

Contract 41
D. N. No 21
Connections

Field Notes

See Index
OF THE SURVEY OF THE
First

1454

*Auxiliary Meridian &
Between the
standard Parallel Standard
South*

Gila and Salt River Base and Meridian

BOOK 1454

No. 1454

ARIZONA.

By *R. C. Powers* D. S.

under contract dated *July 20th* 1883.

Survey commenced *Oct 17th* 1887.

Survey completed *Oct 20th* 1887.

*Approved - by Com^r G. L. O
February 27. 1890 -*

First Auxiliary Meridian C.

Let the 1st and 2^d Standard Parallels South

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For preliminary paths of
assistants see Book No 1 of
Exterior Boundaries.

BOOK 1454

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First Aux. Mer. East, bet. Re. 4 & 5

<u>5.6d</u>	<u>5.7d</u>	<u>5.8d</u>	<u>5.9d</u>	<u>5.10d</u>
6 5 9 1	6 4 8 1	6 3 7 1	6 2 6 1	6 1 4 1
12 5 7 7	12 4 6 7	12 3 6 7	12 2 4 7	12 1 3 7
18 5 6 1 8	18 4 5 1 8	18 3 4 1 8	18 2 2 1 8	18 1 1 1 8
24 5 4 1 9	24 4 3 1 9	24 3 2 1 9	24 2 1 1 9	24 1 9 1 9
25 5 2 3 0	25 4 1 3 0	25 3 1 3 0	25 1 9 2 0	25 7 3 0
36 5 1 5 1	36 4 0 3 1	36 2 9 3 1	36 1 7 3 1	36 5 3 1

First Auxiliary Meridian East

No. 1454

On the night of October 16th 1887 I took an observation on the Star Polaris, in accordance with instructions contained in the Manual of Surveys, and drove pickets on the line thus established.

Survey commenced Oct 17th with a Burt's improved solar compass.

Before commencing this survey I test my compass on the line established last night and find it correct.

Before connecting the Exterior Boundaries of Tps with this line I carefully re-traced it South from the First Standard Parallel South. Finding that in passing over the rough Mountain Range in Tp 10 S. it bore E. of its true position I re-established the entire line as follows.

I begin at the Standard Cor. to Tp 10 S R's 4 & 5 E on the 2^d Parallel South which

Post Auxiliary Merid. E through Tp 10 S.

Chs.

is a post 4 ins square firmly set
in the ground marked

S.E. T. 10 S on N

R56 S 31 on E and

R46 S 36 on W edges with six
notches on N.E. and W. edges
and pits N.E. and W. of post
6ft dist and mound of stone
around post

Thence S run

N. bet Secs 31 & 36

Var. $12^{\circ} 50' E.$

Over broken ground

Descending gentle slope

40.00 Set post 3ft long 3 ins square
with marked stone 12 ins
in the ground for $\frac{1}{4}$

1st Auxiliary Merid. E through T₄ 10 S.

cls

Sec Cor marked 74 S. on NW face
and raised a mound of stone 1 1/2 ft
high 3 1/2 ft base around post -
Pits impracticable. Ascend quite steep

8000 Set - Pals wide post 4 1/2 ft long 4 ins
sq with marked stone 1 1/2 ins in
the ground for Cor to Secs 25, 30
31 and 32 marked

T10 S S 30 on NE.

R 5 E S 31 on SE

R 4 E S 36 on SW and

S 25 on NW faces with 5 notches on
N and 1 notch on S Edges and
raised a mound of stone 2 1/2 ft high
4 1/2 ft base around post -
Pits impracticable

Land broken rocky.

180 Auxiliary Merid E through Th 10 S

Soil - 3d rate
 no lumber scat-brush.

N. bet Secs 25 and 30
 7a 120 50' Ee

Over mountainous surface
 ascending ground

40.00 Set post 3 ft long 3 ins sq
 with marked stone 17 ins in
 the ground for 1/4 Sec Cor
 marked 1/4 S on W face and
 raised a mound of stone
 1 1/2 ft high 3 1/2 ft base around post
 Pits impracticable.

Ascend steep slope
 60.00 Top of mountain ridge bet
 E & W about 30 feet high

1. Auxiliary Merid E. through T_p 10 S.

Descend N slope 25 feet
 8000 Slope of ridge. Set palo verde
 post 4½ ft long 4 ins sq with
 marked stone 12 ins in the ground
 for Cor to Secs 19, 24, 25 & 30 marked
 T₁₀ S. S 19 on N.E.

R 5-E S 30 on S.E.

R 4-E S 25 on S.W. and

S 24 on N.W. faces with 4 notches
 on N and 2 notches on S edges
 and raised a mound of stone
 2 ft high 4½ ft base around post.
 Pits impracticable.

Land mountainous

Soil rocky - 3d rate

No timber Sec-brush.

1st Auxiliary Merid E. through T10-S

chs

A. bet Secs 19 and 24

7a 12° 49' Ee

Over mountainous ground
Ascending - over broken ground
and along E slope of mountain

40.00 About 50 ft above Sec cor

Set Palo verde post 3 ft long 3 in
sq with marked stone 12 in in
the ground for 1/4 sec cor marked
N.S. on N face and raised a
mound of stone 15 ft high
3 1/2 ft base around post
Pits impracticable

Ascend steep mountain
slopes

60.00 Top of mountain about 250 ft
high. Descend N slope

1st Auxiliary Merid E. through T. 10 S.

8000 Set Palo Verde post - 4½ ft long
 4 ins sq with marked stone
 12 ins in the ground for Cor
 to Secs 13, 18, 19 and 24 marked
 T 10 S S. 18 on NE
 R 5 E S 19 on SE.
 R 4 E S 24 on SW and
 S 13 on NW faces with 3 notches
 on N and S edges and
 raised a mound of stone
 2 ft high 4½ ft base around.
 Pits impracticable.
 Land monotonous
 Soil rocky - 3d rate -
 No timber, 2nd brush

1st Auxiliary Merid E through 710 S.

cls

N. bet Secs 13 and 18

7d 12° 49' E

Over broken surface

^{250 feet - below top of mt.}5.00 Cross gulch 14 ft wide Curve E
and ascend

11.00 Top of ridge 30 ft high & descend

26.00 Bottom of slope

40.00 Set Palo Verde post 4 ft long 4 in

sqr with marked stone 1 1/2 in in

the ground for 4 Sec Cor marked

K. S. on N face, and raised

a mound of stone 1 1/2 ft high

3 1/2 ft - base around post -

Pits impracticable

Ascend slope

66.50 Top of ridge 75 feet high

projects 400 E & descend

1 Auxiliary Merid. E. through T10 S.

69.00 Cross gulch 80 feet below top of ridge
15-cks with Course E & ascend

80.00 On Spur about 50 ft above gulch
Set Palo Verde post 4 1/2 ft long 4
ins sqr with marked stone 12 ins
in the ground for Cor to Decs
7, 12, 13 and 18 marked
T10 S. S 7 on NE

R 5-E. S 18 on SE

R 4-E S 13 on SW and

S 12 on N.W. faces with 2 notches on
N. and 4 notches on S edges, and
raised a mound of stone 2 ft-
high 4 1/2 ft base around post
Pits impracticable.

Land Monotonous
Soil rocky 3-rail
No Timber, scrub brush

1st Auxiliary Merid. E. through T. 10 S.

chs

N. bet Secs 7 and 12

7th 12° 49' Ee

Over broken ground

Descending N slope of Mt-

40.00 70 ft - below Sec Cor

Set - Palo Verde post - 3 ft - long

3 ins sgr. with marked stone

12 ins in the ground for 1/4

Sec Cor marked 1/4 S on N

face, and raised a mound

of stone 1 1/2 ft high 3 1/2 ft base

around post. Pits impracticable

Thence descending gradual slope

80.00 Set - iron wood post - 4 1/2 ft - long

4 ins sgr with marked stone

12 ins in the ground for

Cor to Secs 1, 6, 7 & 12 marked

1st Auxiliary Merid E. through 710 S.

710 S S 60° N E.

R 5 E S 70° N E.

R 4 E S 12° on S W and

S on N W faces with 1 notch out and
5 notches on S edges and raised
a mound of stone 2 ft high 4½
ft base around post, Pitts impracticable
Land Mountainous

Soil rocky - 3d rate
Greensward, Palo Verde & Show wood
dense entire mts.

N. bet - Secs 1 and 6

712 12° 49' E

Over broken surface

Gradually descending from mts.

4000 ft Palo Verde post 3 ft long 3 in

1 Auxiliary Merid E. through T 10 S

Chs

sq. with marked stone 12 ins in
the ground for $\frac{1}{4}$ Sec Cor marked
 $\frac{1}{4}$ S on N face and raised a
mound of stone 1 $\frac{1}{2}$ ft high 3 $\frac{1}{2}$ ft
base around post. Pits impracticable.

80.00 Set iron wood post 4 $\frac{1}{2}$ ft long
4 ins sq. with marked stone
12 ins in the ground for Cor
to Tps 9 T 10 S. R 4 + S E marked
T 9 S S. 31 on N.E.
R 5 S S 6 on S.E.
T 10 S S 1 on S.W. and
R 4 E S 36 on N.W. faces with
6 notches on each edge; dug
pits 24 + 18 + 12 ins long twice
on each line 6 ft dist
and raised a mound of earth

18th Auxiliary E. through T. 10 S.

2 ft high 4 1/2 ft base around post
 Land broken

Soil rocky - 3d rate
 dense brush Palo verde iron wood
 and greasewood where hills

Oct. 17th 1887

At 12 o'clock M. to day I found
 latitude to be $32^{\circ} 36' N$ and my
 Compass in good adjustment

General Description

Ts. 10 S Rs 4 & 5 E as far as could
 be seen from the 18th Auxil. Merid
 E. are rocky and mountainous
 valuable neither for grazing
 or agriculture.

1 Auxiliary Merid E through J. g. S.

chs

From the Cor to $\frac{1}{2}$ 9010 S 60 4 + 5 E

I run

N. bet - Secs 31 and 36

To $12^{\circ} 44' E$

Over sloping ground

Gully descending northeastward

40.00 Set iron wood post 3 ft long 3
 ins sq. with marked stone 12 ins
 in the ground for $\frac{1}{4}$ Sec Cor
 marked $\frac{1}{4} S$ on W face dug
 pits 18 + 18 + 12 ins N of S of
 post $5\frac{1}{2}$ ft diam and raised a
 mound of earth $1\frac{1}{2}$ ft high $3\frac{1}{2}$ ft
 base around post.

80.00 Set masonry post $4\frac{1}{2}$ ft long 4 ins
 sq. with marked stone 12 ins
 in the ground for Cor. to Secs.

1 Auxiliary Merid E. through T. & S.

chs.

25, 30, 31 and 36 marked
T & S S 30 on N.E.

R. 5 E. S 31 on S.E.

R 4 E. S 36 on S.W. and

S 25 on N.W. faces with 5 notches
on N and 1 notch on S Edges
dug pits 18+18+12 ins in each
Dia 5 1/2 ft - dist and raised a
mound of earth 2 ft high + 5 ft
base around pits -

Land sloping

Soil granly & 2nd rate
dense grasswood and scat-
mercy - Palo verde.

N. bet Secs 25 and 30

2nd 12° 49' E

1st Auxiliary E. through T 9 S

Over nearly level ground

14.00 Cross road N to S E

24.00 Enter Indian field enclosed
with brush fence hrs N. W.

40.00 Set mesq^t post - 3 ft long 3 ins
sq. with marked stone 12 ins
in the ground for $\frac{1}{4}$ the cor
marked $\frac{1}{4}$ S. on N. face dug
pits 18 + 18 + 12 ins N + S 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.

41.00 Leave Indian field

79.00 Cross to ^{Head} Quijatra Mines
hrs E. + W.

80.00 S bank of water hole

Set mesq^t post - 4 $\frac{1}{2}$ ft long

1st Auxiliary Merid E through T. G. S.

chs

4 ins sgr with marked stone 12 ins
in the ground for Cor to Secs.

19. 24. 25 and 30 marked
T. G. S. S 19 on N.E.

R 5 E S 30 on S.E.

R 4 E. S 25 on S.W. and

S 24 on N.W. faces with 4 notches
on N and 2 notches on S edges

dry pits 18+18+17 ins in each

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

Land nearly level

Soil sedimentary loam 18" with

No timber.

1st Auxiliary Merid. E through 798

N. lat Secs 19 and 24

Tu 12° 49' E

Over ground gently ascending

40.00 Cross branch of Quijón road hrs E-W

33.00 Cross road to Jack rabbit mines
hrs E-W

40.00 Set mesq-post - 3 ft - long
3 ins agr with marked stone
12 ins in the ground for $\frac{1}{4}$ Sec Cor
marked $\frac{1}{4}$ S on W face dug
pits 18 + 18 + 12 ins N-S 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.

80.00 Set mesq-post - 4 $\frac{1}{2}$ ft - long
4 ins agr. with marked stone
12 ins in the ground for Cor

18th Auxiliary Merid. E through Tg S.

Obs

to Secs. 13, 15, 19 and 24 marked
Tg S S 15 on N.E.

R 5 E S 19 on S.E.

R 4 E S 24 on S.W. and

S 13 on N.W. faces with 3 notches on N
& S faces dug pits 18+18+12 ins
in each sec. 5 $\frac{1}{2}$ ft - dia - and raised
a mound of earth 2 ft high 4 $\frac{1}{2}$
ft - base around each.

Ground nearly level

Soil sedimentary loam with
Sage, greasewood brush and
mesq - entire mile.

N. bet - Secs 13 and 15

To 12° 49' E

Over irregular ground

1st Auxiliary Merid. E. through T. 98

Gradually ascending

- 4000 Set post - 3 ft long 3 ins sgr
with marked stone 12 ins in the
ground for $\frac{1}{4}$ Sec Cor marked
1/4 S on W. face dry pits 18+18
+12 ins N.S. of post $5\frac{1}{2}$ ft dia
and raised a mound of earth
 $1\frac{1}{2}$ ft high $3\frac{1}{2}$ ft base around post.
- 80.00 About 60 feet above last Sec Cor
Set post - $4\frac{1}{2}$ ft long 4 ins sgr
with marked stone 12 ins in the
ground for Cor to Secs 7, 12
13 and 18 marked
T 9 S S 7 on NE
R 5 - E. S 18 on SE,
R 4 E S 13 on SW and
S 12 on NW faces with 7 on

1 Auxiliary Merid. E. through T₉ S.

cls

out and 4 notches on Sedges dug pits
 18+18+12 ins in each Sec. and raised
 a mound of earth 2 ft high $4\frac{1}{2}$
 ft base around post
 Land broken, mountainous
 Soil rocky 3d sec
 Scattering brush

N. bet Secs 7 and 12
 on 12° 49' E

Over broken ground
 ascending slope

16.00 Top of ridge about 75 feet high

24.00 Desc end slope

40.00 Set post 3 ft long 3 ins dia with
 marked stone 12 ins in the ground
 for 1/4 sec Cor marked T₉ S on W
 face and raised a mound of

1st Auxiliary Merid. E. through T 9 B

chs

Stone $1\frac{1}{2}$ ft-high $3\frac{1}{2}$ ft-base around
post. Pits impracticable.

48.00 Across gulch and around

80.00 About 150 feet-high on side of cut
Set post $4\frac{1}{2}$ ft-long 4 ins eye

with marked stone 12 ins in
the ground for Cor. to Secs 1
6, 7 and 12 marked

T 9 S S 6 on N.E.

R 5-E S 7 on S.E.

R 4-E S 6 on SW and

S 1 on NW faces with 1 notch on
N and 5 notches on S. Edges and
raised a mound of stone 2 ft
high $4\frac{1}{2}$ ft-base around post.
Pits impracticable.

Lared Mountains

1st Auxiliary Merid. E. through T.G.S.

chs

Soil rocky - 3d rate
Greenwood & Palo Verde brush.

N. bet - Secs 1 and 6
70 12° 49' E

Over broken surface
Along side of mountain

13.00 Cross gulch 10 lks wide

30.00 Cross gulch 20 lks wide
and ascend slope

40.00 Set post 3 ft high 3 ins sq with
marked stone 12 ins in the
ground for $\frac{1}{4}$ Sec Cor marked
 $\frac{1}{4}$ S. on W. face and raised a
mound of stone $1\frac{1}{2}$ ft high $3\frac{1}{2}$ ft
base around post - *Practically*

46.00 Summit of mountain

²¹ Auxiliary Merid. E through T98

- 51.00 Commenced to descend
 66.00 Base of mountain
 Cross gulch and ascend
 68.00 Top of low ridge
 75.00 Cross wash
 and ascend
 80.00 Set Stone 14 + 8 + 5 - ins 9 ins in
 the ground for Cor to Tps 8098
 R H + 5 E marked with
 6 notches on each edge and
 raised a mound of stone
 along side. P's impracticable
 Land mountainous
 Soil rocky - 3d rate
 No timber, scat-brush.

18th Auxiliary Merid. E through T. 9 S.

General Description

The Country Along the 18th Aux.
Merid. E through this T^p with
the exception of a small
valley including Secs 25 and
30 is mountainous, rocky
and barren. In the
Eastern portion of Sec 25 is
a small settlement of
Papaya Indians. They
cultivate a portion of the
valley which is rich.

Oct. 18th, 1887.

1st Auxiliary Merid. E. through T. & S.

chs

From the Cor. to Tps 8 and 9 S
R 4 and 5 E

I run

A. bet Secs 31 and 36

7th 120 49' E

Over broken ground
Ascending surface

500 Summit of mountain ridge bet
E & W Descend

30.00 Base of ridge Cross gulch 15-20
wide

40.00 Set post 3 ft long 3 ins dia
with marked stone 12 ins in
the ground for 1/4 Sec Cor marked
1/4 S on W face and raised a
mound of stone 1 1/2 ft high 3 1/2 ft
base around post. Pits
impracticable.

1 Auxiliary Merid. E through T S

chs

- 60.00 Low ridge hrs NE SW. Descend
- 80.00 Set post $4\frac{1}{2}$ ft long 4 ins dia
with marked stone 14 ins in
the ground for Cor to Secs
24, 30, 31 and 36 marked
T S S 30 on NE
R 5 E S 31 on SE,
R 4 E S 36 on SW and
S 25 on NW faces with 5 notches
on N and 1 notch on S edges;
and raised a mound of stone
2 ft high $4\frac{1}{2}$ ft base around
post. Pits impracticable
Land mountainous
Soil rocky - 3d rate
No timber, some brush.

1 Auxiliary Merid E, through T. & S.

chs

N. bet Lees 25 and 30
70 12° 49' E

Over broken ground

300 Ascending slope

14.00 Top of Mountain ridge

Descend slope

40.00 Foot of slope

Set post 3 ft long 3 ins dia
with marked stone 12 ins in
the ground for 1/4 Sec Cor
marked 1/4 S on W face
and raised a mound of stone
1 1/2 ft high 3 1/2 ft base around post
Thence over foot hills
descending gradually.

80.00 Set post 4 1/2 ft long 4 ins dia
with marked stone 12 ins in

Auxiliary Merid E. through T8 S

Chs

the ground for Cor to Secs 19, 24
25 and 30 marked

T8 S 19 on N.E.

R5 E S 30 on S.E.

R4 E S 25 on SW and

S 24 on NW faces with 4 notches
on N and 2 notches on S edges
and raised a mound of stone
2 ft high 4 ft base around
post. Pits impracticable.

Land mountainous

Soil rocky - 3d rate

No timber - scat. brush.

N. bet - Secs 19 and 24

7a 12° 49' E

Over broken rocky ground

1st Auxiliary Merid. E. through T88

chs

- 23.00 across mulpais ridge
- 40.00 Set post 3 ft long 3 ins sqr with
marked stone 1 1/2 ins in the
ground for 1/4 Sec Cor marked
1/4 S on N face dug pits 15 + 18
+ 12 ins N & S of post 5 1/2 ft dia
and raised a mound of Earth 1 1/2
ft high 3 1/2 ft base around post
- 80.00 Set merge post 4 1/2 ft long 4 ins
sqr with marked stone 1 1/2 ins
in the ground for Cor to Secs
13, 18, 19 and 24 marked
T88 S 18 on N.E.
R 5 E S 19 on S.E.
R 4 E S 24 on S.W. and
S 13 on N.W. faces with 3 notches

1 Auxiliary Merid E. through T & S

chs

out and S edges, dug pits 18+18+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 broken

Soil. 2nd & 3d ruti
sense brush, greasewood
& Palo verde & mesq.

N. bet Secs 13 and 18

$7a 12^{\circ} 49' E$

Over nearly level ground

40.00 Set mergr post 3 ft long 3 ins
sq with marked stone 12 ins in
the ground for $\frac{1}{4}$ Sec. C. marked
"K" on N. face; dug pits 18+18+12 ins
N & S of post $5\frac{1}{2}$ ft dist and

~~1~~ Auxiliary Merid E. through T & S

chs

raised a mound of earth $1\frac{1}{2}$ ft
high $3\frac{1}{2}$ ft base around post
8000 Set mesq - post - $4\frac{1}{2}$ ft long
4 in sq with marked stone
17 in in the ground for or to
Secs. 7, 12, 13 and 18 marked
T & S 7 on N.E.

R 5 - E S 18 on S.E.

R 4 E S 13 on S.W. and

S 12 on N.W. faces with 2 notches
on N and 4 notches on S edges

dry pits 18 + 18 + 12 in in each

Sec. $5\frac{1}{2}$ ft dia. and raised a

mound of earth 2 ft high $24\frac{1}{2}$ ft
base around post

Ground level

Soil sedimentary 2nd rate

severe brush entire mile.

1 Auxiliary Merid. E through T8 S.

ch

N. bet Secs 7 and 12

7th 12° 49' E

Over nearly level ground

1500 Cross road to Vicil mine

4000 Set mesq^l post 3 ft long 3 ins sq
with marked stone 12 ins in the ground
for $\frac{1}{4}$ Sec Cor marked $\frac{1}{4}$ S on N. face
dug pits 10 + 18 + 12 ins N + S of post $13\frac{1}{2}$ ft

Dist. and raised a mound of earth
14 ft high 3 $\frac{1}{2}$ ft base around post

8000 Set mesq^l post 4 ft long 4 ins sq
with marked stone 12 ins in the
ground for Cor. to Secs. 1, 6, 7 and
12 marked

T8 S S 6 on N E

R 5 E S 7 on S E.

R 4 E S 12 on SW and

1 Auxiliary Merid. E through 78 S.

Chs

S1 on NW faces with 1 notch out
and 5 notches on S edges. dug
pits 18+18+12 ins in each Sec
5 1/2 ft - dia. and raised a mound
of earth 2 ft high 4 1/2 ft base
around just.

Land nearly level

Soil Clay & sandy loam - 1st rate
dense brush & guyotto entire mile,

N. bet - Secs. 1 and 6

7a 12° 49' Ee

Over nearly level ground
40.00 Set mesq. just 3 ft long 3 ins
sqx with marked stone 12 ins
in the ground for 1/4 Sec. Cor
marked 1/4 S on NW faces dug pits

1 Auxiliary Merid. E. through T. & S.

cls

18+18+12 ins N & S 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.

80.00 Set survey post $4\frac{1}{2}$ ft long 4 ins
sq. with marked stone 12 ins
in the ground for cor to T. & S.
7 and 8 S R 4 and 5. E. marked
T. & S. S 31 on N. E.

R 5 E S 6 on S. E.

T 8 S. S. 1 on N. W. and

R 4 E S 36 on N. W. faces with
6 notches on each edge -
dry pits 24+18+12 ins
lengthwise on each line
6 ft - dist. and raised a
mound of earth 2 ft high
 $4\frac{1}{2}$ ft base around post.

1st Auxiliary Merid. E. through T. & S.

Land nearly level
 Soil clay + sandy loam (8th rate)
 Scarcely brush & guyetta entire mile.

At 12 o'clock M to-day I
 found latitude to be $32^{\circ} 47' N$
 and my compass in good adjustment

General Remarks

The Southern portions of T. & S. No.
 445 are mountainous and rocky.
 The central and northern portions
 nearly level. The soil is
 good and the surface covered
 with brush, scrub mesquite,
 and guyetta grass.

Oct-19th 1887

1 Auxiliary Merid E. through T 7 S

Chs

From the Cor to Tps 7 and 8 S R's
4 and 5 E

N. bet - Secs 31 and 36

7th 12° 49' E

Over nearly level ground

40.00 Set mark post 3 ft long 3 ins

sq with marked stone 12 ins

in the ground for 1/4 Sec Cor

marked 1/4 Sec W face dug pits

15 + 18 + 12 ins N + S of post 3 1/2

ft dist and raised a mound

of earth 15 ft high 3 1/2 ft base

around post -

From this Cor, ranch house +

Corral (new) bet W about 30 chs

66.00 across ranch road bet N. E.

+ S. W.

1 Auxiliary Merid. E. through T 7 &

chs

8000 Set mesqr post $4\frac{1}{2}$ ft long 4 ins dia
with marked stone 12 ins in the
ground for Cor to Secs. 25, 30

31 and 36. marked

R 17 S S 30 on NE

R 18 E S 31 on SE.

R 4 E S 36 on SW and

S 25 on NW faces, dug pits 18+18

+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
Sand level

Soil Clay loam 2nd rate
dense brush entire mile

N. bet Secs 25 and 30.

7a 12° 49' E

1st Auxiliary E through R 7. S

cls

No. 1454

Over level ground

40.00 Set misc 1 post 3 ft long 3 in
sq with marked stone 12 in
in the ground for $\frac{1}{4}$ Sec. Cor
marked $\frac{1}{4}$ S. on W face. dug
pits 18 + 18 + 12 in N + S of post -
5 $\frac{1}{2}$ ft dia. and raised a mound
of earth 1 $\frac{1}{2}$ ft high 3 $\frac{1}{2}$ ft base
around post.

80.00 Set misc 1 post 4 $\frac{1}{2}$ ft long 4 in
sq with marked stone 12 in in
the ground for Cor to Secs 19
24, 25 and 30 marked
T 7 S S 19 on N.E.
R 5 E S 30 on S.E.
R 4 E S 25 on S.W. and
S 24 on N.W. faces with 4 notches

BOOK 1917
1st Auxiliary Merid E. through T 78

chs

at N and 2 notches on Sedges
dug pits 18 + 18 + 12 ins in each
Sec. 5 1/2 ft dist. and raised a
mound of earth 2 ft high 4 1/2 ft
base around first?

Land level

Soil clay loam 2nd rate
Sewer brush entire mile.

N. bet - Secs 19 and 24
74 12° 49' E

Over level ground

40.00 Set mesq¹ post 3 ft long
3 ins sq with marked stone
12 ins in the ground for 1/4 Sec
Or marked 1/4 S. on N face
dug pits 18 + 18 + 12 ins N & S

1st Auxiliary Merid. E through T 7 S

cho

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 -

80.00 Set misc post $4\frac{1}{2}$ ft long 4 in's
sq with marked stone 12 in's
in the ground for Cor to Secs. 13
18, 19 and 24 marked
T 7 S S 18 on N.E.

R 5 E S 19 on S.E.

R 4 E S 24 on S.W. and

S 13 on N.W. faces, with 3 notches
on N and S edges; dug pits 18 +
18 + 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 -

Level line
Soil clay loam 180 mts
dense brush entire mile.

Auxiliary Merid E. through T. 7 S

chs

N. bet-Sees 13 and 18

7d 12° 49' E

Over level ground

40.00 Set meys post 3 ft long 3 in
sq with marked stone 12 in
in the ground for 1/4 Sec. Cor marked
1/4 S on W face. dug pits 15+18+12
in to S of post 3 1/2 ft - dist - and
raised a mound of earth 1 1/2 ft
high 3 1/2 ft - base around post -

80.00 Set meys post 4 1/2 ft long 4 in
sq with marked stone 12 in
in the ground for Conto Secs,
7, 12, 13 and 18 marked,
T 7 S 7 on N.E.

R 5 E. S 18 on S E

R 4 E S 13 on S W and

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1st Auxiliary Merid E. through T. 7 S.

Chs

S 1/2 on N.W. faces, with 2 notches on
N and 4 notches on S edges.
dug pits 18+18+12 ins in each
Sec 5 1/2 ft dist and raised a
mound of earth 2 ft high 4 1/2 ft
base around first -

Sand line

Soil clay loam 1st rate
dense brush entire mile.

N. bet Secs 7 and 12

7a 12° 49' E

Over line ground

40.00 Set mesq¹ post 3 ft long 3 ins sq
with marked stone 12 ins in the
ground for 1/4 sec for marked 1/4 S
on W. face, dug pits 18+18+12

1st Auxiliary Merid. E. through T. 7. S.

chs

ins. N + S 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
5200. Cross Creek 40 lks wide
Course N. W.

8000 Set mesq. post $4\frac{1}{2}$ ft long 4 ins
sq. with marked stone 12 ins
in the ground for cor to Secs
1, 6, 7 and 12 marked
T 7 S S 6 on N. E.
R 5 - E S 7 on S. E.
R 4 E S 12 on S. W. and
S. on N. W. faces with 1 notch on
band 5 notches on S edges. Ang
puls 75 + 18 + 12 ins in each
Sec $5\frac{1}{2}$ ft - dist and raised
a mound of earth 2 ft high

1st Auxiliary Merid. E. through T. 7 S.

Chs

4½ ft base around post
Land level

Soil Clay loam 12' cut
Dense brush with
silk.

Notes Secs 1 and 6

74 12° 49' E

Over level ground

40.00 Set merg post 3 ft long

3 ins 2 yr with marked stone
17 ins in the ground for ¼ Sec

Or marked ¼ S on W face

due fits 18 + 18 + 12 ins. to S of

post 5½ ft base. And raised a

mound of earth 1½ ft high

3½ ft base around post.

80.00 Set merg post 4½ ft long 4 ins.

1 Auxiliary Merid. E through to T. 7. S.

chs.

sqr. with marked stone 12 ins
in the ground for Cor to Tps
6 and 7 S. Rs 4 and 5 E marked
T 6 S. S 31 on N.E.

R 5 E S 6 on S.E.

T 7 S S 1 on SW and

R 4 E S 36 on NW faces with
6 notches on each edge
dry pits 24 + 18 + 12 ins
lengthwise on each line left
dist and raised a mound
of earth 2 ft high 4 1/2 ft base
around pits.

Land level

Soil Clay loam 1st rate
dense brush entire mile

Auxiliary Merid E through T 78

General remarks

The land along this line through
T 78 S is level. The soil
is a rich sedimentary clay
loam. Over nearly the entire
surface there is a dense
growth of sage brush,
greasewood and scrub
mesquite with quoyeta
grass in patches.

1 Auxiliary Merid E through T. 68.

chs

From the Cor. to Tps 6 and 7 S R. 34
and 5 E

I run

N. bet Secs 31 and 36

wa. $12^{\circ} 49' E$

Over level ground

40.00 Set mesq post 3 ft long 3 ins
sq. with marked stone 12 ins
in the ground for $\frac{1}{4}$ Sec Cor
marked $\frac{1}{4}$ S on W face, dug
pits 18+18+12 ins N & S 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}

80.00 Set mesq post $4\frac{1}{2}$ ft long
4 ins sq. with marked stone
12 ins in the ground for
Cor to Secs 25, 30, 31 & 36 marked

1st Auxiliary Merid. E. through T6 S.

chs

T6 S S 30 on NE

R 5 E S 31 on SE

R 4 E S 36 on SW and

S 25 on N W face, with 5 notches on N and 1 notch on S edges, dug pits 18+18+12 ins in each Sec 5 1/2 ft dist and raised a mound of earth 2 ft high 4 1/2 ft base around post.

Land level

Soil Clay loam 1st rule
sense brush entire mile.

N. bet Secs 25 and 30

7a 12° 49' Ee

Over level ground

40.00 Set misc post 3 ft long 3 ins

1st Auxiliary Merid E through T 6 S

chs

set with marked stone 12 ins
in the ground for $\frac{1}{4}$ Sec Cor
marked $\frac{1}{4}$ S on N face; dug
pits 18+18+12 ins stand S. of
post $5\frac{1}{2}$ ft dia. - and raised
a mound of earth $1\frac{1}{2}$ ft high
 $3\frac{1}{2}$ ft base around post.

80.00 Set mesq post $4\frac{1}{2}$ ft long 4 ins
set with marked stone 12 ins in
the ground for Cor to Secs 19, 24
25 and 30 marked

T 6 S S 19 on NE

R 5 E S 30 on SE

R 4 E S 25 on SW and

R 4 E S 24 on N.W. faces with 4
on N and 7 notches on S edges

dug pits 18+18+12 ins in each Sec

1st Auxiliary Merid E through T 6 S

cho

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

Land level

Soil Clay loam 1st rate
dense brush entire mile

N. bet Secs 19 and 24
7a 12° 49' E

Over level ground

40.00 Set mesq^t post 3 ft long 3 ins
sq^r with marked stone 12 ins
in the ground for 1/4 Sec Cor
marked 1/4 S on N face dug pits
18 + 18 + 12 ins. N of S of post 5 1/2 ft
dia and raised a mound of
earth 1 1/2 ft high 3 1/2 ft base around ^{post}

1 Auxiliary Merid. E through T & S

chs

80.00 Set mesyl post $4\frac{1}{2}$ ft long 4 ins
sq with marked stone 16 ins in
the ground for Cor to Dec 13
18, 19 and 24 marked
T 6 S S 18 on N.E.

R 5 E S 19 on S.E.

R 4 E. S 24 on S.W. and

S 13 on N.W. faces with 3
notches on N & S edges. dug pits
18+18+12 ins in each Dec 5 ft
dist and raised a mound of
earth 2 ft high $4\frac{1}{2}$ ft base
around post -
Sand level

Soil Clay loam 1st rate
sensitive brush entire mile.

1st Auxiliary Merid E through T. S.

Chs

N. bet Secs 13 and 15
70 12° 49' E

Over level ground

40.00 Set mesq. post 3 ft long 3 in
sq. with marked stone 12 in in
the ground for 1/4 Sec Cor marked
1/4 Sec on N. face, dug pits 18 + 18 + 12 in
N. S. of post 3 1/2 ft dist and
raised a mound of earth 1 1/2 ft
high 3 1/2 ft base around post

80.00 Set mesq. post 4 1/2 ft long 4 in
sq. with marked stone 12 in
in the ground for Cor to Secs
17, 12, 13 and 18 marked
T. S. S. 7 on N. E.

R. S. E. S. 18 on S. E.

R. 4 E S. 13 on S. W. and

1st Auxiliary Merid E. through T 6 S

chs

Run S 12 on NW faces with 2
notches on N + 4 notches on S edges
dry feet 75 + 18 + 12 ins in each
Sec 5 1/2 ft-dist. and raised a
mound of earth 2 ft-high 4 1/2 ft
base around post

Land level

Soil Clay loam 18" into
dense brush entire mile.

A. bet Secs 7 and 12

70 12° 49' E

Over level ground

40.00 Set mesq post 3 ft-long 3 ins
sq with marked stone 12
ins in the ground for 1/4 Sec Cor
marked 1/4 S on N face dug

1st Auxiliary Merid. E. through T 6 S

Chs

pits 18+18+12 ins N & S of post -
5 1/2 ft dist and raised a mound
of earth 1 1/2 ft high 3 1/2 ft base
around post.

80.00 Set merge post 2 1/2 ft long was
sq with marked stone 12 ins
in the ground for Cr to Dies
1. 6 7 and 12 marked
T 6 S S 6 on N.E.

R 5 E S 7 on S.E.

R 4 E S 7 on S.W. and

S 1 on N.W. faces with 1 notch on
N and 5 notches on S edges. dug
pits 18+18+12 ins in each Sec
5 1/2 ft dist. and raised a mound of
earth 2 ft high 4 1/2 ft base around
post - Land level

1st Auxiliary Merid. E. through T68

chs

Soil Clay brown 1st rate
 dense brush white milk

N. bet Secs 1 and 6.

7th 12° 49' Ee

Over level ground

40.00 Set mesq^{ue} post 3 ft long 3
 ins sq^{are} with marked stone
 12 ins in the ground for
 1/4 Sec E or marked 1/4 S
 on N. face dug pits 18
 + 18 + 12 ins N & S of post
 5 1/2 ft dist and raised a
 mound of earth 1 1/2 ft high
 3 1/2 ft base around post

45.00 Cross Santa Cruz ^{river} 150 chs wide
 Course N 60° W.

1st Auxiliary Merid E through T 6, S.

cho

8278 Intersect - 1st Stand Parallel
S. 130. lks E of the Stand Cr
to Secs 31 and 32 T 5-S R 5-E
which is a Messrs post 4 ins
syr firmly set in the ground
marked

S. C. T 5-S R 5-E on N

S 32 on E end

S 31 on W face with 5 notches
on E end and 1 notch on W edges
pils 18+18+12 ins N, E or W of
post 5 1/2 ft - dist - and mound
of earth around post.

At this point I set Messrs post
4 1/2 ft - long 4 ins syr with
marked stone 12 ins in the
ground marked.

1st Auxiliary Merid E. through T6 S.

chs

C.C. T6 S on S

R5 E S 6 on E and

R4 E S 1st 7th faces with 6 notches
on S. E or W faces deep pits
24 + 18 + 12 ins lengthwise
on each line S. E or W of
post - 6 ft - dist and raised
a mound of earth 2 ft high
4 1/2 ft - base around post -
Land level

Soil Clay loam 1st rate -
dense brush entire mile.

Oct. 20th 1887.

At 12 o'clock M to-day I found
latitude to be 32° 57' N and
my Compass in good adjustment.

1st Auxiliary Merid E through T & S

General Description

The land along this line through
T & S is level; the soil
deep and rich, and the
surface covered with a
dense growth of sage brush
greasewood and scrub
mesquite with occasionally
patches of grass.

Widely R. P. Pomeroy

U. S. Deputy Surveyor,

BOOK 1454

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U. S. Surveyor-General's Office,

TUCSON, A. T., Feb. 16. 1889

The foregoing Field Notes of the Surveys of
First Auxiliary Meridian
Cords Between 1st and 2nd
Standard Parallels South

Gila and Salt River Meridian
in Arizona executed by
R. C. Powers.

U. S. Deputy Surveyor, under his contract dated
July 20th 1883
having been critically examined, the necessary correc-
tions and explanations made, the said Field Notes and
the surveys they describe are hereby approved.

John A. Rice
U. S. Surveyor-General
for the Territory of Arizona.