

*"Book I"*  
*Survey and Survey*  
South Bdy's. Secs. 31-32-33.

T23 N., R. 7 E.,

Lamport - No. 98.

1550

BOOK 1550

4-671

FIELD NOTES  
GENERAL LAND OFFICE.

~~See Book "I" Sub. T23 N. R. 7 E.  
for survey~~

1550

1550

BOOK

1550

(For preliminary & the subs.)  
(T 23 N R. 7 E.)

Field Notice

of the survey of part of  
South Boundary

of

Township 23 North, Range 7 East

of the

Gila & Salt River Base & Meridian,  
in the

Territory of Arizona.

as surveyed by.

James A. Lampart,

U. S. Deputy Surveyor,

Under his Contract No. 98.

Dated June 30-1902.

Survey commenced July 7-1903.

Survey completed July 10-1903.

Names & Duties of assistants

Fred. C. Roberts,	Flagman
Wm. H. Lockridge,	Chairman.
Archie McDermid,	Seaman.
Wm. L. Bradley,	Chairman
<del>Frank Spers</del>	

BOOK 1550

Index.

Sp. 23 N. R. 7 E.

31.	32.	33.	34.	35.	36.
7.	9-12.	10.			
6	5	4	3.	2.	1.

chs.

survey, part I. Sdy T. 23 N. R. 7 E.

Survey commenced on July 7-1903,  
and executed with a W. & L. E.

Gurley Solar transit No. 15,

The horizontal limb is provided  
with two opposite verniers, reading  
to single minutes of arc, which,  
also, is the least count of the  
latitude and declination arcs.

Examine the adjustments  
of the transit, and correct the  
level and collimation errors;  
then, to test the solar apparatus  
by comparing its indications, re-  
sulting from a.m. and P.M.  
observations, with a true meri-  
dian determined by observations  
on Polaris, I proceed as follows:

At the cor. of Tps. 22 and 23,  
N., R. 6 and 7 E.; Latitude  $35^{\circ}20'N.$ ,  
long.  $111^{\circ}34' West$ , I set off  $35^{\circ}20'N.$



chs.

survey Part I. Ldy. Pp. 23 N. R. 7 E

on lat. arc, and  $22^{\circ} 40' N.$  on  
 decl. arc, and at 2 h. 40 m. P.M.  
 l.m.t., determine a true meridian  
 with the solar, and mark a  
 point thereof on a stone,  
 firmly set in the ground, 5.00  
 chs. N. of Cor.

July 7-1903.

July 8-1903. at 12 h. 18 m. A.M.  
 l.m.t., I observe Polaris at Eastern  
 elongation, in accordance with  
 Manual of Instructions, and  
 mark a point in the line thus  
 determined, on a plug driven  
 5.00 chs. N. of my station.

At 6 h. 15 m. A.M. l.m.t.,  
 I lay off the Azimuth of Polaris  
 $1^{\circ} 29'$  to the West, and mark the

Chs. survey Part I bdy. T 23 N. R 7 E (C<sup>2</sup>)

True Meridian thus determined by a small groove cut in the stone set on July 7, on which the true meridian falls 0.25 ins east of the mark determined with the solar.

At 7 h. A.M. L.M.T. I set off  $35^{\circ} 20'$  N. on lat. arc, and  $22^{\circ} 36'$  N. on decl. arc, and mark a point in the true meridian determined with the solar, by a cross on the stone already set, 5 chs. N. of my station. This falls 0.25 ins east of the true meridian established by the Polaris observation.

The solar apparatus by a.m. and P.M. observations defines positions for true meridians  $13''$  East and West of the meridian

Chs. Survey Part I. Sdy. T. 23 N., R. 7 E. (Chs.)

established by the Polaris observation. I therefore conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian at 7h. 35m. a.m. l.m.t. is  $N. 14^{\circ} 34'$  West, the angle thus determined, when reduced by the table p. 100, gives the mean mag. decl.  $14^{\circ} 30' E.$

July 8<sup>th</sup> 1903: At 7h. 05m. a.m. l.m.t., I set off  $35^{\circ} 20' N.$  on the lat. arc, and  $22^{\circ} 36' N.$  on the decl. arc, and determine a true meridian with the solar at the cor. of Tps. 22 and 23 N., Rs. 6 and 7 E. Mean mag. decl.  $14^{\circ} 30' E.$ , Thence I run,

Chs. survey, Part I. Tdy. T. 23 N. R. 7 E. (Ct.)

East on a random line on Tdy.  
of Sec. 31.

39.00

Intersect  $\frac{1}{4}$  Sec. cor. bet. secs.  
6 and 31, which is a granite  
stone  $14 \times 4$  ins., 12 ins. above ground,  
properly marked and witnessed as  
described by the Surveyor General.

80.20

Intersect the cor. to secs. 5-6-31 &  
32, which is a granite stone  $22 \times 18 \times$   
6 ins. on stony ground, in mound  
of stone, marked with 1 notch on  
N. and 5 notches on E. edges,

I find that a fire has destroyed  
all the bearing trees to this corner.  
Therefore, I mark new bearing trees,  
as follows:

a spruce 12 ins. dia. bears N.  $29^{\circ}$  E.  
108 lbs dist, marked T. 23 N. R. 7 E.  
T. 32 ST.



Chs survey Part I. Idy. T. 23 N. R. 7 E (97)

a pine 12 in. dia. hrs. T. 52°  
30' E, 81 lbs. dist. marked T. 22 N. R. 7 E  
T. 5 D. T.

a spruce 8 in. dia. hrs. T. 63° N.  
100 lbs. dist. marked T. 22 N. R. 7 E.  
T. 6 D. T.

a spruce 14 in. dia. hrs. N. 66° W.  
101 lbs. dist. marked T. 23 N. R. 7 E.  
T. 31 D. T.

This cor stands nearly at the  
top of Mt. Agassiz.

July 8-1903.

July 9, 1903. At 7h 3m. a.m. l. mt.  
Get off 35° 20' N, on lat. arc, and  
22° 29' N. on decl. arc, and deter-  
mine a true meridian with the  
solar at the corner of Decs. 5-6-  
31 & 32.

Chs. survey Part I. Eddy. S. 23 N. R. 7 E. (C. 5)

Thence I run

East on random line along I. Eddy.  
of Sec. 32.

40.00

Intersect  $\frac{1}{4}$  Sec. cor., which is a  
granite stone,  $20 \times 12 \times 8$  ins. on  
stony ground, in mound of stone,  
properly marked.

As the monument is in bad  
condition, I re-established it by  
raising a mound of stone 3 ft.  
base,  $1\frac{1}{2}$  ft high, N. of cor.

50.00

At 5.62 chs. North, I find faint  
traces of old cor., a stone lying  
loosely on ground, which I re-  
establish, as follows:

Set a sandstone  $20 \times 18 \times 4$  ins.,  
14 ins. in the ground, for cor. of  
secs. 4-5-32 & 33, marked with  
4 notches on the E. & 2 notches on

chs. survey Part I bdy. of T. 23 N. R. 7 E. (ctd)

the N. edges, and raise a mound of stone 3 ft. base,  $1\frac{1}{2}$  ft. high N of cor. Pits impracticable.

From said cor I run  
on a random line  
East along S. bdy. Sec. 33.

40.00 Set temp  $\frac{1}{4}$  Sec. cor.

89.00 Intersect cor to Secs. 3 and 4, which is a granite stone in place  $2 \times 2$  ft., 1 ft. above ground, properly marked and witnessed as described by the Surveyor General.

Thence I run

West on true line, along S. bdy. of Sec. 33.

Descend, along S. slope of mountain through heavy spruce timber.

12.00 Leave green timber, bdy. N. of S.

Chs. survey Part I. bdy. Sp. 23 N. R. 7 E. (179)

Enter dead timber.

16.00 Foot of steep descent, thence slight descent, crossing pass between two mountains, bears S.W. & N.E.

25.00 Steep descent, along N. slope of mountain.

38.00 Enter green timber, bears N.W. & S.E.

49.00 a spruce tree 6 ins. dia. for  $\frac{1}{4}$  sec. cor. I mark  $\frac{1}{4}$  S. 33 on N.

✓ side for  $\frac{1}{4}$  cor. to Sec. 33 only; from which

a spruce 8 ins. dia. bears N.  $86^{\circ}$  E., 5 lks dist, marked  $\frac{1}{4}$  S. 33 D.T.

a spruce 16 ins. dia. bears S.  $33^{\circ}$  E. 9 lks dist, marked  $\frac{1}{4}$  S. 4 D.T.

50.00 Slight ascent, along N. slope of mountain.

58.00 Enter slide-rock, bears N. & S.



Chs survey Part I. Sdy. Sp. 23 N. R. 7 E. (C8)

60.00 Leave green timber, enter  
scattering dry timber, bears  
N. & S.

89.00 Cor. of Tacs. 4-5-32 & 33, pre-  
viously described by me.

Land, mountainous  
Dark, stony; 4' rate.

Timber, spruce

Mountainous land, 89.00 chs.

July 9-1903.

July 10-1903. At 7h. a.m. l.m.t.  
I set off  $35^{\circ} 20'$  N on the lat. arc,  
and  $22^{\circ} 22'$  N on the decl. arc,  
and determine a true meridian  
with the solar at the cor. of  
Tacs 4-5-32 & 33.

Hence I run

$S. 82^{\circ} 00'$  N. on true line, along

chs - survey, Part T. Eddy T. 23 N. R. 7 E. (72)

T. Eddy, Dec. 32.

Over large boulders; through  
dead spruce timber, Ascend.

8.00 Enter live spruce timber, bears  
N.E. & T.W.

10.00 Steep ascent, along E. slope of  
mountain.

15.00 Leave timber, bears N.E. & T.W.

40.39 Intersect  $\frac{1}{4}$  Dec. cor.; already  
described.

This cor. stands on E. slope  
of Mt. Agassiz, about 200 ft.  
below summit

Hence W. on T. Eddy, Dec. 32.

7.00 Top, bears N. & T. Descend.

40.00 The cor. of Decs. 5-6-31+32.  
already described.

Land, mountainous.

Soil, stony, 4th rate.

Survey Part I body T. 29 N. R. 7 E

Timber, spruce.

Mountainous land, 80.39 cts.

July 10th, 1903

July 10-1903. At this cor. I set off  $22^{\circ} 20' N$  on decl. arc, and at 0 h. 6 m. l.m.t., I observe the Sun on the meridian. The resulting latitude is  $35^{\circ} 20' N$ .

### General Description.

All of the I. body of this T. except Sec. 36, is very rough, and is nearly all inaccessible, being in the San Francisco mountains.

The timber is pine, spruce,

Survey Part I. bdy T. 23 N. R. 7 E.

and aspens. There is good  
hunch-grass grazing on most  
of the township.

There is living water on  
Secs. 27 and 33.

W. J. Deputy Surveyor.

Table 1 also & D-2 follow



Line Designated.	True bearing.	Dist.	Latitude		Departures	
			N.	S.	E.	W.
I. bdy. Dec. 35.	West.	70.67	—	—	—	70.67
I. bdy. Dec. 34.	West	88.70	—	—	—	88.70
I. bdy. Dec. 33.	West.	80.00	—	—	—	80.00
E. 1/2 I. bdy. Dec. 32.	S. 82° 00' W.	40.39	—	5.62	—	40.00
W. 1/2 I. bdy. Dec. 32.	West.	40.00	—	—	—	40.00
W. bdy. Dec. 32.	N. 0° 3' W.	79.90	79.90	—	—	.07
W. bdy. Dec. 29.	N. 0° 3' W.	80.40	80.40	—	—	.07
N. bdy. I. 29.	S. 89° 49' E.	80.30	—	.26	80.30	—
W. bdy. I. 21.	N. 0° 10' E.	79.80	79.80	—	.21	—
N. bdy. I. 21.	N. 89° 51' E.	80.00	.21	—	80.00	—
N. bdy. I. 22.	S. 89° 59' E.	85.10	—	.02	85.10	—
N. 1/2 W. bdy. Dec. 23.	S. 2° 22' E.	40.30	—	40.27	1.66	—
S. 1/2 W. bdy. Dec. 23	S. 8° 00' W.	39.50	—	39.12	—	5.49
N. 1/2 W. bdy. Dec. 26.	S. 0° 1' E.	38.50	—	38.50	.01	—
S. 1/2 W. bdy. Dec. 26.	S. 11° 00' E.	39.60	—	38.84	7.72	—
N. bdy. Dec. 35.	East.	70.50	—	—	70.50	—
E. bdy. Dec. 35. contingency,	S. 0° 0' E.	77.00	—	77.00	.02	—
					.13	
	Totals.		240.31	239.63	325.66	325.00
			239.63		325.00	
	Error in lat.		.68	Error. Dep.	.66	

James A Sampson  
U. S. Deputy Surveyor.

(For final cut see Subs. T237,  
R78.)

## A P P R O V A L.

Office of the

United States Surveyor-General,

Phoenix, Arizona.

*2/27/04**Feb. 27 - 1904*

The foregoing field notes of the survey  
of *South Base, sec 31-32-33 of*

*T. 23 N., R. 7 E.*

of the Gila and Salt River Base and Me-  
ridian, in the Territory of Arizona,

Executed by *James A. Lampart*

United States Deputy Surveyor, under his  
contract No. 98, dated *June 30* 1902,

having been critically examined, and the  
necessary corrections and explanations  
made, the said field notes, and the sur-  
veys they describe, are hereby approved.

*Frank A. Ingalls*  
U. S. Surveyor-General.