Gulch bears S.W.
Ridge bears S.W.
Gulch bears S.W.
  35.00
  39.68
                           Remains of old cor. bears E. 104 lks. dist. I re-establish
                                 as follows:
                          Set a granite stone 7 x 7 x 15 ins. 10 ins.in the ground for 1/4 cor.bet. secs. 20-21, marked 1/4 on W.face; raise a mound of stones 2ft.base, 2ft high W.of cor. The true of this line is, N. 1° 28' E. 39.69 chs. From the 1/4 cor.bet.secs.20-21, I run N. 0° 2' W. Ridge bears W.S.W. Wash, 20 lks.wide, bears W.S.W. Ridge bears S.W.
    2.00
 15.30
32.00
35.35
                           Ridge bears S.W.
                           Gulch bears S.W.
                         Remains of sec.cor.bears W. 14 lks.dist. I re-set as fo Set a quartz stone 8 x 8 x 13 ins. 8 ins.in the ground for cor.of secs. 16-17-20-21, marked with 4 notches on the E.and 3 notches on the S.edges; raise a mound of stones 2ft.base, 2ft.high W.of cor.Pits impracticable. The true course of this line is N. 0° 14' W. 40.92 chs. Land sharply rolling; soil 4th rate; undergrowth of mesquite and cacti.
  40.92
                                                                                                                                                                 I re-set as follows:
                          Mountainous land 80.60 chs.
                          October 16th,1904; I set off 8° 55-1/2' S. on the decl. arc, and at 12 h. observe the sun on the meridian at the cor. of secs. 16-17-20-21; the resulting lat. is 32° 35' N.
                         the cor. of secs. 16-17-20-21; the resulting 32° 35' N.
N. 0° 2' W. bet. secs. 16-17 over rolling land.
Foot of descent.
Wash. 10 lks. wide, bears N.W.
Trail bears W. by S. Enter dense undergrowth
    9.00
 10.70
22.00
                         uite and catsclaw.

Wash, 35 lks.wide, bears W. by S.

Leave dense undergrowth.

Remains of 1/4 cor. bears E. 38 lks. dist. I re-set as follows:

Set a granite stone 6 x 9 x 12 ins. 8 ins.in the ground for 1/4 cor. bet.secs. 16-17, marked 1/4 on W. face; raise a mound of stones, 2ft.base, 2ft.high W. of cor. Pits impracticable.

True course of this line is M. Of 71 P. 70 42
                                                                                                 Enter dense undergrowth of mes-
 24.00
 31.00
 39.42
       M2-
                          True course of this line is N. 0° 31' E. 39.42 chs. N. 0° 2' W. from 1/4 sec. cor.
                          Enter dense prickly pear.
Ridge bears W. by S.
 10.00
15.00
25.40
39.60
                          Leave dense prickly pear.
                         Leave dense prickly pear.
Wash, 15 lks.wide, bears W.
Wash, 20 lks.wide, bears W. by S.
Remains of sec.cor.bears W. 39 lks.dist. I re-set as follows:
Set a quartz stone 8 x 12 x 12 ins. 8 ins.in the ground
for cor.of secs. 8±9-16-17, marked with 4 notches on
E & S.edges; raise a mound of stones 2ft.base, 2ft high
W. of cor. Pits impracticable.
The true course of this line is N. 0° 35' W. 40.75 chs.
Land, rolling; soli 3rd and 4th rate; undergrowth of mes-
quite, cacti and catsclaw.
Mountainous land 80.17 chs.; dense undergrowth 21.50 chs.
40.75
                         Mountainous land 80.17 chs.; dense undergrowth 21.50 chs.
                         E. from cor.of secs. 8-9-16-17.
Wash, 20 lks.wide, bears W. by S.
Enter dense undergrowth of catsclaw and mesquite.
Leave undergrowth.
11.00
15.00
20.00
                        Leave undergrowth.

First traces of 1/4 sec.cor. I re-establish as follows:

Set a granite stone 7 x 10 x 13 ins. 8 ins.in the ground

for 1/4 cor.bet.secs. 9-16 marked 1/4 on N.face; raise
a mound of stones 2ft.base, 2ft.high N.of cor.

The true course of this line is E. 40.05 chs.

From 1/4 sec. cor. Over sharply relling land.
40.05
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78.00 82.15

83.62

Wash, 20 lks.wide, hears S.W.

Remains of sec.cor., a granite with markings clearly distinguishable and a scattered mound of stones alongside bear W. 70. lks. dist. I re-establish as follows:
Set a granite stone 6 x 7 x 13 ins. 8 ins.in the ground for cor. of secs. 1-11-12, marked with 1 notches and he

	IV had a no	/581
	Chains	E. and 5 notches on the S.edges; raise a mound of stones 2ft.base, 2ft.high W. of cor. Pits impracticable. Land mountainous; spil 3rd and 4th rates; undergrowth of cacti and mesquite. The course of the Normal Solution of the Course
		October 17th, 1904; I set off 9° 15' S.on the decl.arc, 32° 37' N. on the lat.arc, and at 9 h.40 m.a.m. 1.m.t., determine a meridian with the solar at the cor.of secs. 1-2-11-12. Thence I run E. bet.secs. 1-12.
	9.50 21.00 26.50 31.00 40.00	Wash, 20 lks.wide, bears W.S.W. Spur bears S. Gulch bears S. Spur bears S. Decayed stake loose in mound of earth, bears N.14 lks.dist.
	W fa	I re-establish cor. as follows: Set a granite stone 6 x 7 x 14 ins.8 ins.in the ground market for 1/4 sec.cor.bet.secs.1-12; raise a mound of stones 2ft.base,2 ft.high N.of cor. Pits impracticable. The true course of this line is N. 89° 48' E. 40.00 chs. E. from 1/4 sec.cor
	2.50 19.00 26.00 29.50 37.20 40.18	Coplen wash, 20 lks.wide, bears W.S.W. Spur bears S.W. Gulch bears S.W. Spur bears S.W. Gulch bears S.W. Remains of cor., granite stone with scattered mound alongside,
		bears S. 11 lks.dist. I re-establish cor. as follows: Set a granite stone 12 x 18 x 30 ins. 23 ins.in the ground forcor.of secs. 1-12, marked with 1 notch on N. and 5 notches on S.edges; raise a mound of stones 2-1/2 ft.base, 2ft.high W. of cor. Pits impracticable.
•		The true course of this line is S. 89° 51 'E.40.18 chs. Land sharply rolling; soil 3rd and 4th rates; scattered undergrowth of mesquite and cacti, some grass. Mountainous land 80.18 chs.
	40.00 80.00	October 17th, 1904; I set off 9° 17-1/2' S.on the decl. arc, and at 12 h. observe the sun on the meridian at the cor. of secs. 1-2: the resulting lat. is 32° 37'N. In order to locate the N.E. cor. of T.10 S., R. 14 E., I run N.on a random line from the cor. of secs. 1-12. No traces of 1/4 cor. can be found; set temp. cor. No traces of Tp. cor. can be found; set temp.cor.
	240.00	From the N.E. cor.of T.10 S., R. 14 E., I run W. on a random line and finding no traces of cors.; set temp. cors. at intervals of 40.00 chs. Set temp. sec.cor.
	40.00	October 17th,1904. October 18th,1904. W. from temp. cor.of secs.3-4-33-34. No traces of 1/4 sec.cor., set temp. cor.
	80.55	In order to account for closing, and verify location of Tp. cor., I run S. on a random line bet. secs. 4-5. Diligent search reveals no traces of 1/4 sec. cor., set
	40.00 82.04	temp. cor. A granite stone with traces of markings, and a scattered mound of stones alongside, bears E. 3 lks.dist.
	41.00 81.87	S. on a random line from old cor of secs. 4-5-8-9. Remains of 1/4 sec.cor. bear W. 6 lks.dist. S. from 1/4 sec.cor. Cor.of secs. 8-9-16-17 recently re-established by me, bears W. 9 lks.dist.
W.		October 18th,1904; I set off 9° 39-1/2' S on the decl. arc, and at 12 h. l.m.t., observe the sun on the meridian at the cor. of secs. 8-9-16-17; the resulting lat. is
		32° 36' N.

9 am.

Set a granite stone 10 x 12 x 15 ins. 10 ins.in the ground for 1/4 cor.bet.secs. 3-34, marked 1/4 on N. face; raise a moundof stones, 2-1/2 ft.base, 2-1/2 ft.high N. of cor.

Chains Ascend gradually, along N. side of wash having a general westerly bearing. 68.90 80.14 Cross said wash. Set a granite stone 8 x 8 x 13 ins. 8ins.in the ground for cor.of secs. 2-3-34-35, marked with 2 notches on the E. and 4 notches on the W. edges; raise a mound of stones 2ft.base, 2ft.high W.of cor.

Land gently rolling; soil 3rd rate; very little undergrowth of cacti and mesquite. Good grazing.

October 18th,1904. October 19th,1904. E. on a true line bet.secs. 2-35. Road bears N.E. 11.28 32.00 32.90 35.00 Enter dense undergrowth of mesquite and catsclaw. Wash, 30 lks.wide, bears W.S.W. Leave dense undergrowth. Set a granite stone 8 x 13 x 16 ins. 10 ins.in the ground for 1/4 cor. bet. secs. 2-35, marked 1/4 on N. face; raise a mound of stones, 2ft.base, 2ft.high N. of cor. 40.0746.25 49.25 51.00 Enter an old sheep corral. Leave same.
Enter dense undergrowth of mesquite.
Wash, same as above, bears W. by N.
Same wash, bears W. by S. 56.30 67.25 69.00 Leave dense mesquite. Set a granite stone 7 x 7 x 15 ins.10 ins.in the ground for cor.of secs. 1-2-35-36, marked with 1 notch on E.and 5 notches on W. edges; raise a mound of stones 2ft.base, 2ft.high W. of cor. Pitsimpracticable.

Land rolling; soil 3rd rate; some mesquite undergrowth; good 80.14 grazing.
Dense undergrowth \$1.00 chs.; E. bet.secs. 1-36. Ascend gradually. Low ridge bears W.S.W. Over gently rolling land. 6.00 34.25 40.07 Trail bears S.E. Set a granite stone 8 x 8 x 14 ins. 10 ins.in the ground for 1/4 cor. bet.secs. 1-36, marked 1/4 on N. face; raise a mound of stones 2ft.base, 1-1/2 ft.high N. of cor. Ascend.
Top of stony point bearing N.& S. Descend.
Set a granite stone 7 x 9 x 16 ins.10 ins.in the ground for N.E. cor. of 1910 S. R. 14 E. marked with 6 notches on N.S.& W. edges; raise a mound of stones 3ft.high,3-1 base, 10 of cor.

The location of this Tp. cor. is determined by locations of cor.of secs. 1-12 on E. bdy.of Tp. and cor.of secs. 4-5-32-33 on N. bdy.of Tp., all intermediate cors. being set at proportionate distances.

Land rolling: soil 3rd and 4th rates; good grazing; scattered undergrowth of mesquite. 50.00 Ascend. 68.00 **68.00 68.00** scattered undergrowth of mesquite. Mountainous land 30.14 chs. October 19th,1904; At 9 h. 40 m., a.m., l.m.t., I set off 9° 59' S. on the decl.arc, 32° 38' N. on the lat.arc, and determine a meridian with the solar at the Web. cor. of T9*10 S., R. 14 E.

Thence I run, S. over sharply rolling land.
Enter dense mesquite undergrowth.

Wash. 20 lks. wide hears W 12.00 14.90 15.00 Wash, 20 lks.wide, bears W. Leave undergrowth of mesquite. Road to Oracle, bears E. 15.40 26.80 35.00 37.85 38.20 40.00 Rocky ridge bearing E.& W. Descend. Spur bears W. Trail bears E.

Small wash, bears W.

Set a grahite stone 7 x 7 x 15 ins.10 ins.in the ground for 1/4 cor.of sec.1, marked 1/4 on W.; raise a mound of stones 2-1/2ft.base, 2-1/2ft.high W.of cor.

Road bears E.N.E.

Trail bears E. by S.

Coplen wash, bears W.S.W.

The cor.of secs.1-12. Land sharply rolling; very little undergrowth of mesquite; soil 3rd rate. Mts.land 80.00 ch.

44.30 44.50 54.90

Boundaries of resu	rvey.	T.10	S.,	R. 14	LE.
Latitude, departures	and	closin	g e	rrors.	

				Latit	ude.	Depart	ires.:
Line d	esignated	True b'r'g	Dist.	N.	S.	E.	W.
Mile bet. W.1/2 of E.1/2 mil Mile bet. W.1/2 mil E.1/2 mil Mile E.of E. 4 mile Mile bet. N.1/2 mil	le bet. secs.9-16 e bet. secs.9-16 secs.10-15 mile bet.secs.11-14 secs.11-12 e bet.secs.11-12 e bet.secs.11-12 sec. 1	East. 14 East. 14 East. 100 30' W 100 30	40 .65 80 .20 40 .10 40 .00 83 .62 40 .00 40 .18 80 .00 320 .55 82 .04 41 .00 40 .87	83.62 0.14 80.00	0.0 0.11 82.04 41.00 40.87	40 .65 80 .20 40 .10 40 .00 40 .18 321 .21 .3	0.72. 0.06. 0.09. 0.10. 21.52.

Qt.19,1904.

BOOK 1837 LIST OF NAMES. A list of the names of the individuals employed by Milliamy (8), United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of L+N f-dy TIOSAITE; and the South I mules of 6. by 7959/65; and there exterior + Substimumas hues necessary for comme and change in 7105 RB45. by the Suita + Salf River Lave and Meridian, anyma. Trank C. Letin , Chainman. Luttlar , Flagman. FINAL OATH OF ASSISTANTS. We hereby certify that we assisted William, United States Deputy Surveyor, in surveying all those parts or portions of the Cast and north foundary of the south three miles of the cast boundary 95 P16 E; and three Exterior and Subdivisconal. or connection and closing in T105P14 E of the Dila wer Beer meridian, Centry of Angrea, 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 General for Anyma Frank C. Keltow, Chainman. WED, Chainman.

SURVEYOR AND HIS ASSISTANTS

FINAL OATHS OF DEPUTY

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.