FIELD NOTES

OF THE SURVEY OF THE

North Bdy 117N P12E	
	······································
•	
of the Gila and Sal River Base and Meridian	\imath ,
arigona	
AS SURVEYED BY	
States Dep	outy Surveyor,
Under his Contract No. 162, dated Jans	, <u>19/0</u>
Survey commenced	, <u>19/ø</u>
Survey completed. Lec. 9	, <u>19</u> //
6—151	

NAMES AND DUTIES OF ASSISTANTS.

Bel Johnson	Chewomen,
W. D. Schoenover	general general .
amfarlan,	Borndonon
Ileff Allen	Ux man
Lolis Trench	Maganan
•	
6—151	

(8)

BOOK 2789 INDEX DIAGRAM.

Town.	ship	7 /	Range	12	<u></u>
	2	2	2	3	7.
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	88	84	35	36

Meanders	Page	6—151
•	Notes in this book.	

10

PRELIMINARY OATHS OF ASSISTANTS.

2101	1.000
WE, Sol Johnson	
	xecute the duties of chainmen; that we will level the
we will report the true distances to all notable chies	ally pins, either by sticking or dropping the same; that ts, and the true lengths of all lines that we assist in
	accordance with instructions given us, in the survey of
NEdy 7/7/11/21	The survey of
- July 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	ob Johnson, Chainman.
	M.D. Schammer
·	The Chainman.
Subscribed and sworn to before me this	
day of	
	- Holdelyn
	103 X of uly Surey.
Who I was	
do solemnly swear that we will well and truly nor	form the duties of moundmen in the establishment
	to the best of our skill and ability, in the survey of
Xbdy717N/51	7)
	m, Moundman.
	Moundman
Subscribed and sworn to before me this	, Moundman.
day of	(19)
	1/Decellation
	L'S L'éluty union-
WE, Lestes Trench.	and
do solemnly swear that we will well and truly perform	
and other duties, according to instructions given us,	
Nedy Toxx	
	Lester from a farmer
· · · · · · · · · · · · · · · · · · ·	, Axman.
Subscribed and sworn to before me this	
day of, 19 //	
day of	Touch Manne
WEXEX	- Culting of
	66 Suffer ruey
I Cleff Unhan	, do solemnly swear that I will well and truly
perform the duties of flagman according to instruction	as given me, to the best of my skill and ability, in the
survey of	
survey or	1 1:11 9) 1 (h(122202 (1)
, j. 🛥	Cliff Wilson Chamman.
Subscribed and sworn to before me this	
day of, 19//	
uay 01, 197/	Moscrella
SEAL (A	W. Walnie

North Boundary of Township 17 North, Range 12 East. Survey commenced Dec. 8, 1911, and executed with a Young & Sons light mountain transit, No. 7984, equipped with Chains the Smith solar attachment, the horizontal limb being provided with two opposite verniers, reading to 1' of arc, which is also the least count of the verniers of the lat. and decl. arcs. The instrument was examined, tested on the true meridian at Phoenix, found correct, and approved by the Surveyor General at Phoenix. I examined the adjustments of the transit, and corrected the level and collimation errors, 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 observation on Polaris, I proceed as follows: Dec. 8, 1911, at the true meridian established by me at my camp, by observation on Polaris, I set off 22° 37½' S., on the decl. arc; 34° .56' N., on the lat. arc, and at 4:00 p.m., 1.m.t., I determine a meridian with the solar, and mark a point in this meridian, 5.00 chs. N. of my station, which point, is 0.3 ins. E. of a cross (X) position of which was determined by observation on Polaris. Dec. 9, 1911, at my station, I set off 22° 43' S., on the decl. arc; 34° 56' N., on the lat. arc, and at 8:30 a.m., l.m.t., determine a meridian with the solar, and mark a point in same, 5.00 chs. N. of my station, which point is 0.2 ins. W. of true meridian established by I judge the adjustments of my instrument to Polaris. be correct. At the cor. of Ts. 17 and 18 N., Rs. 12 and $12\frac{1}{2}$ E., previously described, I set off 22° 44' S., on the declerc; 34° 54' 30" N., on the latter, and at 9:30 a.m., 1.m.t., determine the meridian with the solar. Thence I run, W. on a random line on the N. bdy. of T. 17 N., R. 12 E., setting temporary corners every 40.00 and 80.00 chains. Intersect E. bdy. of T. 18 N., R. 11 E., 11.16 chs. N. of the cor. of Ts. 17 and 18 N., Rs. 11 and 12 E., which is a limestone 18 x 10 x 5 ins., 6 ins. above 477.13 the ground, marked and witnessed as described by the Surveyor General, therefore, I set a limestone 18 x 12 x 6 ins., 12 ins. in, the ground, for closing coroff Ts. 17 and 18 N., R. 12 E., marked C C on E. face, 6 grooves on N. S. and E. faces, from which: A cedar 6 ins. in diam., brs. N. 28,43' E ,43' E., 52 lks. dist., marked T 18 N R 12 E S 31 B T.

A cedar 8 ins. in diam., brs. S. 75° E., 55 lks.

dist., marked T 17 N R 12 E S 6 B T.

Thence I run, E. on a true line, bet. secs. 6 and 31, descending through dense cedars.

Set a limestone 18 x 12 x 4 ins., 12 ins. in the ground, for \$\frac{1}{4}\$ sec. cor. of secs. 6 and 31, marked \$\frac{1}{4}\$ on N. face, raise a mound of stone 2 ft. base, \$\frac{1}{2}\$. ft. high, N₄ of cor., from which: A cedar 12 ins. in diam., brs. N. 66° 20' W., 27 lks. dist., marked \$\frac{1}{4}\$ S 31 B T. No other tree available. Pits impracticable. Magnetic declination 14° 20' E. 43.00 Leave dense cedars. Enter dense cedars. 47.13 Draw brs. N., ascend. Leave dense cedars. 61.00 Set a limestone 28 x 10 x 12 ins., 18 ins. in the ground, for cor. of secs. 5, 6, 31 and 32, marked 1 notch on W. edge; 5 notches on E. edge, and raise a mound of stone 2 ft. base, 12 ft. high, W. of cor. No trees 77.13 Pits impracticable. Magnetic declination N. 14° 20' E. Soil sandy and gravelly. Land rolling. No timber, 20.00 chains; Dense timber 57.00 chains. Undergrowth, scrub cedar, white sage brush, and broom Rolling land, covered with dense brush, 59.00 chs. Rolling land, 18.13 chains.

2	North Boundary of Township 17 North, Range 12 East.
Chains	E. bet. secs. 5 and 32, over rolling land.
40.00	Set a limestone 18 x 6 x 4 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor. of secs. 5 and 32, marked $\frac{1}{4}$ on N. face,
. 1	from which:
:	A cedar 6 ins. diam., brs. N. 12 30 W., 35 lks. dist., marked \(\frac{1}{2} \) S 32 B T.
	A cedar 9 ins. in diam., brs. S. 20° 30' W., 31 lks.
-	dist., marked 2 S 5 B T. Magnetic declination N. 14° 20' E.
60.00 80.00	Draw 2.00 chs. S. of line, brs. E. On W. slope of 75 ft. ascent, set a limestone 20 x 8 x 6
80.00	ins., 15 ins. in the ground, for cor. of secs. 4, 5,
•	32 and 33, marked with 2 notches on the W. edge, and 4 notches on the E. edge, and raise a mound of stone, 2
€	ft. base, 12 ft. high, W. of cor. No trees near.
Υ	Pits impracticable. Magnetic declination N. 14°, 20' E.
· · · · · ·	Land rolling. Soil, sandy and rocky; 2nd and 3rd rate.
	No timber. Undergrowth, scattered cedars, white sage brush, and broom weed.
	Rolling land, 80.00 chs.
,	
	At the cor. of secs. 4, 5, 32 and 33, I set off 22° 45'
	30" S., on the decl. arc, at 12 h. M., apparent time,
	observe the sun on the meridian, and obtain on the latearc, the reading 34° 54' 30" N., which agrees with
	other data.
· ·	Thence I run E. bet. secs. 4 and 33. Ascending over rolling land, through scattering timber.
10.00 30.00	Top of ascent, descend.
40.00	Set a limestone 14 x 12 x 8 ins., 9 ins. in the ground,
	for $\frac{1}{4}$ sec. cor. of secs. 4 and 33, marked $\frac{1}{4}$ on N. face, from which:
-	A cedar 12 ins. in diam., brs. N. 54° 46' W., 72
	lks. dist., marked $\frac{1}{2}$ S 33 B T. A cedar 6 ins.in diam., brs. S. 43° 26' W., 322 lks.
	dist., marked 4 S 4 B T.
80.00	Magnetic declination N. 14° E. Set a limestone 15 x 10 x 8 ins., 10 ins. in the ground
_	for cor. of secs. 3, 4, 33 and 34, marked with 3 notches on E. and W. edges, from which:
c	A cedar 10 ins. in diam., brs. N. 52 E., 260 lks.
٠.	dist., marked T 18 N R 12 E S 34 B T. A cedar 10 ins. in diam., brs. S. 77 14' E., 475
	1ks. dist., marked T 17 N R.12 E S 3 B T. A cedar 4 ins. in diam., brs. S. 75° W., 181 1ks.
	dist., marked T 17 N R 12, E S 4 B T. No other tree
	available. Dig pits $18 \times 18 \times 12$ ins. in each sec. $5\frac{1}{2}$ ft. dist.
₹ ₹	and raise a mound of earth 4 ft. base, 2 ft. high, W.
•	of cor. Magnetic declination N. 14° 20' E.
	Land rolling. Soil sandy and gravelly, 2nd and 3rd
•	rate. Scattering timber. Undergrowth: white sage brush, and broom weed.
	Land rolling: 80.00 chains.

Thence E. bet. secs. 3 and 34, over rolling land.

40.00 Set a limestone 15 x 10 x 8 ins., 10 ins. in the ground, for 3 sec. cor. of secs. 3 and 34, marked 2 on N. face, dig pits 18 x 18x 12 ins. E. and W. of stone, 3 ft. dist., and raise a mound of earth 32 ft. base, 12 ft. high, N. of cor. No trees near.

Magnetic declination N. 14° 20' E.

December 9, 1911.

Feb. 25, 1913: From the above cor. I run E. bet. secs. 3 and 34.

Nor	th Boundary of Township 17 North, Range 12 East. 3
Chains 40.00	Set a limestone, 16 x 12 x 10 ins., 11 ins. in the ground,
	for cor. of secs. 2, 3, 34 and 35, marked with 2 notches on E. edge, 4 notches on W. edge, 18 N on N.E. face, 12 E on SE. face; and raise a mound of stone, 2 ft. base, 12 ft. high, W. of cor.
	Magnetic declination N. 14° 12' E. Land rolling. Soil, sandy and gravelly; 2nd and 3rd rate.
	No timber. Undergrowth: scrub cedar, and white sage- brush and broom weed. Rolling land, 80.00 chains.
44	
2.00	possible to chain. To determine the distance across the canyon, I set a flag on line on E. bank, then measure a base line, S. 7.00 chains, to a point from which
	the flag brs. N. 57° 28' E.; therefore, tan. 57° 28' x the base, or 1.567 x 7.00 = 10.97 chs., the dist. across which, added to 2.00 chs., makes
12.97 40.00	Top of E. bank of Canyon Diablo; brs. N., ascend. Set a limestone, 18 x 12 x 6 ins., 12 ins. in the ground, for # cor. secs. 2 and 35, marked # on N. face; dig pits, 18 x 18 x 12 ins., E. and W. of cor., 3 ft. dist.; and raise a mound of earth, 3½ ft. base, 1½ ft. high,
57.00	N. of cor Magnetic declination N. 14° 20' E. Road, brs. N.E. and S.W
80.00	for cor. of secs. 1, 2, 35 and 36, marked with 1 notch on E. edge. 5 notches on W. edge: 18 N on N.E. face,
	17 N on S.W. face, 12 K on S.E. face; dig pits, 18 x 18 x 12 ins. in each sec., $5\frac{1}{2}$ ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor. Magnetic declination N. 14 20 E. Land rolling and mountainous.
	Soil: sandy and rocky, 2nd, 3rd and 4th rate. No timber. Undergrowth: scattered scrub cedar, white sage brush and broom weed.
	Mountainous land, steep slopes, covered with loose rock, and exceptionally difficult to survey, 11.00 chs. Rolling land, 69.00 chs.
	E. bet. secs. 1 and 36.
23.00 40.00	Ascending over rolling land. Road, Winslow to Camp Verde, brs. N.E. and S.W.
	for \$\frac{1}{2}\$ cor. of secs. 1 and 36, marked \$\frac{1}{2}\$ on N. face; from which A cedar 12 ins. in diam., brs. S. 29\frac{1}{2}\$ E., 25 lks., dist., marked \$\frac{1}{4}\$ S 1 B T.
The management of the state of	A cedar 12 ins. in diam., brs. N. 59° E., 119 lks. dist., marked \$2 36 B T. Magnetic declination N. 14° 20' E.
50.00 80.00	Enter dense cedars. The true point for cor. of Ts. 17 and 18 N., Rs. 12 and 12½ E., witnessed as described in Book "K". Land rolling. Soil: sandy. 2nd and 3rd rate. No timber, 48.00 chs.; Dense timber 32.00 chs. Undergrowth: Dense scrub cedars, white sage brush
	Rolling land, covered with dense cedar brush 32.00 chs. Rolling land, 48.00 chs. February 25, 1913.
	U. S. Deputy Surveyor.

Chains

	North Bound	ary of Towns	ship 17	North.	kange .	Z East	
		undary of Todes, Depart					
	Line Designated South Bdy.	True Bearing S.77° 13'W M.86°00'W S.85°33'W	Chs. 40.44 40.62	N. Chs. 2.83	Chs 8.95	E. Chs. (W.
	(4th Std. (4th S	S.89°48'W S.89°41'W S.84°40'W	40.07 80.14	• • •	.14 .44 3.70		40.07 80.14 39.67 7.20 191.30
	boundary North	North	491.16	491.16	• • • •		
	boundary East	East	477.13		ing sekalisi	477.13	
	boundary Convergency	South	480.00		480.00	0.50	
٠	Totals	• • • • • • • • • • • • • • • • • • •		494.67	496.35 494.67		478.48 477.63
	Error	in latitude Error in D		8	1.68	, s	0.85

DENERAL DESCRIPTION.

Township 17 N., R. 12 E., consists of rolling mesas, sandy and gravelly soil, no water, ridges covered with dense cedar brush, some grass, white sage brush, and broom weed, both townships cut from N. to S. by Canyon Diablo being precipitous, rocky, winding Canyon, descending abruptly, 200 to 300 ft., below mesa. Water, except what is stored in tanks, during flood season.

U. S. DEPUTY SURVEYOR.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.	, 1
A list of the names of the individuals employed by	Hom
, United States Deputy Surveyor, to assist in run	
arking the lines and corners described in the foregoing field notes of the survey of	• .
NEdyTIT NINE	
nowing the respective capacities in which they acted:	
Bel Johnson	, Chainman.
Will Schoonover.	
M m Lanken	Moundman
Cliff Arbon	
Ledy Trench.	$\dots, Axman.$
	, Flagman.
FINAL OATH OF ASSISTANTS.	
We hereby certify that we assisted 1902/02	2 Commence
, United States Deputy Surv	
ose parts or portions of the	Non-
, 	
- 	<u> </u>
	of the
By meridian, Iw of Consumer,	which are represente
the foregoing field notes as having been surveyed by him and under his direction	
as been in all respects, to the best of our knowledge and belief, well and faithful	
orner monuments established, according to the instructions furnished by the Un	nited States Surveyo
eneral for Angeria	
My Letreonous	, Chainman.
Kaft Johnson	, Chainman.
Um Jaken	, Moundman.
Coff Wilson	
Lester Trench	, Axman.
and journal	, Flagman.
day of	
day of 19/12) Percelly	Voru
OCCOOR O SEAL O	

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

<u>, </u>
I Was a fall was a state of the same of th
I, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from
United States Surveyor Congrel for
United States Surveyor General for, bearing date of the, 19/Q I have well, faithfully, and truly, in my own
proper person and in strict conformity with the instructions formicked but the IV. it I Gut a
General for the Manual of Surveying Instructions, and the laws of the
United States surveyed all those parts or portions of
United States, surveyed all those parts or portions of
<u></u>
of the
meridian, in the of meridian of the sepresented 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 forand in the specific manner described in the field notes, and that
the foregoing are the original field notes of such survey.
Miscelestan
United States Deputy Surveyor.
Subscribed by said lover Colam, and sworn to before me)
this 3/2 day of January 19/2
this of day of sure 19/2
La Bollon
OSSEAL G
6000000 Units States Commissioner
Motion division of motion district
APPROVAL.
OFFICE OF THE UNITED STATES SURVEYOR GENERAL,
Dl. D. Nagel
Phoenix arigona Nov. 24, 19/4
The foregoing field notes of the survey of
•
the North Bdu of St. 17 MR 12 & St.
the North Bdy of Sp. 17 MR 12 E. of the
Gila and Salt Rever Base and Meridian, Cingona.
Ma and Sau V wir Base and Moudian, augona.
executed by Roscoe C. Ham, U.S. Deputy Surveyor
under his contract No. 162, dated 50, having been
critically examined, and the necessary corrections and explanations made, the said field notes, and the
surveys they describe, are hereby approved.
drank I sugalle
Hnjied States Surveyor General.
OF ARIZONA.
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.