

Book 2

BOOK 1235

No. 1235

BOOK 1235

1235

*Retracement.*

4-671

**FIELD NOTES**

**GENERAL LAND OFFICE.**

*6<sup>th</sup> Stan<sup>d</sup> Parallel North  
thro Ranges 6 and 7. E.*

✓

Indexed, Book 1234.

Index.

6<sup>th</sup> Standard North  
Through.

——— R 6E ——— 65 east  
——— 7E ——— 85

Sixth Stand. Par. N. thro R. 6 E. contd

chs. scattering timber and brush.

71.00 ascend gradually 20 ft.

81.29 at this point the original standard cor to sec. 31 and 32, bns. S. 24 lks dist, therefore the true course to it is S. 89° 39' E.

I find a malpais stone firmly set and properly marked and witnessed as described in the field notes furnished by Sweeney General, except that a Pinon 20 ins diam. bns. N. 77° 03' W. 50 lks dist, properly marked.

Land, rolling.

Soil, rocky, 2<sup>o</sup> and 3<sup>o</sup> rate

Timber, scattering pine and

## Irish Standard Parallel North

chs. pinon and juniper brush.

East on a random line  
along S. bdy of sec. 32.

Var.  $120^{\circ} 28'$  East.

at this point the variation has decreased on account of local attraction.

37.00 Descend gradually 30 ft.

40.62 at this point the original standard  $1/4$  sec.

cons. br. S. 17 lks. dist.

therefore the true course to it is S.  $89^{\circ} 45'$  E.

I find a malpais stone

$12 \times 10 \times 8$  ins. firmly set and properly marked and witnessed as des.



through Range 6 East. (ctd)

described in the field notes  
furnished by the Sur-  
veyor General.

Thence I run from  
standard  $1/4$  sec. cor.

East on a random line

Var.  $10^{\circ} 46'$  East.

at this point the variation  
has decreased on account  
of local attraction

49.90 a Pine 20 ins. diam. on  
line, which I mark with  
2 notches on E. and W. sides

51.00 Foot of descent.

56.58 A Pine 40 ins. diam on  
line, which I mark with  
2 notches on E. and W. sides

56.75 Wash, 5 ft. deep, course N.W.

68.00 ascent gradually, 25 ft.

## Sixth Standard Parallel N.

chs  
 74.00 Top of ascent.  
 81.30 At this point the original standard cor to sec 32. and 33, bro. S. 23 lbs. dit, therefore the true course to it is  $S 89^{\circ} 40' E$ .

I find a malpais stone firmly set, but not marked, and a small mound of stone.

I re-establish this standard sec. cor. by marking the stone S.C. on N. face, and with 4 notches on E. and 2 notches on W. face; raised a mound of stone  $1\frac{1}{2}$  ft high, 3 ft.

str. R. 6 East (contd)

dis. base, alongside.

Land, rolling.

Soil, 25 and 30 rate.

Timber, scattering pine  
with cedar and piñon brush.

East on a random line  
along the S. bdy of sec. 33.

Var.  $14^{\circ} 14'$  East.

Over rolling land.

at this point the variation  
has increased on account  
of local attraction.

19.70 Wash, 4 ft deep, course N.

40.72 at this point the original  
standard  $1/4$  sec. cor. bis.  
b. 46 lks. dist. therefore the  
true course to it is  
S.  $89^{\circ} 21'$  E.

## Sixth Standard Parallel N.

obs I find a sandstone  
 20 x 20 x 9 ins. firmly  
 set and properly marked  
 and witnessed as des-  
 cribed in the field notes  
 furnished by the Sur-  
 veyor General, except that  
 a Roman 8 ins. diam. has  
 N. 70° 11' E. 97 lbs dist.  
 properly marked.

Thence I run from  
 Standard 1/4 sec. cor.

East on a random line

Var. 16° 51' East.

at this point the var-  
 iation has increased on  
 account of local attrac-  
 tion

41.00 Enter thick pine



## through Range 6 East (contd)

chs	
42.00	Wash, 6 ft. deep, course N.W. ascend 30 ft.
46.00	Top of ascent
47.00	Leave timber.
65.00	Enter timber.
66.50	ascend 30 ft.
70.00	Top of ascent. Descent 30 ft.
79.64	Foot of descent.
81.64	at this point the original standard cor. to sec. 33 and 34 hrs. N. 40 E. dist. therefore the true course to it is N. 89° 26' E. I find a malpais stone 10 x 8 x 7 ins. firmly set and properly marked as described in the field notes furnished by the

## Fifth Standard Parallel

chs. Surveyor General.

I raised a mark of  
stones  $1\frac{1}{2}$  ft high, 3 ft.  
base, alongside, from  
which

a Pinon 8 ins. diam.

hrs. N.  $47^{\circ} 06'$  E. 72 lks.

dist. marked T. 25 N. R. 6 E.

S. 34 B.T.

Land, broken out rolling.

Soil, stony, 25 and 35 rate.

Timber, Pine with cedar  
and pinon bush.

Thick pine timber.

22.64 chains.

at this standard cor. to  
secs. 33 and 34 I set off  
 $140.57\frac{1}{2}$  ft. on the decl. arc,

## N. through Range 6 East (contd)

cho and at 11<sup>h</sup> 57<sup>m</sup>. a. m., l. m. t.  
 I observe the Sun on the  
 Meridian; the resulting  
 lat. is  $35^{\circ}28'N$ . the true  
 lat. nearly.

Thence I run  
 East on a random line  
 along the E. bdy of sec. 34.  
 Var.  $14^{\circ}00'$  East.  
 at this point the var-  
 iation has decreased on  
 account of local attrac-  
 tion.

over calling land.

75 a Pinon 8 ins. diam. on  
 line, which I mark with  
 2 notches on E. and W. sides.

40.61 The original standard 1/4

## Sixth Standard Parallel N.

chs base, alongside, from  
which

a Pinon 8 ins diam. chs.

S.  $39^{\circ}50'$  W. 31 chs. dist.

marked T. 24 N. R. 6 E. S. 4 B.T.

9 remark tree

T. 25 N. R. 6 E. S. C. S. 34-35 B.T.

Land, rolling and broken.

Soil, stony, 2d and 3rd rate

No timber; cedar and  
pinon bush.

Dense brush, 6 chains.

East on a random line  
along S. bdy of Sec. 35.

Var.  $17^{\circ}42'$  East.

at this point the var-  
iation increases on ac-  
count of local attraction.



through Range 6 East (cont'd)

cho. over rolling land, through scattering brush.

40.50 at this point the original standard  $\frac{1}{4}$  sec. cor. has.

S. 69 lbs. dist. therefore the true course to it is

S.  $89^{\circ} 01' E$ .

I find a malpais stone  $30 \times 20 \times 18$  ins. firmly set marked  $\frac{1}{4}$  on N. face,

I mark stone S. C. and raise a monument of stone  $1\frac{1}{2}$  ft. high,  $3\frac{1}{2}$  ft. base alongside, from which a Pine 36 ins. diam. has.

N.  $26^{\circ} 28' E$ . 56 lbs. dist. marked S. C.  $\frac{1}{4}$  S. O. T.

Thence I run from standard  $\frac{1}{4}$  sec. cor. E. on a

## Sixth Standard Parallel

chs. sec. cor. has N. 12 lbs. dist  
therefore the true course  
to it is N.  $89^{\circ}50'$  E.

I find a post lying on  
the ground, properly  
marked. I re-establish  
the cor. by setting the  
post, with marked stone  
1 ft in the ground in  
the original position,  
dug pits  $18 \times 18 \times 12$  ins.

E. and W. of post,  $5\frac{1}{2}$  ft.  
dist, and raised a  
mound of earth  $2\frac{1}{2}$  ft  
high,  $5\frac{1}{2}$  ft. base, around  
post.

Thence I run from the  
Standard  $\frac{1}{4}$  sec. cor.

East on a random line

## N. through R. 6 East (contd)

cho ever ralling land.

49.14 a post lying on the ground properly marked for closing cor. to Tps. 24 N. Rs. 6 & 7 E.

I reset post with marker stone, in its original position, dug pits  $18 \times 18 \times 12$  ins. S, E., and W. of post  $5\frac{1}{2}$  ft. dist. and raised a mound of earth  $2\frac{1}{2}$  ft. high,  $5\frac{1}{2}$  ft base around post.

52.20 Road from Williams to Grand Cañon, course N.W. and S. E.

80.94 at this point the original standard cor. to Tps. 25 N. Rs. 6 and 7 E., bns. S. 23 lks. dist. therefore the true

Sixth Stand. Par. N. thro R 6 E. contd

ch. course to it is  $S. 89^{\circ} 40' E.$   
 I find a malpais stone  
 $24 \times 20 \times 14$  ins. firmly set  
 and properly marked and  
 witnessed as described  
 in the field notes fur-  
 nished by the Surveyor  
 General, except no mark  
 of B. C.

I mark stone B. C. on N.  
 face.

Land, rolling.

Soil, sandy, 25 and 35 rate.  
 No timber, scattering  
 juniper and cedar bush.

April 30, 1894.

At the Standard cor. to  
 Tps. 25 N. R. 6 and 9 E.



Sixth Stand Bar. N. str R 7 East.

cho as heretofore described  
 in lat.  $35^{\circ} 28' N$ , long.  $112^{\circ} 39'$   
 W. April 30, 1894, at 8<sup>h</sup> 30<sup>m</sup>.  
 p.m. l.m.t. I take an  
 observation on Polaris in  
 accordance with instruc-  
 tions in the Manual  
 and find the magnetic  
 bearing to be  $N. 18^{\circ} 07' W$ .  
 I drive a picket on the  
 line thus found 5 cho.  
 north of the corner.

Local mean time of observation  
 April 30<sup>th</sup> 8<sup>h</sup> 30<sup>m</sup>

d. m. t. U. S. Polaris, Apr. 10,	23. 89. 4
Reduction. 14 days $3.93 \times 14 = 53.0$ Sec	<u>53. 4</u>
L. M. 2. U. S. Polaris. 29,	22. 44. 4

which taken from time  
 of observation, leaves hour  
 angle of Polaris

$9^{\circ} + 5.6$

## Sixth Standard Parallel N.

Obs. Azimuth of Polaris for  
Lat.  $35^{\circ} 28' N.$  0.507

N. end of needle 18° 07' E

The difference is the  
variation 17° 17' E.

I lay off the azimuth to the mer. and mark for  
true Merid. line & found by drawing a circle  
May 1. at 6 <sup>to</sup> 40 m a. m. l. of am

m. t. I take the magnetic  
bearing of the line estab-  
lished last night and  
find it to be N.  $18^{\circ} 09' E.$   
and the variation to be  
N.  $17^{\circ} 53' East$ . The

mean variation is  $17^{\circ} 49' E.$

at 7 a. m. l. m. t. I set  
off  $35^{\circ} 28' N.$  on the lat.  
arc,  $15^{\circ} 12'$  on the  
decl. arc and determine  
a true meridian with  
the solar. The solar

through range 7 East (contd)

the apparatus by p. m. and a. m. observations defines positions for true meridians practically same as established by the Polaris observations, therefore I conclude that the adjustments of the instrument are satisfactory.

X From the standard corner to Sps. 25 N. Rs. 6 and 7 E. as hereinbefore described I run

East on a random line along the S. bdy of sec. 31.

Var.  $17049'$  East.

over rolling land, through scattering brush, pinon



## Sixth Standard Parallel N.

cho and cedar.

#0. 46 at this point the original standard  $\frac{1}{4}$  sec. cor. brs. I 68 lks. dist. therefore the true bearing to it is S. 89° 02' E.

I find a maepris stone firmly set and properly marked and witnessed as described in the field notes furnished by the Surveyor General.

Thence I run from the standard  $\frac{1}{4}$  sec. cor. East on a random line Descend 100 ft.

#5. 46 wash, 4 ft deep, course N.

#5. 75 Road from Flagstaff to Grand Canon, course N W + S E.



## through Range 7 East (contd)

ch

49.00 ascent, southwest slope of a round eroded mountain, about 500 ft.

57.00 Enter dense cedar and pinon brush.

80.70 Top of ascent on south slope of mountain.

From this point the original standard is to sec. 31 and 32, bas. S. 50 lbs. dist., therefore the true course to it is S. 89° 17' E.

I find a red volcanic stone 12 x 12 x 8 ins. firmly set and properly marked as described in the field notes furnished by the Surveyor General.  
from which,

## Smith Standard Parallel N.

chs a cedar 8 ins. diam.  
 chs. b.  $65^{\circ}12' E$ . 21 chs. dist.  
 marked S.C. B.T.

9 re. mark tree

T. 25 N. R. 7 E. S. C. S. 31-32 B.T.

Land, rolling and mountainous.

Soil, stony, 20 and 30' rate.

No timber, 23 chs. brush-

dense brush and mountainous land 31 chs.

East on a random line  
 along S. bdy of sec. 32.

Var.  $130^{\circ}20' East$ .

At this point the variation  
 has decreased on account  
 of local attraction.

over south slope of  
 mountain, through

## through Range 7 East (contd)

chs. dense bush.

8.00 Descend 400 ft.

36.00 Leave dense bush.

Enter open park

38.00 Foot of descent.

40.95 From this point the original standard  $\frac{1}{4}$  sec. cor. has S. 1.29 chs. dist, therefore the true bearing to it is S.  $88^{\circ} 09'$  E.

I find a post properly marked lying on the ground.

I re-establish this cor. by resetting post, with marked stone, 1 ft in the ground, in its original position, dug pits  $18 \times 18 \times 12$  ins. E. and W. of post,

## Sixth Standard Parallel N.

- chs. 5 1/2 ft. dist, and raised a mound of earth 2 ft. high, 5 ft. base, around post, from which a Pinon 10 ins. diameter, S. 52° 09' E, 11 lks. dist marks S. C. 1/4 S. B.T.
- Thence from Standard 1/4 sec. 200. 9 run East on a random line
- 41.00 Enter dense brush. ascent 50 ft.
- 51.00 Top of ridge, course N. W. Descend 30 ft.
- 57.00 Ravine, 10 ft. deep, course N. W. ascent W. slope of mountain, about 600 ft.
- 63.00 Leave dense brush, enter scattering brush.



## through R. to East (contd)

chs.

67.00 Enter dense brush.

78.50 Top of mountain course N & S.  
Descent 30 ft.81.25 at this point the original  
standard cor. to res. 32  
and 33, hrs. N. 49 E. lks. dist,  
therefore the true course  
to it is. N. 89° 18' E.

I find a red volcanic  
stone, firmly set and  
properly marked as des-  
cribed in the field  
notes furnished by the  
Surveyor General, from  
which

a Pinon 10 ins. diam. hrs.  
N. 29° 31' E. 13 lks. dist,  
marked T. 25 N. R. 7. E. S. 33 D. T.

a Pinon 8 ins. diam. hrs.

## Sixth Standard Parallel N.

chs N. 20° 29' W. 29 lks. dist  
marked T. 25 N. R. 7 E. S. 328 T.  
Land, mountainous.

Gail, stony, 2<sup>d</sup>, 3<sup>d</sup> and 4<sup>th</sup> rate.  
No timber, cedar and pinon  
brush.

Dense brush and moun-  
tainous land, 81.25 chs.

East on a random line  
along b. body of sec. 33.

Var. 13° 31' East.

Over mountainous land  
Descent 400 ft.

20.00 Foot of descent, ravine  
6 ft deep, course S.  
ascend 500 ft.

38.50 Top of mountain, course N + S.  
Descent 50 ft.

## through Range 7 East (cont)

Chs.

39.41

at this point the original standard  $\frac{1}{4}$  sec. cor. No. 5.42 lks. dist, therefore the true course to it is  $S 89^{\circ} 24' E$ .

I find a malpais stone firmly set and properly marked as described in the field notes furnished by the Surveyor General, except no mark of S. C.

I mark stone S. C. on N. face, from which

a Pinon 12 ins. diam. No. N.  $22^{\circ} 19' E$ . 63 lks. dist. marked S. C.  $\frac{1}{4}$  S. D. T.

Thence from the standard  $\frac{1}{4}$  sec. cor I run East on a random line descent 600 ft.

## Sixth Standard Parallel N.

- chs.  
57.00 Canon 6 chs. wide, 60 ft.  
deep, course S. E.
- 79.82 The original standard cor.  
to sec. 33 and 34.
- I find a post lying on  
the ground, properly  
marked, with faint traces  
of mound and pits.
- I re-establish cor. by setting  
post, with marked stone,  
1 ft in the ground, dug  
pits 18 x 18 x 12 ins. N, E,  
and W. of post, 5 1/2 ft. dist.  
and raised a mound of  
earth 2 ft high, 5 ft. base  
around post, from which  
a cedar 6 ins. diam. has  
N. 50° 09' W. 12 chs. dist.  
marked T. 25 N. R. 7 E. S. 33 B. T.



through R. 7 East (contd)

cho. a cedar 8 ins. diam. tree.  
 N.  $55^{\circ} 09'$  E. 41 lbs. dist,  
 marked T. 25 N. R. 7 E. S. 34 B.T.  
 Lands, mountainous.  
 Soil, stony, 3<sup>rd</sup> and 4<sup>th</sup> rate.  
 No timber, juniper and cedar  
 brush  
 mountainous and dense brush  
 79.82 chains.

at this cor. I observe the  
 Sun on the meridian and  
 find the lat. to be  $35^{\circ} 28' N$ ,  
 and the variation of my  
 instrument to be  $120 31'$  East.

Thence I run  
 East on a random line  
 along S. bdy sec. 34.

## Sixth Standard Parallel

chs

Var.  $12^{\circ} 31'$  East.

at this point the variation has increased on account of local attraction.

over broken land, through dense brush.

35.00

Foot of descent

Thence over rolling land.

39.95

at this point the original standard  $\frac{1}{4}$  sec. cor. has.

N.  $35^{\circ}$  E. dist., therefore

the true course to it is

N.  $89^{\circ} 30'$  E.

I find a post properly marked lying on the ground.

I re. establish corner by resetting post, with marked stone 12 ins. in the

## N. through R 7 East (cont'd)

cls. ground, dug pits  $18 \times 18 \times 12$   
 ins. E. and W. of post,  $5\frac{1}{2}$   
 ft. dist, and raised a  
 mound of earth  $2\frac{1}{2}$  ft. high,  
 $3\frac{1}{2}$  ft. base, around post,  
 from which

a Pinon 8 ins diam. has  
 $\angle 58^{\circ} 56' E$ , 19 lbs. dist. marked  
 S.C.  $\frac{1}{4}$  S.B.T.

Thence from standard

$\frac{1}{4}$  sec cor. 9 min

East on a random line

41.50 Road from Tuba City to  
 Flagstaff, course N.E. & S.W.

48.00 Leave dense brush, enter  
 scattering brush.

80.39 at this point the original  
 standard cor. to sec. 34  
 and 35 has. N. 7 lbs. dist.

## Sixth Standard Parallel

cho. therefore the true course  
to it is N. 90.54 E.

I find a post properly  
marked lying on the ground  
I reset post with marked  
stone 12 ins. in the ground  
in its original position  
dug pits 18x18x12 ins. N, E,  
and W. of post, 5 1/2 ft. dist.  
and raised a mound of  
earth 2 ft high, 5 1/2 ft  
base, around post, from  
which

a Pinon 6 ins. diam. bus.  
N. 35° 06' W. 10 lks. dist.

marked T. 25 N. R. 7 E. S. 34 S. T.

Land, ralling.

Core, stony, 25 and 35 rate.

No timber, pinon and



## N. through R. 7 East (contd)

chs. cedar bush,  
Dense bush, 48 chs.

East on a random line  
along S. ldy of sec. 35.

Var.  $16^{\circ}$  or ' East.

at this point the variation has increased on account of local attraction.

over gently rolling land.

40.144 at this point the original standard  $\frac{1}{4}$  sec. cor. has

$\$ 15$  lbs. dist. therefore the true course to it is  $\$ 89^{\circ} 47'$  E.

I find a post properly marked lying on the ground.

## Birth Standard Parallel

- chs. I reset post with marked stone 12 ins. in the ground in its original position, despite  $18 \times 19 \times 12$  ins. E. and W. of post,  $5\frac{1}{2}$  ft. dist. and raised a mound of earth 2 ft. high 5 ft. base around post. Thence from standard  $\frac{1}{4}$  sec cor., I run East on a random line  
 Var.  $13^{\circ} 0.1' E$
- At this point the variation has decreased on account of local attraction.
- 80.83 at this point the original standard cor. to sec. 35 and 36 hrs. N. 47 lks. dist.

N. through R. 7 East (contd)

do therefore the true course  
to it is N.  $89^{\circ} 20'$  E.

I find a masonry stone  
 $20 \times 16 \times 12$  ins. firmly  
set and properly marked  
and witnessed as de-  
scribed in the field notes  
furnished by the Surveyor  
General;

Land, rolling.

Soil, sandy, 2<sup>d</sup> and 3<sup>d</sup> rate.  
No timber, scattering cedar  
and pinon brush.

East on a random line  
along the S. bdy of sec. 36.

Var.  $15^{\circ} 05'$  East

at this point the variation  
has decreased on account

## Sixth Standard Parallel N.

chs. of local attraction.  
over rolling land.

40.55 at this point the original  
standard  $\frac{1}{4}$  sec. cor. bears  
S. 20 E. dist, therefore the  
true course to it is  
S. 89° 43' E.

I find a malpais stone  
16 x 14 x 10 ins. firmly set  
and properly marked and  
witnessed as described  
in the field notes fur-  
nished by the Surveyor  
General.

Thence from the stand-  
ard  $\frac{1}{4}$  sec. cor. I run  
East on a random line  
Var. 13° 31' East  
at this point the var-



through R. 7 East (cont'd)

obs. iation has decreased on account of local attraction

71.10 Road, course S. E. and N. W.

81.15 at this point the original standard cor. to Sps. 25

N. Rs. 7 and 8 E. hrs. N. 37

lbs. dist, therefore the true course to it is

N.  $89^{\circ} 28' E$ .

I find a malpais stone  $20 \times 10 \times 10$  ins. firmly set and properly marked and witnessed as described in the field notes furnished by the Surveyor General Land, rolling.

Soil, sandy, 25 and 30 rate.

No timber.

May 1, 1894.

Exch Stand B&N, str 2-7 East etc

### General Description.

This line runs over broken mountainous land in the western part, and over an open level or rolling prairie in the eastern part. The township on the south is rolling and covered with brush and some pine timber. It contains no permanent water.

The township on the North is rough, and covered with volcanic hills and mountains, but contains little brush, and no timber or water. There are no settlers in either township.

Charles E Perkins

U.S. Deputy Surveyor <sup>and</sup> Compassman

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U. S. Surveyor-General's Office,

TUCSON, A. T., July 13<sup>th</sup> 1895.

*Retacement*  
The foregoing Field Notes of the <sup>^</sup> *Surveys* of  
the 6<sup>th</sup> Standard  
Parallel North thro  
Rs 3. 4. 5. 6 and 7  
East of the Gila and Salt River Meridian  
in Arizona executed by  
F. W. Oury  
U. S. Deputy Surveyor, under his contract dated  
June 21<sup>st</sup> 1893  
having been critically examined, the necessary correc-  
tions and explanations made, the said Field Notes and  
the surveys they describe are hereby approved.

Geo. H. Manning

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