Jan. 29 1

1852

BOOK (1852)

FIELD NOTES

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Rai	iflh Standard Para uye & West, of the E is Base and Mend	Tila and Salt
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	1852-	
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·		·
	of the Gila and Salt River B	ase and Meridian,
John	AS SURVEYED	BY, United States Deputy Surveyor,
Under hijs Co	ontract No. 194, dated	June 7 , 1905
Survey comn	nenced July 134	, 189
Survey comp	leted ling 3-2	, 789 .

BOOK 1852

INDEX DIAGRAM.

Tow	nship2	21 //.	, Range	6 W.	
6	5	4	8	2	1 1 Stammer 3
7	8	9	10	11	12
18	17	16	15	14	(13 / Lands)
19	20	21	22	28	24
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81	82	83	34	85	36
		St. Pan Ma	16 76 W	_2	

5# St. Pan. realts, 17.6 w.
Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS. George Cassidy 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 hundard Parallel With, himys R. 6 th Thomas, Chainman. Subscribed and sworn to before me this ... day of .. May # 19008 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 Standard Caralles Unth. Groups R 64, 189/905 🖅 commission expires May 19, 1908 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..... 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 andul Parullel North, Grongs R, 6 M. Subscribed and sworn to before me this _______ day of

T commission expire

6-151

Chains

Survey commonced July 13, 1905, and executed with W.& L.E.Gurley Light Mountain Transit, with a Smith solar Attachment made by Young & Sons; the horizontal limb having two double verniers placed opposite to each other and reading to single minutes of arc, which is also the least count of the verniers of the lat. and decl.arcs.

The instrument was examined and tested on the true meri-

dian at Phoenix, found correct and was approved by the Surveyor General for Arizona, July 1st. 1905.

I begin at the standard corner of Tps. 21 N.Rgs.
5 and 6 W. G.& S.R.B.and Meridian, which is a lava 5 and 6 W. G.& S.R.B. and Meridian, which is a lava stone 15x12x10 ins. above ground, firmly set, and marked and witnessed as described by the Surveyor General Longitude 112° 50' 55" W. Lakitule 35° 7"

At 12 h.l.m.t. I set off 21° 52' N. on the decl.arc and

observed the sun on the meridian, the resulting lat. is 35° 7' which is 17" in excess of the true lat.

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

At 5 h.p.m,l.m.t. I set off 35° 7° on the lattare and 21° 51! N.on the declare, and mark the meridian thus

determined by the solar, by a cross on a stone firmly set in the ground, 5:00 chs. N. of cor. July 13, 1903-At. 05 h. 64.0 m. 64.m.l.m.t., 110bserved Polaris at Eastern

elongation, in accordance with the instructions in the Manual and mark the line thus determined by a tack driven in a plug set in the ground 5.00 chs.N.of cor.

July 16, 1905.

July 14: At 8 h. 45 m.a.m.l.m.t. I lay off the azimuth of Polaris 1°28'W.and mark the ner.thus determined by cutting a small groove in the stone set last evening, on which the mer.falls 0.3 ins.W.of the mark determined by the solar.

At 9 h.a.m.1.m.t. I set off 35° 7' on the lat.arc and 21°44'N.on the decl.arc. and mark the mer. thus determined with the solar by a cross on the stone al-ready set 5.00 chs.N.or cor.; this mark falls 0.4 ins.W.of the mer.established by the Polaris observation.

The solar apparatus by p.m. and a.m. observations de-fines positions for meridians about 0'16"E. and 0'21"W.of the mer.established by Polaris observation; therefore I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the mer.at 9 h.a.m.is N.14°30'W. the angle thus determined gives the mag.decl.14°30'E.

From the standard cor. above described I run W.on S.bdy. Sec. 36.

Descend through scattering cedars. Cross canon, 20 1ks.wide, course S.

Ascend over rolling mountaineous country.

Pifference between measurements of 40.00 chs.by two set

of chainmen is 18 lks.; position of middle point

By 1st.set, 59.91 chs.

By 2nd.set, 40.09 chs., the mean of which is

Set a lava stone 18x15x6 ins. 14 ins.in ground for standard 1/4 Sec.cor.marked S.C.1/4 on N, face and raise a mound of stones 2 ft.base, 1-1/2 ft.high N. of con No trees, pits impracticable. Cross summit of ridge, course N. and S.

Descend through scattering cedars. er onstruct is 12 has, position of middle its of 80.00 cha.by

29.00

Fifth Standard Persaled North, through Range 6 West.

Chains	By 1st.set, 80.06 chs.
	By 2nd.set, 79.94 chs., the mean of which is
80.00	Set a lava stone 24x10x8 ins. 20 ins.in ground for standard cor.of Secs. 35 and 36, marked S.C. on N. with 1
	groove on E. and 5 grooves on W.faces, and raised a
	mound of stones 2 ft.base, 1-1/2 ft.high, N. of cor.
	Whence.
	A cedar 8 ins.diam.bears N.49-3/4°E. 116 lks.dist.
	marked T.21 N.R.6 W.S.36 B.T.
	A cedar 5 ins.diam.bears N.46-1/2° W. 119 lks.dist.
	marked T.21 N.R.6 W.S.35 B.T. Land mountaineous.
	Soil, stony, 3rd.and 4th.rates.
	Timber, scattering codar.
	Mountaineous land 80.00 chs.
	West on S.bdy.Sec.35.
	Over stony ground, through dense cedars.
3.00	East edge canon.
	Cross canon, 50 lks.wide, course N.W.
15.00	West wall of canon, about 150 ft.deep.
	Difference between measurements of 40.00 chs.by two sets of chainmen is 14 lks., position of middle point
	Ry lef set 30 92 cha
	By 2nd set, 40.07 chs. the mean of which is Set a lava stone 24x15x10 ins. 18 ins. in ground for
40.00	Set a lava stone 24x15x10 ins. 18 ins. in ground for
	standard 1/4 sec. cor. warked 5.0.1/4 on R. 1206 and
	raise a mound of stones 2 ft.base, 1-1/2 ft.high N.
	of cor.
54.00	No trees, pits impracticable. Descend over stony slope of mountain
67.00	Foot of mountain, leave cedars, enter valley, course N.W.
73.83	Cross road, course N.and S.
	Difference between measurements of 80.00 chs. by two
	sets of chaimmen is 20 lks., position of middle point
	By 1st.set, 80.10 chs. By 2nd.set, 79.90 chs., the mean of which is
80.00	Set a lava stone 20x15x8 ins. 16 ins.in ground, for stan-
00.00	dard cor. of Secs. 34 and 35, marked S.C. on N., with 2
	grooves on E. and 4 grooves on W.faces, and raise a
	mound of stones 2 ft.base, 1-1/2 ft.high N.of cor.
	No trees, puts impracticable.
	Land, mountaineous and level. Soil, loam and rocky, 1st. and 4th.rates.
	Timber, cedar.
	Mountaineous or heavily timbered land, 67.00 chs.
	July 14, 1905.
	July 15: At 7 h.a.m.l.m.t. I set off 35° 7'1on the lat.
	are and 21°56 N.on the decl. are and determine a meri-
	dian with the solar at the standard cor. or Secs. 34
	and 35.
	Thence I run,
	[조 님 .] : 1 [[[[[[[[[[[[[[[[[[

		Fifth Standard Parallel North, through Range 6 West.	3
	Chains		
	1.00	Cross dry wash, 10 1ks. wide, course N. W.	
	35.00	Cross dry wash 2ch. wide, course N. E.	
	38.00	Leave valley, ascend over rolling mountainous country.	
		Difference between measurments of 40.00 chs., by two	
		set of chainmen is 8 lks.; position of middle point	
		By 1st set, 40.04 chs.	
	1000	By 2nd set, 39.96chs.; the mean of which is	
	40.00	Set a sand stone 20x10x8 ins. in the ground, for	
		standard 1/4 sec. cor., marked S.C.1/4 on N. face; and	
		raise a mound of stones, 2ft. base, 11/2 ft. high, N. of	
	1	cor. No trees, pits impracticable.	
		Difference between measurments of 80.00 chs., by two	
		sets of chainmen, is 10 lks.; position of middle point	
		By 1st set, 79.95 chs.	
		By 2nd set, 80.05 chs.; the mean of which is	
	80.00	Set a lava stone 16x8x6 ins., 12ins.in ground, for	
		standard cor. of secs. 33 and 34, marked S.C. on N., with	
		3 grooves on E. and 3 grooves on W. faces; and raise a	
	1	mound of stones, 2 ft. base, 11/2 ft. high, N. of cor.	
		No trees, pits impracticable.	
		Land, level and mountainous.	
		Soil, loam and rocky; 1st and 3rd rate.	
	1	Mountainous land 42.00 chs.	
•			
		Word on C. Niew	
		West on S. bdy. sec. 33.	
	-	Over rolling mountainous country, through scattering	
		cedars.	
		Difference between measurments of 40.00 chs., by two	
		sets of chainmen is 14 lks.; position of middle point By 1st set, 39.93 chs.	
	40.00	By 2nd set, 40.07 chs.; the mean of which is	
	20.00	Set a lawa stone 16x12x8 ins., 12 ins.in the ground,	
		for standard 1/4 sec. cor., marked S.C.1/4 on N. face;	
		and raised a mound of stones, 2ft. base, 11/2 ft. high, N. of cor. he was a pipe to early state,	
		A cedar 6 ins. diam., bears N. 431/2° W.154 lks.dist.	
	•	marked 1/4 S.39 B.T. O. 6. 1/4 D.33 B.T.	
		Ascend over rolling mountainous country, through	
		dense cedar timber.	
		Difference between measurments of 80.00 chs., by two	
	· .	sets of chainmen is 6 lks.; position of middle point	
		By 1st set, 40.03 chs.	
-		By 2nd set, 23.97 chs.; the mean of which is	
	80.00	Set a lime stone 20x10x8 ins., 16ins. inthe ground,	
1		for standard cor. of sees. 32 and 33, marked S.C. on N.	
		with 4 grooves on E. and 2 grooves on W. faces; from which	
		A pine, 4 ins. diam., bears N. 4° E. 54 lks. dist.	•
		marked T.21 N. R.6 W. S.33 B.T.	
		A cedar 6 ins. diam., bears N. 581/4° W. 54 lks. dist	
		marked T. 21 N. R. 6 W. S. 32 B. T.	•
Ì		Land mountainous.	
		Soil rockey, 4th rate.	
		Timber, pine and cedar.	
	٠.	Mountainous or heavily timbered land 80.00.	
1	;	· · · · · · · · · · · · · · · · · · ·	

West on S. bdy. sec. 32. Chains. Descend through dense timber. Leave timber, enter valley. 15.00 Difference beteen measurments of 40.00 chs., by two sets of chairmen, is 20 lks. ; position of middle point By 1st set, 40.10 chs. By 2nd set, 39.90 chs.; the mean of which is Set a lime stone 20x10x6 ins., 15 ins. in ground for 40.00 standard 1/4 sec. cor., marked S.C.1/4 on N. face; and raise a mound of stones 2ft. base, 11/2 ft. high N. of cor. No trees, pits impracticable. Ascend, leave valley, enter timber. 55.00 Intersect east bdy. T.20 N. R. 7 W. at S. 0° 42' E. 60.42 37.93 chs. from old closing cor. on old standard line of Tps. 20 N. Rgs. 6 and 7 W. Difference between measurments of 60.42 chs. by two sets of chainmen, is 6 lks.; position of middle point By 1st set, 60.45 chs. By 2nd set, 60.39chs.; the mean of which is 30. Setualine stone 20x10x8 ins. in mound of stones, for 60.42 clesing cor. Tps. 20 and 21 N. R.6.W. on the east bdy. of To 20 N. R. 7 W., marked C.C. on E. and 6 grooves on Ni E. and S. faces, from which Accedar 8 ins. diam. bears N. 1013/4, 21.440 lks. dist. marked C.C.T.21 N. R.6 W. S. 32 B. T. A cedar 6 ins. diam. bears S. 8° E. 130 lks. dist. marked C.C.T.20 N. R. 6 W. S. 5 B. T. Land, level and mountainous.

Land, level and mountainous.

Soil, loam and rocky; 1st and 4th rate.

Mountainous or heavily timbered land 20.42 chs.

July 15, 1905.

July 12th, 1905: I set off21 43° on the decl. arc; and , at 12h 00m by my watch, which is 5m fast of local mean time, observe the sun on the meridian, and obtain on the lat. arc the reading 35° 6° M which agrees with the lat. I obtained at the standard cor. of Tps. 20 and 21 N. Rgs. 5 and 6 W. at 12h 00m on July 13, Male He latitude furnished me by the Surveyor Saneral is about 9 minutes gnater than that that observed by me; Jam patisfied that my instrument is in perfect adjustment.

Through range 6Wthis line runs over mountain ridges and canons, having a northerly trendand crosses narrow vallys, there is no water.

The north western portion of T.20 N. and the south western portion of T. 21 N. R. 6 W. is heavily timbered with a fair quality of pine and cedar.

U.S. Deputy Surveyor.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS. BOOK LIST OF NAMES A list of the names of the individuals employed by tohu marking the lines and corners described in the foregoing field notes of the survey of ... undard Garallee north showing the respective capacities in which they acted: ----, Chainman. o cessedy FINAL OATH OF ASSISTANTS. We hereby certify that we assisted... United States Deputy Surveyor, in surveying all Perallee nothv meridian, Senting of usnue, 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 _____ Subscribed and sworn to before me this. day of Uce V. Leshu Notury Public

1852	() d 1.	1, 7.0		
· I,	John J	Tishu		, United States Deputy Surveyor
solemnly sw	ear that, in purs	suance of a contrac	t received from	hunk Singules, bearing date of
United State	s Surveyor Gene	ame (1255	have well, faithfully, and truly, in my
/	and on strict	conformity with 1	the instructions	furnished by the United States Surve
~ 1.0	11111	(0110	the Manual of S	Surveying Instructions, and the laws of Jift Mundau
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\sim				of the Helat Sull
Clive	u meridi	ian, in the Jew	clery of U	which are represented in
foregoing fie	eld notes as hav	ing been surveyed	by me, and und	der my direction; and I do further soler
swear that a	all the corners of	f said survey have	been establishe	d and perpetuated in strict accordance
the Manual	of Surveying In	structions, and the	special written	instructions of the United States Surv
General for	Myn	nd and	in the specific n	nanner described in the field notes, and
				should any fraud be detected, I will stress approved August 8, 1846.
tne penalty	or perjury unde	r the provisions of	/)	. 4 9 .
			XV	hw J Verlue
	ρ		0	United States Deputy Surv
Subscribed	by said thu	Josher	and swor	rn to before me)
Subscribed	by said 1	of Septem	160 N	(
this	day	of Neguum	, 170	
				M, Watts
	OCOCO OCCO OCCO OCCO OCCO OCCO OCCO OC			Clark M.D. Court
			PPROVAL	
	OFFI	ICE OF THE UNIT	ED STATES SU	JRVEYOR GENERAL,
			Thee	IRVEYOR GENERAL, Inni, Arizona Nev 20 th, 1 fth Standard Parallel 9 la and Salt River Be of Arizona
ml	foregoing fold n	otos of the survey	of the Fi	lth Standard Parallel 9
the t	A R Range	a 6 Mest	of the Gi	la and Salt River Be
	morial	in the	territori	of aringona
JW 1900		,	`	<i>f O</i>
			· .	
executed b	y 70h 5	F. Fisher U	U.S. depur	ty survey or , 189, having
			étions and expl	lanations made, the said field notes, an
surveys th	ey describe, are	hereby approved.	1/1/	ant of hoalls
				United States Surveyor Ge
I ce	rtify that the for			s of the above-described surveys in
		To a language	amma attra aaniad t	THE
		, nas seen et	eopied i	from the original notes on file in this off
		, nus seen ee		Tom the original notes on the in this on