

1537

1537

BOOK 1537

4-671

FIELD NOTES  
GENERAL LAND OFFICE.

*Auxiliary Base-Line  
through Tps 16 South  
Ranges 23 + 24 E.  
E. bdy. of T. 16 S. R. 23 E.  
S. bdy. of T. 16 S. R. 24 E.*

## Field-Notes

of the survey of the  
 Auxiliary Base Line through  
 Tps. 16 S. R. 23 and 24 E.  
 E. bdy. of T. 16 S. R. 23 E.  
 S. bdy. of T. 16 S. R. 24 E.  
 S. bdy. of T. 16 S. R. 23 E.

<sup>W. of the</sup>  
 Principal Base and Meridian  
<sup>in the</sup>  
 Territory of Arizona

Alfred L. Trippel,  
 U. S. Deputy Surveyor

As surveyed by  
 Philip Coutzen  
 Compassman.

Under contract No 29,

Dated June 17. 1893

Survey commenced, November 10. 1895

Survey completed, January 2. 1896

BOOK 1537  
Preliminary Oaths of Assistants.

We, *A. C. Cree*, *Casimiro Barthelemy*  
*Manuel Brown* and *José Encinas*  
do solemnly swear that we will well and faithfully  
execute the duties of Chain Carriers; that we will  
level the chain upon even and uneven ground, and  
plumb the tally pins, either by sticking or dropping  
the same; that we will report the true distance to  
all notable objects, and the true lengths of all lines  
that we assist in measuring, to the best of our skill  
and ability, and in accordance with instructions  
given us, in the survey of the *Exterior* and

*Subdivision lines of Townships*  
*16 South, Ranges 23 and 24 East.*  
*Townships 6 South, Ranges 26, 27 and 28*  
*East of the 1st Standard Parallel South*  
*through Ranges 26, 27, 28 and 29 East*  
*of the Gila and Salt River Base and Meridian in*  
*the Territory of Arizona.*

*A. C. Cree* Chainman.  
*Casimiro Barthelemy* Chainman.  
*Manuel L. Brown* Chainman.  
*José Encinas* Chainman.

Subscribed and sworn before me, this  
day of *October* 189 *5*  
*Thomas C. Boston*  
Notary Public.

[SEAL.]



We, *F. S. Romero and* 3*Wm Kelly*do solemnly swear that we will well and truly perform the duties of *Flagman and**Axeman.*

in the establishment of corners and other duties, according to instructions given us, and to the best

of our skill and ability, in the survey of the *Exterior* of*Subdivision lines of Townships*  
*16 South, Ranges 23<sup>rd</sup> & 24 East**Townships 6 South, Ranges 26<sup>th</sup> & 27<sup>th</sup>*  
*28 East of the 1<sup>st</sup> Standard Parallel*  
*South through Ranges 26, 27, 28<sup>th</sup> & 29 East*

of the Gila and Salt River Base and Meridian, in the Territory of Arizona.

*F. S. Romero, Flagman.**Wm Kelly, Axeman.*

Subscribed and sworn to before me this

day of

*October 5*

189

*Thomas Boston*

Notary Public.

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BOOK 1537

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T. 16 S. R. 24 E

18	17	16	15	14	13
22	20	18	16	13	11
19	20	21	22	23	24

*auxiliary Base-line*

31	32	33	34	35	36
52	54	56	58	60	62
6	5	4	3	2	1

## Auxiliary Base-Line

chains.

Survey commenced November 10. 1895 and executed with a Young and Sons light mountain transit No 5609 with a Smiths Solar Attachment.

The instrument was examined, tested on the meridian at Tucson and found correct and was approved by the Surveyor General for Arizona, October 30. 1895.

I am instructed to establish the South boundaries of Tps. 16 S. R's 23 and 24 E. by running from cor. of

through Tps. 16 S. R. 24 E.

Chains

Tps. 16 and 17 S. R's 24 and 25 E. - West on a random line to cor. of Tps. 16 and 17 S. R's 22 and 23 E. and correct back on a true line, with fractional distance apportioned to each township and placed in the west half mile, but owing to the fact that portions of the S. bdy. of Tps. 16 S. R. 23 E. is impracticable for chaining on account of high mountains, I proceed to establish an Auxiliary Base Line, as follows:



## Auxiliary Base Line

Chains.

I begin at cor. of sees  
13, 18, 19 and 24 of Tps  
16 S. R<sup>s</sup>. 22 and 23 E.  
which is a mound of  
earth with pits and  
stake in S. E. pit as  
described by the Sur-  
veyor General.

Latitude —  $32^{\circ} 3' N.$

Longitude —  $110^{\circ} 2' W.$

In order to test the  
solar apparatus, by  
comparing the results of  
observation on the  
sun, made during  
a. m. and p. m. hours  
with a true meridian,  
determined by observa-  
tions on Polaris, I pro-



6-A

BOOK 1537

through T. 16 S. R. 24 E.

Chains

ceed as follows:

At 3.30

p. m. local mean time,  
I set off  $32^{\circ} 3'$  on the  
latitude arc;  $17^{\circ} 16' S.$   
on the declination arc,  
and mark the true  
meridian thus deter-  
mined with the solar,  
by a cross on a stone  
firmly set in the ground,  
5 chs. N. of the instrument

Nov. 10. 1895

Nov. 11. 1895: At 3<sup>h</sup> 50<sup>m</sup>

a. m. local mean time  
I observe Polaris at western  
elongation in accordance  
with instructions in the

## Auxiliary Base Line

Manual and mark the line thus determined, by a tack driven in a wooden plug set in the ground, 5 chains north of my station.

At 6<sup>h</sup> 30<sup>m</sup>. l. m. t. I lay off the azimuth of Polaris  $10^{\circ} 28'.6$ , to the east, and mark the true meridian, thus determined, by cutting a small groove in the stone set yesterday, on which the true meridian falls 0.15 ins. west of the mark determined by the solar.

At 9<sup>h</sup> 30<sup>m</sup> a. m., l. m. t. I set off  $32^{\circ} 3'$  on the

through T. 16 S. R. 24 E.

Lat. arc,  $17^{\circ}29'$  S. on the decl. arc. and mark the true meridian determined with the solar by a cross on the stone already set. 5 chs. N. of my station, this mark falls 0.2 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



## Auxiliary Base Line

Chains

of the instrument are satisfactory.

The magnetic bearing of the true meridian at 9<sup>h</sup> 30<sup>m</sup> a. m. is

$N 12^{\circ} 15' W$ ; the angle thus determined, reduced by the table, page 100, gives the mean mag. decl.  $12^{\circ} 13' East$ .

Thence from the above described cor. I run East on a random through the center of Tps 16 S. R's. 23<sup>rd</sup> & 24<sup>th</sup> E. setting temp:  $\frac{1}{4}$  sec. and sec. cors. at intervalls of 40 chs. and at 11 miles 39.76 chs., intersect

through T. 16 S. R. 24 E.  
Chains

E. bdy. of T. 16 S. R. 24 E.  
270 lks. N. of cor. of secs.  
13, 18, 19 and 24 of Tps.  
16 S. R's 24 and 25 E,  
there being only a faint  
indication of the original  
cor. I reestablish the  
same as follows: Set  
a pine post, 3 ft. long,  
4 ins. sq., with marked  
stone, 24 ins. in the  
ground, for cor. of  
secs 13, 18, 19 and 24,  
marked

T. 16 S. S. 18 on N.E.  
R. 25 E., S. 19 on S.E.  
S. 24 on S.W., and  
R. 24 E., S. 13 on N.W. faces,  
with 3 notches on N and

## Auxiliary Base Line

chains

I edges, dig pits  
 $18 \times 18 \times 12$  ins., in each  
 sec.  $5\frac{1}{2}$  ft. dist, and  
 raise a mound of earth  
 4 ft. base, 2 ft. high  
 W. of cor.

The falling answers  
 to a correction of 10', or  
 $23\frac{1}{2}$  lbs. S. per mile  
 counting from cor. of secs.  
 13, 18, 19 and 24. Tps. 16 S.  
 R's 22 and 23 E; therefore  
 I run

$N 89^{\circ} 50' W$ , bet. secs. 13 and 24

Over level land

24.23 Trail bears N.W. and S.E.

40.00 Set a pine post 3 ft. long,  
 4 ins. sq. with marked  
 stone 24 ins. in the ground,



through T. 16 S. R. 24 E.

Chains

for  $\frac{1}{4}$  sec. cor., marked  
 $\frac{1}{4}$  S. on N. face; dig  
 pits 18x18x12 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.

72.15 Trail <sup>bars</sup> N.E. and S.W.

73.15 Trail <sup>bars</sup> N. and S.

79.24 Trail <sup>bars</sup> N.W. and S.E.

80.00 Set a pine post 3 ft.  
 long, 4 ins. sq, with  
 marked stone 24 ins.  
 in the ground for cor.  
 of secs. 13, 14, 23 and 24,  
 marked

T. 16 S. S. 13 on N.E.

R. 24 E. S. 24 on S.E.

S. 23 on S.W. and

## Auxiliary Base Line

Chains

S. 124 on N.W. faces, with  
1 notch on E. and 3 notches  
on S. 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 level

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

N 89° 50' W., bet. secs 14<sup>th</sup> & 23

Over level land

- 1.17 Dry wash 8 lks. wide, course E.  
24.87 Trail bears N. and S.  
28.45 Trail bears N.W. and S.E.  
36.30 Trail bears N.W. and S.E.  
37.61 Trail bears N.W. and S.E.  
40.00 Set a pine post 3 ft. long

through T. 16 S. R. 24 E.  
chains

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 18x18x12 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.

40.91 Trail, bears N. W. <sup>and</sup> S. E.

40.93 Trail, bears N. W. <sup>and</sup> S. E.

47.62 Trail, bears N. <sup>and</sup> S.

49.72 Road, from Sulphur  
Spring Valley to Cache  
and Willcox, bears  
North Westerly and South  
Easterly

53.52 Trail, bears N. E. <sup>and</sup> S. W.

54.54 Trail, bears N. E. <sup>and</sup> S. W.



## Auxiliary Base Line

Chains.

- 57.42 Trail, bears N. E. and S. W.
- 58.40 Old adobe wall, bears N. 33° E.  
S. W. cor. of enclosure bears  
N 1½° E. 13 chs.
- 61.00 Trail, bears N. E. and S. W.
- 79.03 Trail, bears N. E. and S. W.
- 80.00 Set a pine post, 3 ft.  
long, 4 ins. sq., with  
marked stone 24 ins.  
in the ground, for cor.  
of secs. 14, 15, 22 and 23,  
marked
- T 16 S. S. 14 on N. E.  
R. 24 E. S. 23 on S. E.  
S. 22 on S. W. and  
S 15 on N. W. faces;  
with 2 notches on E. and  
3 notches on S. edges,  
dig pits 18 x 18 x 12 ins.,

through T. 16 S. R. 24 E.  
Chains

in each sec.  $5\frac{1}{2}$  ft. dist.  
and raise a mound of  
earth 4 ft. base, 2 ft.  
high W. of cor.

Land, level and gently  
rolling.

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

$N 89^{\circ} 50' W$  bet. sees 15 and 22

Over level and gently rolling  
land

- 34 Trail, bears N. E. <sup>2nd</sup> and S. W.  
10.68 Trail, bears N. <sup>2nd</sup> and S.  
13.85 Trail, bears  $N 60^{\circ} E$  and  $S 60^{\circ} W$ .  
29.85 Trail, bears N. E. and S. W.  
38.00 Enter scattering mesquite  
undergrowth bears  $N^{\frac{2}{3}}$  of S.  
40.00 Set a pine post 3 ft

## Auxiliary Base Line

chains

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  
<sup>post</sup>  
 3 ft. dist. and raise a  
 mound of earth 3  $\frac{1}{2}$  ft.  
 base, 1  $\frac{1}{2}$  ft. high. N. of  
 cor.

61.22 Trail bears N. and S.

78.77 Trail bears N. and S.

80.00 Set a pine post 3 ft  
 long 4 ins. sq. with  
 marked stone 24 ins. in  
 the ground, for cor. of  
 sees. 15, 16, 21 and 22, marked  
 T. 16 S. S. 15 on N.E.  
 P. 24 E. S. 22 on S.E.



through T. 16 S. R. 24 E.

chains

S. 21 on S. W. and  
S. 16 on N. W. faces; with  
3 notches on E. and S.  
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.

Land, level and gently rolling  
Soil, loam; 2<sup>nd</sup> rate  
No timber; undergrowth  
scattering mesquite.

289050' W. bet. secs. 16<sup>2d</sup> & 21

Over level & gently rolling land

2.22 Trail, bears N. and S.

13.00 Leave scattering mesquite  
undergrowth bears N<sup>2</sup> of S.

18.70 Trail, bears N 10° E <sup>2</sup>/<sub>3</sub> of S 70° W.

## Auxiliary Base Line

Chains.

- 23.10 Trail bears N. and S.
- 39.96 Trail bears N. and S.
- 40.00 Set a pine 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.
- 65.10 Trail bears N. and S.
- 80.00 Set a pine post 3 ft. long  
4 ins. sq. with marked  
stone 24 ins. in the ground  
for cor. of secs. 16, 17, 20  
and 21, marked  
T. 16 S. S. 16 on N.E.  
R. 24 E. S. 21 on S.E.

through T. 16 S. R. 24 E. 5  
rainb.

S. 20 on S. W. and  
S. 17 on N. W. faces; with  
4 notches on E. and 3  
notches on S. edges;  
digg pits 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 and gently rolling  
Soil, loam; 2<sup>nd</sup> rate  
No timber

N 89° 50' W. bet. secs. 17 and 20  
Over level and gently rolling  
land

15.60 Trail, bears N 60° E and S 60° W

33.74 Trail, bears N and S.

34.98 Trail, bears N. and S.



## Auxiliary Base Line

Chains.

- 40.00 Set a pine 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 mound of earth, 3  $\frac{1}{2}$  ft. base, 1  $\frac{1}{2}$  ft. high, N. of cor.
- 44.57 Trail, bears N. and S.
- 59.37 Trail, bears N. and S.
- 63.61 Trail, bears N. 75° E. and S. 75° W.
- 72.02 Trail, bears N. N. E. and S. S. W.
- 80.00 Set a pine post 3 ft. long 4 ins. sq. with marked stone 24 ins. in the ground for cor. of secs. 17, 18, 19  $\frac{3}{4}$  20, marked

through T. 16 S. R. 24 E.  
chain.

T. 16 S. S. 17 on N. E.  
R. 24 E. S. 20 on S. E.  
S. 19 on S. W. and  
S. 18 on N. W. faces;  
with 5 notches on E.  
and 3 notches on S.  
edges; dig pits 18x18x12  
ins. in each sec.  $5\frac{1}{2}$  ft.  
dist; and raise a mound  
of earth, 4 ft. base, 2 ft.  
high W. of cor.

Land level and gently rolling  
Soil, loam; 2<sup>nd</sup> rate  
No timber

N  $89^{\circ}50'$  W. bet. secs. 18 and 19  
Over gently rolling land

11.49 Trail, bears N. E. and S. W.

11.95 Trail, bears N. E. and S. W.

## Auxiliary Base Line

Chains.

40.00 Set a pine 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 18x18x12 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.

47.42 Old road, bears N.N.E. and S.S.W.

59.88 Set a sand stone 16x7x5 ins. 12 ins. the ground, for cor. of secs. 13, 18, 19 and 24, marked

S. 16 S, on N.E

R. 24 E, on S.E. and

R. 23 E, on N.W. faces, with 3 notches on N. and S. edges, dig pits 18x18x12 ins. in each



through T. 16. S. R. 24 E.

Chairs.

see.  $5\frac{1}{2}$  ft. dist, and raise  
a mound of earth 4 ft.

base, 2 ft. high, W. of cor.

Land gently rolling

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

No timber.

# Auxiliary Base Line

Chains

- 789°50' N. bet. secs. 13 and 24  
 Over rolling land
- 34.49 Trail bears N.W. and S.E.
- 40.00 Set a pine post 3 ft.  
 long, 4 ins. sq. with  
 marked stone, 24 ins.  
 in the ground, <sup>for 1/4 sec. cor.</sup> marked  
 1/4 S. on N. face; dig  
 pits 18x18x12 ins. E. and  
 W. of post 3 ft. dist.,  
 and raise a mound of  
 earth 4 ft. base, 2 ft. high  
 N. of cor.
- 57.60 Road from Dragoon  
 to Sulphur Spring  
 Valley bears N75° W and S75° E.
- 74.52 Road from Willcox to Mines  
 bears N.N.E. and S.S.W.
- 76.00 Dry wash, 8 lks. wide course N.N.E.

through T. 16 S. R. 23 E.

Chains

79.06 Dry wash 3 lks. course N.N.E.

80.00 Set a quartz stone 15x8x6  
ins. 10 ins. in the ground  
for cor. of secs. 13, 14, 23  
and 24, marked

T. 16 S., on N.E. and  
R. 23 E., on S.E., with  
1 notch on E. and 3  
notches on S. edges;  
dig pits 18x18x12 ins. in  
each sec. 5½ dist.; and  
raise a mound of earth  
4 ft. base, 2 ft. high  
W. of cor. — A mesquite  
6 ins. diam. bears N80½°E.

6.16 chs. <sup>dist.</sup> marked

T. 16 S. R. 23 E. S. 13. B. 5.  
Land rolling  
Soil, loam; 2<sup>nd</sup> rate



# Auxiliary Base Line

Chains

No timber.

N 89° 50' W. bet. secs. 14 and 23

Over rolling land

5.43 Dry wash, 10 krs. wide, course N.

8.20 Dry wash, 8 krs. wide, course N

40.00 Set a pine 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 18x18x12  
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.

46.51 Road from <sup>Summit</sup> Dragon, to  
Mines bears N. W. and S. E.

64.05 Dry wash, 20 krs. wide, course N. E.

through T. 16 S. R. 23 E.

chains

- 64.82 Trail, bears N. and S.  
 69.91 Trail, bears N.E. and S.W.  
 79.12 Dry wash, 50 lks. wide, course N  
 79.82 Trail, bears N. and S.  
 80.00 Set a limestone  $18 \times 12 \times 12$   
 ins., 12 ins. in the ground  
 for cor. of secs 14, 15, 22  
 and 23, marked  
 T. 16 S. on N.E. and  
 R. 23 E. on S.E. faces,  
 with 2 notches on E. and  
 3 notches on S. edges;  
 dig pits  $18 \times 18 \times 12$  ins.  
 in each sec.  $5\frac{1}{2}$  ft. dist.,  
 and raise a mound of  
 earth 4 ft. base, 2 ft  
 high W. of cor.  
 Land rolling  
 Soil gravelly loam; 3<sup>rd</sup> rate

# Auxiliary Base Line

Chains

No timber

Nov. 11. 1895.

N 89° 50' W. bet. secs. 15 and 22

Over rolling land

- .20 Dry wash, 5 lks wide, course N. E.
- 15.48 Trail, bears N. E. and S. W.
- 22.50 Dry wash, 20 lks. wide, course N 80° W.
- 30.52 Dry wash, 6 lks. wide, course North
- 40.00 Set a limestone 15 x 12 x 12 ins.  
10 ins. in the ground for  
¼ sec. cor., marked ¼  
on N. face; dig pits 18 x 18 x 12  
ins. E. and W. of stone 3 ft.  
dist; and raise a mound  
of earth 3½ ft. base, 1½  
ft. high N. of cor.
- 43.61 Trail, bears N. E. and S. W.
- 48.18 Trail, bears N. E. and S. W.
- 49.11 Old road bears N. E. and S. W.



through T. 16 S. R. 23 E.

chains

- 49.68 Dry wash, 40 lks. wide, course N.E.  
 71.90 Road from Tombetons  
 to Willcox, bears N.E.  $\frac{2}{3}$  S.W.  
 72.54 Trail, bears N.W. and S.E.  
 79.30 Wash; 20 lks. wide, course N.W.  
 80.00 Set a quartz stone 15x12x6  
 ins., 10 ins. in the ground  
 for cor. of sec's. 15, 16, 21  $\frac{2}{3}$  22  
 marked

T. 16 S. on N.E. and  
 R. 23 E. on S.E. faces;  
 with 3 notches on E. and  
 S. edges, and raise a  
 mound of stone, 2 ft. base,  
 1½ ft. high, W. of cor. Pits  
 impracticable.

Land rolling

Soil, gravelly loam, 3<sup>rd</sup> rate  
 No timber

## Auxiliary Base Line

Chains.

- $N 89^{\circ} 50' W.$  bet. sec. 16 and 21  
Over rolling land
- 18.20 Trail, bears N. and S.
- 23.76 Trail, bears N. and S.
- 30.00 Small enclosure, bears N. about 30 chs.
- 40.00 Set a limestone  $12 \times 12 \times 12$   
ins., 8 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.
- 62.10 Trail, bears N. W. and S. E.
- 75.43 Dry wash, 8 lks. wide, course N. W.
- 80.00 Set a lime stone  $18 \times 12 \times 6$   
ins., 12 ins. in the ground  
for cor. of sec. 16, 17, 20<sup>and</sup>  
21, marked

through T. 16 S. R. 23 E.  
chains

T. 16 S. on N.E. and  
R. 23 E. on S.E. faces;  
with 4 notches on E. and  
3 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 rolling

Soil, gravelly loam; 3<sup>rd</sup> rate  
No timber.

289° 50' W. bet. secs. 17 and 20

Over rolling land

13.92 Trail, bears N.W. and S.E.

15.62 Trail, bears N. and S.

33.38 Trail, bears N. 60° W. 2/3 of 160° E.

40.00 Set a limestone 15 x 10 x 8 in.



## Auxiliary Base Line

Chains

10 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.

- 41.22 Trail bears N. and S.
- 63.50 Road from <sup>Summit</sup> Dagoon<sub>1</sub> to <sup>beam</sup> Willcox<sub>1</sub>, N  $56^\circ$  E  $\frac{2}{3}$  of S  $56^\circ$  W
- 64.37 Wire fence, bears N  $56^\circ$  E  $\frac{2}{3}$  of S  $56^\circ$  W.
- 64.82 Telegraph line bears N  $56^\circ$  E  $\frac{2}{3}$  of S  $56^\circ$  W.
- 66.12 Middle of single track of the Southern Pacific Railroad bears N  $56^\circ$  E  $\frac{2}{3}$  of S  $56^\circ$  W.
- 67.42 Telegraph line, bears N  $56^\circ$  E  $\frac{2}{3}$  of S  $56^\circ$  W.
- 67.82 Trench, 20 lks. wide, course N  $56^\circ$  E.
- 69.93 Wire fence, bears N  $56^\circ$  E  $\frac{2}{3}$  of S  $56^\circ$  W.

through T. 16 S. R. 23. E.  
chains

73.10 Dry wash, 10 lks. wide, course N.E.

80.00 Set a quartz stone 15 x 12 x 6  
ins., 10 ins. in the ground  
for cor. of secs. 17, 18, 19  $\frac{2}{3}$  20,  
marked

T. 16 S. on N.E. and  
R. 23 E. on S.E. faces;  
with 5 notches on E. and  
3 notches on S. edges;  
dig pits 18 x 18 x 12 ins. in  
each sec. 5  $\frac{1}{2}$  ft. dist.; and  
raise a mound of earth  
4 ft. base, 2 ft. high W. of cor.  
Land rolling

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

No timber

N 89° 50' W. bet. secs 18 and 19  
Over rolling land

Auxiliary Base Line through T. 16 S. R. 23 E  
chains.

- 18.50 Road from Dragoon Summit  
to Russellville and Mines  
bears N.W. and S.E
- 40.00 Set a limestone  $15 \times 10 \times 5$   
ins., 10 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.
- 44.42 Trail, bears N. and S.
- 44.62 Road from Dragoon, bears  
N. and S.
- 59.88 The cor. of secs. 13, 18, 19  
and 24. Tps. 16 S. R. 22<sup>2</sup>/<sub>2</sub> E. 23 E.  
Sand rolling  
Soil loam; 2<sup>nd</sup> rate  
No timber. Nov. 12. 1895.



East boundary of T. 16 S. R. 23 E.  
chains.

I begin at cor. of secs.  
13, 18, 19 and 24 of Tps.  
16 S. R's. 23 and 24 E.,  
which I established Nov.  
11. 1895.

December 30. 1895: At  
9<sup>h</sup> 30<sup>m</sup>. a. m., l. m. t., I  
set off  $32^{\circ} 3'$  on the lat.  
arc.  $23^{\circ} 9'$  on the decl. arc,  
and determine a true  
meridian with the solar.

Thence I run

North, bet. secs. 13 and 18  
Over rolling land

7.13 Trail, bears N. E. and S. W.

40.00 Set a pine post 3 ft. long  
4 ins. sq. with marked  
stone 24 ins. in the ground  
for  $\frac{1}{4}$  sec. cor., marked

## East boundary of

Chains

- $\frac{1}{4}$  S. on W. face; dig  
 pits 18x18x12 in. 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.
- 45.90 Begin descent
- 49.30 Foot of descent and enter  
 draw, course Easterly
- 57.36 Trail, bears E. and W.
- 57.55 Road from Dragoon Summit  
 bears Easterly and Westerly
- 58.80 Leave draw, and ascend
- 60.70 To top of ascent, bears  
 Easterly and Westerly
- 61.70 Wire fence, bears N.W. and S.E.
- 62.32 Wire fence, bears N.E. and S.W.
- 72.62 Trail, bears N.E. and S.W.
- 80.00 Set a pine post, 3 ft.

## T. 16 S. R. 23 E. - Continued

Chains

long, 4 ins. sq. with marked  
stone 24 ins. in the ground  
for cor. of secs. 7, 12, 13 and  
18, marked

T. 16 S. S. 7 on N. E.

R. 24 E. S. 18 on S. E.

S. 13. on S. W. and

R. 23 E. S. 12 on N. W. faces;

with 4 notches on S. and  
2 notches on N. edges;

dig pits 18x18x12 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 gently rolling.

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

No timber



## East boundary of

Chains

- North, bet. secs. 7 and 12  
 Over gently rolling land
- 18.48 Trail, bears N. E. and S. W.
- 18.78 Trail, bears N. E. and S. W.
- 18.97 Trail, bears N. E. and S. W.
- 21.37 Old road, bears N. E. and S. W.
- 25.27 Trail, bears N. E. and S. W.
- 25.48 Trail, bears N. E. and S. W.
- 40.00 Set a pine 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.
- 42.35 Trail, bears N. E. and S. W.

## T. 16 S. R. 23 E. - Continued

chains

44.27 Dry wash, 75 lbs wide, course Easterly

45.75 Trail, bears N.E. and S.W.

75.78 Trail, bears N.E. and S.W.

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

T. 16 S. T. 6 on N.E.

R. 24 E. T. 7 on S.E.

S. 12 on S.W. and

R. 23 E. S. 1 on N.W. faces,

with 5 notches on S,  
and 1 notch on N. edge,dig pits 18x18x12 ins. in  
each sec. 5½ ft. dist. andraise a mound of earth  
4 ft. base, and 2 ft. high,  
W. of cor.

## East boundary of

Chains

in the ground, for  
closing cor. of Tps. 16 S.,  
Rs. 23 and 24 E., marked  
C.C., on S., with 6 grooves  
on S., E. and W. faces;  
dig pits, 30 x 24 x 12 ins.,  
crosswise on each line,  
E. and W., 4 ft., and S.  
of stone, 8 ft. dist.; and  
raise a mound of earth  
5 ft. base, 2½ ft. high, S  
of cor.

Land gently rolling  
Soil, sandy loam; 2<sup>nd</sup> rate  
No timber

---

I now return to cor.  
to secs. 13, 18, 19 and 24,  
Tps. 16 S. Rs. 23 and 24 E.



## T. 16 S. R. 23 E. — Continued

Chains

and run

South, bet. secs. 19 and 24

Over level land

10.53 Road from Dragoon Summit

to Sulphur Spring Valley

bears  $N 80^{\circ} W.$  and  $S 00^{\circ} E$ 

26.00 Enter dense undergrowth

bears N.W. and S.E.

40.00 Set a limestone  $18 \times 8 \times 5$ 

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. N., and S.

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.

67.70 Trail, bears E. and W.

80.00 Set a limestone  $15 \times 10 \times 4$

## East boundary of

Chains

ins., 10 ins. in the ground  
for cor. of sec. 19, 24, 25  
and 30, marked

T. 16 S. on N. E.

R. 24 E. on S. E. and

R. 23 E. on N. W. faces;

with 2 notches on S.

and 4 notches on N. 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.

Land level

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

No timber; undergrowth  
sage.

Dense undergrowth 54 chs.

## T. 16 S. R. 23 E. — Continued

Chains

South, bet. secs. 25 and 30  
Over level land through  
dense undergrowth

29.00 Leave dense undergrowth  
bears E. and W.

40.00 Set a pine post, 4 ft.  
long, 4 ins. <sup>dia</sup> 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 sand stone 18 x 12 x  $\frac{1}{2}$   
ins., 12 ins. in the ground  
for cor. of secs. 25, 30, 31  
and 36, marked



East boundary of  
Chains

T. 16 S. on N.E.,  
R. 24 E. on S.E. and  
R. 23 E. on N.W. faces;  
marked with 1 notch on S. and 5 notches  
on <sup>the</sup> 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, sandy loam; 2<sup>nd</sup> rate  
No timber, undergrowth  
sage and mesquite.

Dense undergrowth, 29 chs.

South, bet. secs. 31 and 36

Over level and gently  
rolling land

.15 Old trail, bears N.E. and S.W.

1.04 Trail, bears N.E. and S.W.

## T. 16 S. R. 23 E. - Continued

Chains.

- 20.00 Enter dense undergrowth bears E. and W.
- 38.50 Road to Mines, bears N. W. and S. E.
- 40.00 Set a sand stone  $18 \times 7 \times 6$  ins., 12 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on W. face; dig pits  $18 \times 18 \times 12$  ins., N. and S. 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.
- 43.60 Dry wash, 10 lks. <sup>wide</sup> course Easterly
- 48.89 Trail, bears Easterly and Westerly
- 60.50 Dry wash, 15 lks. wide, course Easterly
- 70.15 Trail, bears N. E. and S. W.
- 80.00 Set a pine post, 3 ft. long, 4 ins. sq., with

## East boundary of

Chains

marked stone, 24 ins.  
 in the ground for cor.  
 of Tps. 16 and 17 S., R's  
 23 and 24 E., marked  
 T. 16 S., S. 31 on N.E.  
 R. 24 E., S. 6. on S.E.  
 T. 17 S., S. 1. on S.W. and  
 R. 23 E. S. 36 on N.W. faces.  
 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 post, 8 ft. dist.;  
 and raise a mound of  
 earth, 5 ft. base, 2½ ft.  
 high, S. of cor.

Land level and gently  
 rolling

Soil, gravelly loam; 2<sup>nd</sup> rate  
 Timber, a few cedar trees;  
 undergrowth, sage



T. 16 S. R. 23 E - Concluded

Chains.

Dense undergrowth, 60chs.

December 30, 1895

South boundary of  
Chains.

I begin at corner of  
Tps. 16 and 17 S., R. 24<sup>and 25</sup> E. which I reestablished  
November 14. 1895

December 31. At 9<sup>h</sup> 15<sup>m</sup>  
a. m., l. m. t., I set off  
32° 0' on the lat. arc,  
23° 5' S., on the decl. arc,  
and determine a true  
meridian with the solar  
I hence I run

West on a random line  
along the S. bdy. of  
T. 16 S., R. 24 E., setting  
temp. 1/4 sec. and sec.  
cors. at intervals of 40.00  
chs.; and 460.00 chs.,  
intersect west boundary  
of T. 16 S. R. 24 E.

## T. 16 S. R. 24 E.

Chains

120 lks S. of the cor. of  
Tps. 16 and 17 S., Rs. 23 and  
24 E., as heretofore des-  
cribed. The falling  
answers to a correction  
of  $0^{\circ} 9'$ , or 21 lks. N. per  
mile counting from the  
S. W. cor. of the Tps.; there-  
fore Run

S 89° 51' E., bet. secs. 6<sup>2</sup> of 31.

Over level land through  
dense sage and mesquite  
undergrowth

11.77 Road, bears N. and S.

20.00 Set a pine 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.



South boundary of  
 Chains  
 on N. face; dig pits  
 18x18x12 ins., E. and W.  
 of post 3 ft. dist; and  
 raise a mound of earth,  
 3½ ft. base, 1½ ft. high,  
 N. of cor.

36.00 Leave dense undergrowth  
 bears N. and S.

36.76 Trail, bears N.E. and S.W.

58.45 Trail, bears N.E. and S.W.

60.00 Set a pine 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. 16 S., S. 32 on N.E.,  
 R. 24 E., S. 5 on S.E.,  
 T. 17 S., S. 6 on S.W.,

## T. 16 S. R. 24 E. - Continued

Chains.

S. 31 on N.W. faces; with  
 5 notches on E. and  
 1 notch 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.  
 Land gently rolling  
 Soil, gravelly loam, 3<sup>rd</sup> rate  
 No timber. Undergrowth  
 sage and mesquite.  
 Land covered with  
 dense undergrowth 36 chs.

S 89° 51' E, bet. secs. 5 and 32

Over level land

- 11.21 Trail, bears N.N.E. <sup>2</sup>/<sub>3</sub> of S.S.W.  
 17.00 Begin descent  
 17.50 Foot of descent, bears N.N.E.

- South boundary of
- Chains and S.S.W. and enter draw  
course N.N.E
- 17.82 Trail, bears N. and S.
- 18.25 Leave draw and ascend
- 19.00 Top, bears N.N.E and S.S.W.
- 25.05 Trail, bears N.E. and S.W.
- 33.60 Trail, bears N.N.E. and S.S.W.
- 40.00 Set a pine 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.
- 47.44 Trail, bears N. and S.
- 80.00 Set a pine post, 3 ft.



## T. 16 S. R. 24 E. - Continued

Chains

long, 4 ins. sq., with marked  
stone 24 ins. in the ground,  
for cor. of secs. 4, 5, 32 and 33,  
marked

T. 16 S. S. 33 on N.E.,

R. 24 E., S. 4 on S.E.,

T. 17 S. S. 5 on S.W. and

S. 32 on N.W. faces, 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.

Land level

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

No timber.

S 89° 51' E. bet. secs 4 and 33

South boundary of  
Chains

- Over level land
- 7.49 Trail, bears N.E. and S.W.
- 27.45 Trail, bears N.N.E. and S.S.W.
- 37.50 Trail, bears N.N.E. and S.S.W.
- 40.00 Set a pine 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,  
18x18x12 ins., E. and W. of  
post, 3 ft. dist; and raise  
a mound of earth, 4 ft.  
base, 2 ft. high, N. of cor.
- 53.44 Trail, bears N.E. and S.W.
- 80.00 Set a pine post, 3 ft.  
long, 4 ins. sq., with  
marked stone 24 ins. in  
the ground for cor. of  
secs. 3, 4, 33 and 34,

## T. 16 S. R. 24 E. - Continued

Chains

marked

T. 16 S., S. 34 on N.E.

R. 24 E., S. 3 on S.E.

T. 17 S., S. 4 on S.W. and  
S. 33 on N.W. faces; with

3 notches on E. and 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 level

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

No timber

S 89° 51' E, bet. sees. 3 and 34

Over level land

10.73 Trail, bears N.E. and S.W.

12.00 Trail, bears N.E. and S.W.



South boundary of T. 16 S. R. 24 E.

Chains

- 40.00 Set a pine 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 18x18x12 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.
- 43.55 Trail, bears N.E. and S.W.
- 60.35 Trail, bears N.E. and S.W.
- 72.48 Trail, bears N.E. and S.W.
- 73.19 Old road leading to Rockefeller's ranch, bears Northerly and Southerly
- 80.00 Set a pine post, 3 ft. long, 4 ins. sq., with marked stone, 24 ins.

Concluded, Book 1597