1.

No. 1443

4–671

FIELD NOTES

GENERAL LAND OFFICE.

E and N. Exteriors

Townships 25 N. R. 7 E.

BOOK 1443

Index

T. 20 N. R. 7 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	33	34	35	36

pages 243 Blank BOOK 1443 1.

No. 1443

Field Notes

of the survey of the

Exterior Boundary Lines

of

Township No 25 N. R. No 7 East,

of the

Gila and Salt River Base and Meridian

in the

Territory of Arizona

as surveyed by

Francis W. Arny

U. S. Deputy Surveyor

Charles E. Persons,

Compassman and U. S Deputy Surveyor.

under his contract No 31.

Dated June 21, 1893.

Survey commenced July 28, 1894.

Survey completed July 29. 1894.

East boundary

Chs. I survey commenced July 26th 1894 with a W. & L. E. Gurley solar transit. At the standard cor. to Tps. 25 N. Rs 7 and 8 E. hereinbefore described I verify the adjustments of my instrument and find them correct. I set off 18°53' on the declt. arc, and at 12 h 6 m p.m. l.m.t. observe the Sun on the meridian, the resulting lat. is 35°28' N, the true lat. nearly.

The longitude taken from the map is 111°24' W. I observe Polaris

T. 25 N. R. 7 East. (cont)

chs. at its eastern elongation at 10h 57m p.m. L.M.C. and find its magnetic bearing to the 13° 01' W.
N. end of needle 13° 01' E.
The azimuth of the star is 1° 31' E.
The sum is the var. 14° 32' E.
I lay off the azimuth to the west and mark the true meridian so determined by driving a picket 7 chs. N. of the car.
July 29th at 7 a. m. I set off 35° 28' N. on the Lat. arc, 18° 53 N. on the decl. arc, and determine a true meridian with the solar; the position for true meridian by solar and

East boundary of

the Polaris observations practically agree, therefore I conclude the adjustments of the instrument are satisfactory.

Thence I run
North bet secs. 31 and 36.
Var. 14° 32' East.
Over rolling open prairie land.

In accordance with my special instructions to establish the cor to Tps 25 and 26 N. Rs. 7 and 8 E. on the same parallel of latitude as the cor to Tps. 25 and 26 N. Rs. 1 E. and 1 W. and in running

T. 25 N. R. 7 E. (cont'd)

chs. up the E. boundary of T. 25 N. R 7 E. to throw the excess caused by the divergency of the Sixth Standard Parallel North from a true parallel of latitude - upon the first 1/2 mile, running North, at

53.11 Set a cedar post, 4 ft long, 4 ins. square, with mound stone 18 ins in the ground for 1/4 sec. cor. marked 1/4 S on W. face, and dug pits 18 x 18 x 12 ins. N. and S. of post, 5 1/2 ft. distt. and raised a mound of earth 2 1/2 ft. high, 4 1/2 ft. base around post.

East boundary of

chs	
61.00	Wash. 4 ft. deep, course E.
76.00	ascend 100 ft.
78.00	Top of ascent, thence over rolling land.
93.11	Set a red cinder stone 27 x 16 x 12 ins. 21 ins. in the ground for cor. to secs. 25, 30, 31 and 36, marked with 5 notches on N. and 1 notch on E. faces, and raised a mound of stone 1½ ft. high. 3 ft. base, alongside, from which a cedar 6 ins. diam. bs. E. 85° 15' N. 197 lks. dist. marked T. 25 N. R. 7 E. S. 36-31. No other trees within limits Land, rolling

T. 25 N. R. 7 E. (cont'd)

chs. Soil, stony, 30 rate.
No timber cedar and pinon brush.

North bet secs. 25 and 30.
Var. 14° 32' East.
over rolling broken land
Descend 40 ft.

5.00 Foot of descent ascend 35 ft.

15.00 Top of ascent, thence on broken rolling land.

40.00 Set a cedar post, 4 ft. long, 4 ins. square, with marked stone 18 ins. in the ground for 1/4 sec. cor. marked 1/4 B. on W. face, dug pits 18 x 18 x 12 ins. N. and S. of post, 5 1/2 ft. dist

10.

East boundary of

Ls.	and raised a mound of earth 3 ft. high, 4 ft. base around post.
50.00	Deposited a marked stone 12 ins. in the ground, for cor to secs. 19, 24, 25 and 30, dug pits 18 × 18 × 12 ins. in each section, 5½ 77 dist. and raised a mound of earth 3 ft. high, 5 ft. base, over it.
	On S.E. pit drove a stake 2 ins. square, 2 ft long, 12 ins in the ground marked
	T. 25 N. R. 19 on N.E.,
	R. 8 E. S. 30 on S.E.,
	R. 7 E. S. 25 on S.W.,
	S. 24 on N.W. faces, with

T. 25 N. R. 7 E. (cont'd)

Cor. 4 notches on N. and 2 notches on E. edges Land, rolling and broken Soil, gravelly, 3d rate. No timber.

North bet. secs. 19 and 24 Var. 14° 32' East.

Over rolling land.

40.00 Set a red cinder stone 20 x 8 x 7 ins. 6 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face, and dug pits 18 x 18 x 12 ins. N. and S. of stone, 5 1/2 ft. dist. and raised a mound of earth 3 ft high, 5 ft. base alongside.

80.00 Set a small pair stone 23 x

East boundary of

Sec. 12 x 11 mis. 18 mis in the ground for cor. to secs. 13, 18, 19 and 24, dug pits 18 x 18 x 12 ins. in each section 5 1/2 ft. dist. and raised a mound of earth 3 ft high, 3 ft. base, alongside
Land rolling.
Soil, gravelly, 2° rate.
No timber.

North bet. secs 13 and 18.
Var. 14° 32' East.
Open rolling prairie land.

21.00 Wash. 40 ft. deep course N 70° E.

40.00 Set a red cinder stone 11 x 9 x 6 ins. 7 ins. in the

T. 25 N. R. 7 E. (cont'd)

chs. grand for 1/4 sec. cor.
marked 1/4 on W. face, dug
pits 18 x 18 x 12 ins. N. and
E. of stone, 5 1/2 ft. dist.
and raised a mound of
earth 3 ft high, 5 ft base
alongside.

80.00 Set a red cedar stone 16 x 13 x
4 ins 11 ins in the ground
for cor to secs. 7, 12, 13 and
18, dug pits 16 x 18 x 12 ins
in each section, 5 1/2 ft.
dist. and raised a mound
of earth 3 ft high 4 1/2 ft-
base, alongside.
Land, rolling.
Soil, gravelly, good rath
No timber.

East boundary of

Lks.	North bet. secs 7 and 12.
	Var. 14° 32' East.
	over rolling land.
40.00	Set a red cinder stone
	12 x 10 x 6 ins. 9 ins. in
	the ground for 1/4 sec.
	cor. marked 1/4 on W. face
	and dug pits. 18 x 18 x 12
	ins. N. and S. of stone 6½
	ft. dist. and raised a
	mound of earth 3 ft. high,
	5 ft. base alongside.
58.00	ascend 300 ft.
80.00	Top of ascent, ridge, bns.
	N. 64° E. and S 64° W.
	Set a red cinder stone
	13 x 10 x 8 ins. 9 ins. in
	the ground for cor to secs.
	1, 6, 7 and 12, dug pits

T. 25 N. R. 7 E. (cont'd)

chs
18x18x12 mds. in each section 5½ ft. dist and raised a mound of earth 3 ft. high, 5 ft. base alongside.
Land, rolling.
Soil, gravelly, 2d rate.
No timber.

North bet secs. 1 and 6.
Var. 14°32' East.
Over rolling land,
Descend 400 ft.
25.00 Foot of descent.
40.00 Deposited a marked stone 12 ins. in the ground for 1/4 sec. cor., dug pits 18x18x12 ins. N. and E. of stone, 5½ ft. dist. and

East Lady T. 25 N. R. 7 E (cont'd)

Chs.	raised a mound of earth 2½ ft high, 4½ ft base, over pit; 9 n E. pit drove a stake 2 ins square 2 ft long, 12 ins. in the ground, marked 1/4 S on W. face.
67.00	ascend 150 ft.
80.00	Set a red cinder stone 27 x 12 x 12 ins. 21 ins. in the ground for cor to Tps 25 and 26 N. Rs. 7 and 8 E. marked with 6 notches on each edge, dug pits 24 x 18 x 12 ins. lengthwise on each line N., S., E., and W. of stone 6 ft. dist. and raised a mound of stone covered

North bdy T. 25 N. R. 7 E. c

chs with earth 3 ft high, 6 ft. base, alongside.
Land, rolling and broken-
Soil, stony and gravelly
3d rate.
No timber-

From the cor to Tps. 25 and 26 N-Rs 7 and 8 E.
9 rods
West on a random line between said townships
Var. 14° 32' East-
Set temporary 1/2 mile and mile corners at each 40 and 80 chs. and find the Tp. line to be 6 miles 3 chains and 60 lks long. and the falling to be

North Boundary of

chs. 34 chs S of cor to Tps. 25 and 26 N Rs. 6 and 7 E. The correction for the true line thereon will be 5 2/3 chs. N per mile, and its course will be S. 89° 58' E.

From the cor. to Tps. 25 and 26, N. Rs. 6 and 7 E. Run

S. 89° 58' E. on a true line bet secs. 6 and 31.

Var. 14° 32' East

over rolling land.

43.60 Set a red cedar 14 x 12 x 10 ins. 11 ins. in the ground for 1/4 sec. cor. mound 1/4 on N. face, and raised a

T. 25 N., R. 7 E. (cont'd)

chs.

mound of stone 1½ ft high
3 ft. base, alongside.
Pits impracticable

83.60 Set a limestone 18×18×6
ins. 12 ins in the ground
for cor. to secs. 5, 6, 31 and
32, marked with 5 notches
on E. and 1 notch on W.
edges, and raised a mound
of stone, 3 ft high, 4 ft. base,
alongside. Pits impracti-
cable.

Land, rolling.
Soil, stony. 3d rate.
No timber.

B. 89° 58' E. on a true line
bet secs. 5 and 32.

Var. 14° 32' East.

North Boundary of

Chs.	
	Over rolling land.
8.00	ascend 80 ft.
19.80	Top of ascent, thence over broken land.
40.00	Set a malpais stone 16x14 x12 ins. 11 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face, and raised a mound of stone 2 ft high, 3 ft. base alongside, Pits in practicable
80.00	Set a malpais stone 16x 13x18 ins. 11 ins in the ground for cor to secs. 4, 5, 32 and 33, marked with 4 notches on E. and 2 notches on W. edges, and raised a mound of stone

T. 25 N. R. 7 E (cont'd)

chs. 2 ft high, 4 ft base, alongside. Pits impracticable.
Land rolling and broken.
Soil, stony, 4th rate
no timber.

S. 89° 58' E. on a true line between secs. 4 and 33.

Var. 14° 32' East.

over broken mountainous land.

ascend 200 ft.

9.00 Bed of canon, course N.
ascend 300 ft.

12.00 Top of ascent, ridge, bears N. and S. Descend 100 ft.

17.00 Foot of descent, and ascend 400 ft.

40.00 Set a mahogany stone 14x

North Boundary of

chs. 12 x 11 mis. 11 mis. on the grand for 1/4 sec. cor. marked 1/4 on N. face, and raised a mound of stone 2 ft high, 3 ft. base, alongside, from which a cedar 10 mis. diam bears S 23° 07' E. 20.5 lks. dist. marked 1/4 B.B.T. a cedar 10 mis. diam. bears S. 13° 50' W. 20.7 lks. dist. marked 1/4 B.B.T.

50.00 Top of mountain bears E. and W., thence along broken top of mountain.

60.00 Descend 100 ft.

66.00 Foot of descent. ascend 200 ft.

78.00 Top of ascent. Descend 100 ft.

80.00 Set a malpais stone 16 x 16

T. 25 N. R. 7 E. (cont'd)

Chs. 12 mis. 11 mis. ni the ground for cor to secs. 3, 4, 33 and 34, marked with 3 notches on E. and W. edges, and raised a mound of stone 2 ft high, 3 ft base, alongside. from which a juniper 10 ins. diam. bra N. 74° 51' W. 102 lks. dist. marked T. 26 N R 7 E S. 33 B.T. a cedar 10 ins. diam bro. S. 120° 3' E. 82 lks dist. marked T. 25 N R 7 E. S. 3 B.T. No other trees within limits Land, mountainous Soil, stony, 4th rate. No timber, cedar brush.

S. 89° 58' E. on a true line

North Boundary of

Chs.	bet. secs. 3 and 34.
	Var. 14° 32' East
	over mountainous land.
	Descend 200 ft.
10.00	Foot of descent, thence
	over broken edge of
	mountain, which turns
	squarely towards the
	E. Descend 200 ft.
21.00	Foot of descent, and ascend
	N.W. slope of a round
	cinder butte, which contains
	a deep crater in its center.
40.00	Set a malpais stone 18x
	18 x 12 ins. 12 ins. in the
	ground for 1/4 sec. cor.
	marked 1/4 on N. face,
	and raised a mound of
	stone 2 ft. high, 3 ft.

T. 23 N. R. 7 E. (cont'd)

chs. base alongside. Pits impracticable.

46.00 Top of ascent, on N. side of butte, about 20 chs. from top. Descend 500 ft.

80.00 Foot of descent.

Set a red cedar stone 17 x 13 x 13 ins. 12 ins. in the ground for cor to secs. 2, 3, 34 and 35, marked with 2 notches on E. and 4 notches on W. edges, and raised a mound of stone 2 ft high, 4 ft base, alongside, Pits impracticable

Land, mountainous,
Soil, stony, & thin rate.
No timber.

North Boundary of

chs.	
	S. 89° 58' E. on a true line between secs. 2 and 35.
	Var. 14° 32' East.
	over rolling land.
40.00	Set a malpais stone 18 x 14 x 10 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face, and raised a mound of stone 1½ ft. high, 3 ft. base, adjacent. Pits impracticable
80.00	Set a sec. under stone 17 x 13 x 13 ins. 12 ins. in the ground for cor. to secs. 1, 2, 35 and 36. marked with 1 notch on E. and 5 notches on W. edges and raised

T. 25 N. R. 7 E. (cont'd)

chs. a mound of stone 2 ft. high, 3 ft. base, alongside. Pits impracticable. Land, rolling. Soil, stony, 3d rate. No timber.

S. 89° 58' E. on a true line bet. secs. 1 and 36.

Var. 14° 32' East.

Over rolling land.

33 00 Road from Flagstaff to Tuba city bears N. and S.

40 00 Set a malpais stone 12 x 12 x 6 ins. 8 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face, dug pits 18 x 18 x 12 ins. E. and W. of stone 5 1/2 ft.

North Boundary of

chs.	dist. and raised a mound of earth 3 ft. high. 4 1/2 ft base, alongside.
	ascend along S slope of a round hill, 200 ft.
54.00	Top of ascent on S. side of hill, about 150 ft. below and 3 chs. S. of apex.
	Descend 100 ft.
62.00	Foot of descent.
	ascend along S. slope of a round hill.
65.00	Top of ascent on S. side of hill, about 100 ft. below and 5 chs. S. of apex.
	Descend 300 ft.
80.00	The cor. to Tps. 25 and 26 N. Rs. 7 and 8 E.

T. 25 N., R. 7 E. (cont'd)

chs. Land, rolling and mountainous.
Soil, stony. 3d rate.
No timber.
Mountainous land 40 chs.

July 29, 1894.

Latitudes, Depart-

Lines designated as	True Bearing.
E. boundary	North
N. boundary	N. 89° 58' W.
W. boundary	South
S. bdy S.W¼ sec. 31.	S 89° 02' E.
S. bdy S.E.¼ sec. 31.	S 89° 17' E.
S. bdy S.W¼ sec. 32	S 88° 09' E.
S. bdy S.E.¼ sec. 32.	N. 89° 18' E.
S. bdy S.W¼ sec. 33.	S. 89° 24' E.
S. bdy S.E.¼ sec. 33.	East
S bdy S.W¼ sec. 34	N. 89° 30' E.
S bdy S.E.¼ sec. 34.	N. 89° 54' E
S. bdy S.W¼ sec. 35	S 89° 47' E.
S bdy S.E.¼ sec. 35	N. 89° 20' E.
S. bdy S.W¼ sec. 36	S 89° 43' E.
S. bdy S.E.¼ sec. 36	N. 89° 28' E.
Convergency	
	Totals
	Error in

...ries, and closing errors.

Distance	Latitudes		Departures	
	N.	S.	E.	W.
493.11	493.11			
483.60	28			483.60
491.90		491.90		
40.46		.68	40.46	
40.24		.50	40.24	
40.95		1.32	40.95	
40.30	.49		40.30	
39.41		.41	39.41	
40.42			40.42	
39.95	.35		39.95	
40.44	.07		40.44	
40.44		.15	40.44	
40.39	47		40.39	
40.55		.20	40.65	
40.60	.38		40.60	
				.51
	495.15	495.16	483.15	484.11
		495.15		483.15
Dist.		Error	Departure.	.96

Boundaries T. 25 N. R. 7 E. (continued)

General Description

This township is entirely devoid of timber but the Southern part and the tops of high points are covered with cedar and pinon brush. The land is rolling in character but there are many high, round buttes

abundant grass grows during the wet seasons.

There is no water in any part of this township.

Charles E Perkins
Compassman 2nd
U.S. Deputy Surveyor

 33

No. 1443

U. S. Surveyor-General's Office,

TUCSON, A. T., July 13 1895

The foregoing Field Notes of the Surveys of

E & N. exterior boundys of Tp. 25 N. R 7. E

Gila and Salt River Meridian

in Arizona *executed by*

F. W Oury

U. S. Deputy Surveyor, under his contract dated

June 21st 1893,

having been critically examined, the necessary corrections and explanations made, the said Field Notes and the surveys they describe are hereby approved.

Lin A Hinning

U. S. Surveyor-General
for the Territory of Arizona.