

BOOK 1440

No. 1440

1440

*Exteriors*

4-671

**FIELD NOTES**

GENERAL LAND OFFICE.

N. V. boundary Sp: 25. S. 4. 5. 6.  
Survey Survey S. by Sp: 22. S. R. 7. C.  
with South by Sp: 22. S. R. 7. C.

No. 1440

BOOK 1440

*T. 22 N. R. 7 E.*

6	5	4	3 <sup>59</sup>	2	1
7	8	9	10	11	12
<i>13</i>	<i>17</i>	<i>16</i>	<i>15</i>	<i>14</i>	<i>13</i>
19	20	21	22	23	24
30	29	28	27	26	25
31	32 <sup>40</sup>	33 <sup>37</sup>	34	35 <sup>53</sup>	36 <sup>31</sup>

BOOK 1440

<i>19</i>	<i>21</i>	<i>22</i>	<i>23</i>	<i>28</i>	<i>31</i>
6	5	4	3	2	1 <sup>16</sup>
7	8	9	10	<i>11</i>	<i>12</i>
<i>13</i>	<i>17</i>	<i>16</i>	<i>15</i>	<i>14</i>	<i>13</i>
15	20	21	22	23	24 <sup>11</sup>
30	29	28	27	26	25 <sup>11</sup>
31	32	33	34	35	36 <sup>11</sup>

*T. 25 N. R. 3 W.*

No. 1440

Field Notes  
of the survey of the North &  
East Boundary  
of  
Township No. 25 N. R. 3 W.  
of the  
Gila and Salt River Meridian  
in the  
Territory of Arizona  
as surveyed by  
Francis W. Cury  
U. S. Deputy Surveyor  
Charles E. Perkins  
Compassman & U. S. Dep. Surveyor  
Under contract No 31  
Dated June 21, 1893

Survey commenced July 8, 1894  
Survey completed July 9<sup>th</sup> 1894.

4.

pages 2  
and 3  
are blank.

BOOK 1440

East Boundary of

Survey commenced  
July 8<sup>th</sup> 1894 with a W. T. D.  
E. Gurley solar transit.

At the standard cor. to  
Tps. 25 N. R. 2 & 3 W. I re-  
verify the adjustments  
of the transit and find  
them correct.

I set off  $22^{\circ} 26' N.$  on  
the decl. arc, and at 12 h.  
57 m. p. m. l. m. t. observe  
the sun on the meridian;  
the resulting lat. is  $35^{\circ} 28'$   
N.: the true latitude  
nearly.

I begin at the Standard  
cor. to Tps. 25 N. R. 2 & 3  
W. as hereinbefore  
described.

T. 25 N. R. 3 W.

Chains July 9<sup>th</sup>. At 7 a.m. l.m.t.  
 I set off  $35^{\circ}28'$  N on the lat.  
 are.  $22^{\circ}21'$  N on the decl. are.  
 and determine a true  
 meridian with the  
 solar, the resulting mean  
 variation of the needle is  
 $14^{\circ}53' E$ .

Thence I run

North bet. sec. 31 & 36

Var.  $14^{\circ}53' E$ .

Over rolling land.

40.00 Set a sandstone  $18 \times 14 \times 10$   
 ins. 12 ins. in the ground  
 for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$   
 on W. face and raised a  
 mound of stone  $1\frac{1}{2}$  ft.  
 high 2 ft. base alongside  
 from which.

## East Boundary of

Chains A cedar 8 ins. diam. brs.  
N.  $76^{\circ}30'$  E. 97 lks. dist.  
marked  $\frac{1}{4}$  A. B. J.

A cedar 12 ins. diam.  
brs. N.  $47^{\circ}$  E. 145 lks. dist.  
marked  $\frac{1}{4}$  A. B. J.

80.00 Set a limestone  $16 \times 14 \times 8$   
ins. 11 ins. in the ground  
for cor to secs. 25, 30,  
31 & 36 marked with 5  
notches on N. and 1 notch  
on S. Edges and  
raised a mound of  
stone  $1\frac{1}{2}$  ft. high 2 ft.  
base, alongside, from which

A cedar 16 ins. diam.  
brs. N.  $61^{\circ}$  E. 49 lks. dist.  
marked T. 25 N. R. 2 W.  
S. 30 B. J.

## T. 25 N. R. 3 W. = Contd.

Chains No other trees within limits  
 Land rolling  
 Soil gravelly 2<sup>nd</sup> and  
 3<sup>rd</sup> rate.  
 No timber scattering  
 cedar brush

North bet. sec. 25 and 30  
 Var.  $14^{\circ} 53' E$ .

Over rolling land.

40.00 Set a post 3 ft. long  
 3 ins. square 12 ins. in  
 the ground for  $\frac{1}{4}$  sec. cor.  
 marked  $\frac{1}{4}$  on W. face,  
 dug pits 18+18+12 ins.  
 N. vs. of post  $5\frac{1}{2}$  ft. dist.  
 and raised a mound  
 of earth  $1\frac{1}{2}$  ft. high  
 $3\frac{1}{2}$  ft. base around post

## East Boundary of

Chains from which

A cedar 6 ins. diam.  
brs. N.  $53^{\circ} 15'$  W. 227 lks.  
dist. marked  $\frac{1}{4}$  S. B. J.

A cedar 27 ins. diam.  
brs. N.  $42^{\circ} 30'$  E. 186  
lks. dist. marked  $\frac{1}{4}$  S. B. J.

80.00 Set a post 4 ft. long 4 ins.  
square 12 ins in the  
ground for cov to secs.  
19, 24, 25 & 30 marked

T. 25 N. S. 19 on NE.

R. 2 W. S. 30 on NE.

R. 3 W. S. 25 on SW. and  
T. 24 on N. W. faces, with  
4 notches on N. and 2  
notches on S. edges, dug  
pits,  $18 \times 18 \times 12$  ins. in  
each sec.  $5\frac{1}{2}$  ft. dist.



## T. 25 N. R. 3 W. Contd.

chains and raised a mound  
of earth 2 ft. high  $4\frac{1}{2}$   
ft. base around post  
from which

A cedar 8 ins. diam.  
brs. S.  $51^{\circ}15'$  E. 185 lks.  
dist. marked T. 25 N. R.  
2 W. S. 30 B. J.

A cedar 16 ins. diam. brs.  
S.  $69^{\circ}30'$  W. 79 lks. dist.  
marked T. 25 N. R. 3 W.  
S. 25 B. J.

A cedar 20 ins. diam. brs  
S.  $21^{\circ}$  W. 87 lks. dist. marked  
T. 25 N. R. 3 W. S. 25 B. J.

A cedar 19 ins. diam  
brs. N.  $73^{\circ}30'$  W. 107 lks.  
dist. marked T. 25 N. R.  
3 W. S. 24 B. J.

## East Boundary of

Chain Land rolling

Soil stony 2<sup>nd</sup> & 3<sup>d</sup> rate.

Timber scattering cedar

North bet. Secs. 19 &amp; 24

Var.  $14^{\circ}53'$  E.

Over rolling land

40.00 Set a post 3 ft long 3  
 ins square 12 ins. in  
 the ground for  $\frac{1}{4}$  sec.  
 cor. marked  $\frac{1}{4}$ A. on W.  
 face, dug pits 18x18x12  
 ins. Nts. of post  $5\frac{1}{2}$  ft.  
 dist. and raised a mound  
 of earth  $1\frac{1}{2}$  ft high  
 $3\frac{1}{2}$  ft. base around  
 post.

Descend 40 ft.

73.00 Foot of descent.

T. 25 N.R. 3 W. = contd.

Chains  
80.00 Set a limestone  $20 \times 14 \times 10$   
ins. 15 ins. in the ground  
for cov to secs. 13, 18, 19 & 24  
marked with 3 notches  
on N. & S edges, dug  
pits  $18 \times 18 \times 12$  ins. in each  
sec.  $5 \frac{1}{2}$  ft. dist. and  
raised a mound of earth  
2 ft. high  $4 \frac{1}{2}$  ft. base  
around post.  
Land rolling  
Soil stony 2<sup>nd</sup> & 3<sup>rd</sup> rate.  
No timber

North bet. secs. 13 and 18  
Var  $14^{\circ} 43' E$ .

Over rolling land

3.00 Wash 6 ft. deep course E.

40.00 Set a limestone  $18 \times 16 \times 8$

## East Boundary of

Chains ins. 12 ins. in the  
ground for  $\frac{1}{4}$  Sec. cor.  
marked  $\frac{1}{4}$  on W. face  
dug pits  $18 \times 18 \times 12$  ins.  
N. & S of Stone  $5 \frac{1}{2}$  ft.  
dist. and raised a  
mound of earth  $1 \frac{1}{2}$  ft.  
high,  $3 \frac{1}{2}$  ft. base along  
side

8000 Set a limestone  $14 \times 10 \times 8$   
ins. 9 ins. in the ground  
for cor. to sees. 7, 12, 13 & 18  
marked with 2 notches  
on N. and 4 notches on S  
Edges, and raised a  
mound of stone  $1 \frac{1}{2}$  ft.  
high, 2 ft. base along-  
side, from which  
A cedar 12 ins. diam.

T. 25 NR. 3 W. = Conto

Chains brs S.  $63^{\circ}30'$  W. 97 lks. dist.  
marked T. 25 NR. 3 W.  
S. 13 B. J.

A cedar 10 ins. diam.  
brs S.  $21^{\circ}$  W. 106 lks. dist.  
marked T. 25 NR. 3 W. S.  
13 B. J.

A cedar 12 ins. diam. brs  
S.  $51^{\circ}$  E. 283 lks. dist. marked  
T. 25 NR. 2 W. S. 18 B. J.

No other trees within limits

Land rolling.

Soil stony 3<sup>rd</sup> rate.

No timber some scatter-  
ing cedar brush.

North bet secs. 7 + 12

Var  $14^{\circ}43'$  E.

Over rolling land.

## East Boundary of

Chains. Ascend gradually, along  
E. slope of hill 100 ft.

20.00 Top of ascent, and descend  
85 ft.

36.00 Foot.

37.00 Road from Williams  
to Howards ranch  
Course N. W. & S. E.

40.00 Set a post 3 ft. long 3 ins  
square 12 ins. in the  
ground for 1/4 sec. cor.  
marked 1/4 S on W. face  
long pins 10x18x1/2 ins. hole of post 5/16 in diam  
and raised a mound of  
earth 1 1/2 ft. high, 3 1/2 ft.  
base around post. from  
which

A cedar 8 ins diam  
brs. N. 53° E. 87 lbs. dist.  
marked 1/4 S. B. T.

## T. 25 NR. 3 W. Contd.

Chains A cedar 10 ins. diam  
 brs. S.  $67^{\circ}30'E$ . 93 lks. dist.  
 marked  $1/4$  S. B. J.

8000 Set a post 4 ft. long 4 ins  
 square with marked stone  
 1 1/2 ins. in the ground  
 for cor to secs 1, 6, 7 and 12  
 marked

T. 25 N. S. 6 on N. E.

R. 2 W. S. 7 on S. E.

R. 3 W. S. 12 on S. W. and  
 S. 1 on N. W. faces, with  
 1 notch on N. and 5

notches on S. edges, dug pits  
 18x18x12 ins. in each sec.

5 1/2 ft. dist. and raised  
 a mound of earth 3 ft.  
 high 4 1/2 ft. base around  
 post.

## East Boundary of

Chains Land rolling

Soil stony 2<sup>nd</sup> + 3<sup>rd</sup> rate

No timber some scattering brush

North bet. secs. 1 &amp; 6

Var.  $14^{\circ} 53' E.$ 

Over nearly level land

40.00 Set a sandstone  $14 \times 10 \times 10$ 

ins. qns. in the ground

for  $\frac{1}{4}$  Sec. Co. marked $\frac{1}{4}$  on W. face and raiseda mound of stone  $1\frac{1}{2}$ 

ft. high, 2 ft. base

alongside.

Pit impracticable

80.00 Set a post  $4\frac{1}{2}$  ft. long

4 ins. square with

marked stone 17 ins



T. 25 N. R. 3 W. Contd.

Chains in the ground for cor  
to T. 25 + 26 N. R's 2  
+ 3 W. marked.

T. 26 N. S. 31 on N.E.

R. 2 W. S. 6 on S.E.

T. 25 N. S. 1 on S.W. and

R. 3 W. S. 36 on N.W. faces,  
with 6 notches on each  
edge, dug pits 24x18x12  
ins. crosswise on each  
line N.S.E. + W. of post  
6 ft. dist. and raised a  
mound of earth 2 ft.  
high 5 ft. base around  
post.

Land rolling.

Soil gravelly in rate.

No timber.

## North Boundary of

Chains. At 8 a.m. July 9<sup>th</sup> 1894  
the magnetic bearing  
of line bet. secs. 1 and 6  
is  $S. 14^{\circ} 43' E.$

From the cor to Tps.  
25 + 26 N. R. 2 + 3 W.

I run west on a random  
line between said town-  
ship the variation of  
my compass being  
 $14^{\circ} 43' E.$  I set temporary  
half mile and mile cor-  
ners at exact 40 and  
80 chains, and find the  
township line to be 5  
miles 79.35 chs. long  
and the falling to be  
54 chs. N of cor to Tps.  
25 + 26 N. R. 3 + 4 W.

✓ N

T. 25 N. R. 3 W. Contd

chains. The correction for the true line will therefore be 9 lks. S. and 0.65 chs. East per mile and its course will be  $N 89^{\circ} 56' E$ .

From the cor. to Tps. 25 + 26 N. R's. 3 + 4 W. as hereinbefore described I run

$N 89^{\circ} 56' E$ , on a true line bet secs. 6 + 31

Var. 14 43 E.

Over rolling land

39.35 Set a malpais stone

18 + 14 + 12 ins. 12 ins.

in the ground for  $\frac{1}{4}$  sec. cor marked  $\frac{1}{4}$  on N.

face and raised a

North Boundary of  
Chain mound of stone  $1\frac{1}{2}$  ft.  
high 2 ft. base along-  
side.

Pits impracticable

79.35 Set a Malpais stone  $20 \times$   
 $16 \times 16$  ins. 13 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  $1\frac{1}{2}$  ft.  
high 2 ft. base alongside  
from which

A cedar 10 ins. diam  
Trs. N. 13' W. 298 lbs. dist.  
Marked T. 26 N.A. 3 W. J.  
31 B.S.

A cedar 14 ins. diam.

T. 25 - N. R. 3 W. - Contd.

Chains. brs. N.  $85^{\circ} 15'$  W. 300 lks.  
dist. marked T. 26 N. R.  
3 W. S. 31 B.S.

No other trees within  
limits.

Land rolling

Soil stony 3<sup>rd</sup> rate.

No timber, some  
scattering cedar brush

N.  $89^{\circ} 56'$  E on a true  
line bet. secs. 5 + 32

Var.  $14^{\circ} 43'$  E

Over nearly level land.

40.00 Set a malpais stone  
16x10x10 ins. 11 ins. in  
the ground for 1/4 sec. cor.  
marked 1/4 on N. face and  
raised a mound of stone

North Boundary of  
Chains.  $1\frac{1}{2}$  ft high 2 ft. base  
alongside.

Pits impracticable.

80.00 Set a malpais stone  
 $17 \times 15 \times 11$  ins. 12 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  $1\frac{1}{2}$  ft. high, 7 ft. base  
alongside. Pits impracticable.  
Land nearly level.  
Soil stony 3<sup>rd</sup> rate.  
No timber

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N.  $89^{\circ} 56'$  E on a true  
line bet. secs. 4 + 33  
Var.  $14^{\circ} 43'$  E.

## T. 25 N. R. 3 W. Contd.

chains Over nearly level land.

40.00 Set a malpais stone  $20 \times 18 \times 18$  ins. 15 ins. in the ground for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  on N. face and raised a mound of stone  $1\frac{1}{2}$  ft. high 2 ft. base alongside, from which.

a cedar 6 ins. diam  
br. N.  $88^{\circ} 15'$  W. 23 lks.  
dist. marked  $\frac{1}{4}$  S. & T.

A cedar 7 ins. diam  
br. N.  $78^{\circ} 30'$  E. 101 lks.  
dist. marked  $\frac{1}{4}$  S. & T.

80.00 Set a malpais  $18 \times 18 \times 16$  ins. 12 ins. in the ground for cor to secs. 3, 4, 33 & 34 marked with

North Boundary of  
Chains. 3 notches in E. and W.  
edges, and raised a  
mound of stone  $1\frac{1}{2}$  ft.  
high, 2 ft. base along-  
side, from which.

A cedar 8 ins. diam.  
brs. S  $38^{\circ}$  W. 731 lks. dist.  
marked T. 9v N. R. 3 W. S.  
4 B. G.

A cedar 10 ins. diam.  
brs. S  $78^{\circ} 15'$  E. 160 lks.  
dist. marked T. 9v N. R.  
3 W. S. 3 B. G.

No other trees within  
limits.

Land nearly level  
Soil rocky 4<sup>th</sup> rate.  
No timber, some  
scattering cedar brush



## T. 25 N. R. 3 W. Contd.

Chains N.  $89^{\circ} 56' E$ . on a true line  
bet. secs. 3 + 34.

Var.  $14^{\circ} 43' E$ .

Over rolling land.

26.10 Descend rocky bluff  
750 ft. through dense  
brush & cedar timber.

31.40 Foot of descent.

40.00 Set a malpais stone  
19 x 15 x 11 ins. 14 ins. in  
the ground for  $\frac{1}{4}$  sec.  
cot. marked  $\frac{1}{4}$  on N.

face and raised a mound  
of stone  $1\frac{1}{2}$  ft. high 2 ft.  
base, alongside, from  
which

A cedar 6 ins. diam. bts.  
S. 13 W. 32 lks. dist. marked  
 $\frac{1}{4}$  S. B.S.

## North Boundary of

- Chains. A cedar 8 ins. diam. brs.  
 N. 50' W. 37 lks. dist. marked  
 1/4 A. B. T.
- 51.50 Ascend 750 ft.
- 66.00 Top of ridge. Course N.  
 E. + S. W.
- Descend 300 ft.
- 72.20 Foot of descent.
- 80.00 Set a malpais 15+13+17  
 ins. 10 ins. in the  
 ground for cor to sec.  
 2, 3, 34 and 35 marked  
 with 2 notches on E.  
 and 4 notches on W.  
 edges, dug pits 18+18+17  
 ins. in each sec. 5 1/2 ft.  
 dist. and raised a mound  
 of earth 2 ft. high 4 1/2 ft.  
 base alongside, from which

## T. 25 N. R. 3 W. cont'd.

Chains A cedar 30 ins. diam.  
 brs. N. 13° E. 47 lks. dist.  
 marked T. 26 N. R. 3 W. S.  
 35 B.G.

A cedar 40 ins. diam.  
 brs. ~~N.~~ 61° E. 73 lks. dist.  
 marked T. 25 N. R. 3 W. S.  
 2 B.G.

A cedar 10 ins. diam.  
 brs. S. 7° 30' E. 87 lks. dist.  
 marked T. 25 N. R. 3 W.  
 T. 7 B.G.

A cedar 70 ins. diam.  
 brs. N. 83° 15' W. 131 lks  
 dist. marked T. 26 N. R.  
 3 W. S. 34 B.G.

Land rolling and  
 mountainous  
 Soil rocky 4<sup>th</sup> rate.

North Boundary of  
Chain. Timber, cedar and piñon  
mountainous or timbered  
land. 53.90 chs.

N.  $89^{\circ} 56'$  E. on a true  
line bet sec. 2 and 35  
Var.  $14^{\circ} 43'$  E

Over rolling land,  
through cedar and piñon.

5.20 Road, from Howard's  
ranch course N. + S.

6.10 Ascend 70 ft.

9.20 Top of ascent.

Descend 80 ft.

10.70 Foot of descent,

40.00 Set a sandstone  $17 \times 10 \times 10$   
ins. 8 ins. in the ground  
for  $1/4$  sec. cor. marked  
 $1/4$  on N. face dug pits

## T. 25 N. R. 3 W. Contd.

Chains, 18+18x12 ins. E. and W. of stone  $5\frac{1}{2}$  ft. dist. and raised a mound of earth  $1\frac{1}{2}$  ft. high 2 ft. base alongside, from which.

A cedar 20 ins. diam. brs. S.  $35^{\circ} 30'$  W. 49 lks. dist. marked  $\frac{1}{4}$  A. B. J.

A cedar 10 ins. diam. brs. S.  $43^{\circ} 45'$  E. 53 lks. dist. marked  $\frac{1}{4}$  A. B. J.

50.00 Ascend 400 ft.

52.60 Top of ascent

Descend 45 ft.

54.00 Foot of descent

80.00 Set a sandstone 16x12x10 ins. 11 ins in the ground for cov. to Secs. 1, 2, 3, 5 and

## North Boundary of

Chains 36 marked with 1 notch on E. and 5 notches on W. edges, dug pits 18x18x12 ins. in sec. 5 1/2 ft dist. and raised a mound of earth 2 ft. high, 4 1/2 ft. base, along-side, from which

A cedar 10 ins. diam. brs. N. 21° 30' E 113 lks. dist. marked T. 26 N. R. 3 W. S.

36 B.G.

No other trees within limits.

Land rolling

Soil stony 3<sup>rd</sup> rate

Timber scattering

Cedar and pinon.

## T. 25 N. R. 3 W. Contd.

Chains. N 89.56 E. on a true  
line bet. secos. 1 + 36  
Var.  $14^{\circ} 43' E.$

Over nearly level land

40.00 Set a sandstone  $14 \times 10 \times 10$   
ins. given in the  
ground for  $1/4$  sec. cov.  
marked  $1/4$  on N. face,  
dug pits  $18 \times 18 \times 12$  ins.  
E. & W. of stone  $5 \frac{1}{2}$  ft.  
dist. and raised a  
mound of earth  $1 \frac{1}{2}$  ft.  
high  $3 \frac{1}{2}$  ft. base along-  
side.

80.00 The cov. to Tps. 25 + 26  
N. R. 2 + 3 W.  
Land nearly level  
soil stony 3<sup>rd</sup> rate.  
No timber.

Chains.

July 9<sup>th</sup> 1894.



Satitudes, departures, and closing errors						
Line designated	True bearing	Dist.	Satitudes		Departures	
			N.	S.	E.	W.
W. bdy.	North	480.00	480.00			
N. bdy.	N. 89° 56' E.	479.35	.56		479.35	
E. bdy.	South	480.00		480.00		
S. bdy.	West.	480.00				480.00
Convergency Totals			480.56	480.00	479.87	480.00
Error in lat.			480.00		479.87	479.87
Error in dep.			.56	Error in dep.		.13

### General Description

This township lies on the S. slope of the San Francisco mountains is heavily timbered and well watered and produces excellent grass. There is some farming land well improved. There are several settlers in this township.

Charles E Perkins

Compassman and

U.S. Deputy Surveyor

Field Notes  
of the survey of the  
North Exterior Bdy. &  
Fractional S. Exterior Bdys.  
of  
Tp. No. 22 North R. 7 East.  
of the  
Gila and Salt River Base Meridian  
in the  
Territory of Arizona  
as surveyed by  
Francis W. Cury  
U. S. Deputy Surveyor  
Chas. E. Perkins  
Compassman & U. S. Dep. Surveyor  
Under his Contract No 31  
Dated June 21 1893

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Survey commenced Aug 6 1894  
Survey completed Aug 9<sup>th</sup> 1894

Re-survey of a portion of the S.

Survey commenced  
Aug 6<sup>th</sup> 1894. with a  
W. & L. E. Gurley solar  
transit.

(By a preliminary ex-  
amination of the S.  
boundary of this town-  
ship, I find that the  $\frac{1}{4}$   
sec. cov. bet secs. 5 and 32,  
the sec. cov. to secs. 4, 5, 32  
and 33 and the  $\frac{1}{4}$  sec. cov.  
bet secs. 4 and 33 have been  
entirely obliterated by the  
reclamation of the  
land for agricultural  
purposes. Therefore in  
order to restore them  
at proportionate distances,  
it becomes necessary

Bdy. T22 N. R. 7 E

to resurvey that portion of the line bet the cor. to secs. 5, 6, 31 and 32, and the cor to secs. 3, 4, 33 and 34)

At the corner to secs. 3, 4, 33 and 34 on the S. boundary of the township I verify the adjustments of my transit and find them correct I set off  $16^{\circ} 34'$  N. on the decl. arc. and at 12 h. 57 m. 27 sec. h. m. l. m. t. observe the sun on the meridian; the resulting lat is  $35^{\circ} 13'$  N. the true latitude nearly.

I observe polaris at

# Re-survey of a portion of the

its eastern elongation  
at 10 & 19<sup>m</sup> p.m. l.m.t  
and find its magnetic  
bearing to be.  $13^{\circ}34' W$ ,

N. end of needle  $13^{\circ}34' E$

The azimuth is  $1^{\circ}32'$

The sum is the var.  $15^{\circ}06' E$

I lay off the azimuth  
to the W. and mark  
the true meridian, as  
determined by driving  
a picket 5 chains N. of  
the cov.

Aug 7<sup>th</sup> at <sup>7 a.m.</sup> I set off  
 $35^{\circ}13'$  on the hor. arc.  
 $16^{\circ}22'$  on the decl. arc.  
and determine a true  
meridian with the  
solar; the resulting

S. Bdy T. 22 N. R. 7 E - Contd.

Variation of the needle  
 $15^{\circ} 09' E$  therefore the  
mean variation will be  
 $15^{\circ} 06' E$  which agrees  
practically with that  
found by the Polaris  
observations last night,  
and conclude that the  
adjustments of my  
instrument are satisfac-  
tory

Then I run

West on a random  
line bet secs. 4 and 33  
and 5 and 32. I set  
temporary half mile and  
mile cors. at each 40  
and 80 chains and at  
2 miles and 7 links

Re-survey of a portion of the  
intersect N. & S. line 3  
lks. N. of cor. to secs. 5, 6,  
31 and 32

The correction for the  
true line will there-  
fore be  $1\frac{1}{2}$  lks. N. and  
 $3\frac{1}{2}$  lks. W. per mile, and  
its course will be  
N.  $89^{\circ} 59'$  E.

At the cor. to secs. 5, 6, 31  
and 32 I find a post  
partially destroyed by  
fire, standing in its  
original position  
surrounded by a mound  
of stone, the marks on  
the witness trees  
partially destroyed  
by action of time.



S. Bdy. T. 22 N. R. 7 E. - Contd

I obliterate all traces of old cov. and reestablish it as follows

Set a sandstone,  $16 \times 14 \times 8$  ins. 11 ins in the ground for cov 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 7 ft. high 3 ft. base alongside, from which,

A pine 10 ins. diam. brs.  
N.  $38^{\circ} 26'$  E. 96 lks. dist.  
marked T. 22 N. R. 7 E. S.  
32 B.G.

A pine 18 ins. diam. brs.  
S.  $73^{\circ} 0'$  E. 41 lks. dist.  
marked T. 21 N. R. 7 E. S.

## Resurvey of a portion of the

5 B.G.

A pine 16 ins. diam  
 br. S.  $62^{\circ} 41'$  W. 98 lks. dist.  
 marked T. 71-N. R. 7 E. S. 6  
 B.G.

A pine 12 ins. diam.  
 bears N.  $43^{\circ} 53'$  W. 99 lks.  
 dist. marked T. 72-N. R.  
 4 E. S. 31 B.G.

Thence I run

N.  $89^{\circ} 59'$  E. on a true  
 line bet. sees. 5 and 32

Var.  $15^{\circ} 06'$  E.

Over broken heavily  
 timbered land.

11.10 Descent 100 ft. to

17.50 Foot descent, leave  
 heavily timbered  
 land, bears N. 45.

## S. Bdy. T. 22 N. R. 7 E - Contd.

Chains Thence over level land.

- 18.45 Road from Flagstaff to Grand Canon bears N. W. and S.  $89^{\circ}$  E.
- 19.00 Wormfence, 700. E + N. W. line continues along fence
- 40.02 Set a granite stone 14 + 14 + 12 ins. 11 ins in the ground for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  on N. face dug pits 18 x 18 x 12 ins. E. and W. of stone  $5\frac{1}{2}$  ft. dist and raised a mound of stone covered with earth 3 ft. high  $5\frac{1}{2}$  ft. base alongside.
- 48.00 Leave fence bears N.  $89^{\circ}$  E.
- 54.00 Road from Flagstaff to

## Resurvey of a portion of the

Chains Grand Canon bears  
E. and S.  $89^{\circ}$  W.

80.03 At the cor. of Mc. Millans  
pasture fence, the fence bns.  
S. and E. from Sec. cor

Set a granite stone  
18x18x18x12 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, dig  
pits 18x18x12 ins.  
in each section, <sup>5 1/2 ft. dist.</sup> and  
raised a mound of  
stone covered with  
earth 3 ft. high, 6 ft.  
base alongside,  
From this corner

S. Bdy T. 22 N. R. 7 E. - Contd.

Fishers ranch house  
bears N.  $57^{\circ}$  W. about  
10 chs. dist.

Land level and  
rolling.

Soil sandy 1<sup>st</sup> rate  
and stony 3<sup>rd</sup> rate.

Timber pine,  
Heavily timbered  
land 17.50 chains.

N.  $89^{\circ} 59'$  E. on a true line  
bet. Secs. 4 and 33

Var  $15^{\circ} 06'$  E.

Over rolling land through  
scattering timber.

Along north side of fence,  
which Trs. East.

40.02 Set a malpais stone 12x12x10

48. Resurvey of a portion of the  
S. Bdy. T. 22 N. R. 7 E. = Contd.

Chains. ins. 8 ins in the ground  
for  $1/4$  sec. cov. marked  
 $1/4$  on N. face and raised  
a mound of stone  $1/2$   
ft. high 3 ft. base along-  
side.

BOOK 1440

Pits impracticable

76.00 Leave fence bears S. E.  
and W.

Ascend 50 ft.

78.00 Top ascent, thence over  
broken land.

80.04 The cov to sec. 3, 4, 33  
and 34, which is a  
post firmly set and  
properly marked and  
witnessed as described  
in the field notes fur-  
nished by the Surveyor

S. Bdy T. 22 N. R. 7 E =

Chains General

Land rolling & broken

Soil stony 3<sup>rd</sup> rate

Timber pine and scrub  
oak

In accordance with  
my special instructions page 12  
From the cor. to secs. 2, 3,  
34 and 35, which is a  
post firmly set and  
properly marked and  
witnessed as described  
in the field notes fur-  
nished by the Surveyor  
General.

I run

East on a random line  
bet. Sec. 2 and 35 and

Survey of the S. Bdy  
Chains. sec. 1 and 36

Var.  $15^{\circ}06'E$

I set temporary half  
mile and mile corners  
at each 40 and 80 chains  
and at 1 mile and 40  
chains I find it im-  
possible on account of  
the very rough, broken +  
precipitous character of  
the S.E. point of the San  
Francisco Range to extend  
this line any further  
East. I therefore establish  
the  $\frac{1}{4}$  cor. permanently, as follows  
Set a granite stone  
 $16 \times 16 \times 10$  ins. 11 ins. in the  
ground for  $\frac{1}{4}$  sec. cor.  
marked 4 on N. face and



T. 22 N. R. 7 E = contd.

hains raised a mound of stone  
2 ft. high 3 ft. base along-  
side from which

A fir 8 ins diam. brs.  
N.  $43^{\circ}11'$  W. 98 lks. dist.  
marked  $\frac{1}{4}$  A. B. T.

A fir 12 ins diam. bears  
S.  $39^{\circ}47'$  E. 61 lks. dist.  
marked  $\frac{1}{4}$  A. B. T.

Thence I run

West on a true line

bet. sec. 1 + 36

Var.  $15^{\circ}06'$  E

1.00 Top of rocky spur

## Survey of the S. Bdy

Chains bears S. + N.W. & descend  
S.W. slope of spur.

26.00 Foot of descent 400 ft.  
below top of spur &  
ascend 300 feet to

40.00 Top of ridge sloping  
South from high Mt. on  
North.

Set a malpais stone 18x16  
+ 10 ins. 12 ins. in the ground  
for cov to side. 1, 2, 35 and 36  
marked with 1 notch on  
E. and 5 notches on W.

edges and raised a  
mound of stone  $2\frac{1}{2}$  ft.  
high 3 ft. base along-  
side, from which

a pine 10 in diam br. N.  $79^{\circ} 27' 6''$   
104 2nd dist marked T. 22 N. R. 76

A. 36. 73. T.

## T. 22 N. R. 7 E. = Contd.

Chains A pine 12 in diam. brs.  $S. 73^{\circ} 14' E$

56 ms. dist. marked T. 21 N. R. 7 E. S. 1 B. T.

A fir 10 ins diam. brs  
 $S. 16^{\circ} 41' W. 51$  lks. dist.

marked T. 21 N. R. 7 E. S.  
 2 B. T.

A pine 10 ins. diam.

brs.  $N. 87^{\circ} 22' W. 26$  lks.

dist. marked T. 22 N. R.

7 E. S. 35 B. T.

Land mountainous

Soil stony 3<sup>rd</sup> rate.

Timber, pine.

Mountainous or

heavily timbered land.

40 chains.

West on a true line bet.

sec. 2 and 35

54. Survey of the BOOK 1440

S. Bdy. T. 22 NR. 7 E = contd.

Chains. Var.  $15^{\circ} 06' E$ .

Over mountainous heavily  
timbered land.

Descend 1000 ft.

35.00 Canon 200 ft. deep. 5 chains  
wide bears N.E. & S.W.

40.00 Set a granite stone  $18 \times$   
 $16 \times 8$  ins. 12 ins. in the ground,  
for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  on  
N. face and raised a mound  
of stone 2 ft. high 3 ft. base  
alongside from which

A pine 12 ins. diam  
bears S.  $31^{\circ} 11' E$ .

96 lks. dist. marked  
 $\frac{1}{4}$  S. B. T.

A juniper 8 ins. diam.  
brs. N.  $41^{\circ} 41' E$ . 21 lks.  
dist. marked  $\frac{1}{4}$  S. B. T.

Survey of the  
S. 13 by T. 22 N. R. 7 E. - Cont'd

Chains.

56.00 Foot of descent thence  
over rolling land.

69.00 Ravine 8 ft. deep, course  
S. 21° W.

80.00 The cor. to secs. 2, 3, 34 + 35  
Land mountainous and  
rolling

Soil Stony 3<sup>rd</sup> rate.

Timber pine.

Mountainous or heavily  
timbered land. 80 chs.

August 8, 1894

Fractional N. Bay of  
T. 22 N.R. 7 E. - - -

Chains At the cor. to Tps. 22  
and 23 N.R's 7 and 8 E.  
which is a post firmly  
set and properly  
marked and witnessed  
as described in the  
field notes furnished  
by the Surveyor  
General.

I verify the adjust-  
ments of my transit  
and find them correct.  
At 7 h. <sup>alt 95</sup> a. m. l. m. t. I set  
off  $35^{\circ} 18' N.$  on the lat. arc.  
 $16^{\circ} 05'$  on the decl. arc.  
determine a true  
meridian with the  
solar; the resulting  
Va. is  $15^{\circ} 09' E.$  therefore

Fractional N. Bdy  
of T. 22 N.R. 7 E. Contd

hains the mean Va. is  $15^{\circ}06'$  E.

Then I run W. on a  
random line bet. Tps.  
22 and 23 N.R. 7 E. I set  
temporary half mile  
and mile corners at  
each 40 and 80 chains,  
and at 3 miles and 7  
chains intersect an  
impassable canon I  
return to the temporary  
3 mile cor. and establish  
a permanent cor. as  
follows.

A flat Syenite rock  
in place, I marked  
with a cross (+) at  
exact point for cor to  
secs. 3, 4, 33 and 34

## Fractional N. Bdy of A.

Chains with 3 notches on E. and W. of cross and raised a mound of stone 2 ft. high 3 ft. base alongside, from which

A fir 14 ins. diam.  
 bears N.  $3^{\circ}21'$  E. 42  
 lks. dist. marked T. 23  
 N.R. 7 E. S. 34 B.T.

A fir 18 ins. diam.  
 bears S.  $49^{\circ}31'$  E. 32 lks.  
 dist. marked T. 22 N.R.  
 7 E. Sec. 3 B.T.

A fir 16 ins. diam. brs.  
 S.  $47^{\circ}33'$  W. 41 lks. dist.  
 marked T. 22 N.R. 7  
 E. Sec. 4 B.T.

A fir 16 ins. diam



22 N.R. 7 East = Cor. 10

Chains bears N.  $21^{\circ}41'W$ . 24 lks.  
 dist. marked J. 23 N.R.  
 7 E. 33 B. J.

Thence True  
 East on a true line  
 bet. Secs. 3 and 34  
 Var.  $15^{\circ}06'E$

Over rough and broken  
 S. slope of one of the San  
 Francisco Mountain  
 peaks, heavily timbered  
 Descend 500 ft. to

31.00 Foot of descent in bed of  
 ravine course S.

Ascend 40 ft. to

40.00 Set a syenite stone  $15 \times 14$   
 $\times 10$  ins. 10 ins in the  
 ground for  $\frac{1}{4}$  Sec.  
 Cor. marked  $\frac{1}{4}$  on

60.

Fractional N. Bdy of  
T. 24 N.R. 7 East - Contd

Chains N. face and raised a  
mound of stone 2 ft.  
high 3 ft. base  
alongside, from which  
A fir 15 ins. diam. br.  
N.  $89^{\circ}41'$  W. 18 lks. dist.  
marked  $\frac{1}{4}$  S. B.D.

A fir 21 ins diam. br.  
S.  $71^{\circ}14'$  W. 26 lks. dist.  
marked  $\frac{1}{4}$  S. B.D.

50.00 Descend 600 ft. to

80.00 Set a Syenite stone 1646x8  
ins. 11 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  $1\frac{1}{2}$  ft. high