

Book No. 1.

BOOK 847

Tr 17 S. R 25 E.

South and West Bays.

847

BOOK 847

4-978

**FIELD NOTES**  
**GENERAL LAND OFFICE.**

No. 847

Field Notes  
of the survey of the  
West and South  
boundaries of  
Township 17 South,  
Range 25 East.  
— of the —  
Gila and Salt River  
Base and Meridian  
in the  
Territory of Arizona  
as surveyed by  
Philip Cortzen  
U. S. Deputy Surveyor  
Under his Contract No. 43  
Dated February 11<sup>th</sup> 1897  
Survey commenced July 15<sup>th</sup> 1897  
Survey completed July 17<sup>th</sup> 1897

1 6

12 7

13 18

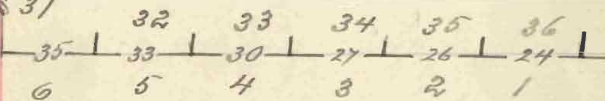
24 19

25 30

36 31

"Index"

T. 17 S. R. 25 E.



West boundary of  
chains

Survey commenced July 15, 1897 and executed with a Young and Sons light mountain transit No 5609 with a Smiths Solar attachment.

The instrument was examined, tested on the true meridian at Tucson and found correct and was approved by the Surveyor General for Arizona, April 30, 1897. I begin at cor. of townships 16 and 17 South, ranges 24 and 25 East, which is a pine post 4 ins. sq., 1 ft above

J. 17 S. R. 25 E.

chains

ground, marked and witnessed as described by the surveyor general.

Latitude  $32^{\circ}$  N.

Longitude  $109^{\circ}50'$  W.

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

At  $3^{\text{h}} 15^{\text{m}}$  P. M. local mean time, I set off  $32^{\circ}$  N. on the lat. arc.

Chains

West boundary of  
 $21^{\circ} 23' N.$  on the decl.  
 arc; and mark the  
 true meridian thus  
 determined with the  
 solar, by a cross on  
 a stone firmly set in  
 the ground 5 chs. N. of  
 the instrument

July 15<sup>th</sup> 1897

At 11<sup>h</sup> 47<sup>m</sup> P. M. l.m.t.,  
 July 15<sup>th</sup>. I observe  
 Polaris at eastern elonga-  
 tion, in accordance  
 with instructions in  
 the manual, and mark  
 the line thus determined  
 by a tack driven in  
 a wooden plug set

F. 17 S. R. 25 E. - Continued

chains

in the ground, 5 chs. north of my station.

At 7<sup>h</sup> 10<sup>m</sup> A. M. L. M. T., July 16<sup>th</sup>, I lay off the azimuth of Polaris,  $10^{\circ} 27' 8''$ , to the west and mark the true meridian thus determined, by cutting a small groove in the stone <sup>see</sup> yesterday, on which the true meridian falls 0.14 ins. west of the mark determined by the solar.

At 8<sup>h</sup> 50<sup>m</sup> A. M., <sup>L. M. T.</sup> I set off  $32^{\circ} N$ , on the lat. arc,  $21^{\circ} 6' N$ . on the decl. arc, and mark

## West boundary of

c. c. Chains

the true meridian determined with the solar, by a cross on the stone already set 5 chs. N. of my station; this mark falls 0.19 ins. west of the true meridian established by the Polaris observation. The solar apparatus, by p. m. and a. m. observations, defines positions for true meridians, about 0'8" east, and 0'11" west of the meridian established by the Polaris observation; therefore, I conclude that the adjustments



## T 17 S. R. 25 E. - Continued

chains

of the instrument are satisfactory. The magnetic bearing of the true meridian at 8.50 A. M., is  $12^{\circ}17'W$ ; the angle thus determined reduced by the table, page 100, gives the mean mag. decl.  $12^{\circ}15'E$ .

From cor. to Tps.

16 and 17 S., Rs. 24 and 25 E., I run

South, bet. secs. 1 and 6  
Over level land

31.50 Road from Pearce to  
Cachise Station, bears  
N. W. and S. E.

40.00 Set a redwood post,

West boundary of

Chains

3 ft. long, 4 ins. sq.,  
with marked stone  
24 ins. in the ground  
for  $\frac{1}{4}$  sec. cor., marked  
 $\frac{1}{4}$  S. on W. face; dig  
pits 18 x 18 x 12 ins. N. and  
S. of post, 3 ft. dist.,  
and raise a mound  
of earth  $3\frac{1}{2}$  ft. base,  
 $1\frac{1}{2}$  ft. high, W. of cor.

67.00 Road from Pearce  
to Cache Station  
bears N.W. and S.E.

80.00 Set a redwood post,  
3 ft. long, 4 ins. sq.,  
with marked stone,  
24 ins., in the ground  
for cor. of secs. 1, 6, 7<sup>and</sup> 12,  
marked

## T. 17 S. R. 25 E. - Continued

Chains

T. 17 S. S. 6 on N. E.,  
 R. 25 E. S. 7 on S. E.,  
 S. 12 on S. W. and  
 R. 24 E. S. 1 on N. W.  
 faces; with 1 notch  
 on N. and 5 notches  
 on S. edges; dig pits  
 18 x 18 x 12 ins. in each  
 sec., 5 1/2 ft. dist., and  
 raise a mound of  
 earth, 4 ft. base, 2 ft.  
 high, W. of cor.

Land level

Soil, loam, 2<sup>nd</sup> rate

No timber

S. bet. secs 7 and 12

Over level land

40.00 Set a redwood post

West boundary of

Chains

3 ft. long, 4 ins. sq.,  
with marked stone  
24 ins. in the ground  
for  $\frac{1}{4}$  sec. cor., marked  
 $\frac{1}{4}$  S. on W. face; dig  
pits 18 x 18 x 12 ins., N. and  
S. of post, 3 ft. dist.;  
and raise a mound  
of earth, 3  $\frac{1}{2}$  ft. base,  
1  $\frac{1}{2}$  ft. high, W. of cor.

80.00 Set a redwood post  
3 ft. long, 4 ins. sq.,  
with marked stone  
24 ins. in the ground  
for cor. of secs. 7, 12, 13  $\frac{3}{4}$  18,  
marked

T. 17 S. S. 7 on N.E.,  
R. 25 E. S. 18 on S.E.,  
S. 13 on S.W. and

T. 17 S. R. 25 E. - Continued  
chains

R. 24 E. S. 12 on S. W. <sup>N.</sup>  
faces, with 2 notches  
on N. and 4 notches  
on S. edges, dig pits  
18 x 18 x 12 ins., in each  
sec. 5 1/2 ft. dist., and  
raise a mound of  
earth 4 ft. base, 2  
ft. high W. of cov.

Land level

Soil, loam; 2<sup>nd</sup> rate

No timber

South let. sec. 13<sup>2nd</sup> 18

Over level land

31.86 Telephone line from  
Pearce to Cache

Station, bears N 23 1/4° W 2<sup>nd</sup> of S 23 1/4° E

40.00 Set a redwood post  
3 ft. long,

## West boundary of

Chains

4 ins. sq., with marked  
stone 24 ins. in the  
ground for  $\frac{1}{4}$  sec.  
cor., marked  $\frac{1}{4}$  S. on  
W. face; dig pits 18x18x12  
ins. N. and S. of post  
3 ft. dist., and raise  
a mound of earth  
 $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high  
W. of cor.

48.00 Road from Pearce to  
Cachise Station, bears  
N.W. and S.E.

80.00 Set a lime stone 16x8x6  
ins., 11 ins. in the ground  
for cor. of sees. 13, 18, 19  
and 24, marked with  
3 notches on N and  
S. edges; dig pits

## T. 17 S. R. 25 E. - Continued

Chains

18x18x12 ins., in each  
 sec., 5½ ft. dist.; and  
 raise a mound of  
 earth 4 ft. base, 2 ft  
 high W. of cor  
 Land level  
 Soil, loam; 2<sup>nd</sup> rate  
 No timber

I bet secs. 19 and 24

Over level land

40.00 Set a redwood post  
 3 ft. long, 4 ins. sq.,  
 with marked stone  
 24 ins., in the ground  
 for ¼ sec. cor. marked  
 ¼ S. on W. face; dig  
 pits 18x18x12 ins. N.  
 and S. <sup>of cor</sup> 3 ft. dist.;

West boundary of

Chains

and raise a mound  
of earth  $3\frac{1}{2}$  ft. base,  
 $1\frac{1}{2}$  ft. high W. of cor.  
80.00 Set a redwood  
post 3 ft. long, 4  
ins. sq., with marked  
stone 24 ins. in the  
ground for cor. of  
secs. 19, 24, 25 and 30,  
marked

T17 S. S. 19 on N.E.,  
R. 25 E., S. 30 on S.E.,  
S. 25 on S.W., and  
R. 24 E. S. 24 on N.W.  
faces, with 4 notches  
on N. and 2 notches  
on S. edges, dig  
pits  $18 \times 18 \times 12$  ins. in  
each sec.,  $5\frac{1}{2}$  ft. dist.,



## T. 17 S. R. 25 E - Continued

chains

and raise a mound  
of earth 4 ft. base,  
2 ft. high, W. of cor.  
Land of level  
Soil, loam; 2<sup>nd</sup> rate  
No timber

South bet. sees. 25<sup>2</sup> & 30  
Over level land

40.00 Set a redwood post,  
3 ft. long, 4 ins. sq.,  
with marked stone  
24 ins., in the ground  
for  $\frac{1}{4}$  sec. cor., marked  
 $\frac{1}{4}$  S. on W. face;  
dig pits 18 x 18 x 12 ins.,  
N. and S. of post,  
3 ft. dist., and raise  
a mound of earth

## West boundary of

chains

$3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high  
W. of cor.

80.00 Set a redwood post  
3 ft. long, 4 ins. sq.,  
with marked stone  
24 ins. in the ground  
for cor. of secs 25, 30,  
31 and 36, marked  
T. 17 S. S. 30 on N.E.,  
R. 25 E. S. 31 on S.E.,  
S. 36 on S.W., and  
R. 24 E. S. 25 on N.W.  
faces, with 5 notches  
on N. and 1 notch on  
S. edges; dig pits  
 $18 \times 18 \times 12$  ins. in each  
sec.,  $5\frac{1}{2}$  ft. <sup>dist.</sup> and raise  
a mound of earth 4 ft.  
base, 2 ft. high W. of cor.

## T. 17 S. R. 25 E. - Continued

chains

Land level

Soil, loam; 2<sup>nd</sup> rate

No timber

South bet. sees 31<sup>2d</sup> & 36

Over level land

40.00 Set a redwood post,  
3 ft. long, 4 ins., sq.,  
with marked stone  
24 ins., in the ground  
for  $\frac{1}{4}$  sec. cor., marked  
 $\frac{1}{4}$  S on W. face; dig  
pits 18 x 18 x 12 ins., N.  
and S. of post 3 ft.  
dist.; and raise a  
mound of earth  $3\frac{1}{2}$  ft.  
base,  $1\frac{1}{2}$  ft. high, W  
of cor.

43.10 Road from Pearce

Chains

West boundary of  
to Cachise Station,  
bears E. and W.

80.00 Set a lime stone  
16 x 8 x 6 ins., 11 ins in  
the ground for cor.  
of Tps. 17 and 18 S. R's  
24 and 25 E., marked  
with 6 notches on each  
edge; dig pits 24 x 24 x  
12 ins., on each line  
N. E., and W., 4 ft.,  
and S. of stone, 8 ft. dist.,  
and raise a mound  
of earth, 5 ft. base, 2 1/2  
ft. high, S. of cor.

Land level  
Soil, loam, 2<sup>nd</sup> rate  
No timber

July 16. 1897

## T. 17 S. R. 25 E. - Concluded

Chains

## General Description

T. 17 S. R. 24 E. is mostly level land; the western portion is mountainous & covered with oak timber. There is some fine grazing and agricultural land within this township therefore it should be subdivided.

Philip Costgen  
U. S. Deputy Surveyor

## South boundary of

Chains

July 17: At 9<sup>h</sup> 15<sup>m</sup> a.m.,  
 l. m. t., I set off 31°55'~~W~~  
 on the lat. arc, 21°5' N.  
 on the decl. arc, and  
 determine a true meridian  
 with the solar, at the cor.  
 of Tps. 17 and 18 S, Rs  
 24 and 25 E.

Thence I run East on  
 a random line, along  
 the S. bdy. of T. 17 S.  
 R. 25 E., setting temp.  
 1/4 sec. and sec. cors  
 at intervals of 40.00<sup>and 80.00</sup> chs.,  
 and at 476.93 chs., inter-  
 sect the 2<sup>nd</sup> Guide Meridian  
 East  
 N. 51 chs. S. of cor. of  
 Tps. 17 and 18 S. Rs.  
 24 and 25 E., which is  
 described as being

T. 17 S. R. 25 E. -

chain

a mound of earth,  
with deposit, and  
stake in pit, I find  
however a sand stone  $18 \times 7 \times 6$  in  
properly marked  
lying on the ground  
and a mound  $2\frac{1}{2}$  ft  
base,  $1\frac{1}{2}$  ft high W.  
of cor., I set the  
stone firmly in the  
ground and rebuild  
the mound of stone.

× The falling answers  
to a correction of  $0^{\circ}11'$ ,  
or 25 lks. N. per mile  
counting from the  
S. E. cor. of the Twp.;  
therefore I run  
 $S 89^{\circ}49' W.$ , bet sees  $1\frac{2}{3}/36$

# South boundary of

Chains

- Over gently rolling land through scattering undergrowth.
- 40.00 Set a redwood post, 3 ft. long, 4 ins. sq., with marked stone, 24 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  S. on N. face; dig pits 18 x 18 x 12 ins. E. and W. of post, 3 ft. dist; and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high N. of cor.
- 59.00 Leave scattering undergrowth, bears N. and S.
- 80.00 Set a redwood post 3 ft long, 4 ins. sq. with marked stone, 24 ins. in the ground



## T. 17 S. R. 25 E. - Continued

Chains

for cor. of secs. 1, 2  
 35 and 36, marked  
 T. 17 S. S. 36 on N.E.,  
 R. 25 E. S. 1 on S.E.  
 T. 18 S. S. 2 on S.W.  
 and S. 35 on N.W.  
 faces; with 1 notch  
 on E., and 5 notches  
 on W. edges; dig pits  
 18 x 18 x 12 ins. in each  
 sec. 5½ ft. dist.; and  
 raise a mound of  
 earth 4 ft. base, 2 ft.  
 high W. of cor.  
 Land rolling  
 Soil gravelly loam; 2<sup>nd</sup> rate  
 No timber  
 Scattering sage under ground

## South boundary of

Chains

S $89^{\circ}49'$  W, bet secs.  
2 and 35

Over level land

7.88 Road from Soldier Hole  
to Sulphur Springs  
bears N. N. W. and S. S. E.40.00 Set a granite stone  
16 x 8 x 6 ins., 11 ins. in  
the ground for  $\frac{1}{4}$   
sec. cor., marked  
 $\frac{1}{4}$  on N. face; dig  
pits 18 x 18 x 12 ins., E. andW. of stone <sup>33 ft. dist</sup> and raise a  
mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft.  
high <sup>at cor.</sup>80.00 Set a redwood post,  
3 ft. long, 4 ins. sq.,  
with marked stone  
24 ins. in the ground,  
for cor. of secs. 2, 3,  
34 and 35, marked

## T. 17 S. R. 25 E. - Continued

Chams

T. 17 S. S. 35 on N.E.,  
 R. 25 E. S. 2 on S.E.,  
 T. 18 S. S. 3 on S.W., and  
 S. 34 on N.W., faces,  
 with 2 notches on E.,  
 and 4 notches on W.  
 edges; dig pits 18x18x12  
 ins. in each sec. 5½  
 ft. dist.; and raise  
 a mound of earth  
 4 ft. base, 2 ft. high,  
 W. of cor.

Stock dale, Mining Camp  
 bears N 78½° W.

Land level

Soil, gravelly loam; 2<sup>nd</sup> rate  
 No timber.

S 90 49' W, bet sees  
 33 and 334

South boundary of

Chains

Over level land

- 25.50 Small knoll, 30 ft high  
bears 5 chs. S.
- 28.00 Road to Wind Mill  
bears  $N 85^{\circ} E$ . and  $S 85^{\circ} W$
- 39.50 Road bears N. Easterly  
and S. Westerly
- 40.00 Set a lime stone  
 $18 \times 10 \times 8$  ins., 12 ins. in  
the ground, for  $\frac{1}{4}$   
sec. cor., marked  
 $\frac{1}{4}$  on N. face; dig pits  
 $18 \times 18 \times 12$  ins., E. and W.  
of stone, 3 ft. dist, and  
raise a mound of  
earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft  
high N. of cor. - Stockdale  
<sup>Mining Camp</sup> bears  $N 40^{\circ} W$ .
- 55.85 Road, bears N.E. and S.W.
- 56.25 Road to Stockdale

T. 17 S. R. 25 E. - Continued

chains

- bears N. E. and S. W.
- 56.50 Ascend S. Slope of hill
- 56.70 Old stone cabin, 2.50 chs. S. of line.
- 64.50 Top of S. Slope of hill
- 68.50 Descend
- 80.00 Set a lime stone. 20 x 10 x 10 ins., 15 ins. in the ground for cor. of secs. 3, 4, 33<sup>2d</sup>/<sub>34</sub>, marked with 3 notches on E. and W. edges; and raise a mound of stone 4 ft. base, 3 ft. high, W. of cor. Pits impracticable
- Land level and mountains

South boundary of

Chains

Soil, gravelly loam and  
stony; 2<sup>nd</sup> and 4<sup>th</sup> rate  
No timber

Mountainous land <sup>23.50</sup>chs.

S 89° 49' W. bet. secs.

4 and 33, descending

Over mountainous land

4.00 Foot of slope and  
enter level land

40.00 Set a redwood post

3 ft. long, 4 ins. sq.,

with marked stone

24 ins in the ground

for  $\frac{1}{4}$  sec. cor., marked

$\frac{1}{4}$  S. on N. face;

Dig pits 18 x 18 x 12 ins.

E. and W. of post <sup>3 ft. dist.</sup>

and raise a mound

## T. 17 S. R. 25 E. - Continued

of earth  $3\frac{1}{2}$  ft. base,  
 $1\frac{1}{2}$  ft. high N. of cor.

A well bears  $S. 10^{\circ} E.$   
 2 houses (together) bear  $S. 45\frac{1}{2}^{\circ} E.$

Smoke stack of Pearce  
 Mill bears  $S. 70^{\circ} W.$

Monument on highest  
 point of hill, where  
 the Pearce Mines are  
 located bears  $S. 60\frac{1}{2}^{\circ} W.$

Cabin at the foot of  
 W. slope of Stockdale  
 hills bears  $N. 36^{\circ} E.$

66.00 Road, bears  $N. W. \frac{2}{3}$  of  $S. E.$

77.00 Road to Wind Mill  
 bears  $N. W.$  and  $S. E.$

80.00 Set a lime stone  
 $20 \times 10 \times 10$  ins.,  $15$  ins.,  
 in the ground for  
 cor. of secs. 4, 5, 32  $\frac{2}{3}$  of 33

South boundary of

chains

marked with 4  
notches on E. and 2  
notches on W. edges;  
dig pits 18x18x12 ins.  
in each sec., 5½ ft.  
dist.; and raise a  
mound of earth 4  
ft. base, 2 ft. high,  
W. of cor.

A well bears S62°40'E  
2 houses (together) bear S144°4E  
Smoke stack of the  
Pearce Mill bears S42°2'W  
Monument on highest  
point where the Pearce  
Mines are located  
bears S27°W.

Cabin on W. Slope  
of Stockdale hills



## T. 17 S. R. 25 E. - Continued

Mains

bears  $N67^{\circ}E$ .Land level <sup>2<sup>d</sup></sup> of mountainsSoil, loam and stony  
2<sup>nd</sup> and 4<sup>th</sup> rate

No timber

Mountainous land 4 chs.

 $S89^{\circ}49'W$ , bet. secs.

5 and 32

Over level land

1.03

Road leading from  
Pearce Mines to Camp  
house bears N. and S.  
and enter street of  
Pearce, running Easterly  
and Westerly

40.00

Set a granite stone  
 $18 \times 10 \times 5$  ins., 12 ins.  
in the ground for  
 $\frac{1}{4}$  sec. cor., marked

34

## South boundary of

Chains

$\frac{1}{4}$  on N. face; dig pits  $18 \times 18 \times 12$  ins., E. and W. of stone, 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, N. of stone

50.00 Leave Pearce

80.00 Set a redwood post, 3 ft. long, 4 ins. sq., with marked stone 24 ins. in the ground for cor. of secs. 5, 6 31 and 32, marked T. 17 S. S. 32 on N. E., R. 25 E. S. 5 on S. E., T. 18 S. S. 6 on S. W., and S. 31 on N. W. faces, with 5 notches on E. and 1 notch on W. edge,

T. 17 S. R. 25 E. - Continued

chains

and raise a mound  
of earth 4 ft. base, 2  
ft. high. W of cor.  
Land level,  
Soil, loam; 2<sup>nd</sup> rate  
No timber.

S 89° 49' W, bet secs.  
6 and 31

Over level land

22.70 Dry wash 8 lks. wide,  
course N.

30.00 Road, bears N. and S.

40.00 Set a red wood post  
3 ft. long, 4 ins., sq.  
with marked stone  
24 ins., in the ground  
for  $\frac{1}{4}$  sec. cor., marked  
 $\frac{1}{4}$  S. on N. face;

South boundary of

chains

dig pits  $18 \times 18 \times 12$  ins.,  
E. and W. of post,  
3 ft. dist, and raise  
a mound of earth  
 $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high  
N. of cor.

52.73 Dry wash, 7 lks. wide  
course N.E.

76.93 The cor. of Tps. 17 and 18  
S. R. 24 and 25 E.

Land, level

Soil, loam; 2<sup>nd</sup> rate.

No timber

July 17<sup>th</sup> 1897.

General Description

T. 18 S. R. 25 E. contains  
some fine land; the  
largest portion of  
the new town of Pearce.

T. 17 S. R. 25 E. - Concluded

chains

and the Pearce Mines  
are situated in the  
N.  $\frac{1}{2}$  of sec. 5; there  
are a number of  
settlers living in  
this tp. and it should  
be subdivided

Philip Cortzen  
U. S. Deputy Sur.

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Note: For latitudes,  
departures and closing  
errors see page 38.

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Note: For Final Caths see Book 4 of  
Subdivisions of T. 17 S., R. 25 E.

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Boundaries of S. 17 A. R. 25 E.  
 Latitudes, Departures, and closing error.

Line designated	True bearing	Distance	Latitudes		Departures	
			N	S	E	W
South boundary	$89^{\circ}49'W$	476.93	--	1.50	--	476.93
West boundary	North	480.00	480.00	--	--	--
North boundary	East	78.00	--	--	78.00	--
North boundary	$89^{\circ}56'E$	80.00	.09	--	80.00	--
North boundary	$78^{\circ}53'E$	319.48	.64	--	319.48	--
East boundary 2 <sup>nd</sup> Guide Mch.	$S 0^{\circ}12'W$	--	--	479.89	--	1.68
Convergence	--	--	--	--	.46	--
Totals	--	--	480.73	481.39	478.94	478.61

Error in lat

--- 480.73-478.61

.66

.33

Error in dep.

For Surveyor General's  
Certificate of Approval  
of field notes see  
close of subdivisions  
of T 17 S. R 25 E.