

*Handry Book A*  
*North + West of Section 6*

*T. 21 N., R. 8 E.*

BOOK 1431

*Lampport, U.S.O.S.*

4-671

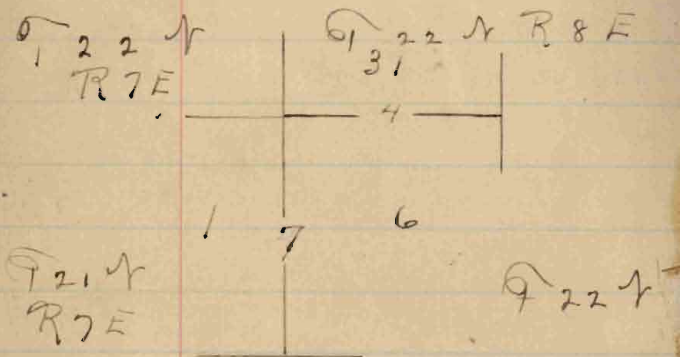
FIELD NOTES  
GENERAL LAND OFFICE.

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BOOK 1431

Field Notes  
of the Survey  
of the  
North & West Boundaries  
of  
T. 21 N. R. 8. E.  
of the  
Gila Salt River Base & Meridian  
in the  
Territory of Arizona  
as surveyed by  
James H. Lambert  
U. S. Deputy Surveyor  
under his  
Contract No. 98  
dated June 30, 1902.

Survey commenced May 17, 1903  
Survey completed May 18, 1903.

Survey commenced May 17, 1903 and executed with a W & L E Tinsley Transit No 15, with Solar attachment. The horizontal limb is provided with two opposite verniers reading to single minutes of arc which, also, is the best count of the latitude and declination arcs.

I examine the adjustments of the instrument and correct the collimation and level errors; then, to test the Solar apparatus by comparing its indications resulting from Solar observations made during am and pm hours, with a true meridian determined by observations on Polaris, I proceed as follows:

May 17, at the cor of Tps 21 and 22 & Rs 7 and 8 E Lat.  $35^{\circ} 16'$  & Longitude  $111^{\circ} 34'$  West, at 4 h 3 m pm lmt, I set

off  $35^{\circ} 16'$  Non lat arc, and  
 $19^{\circ} 14'$  Non decl arc,  
 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 the Cor.

May 17, 1903

May 18, 1903: At 3h 48<sup>am</sup> m<sub>1</sub>  
~~lmt~~ by my watch which  
 is set lmt, 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 in the ground  
 5.00 chs N. of my station.

At 6h 30m am lmt. I  
 lay off the azimuth of  
 Polaris  $1^{\circ} 29'$  to the West,  
 and mark the true meridian  
 thus determined by cutting  
 a groove in the stone  
 set May 17, on which the  
 true meridian falls 0.33<sup>ms</sup>  
 east of the mark determined  
 by the Solar.

at 7 am (mt I set off  
 $35^{\circ} 16'$  on lat arc, and  
 $19^{\circ} 29'$  on decl arc, and  
 determine with the Solar  
 a true meridian. I  
 mark a point thereof by  
 a cross cut on the stone  
 already set 5.00 Chs  
 N. of my station. This  
 mark falls about 0.33 ins  
 East of the true meridian  
 established by Polaris  
 observation.

The Solar apparatus, by  
 pm and am observations,  
 defines positions for true  
 meridians about  $12''$  east  
 and west of true meridian  
 established by the Polaris  
 observation. (Therefore, I  
 conclude that the  
 adjustments of the  
 instrument are satisfactory.)  
 The magnetic bearing  
 of the true meridian at  
 7 am is  $N 14^{\circ} 34' W$ .  
 The angle thus determined

North Boundary sec 6 Township 21 N R 8 E

Chains

Gives the mean mag. decl  $14^{\circ} 30' E$

I begin at the Township corner of  
Tps. 21 + 22 N. R. 7 + 8 E. which I  
established May the 16<sup>th</sup> 1903.

Mean Mag. Decl.  $14^{\circ} 30' E$

Thence I run

East on Random Line Bet  
secs 6 + 31. Va.  ~~$14^{\circ} 30'$~~   $14^{\circ} 30'$  E

4000. Set Temp 1/4 sec. corner.

8020 Intersect corner to secs  
5 + 6 + 31 + 32. which is a  
pine stake properly marked  
and witness as discussed  
By the Surveyor General.

From which corner I run.  
West on true line Bet secs  
6 + 31 ascend slight  
through heavy pine timber  
and oak bushes.

800 wash. 20 feet deep 60 feet wide  
Course S.  $40^{\circ} E$  ascend steep

## Chains

2640 Enter dense oak brush bears N and S.

3000 leave oak brush bears W and S.

4000 Set granite stone  $24 \times 24 \times 18$  ins  
for  $\frac{1}{4}$  sec. corner.

16 ins in ground. marked  $\frac{1}{4}$

on N. face. and raised a mound  
of stone  $2\frac{1}{2}$  feet base  $\frac{1}{2}$  feet high  
north of corner. from which a  
pine 18 ins in diam. bears

N  $72^{\circ}30'E$ . 79 lbs dist marked  $\frac{1}{4}$

B 31 B.T. a pine 24 ins in diam

bears S  $61^{\circ}30'E$  60 lbs dist marked

$\frac{1}{4}$  S 6 B.T.

5000 ascend steep up East slope

of Eldin Mountain through

heavy spruce timber

8020 The corner of secs 1 + 6 + 31 + 36

Tp. 21 + 22 N. R. 17 + 18 E.

Rand Mountains and broken.

soil stony  $4\frac{1}{2}$  rate

Timber pine + spruce



Chains mountains and heavy timber  
land. 80.20 chs.

May 18: At this corner, I  
set off  $19^{\circ} 25' N.$  on dec'l  
arc; and at 23 h 56 m am.

I m. h., observe the sun <sup>of</sup>  
the Meridian; the resulting  
latitude is  $35^{\circ} 16' N.$

## West Boundary of sec 6 T21N R7+8 E

Chains I begin at the cor of T's 21 and 22 & R's 7 and 8 E  
 of fence I ~~run~~  
 South on Random line

Bet. secs. 1+6 Pa.  $14^{\circ} 30' E$

4000 set Temp  $\frac{1}{4}$  sec corner.

8040 Intersect The corner of secs.  
 1+6+7+12 which is a pine  
 stake properly marked and  
 witness as described by the  
 surveyor General.

Thence I run.

North on true line Bet secs  
 1+6. over rolling  
 ground through pine timber  
 slight ascend.

3.00 descend.

490 wash 20 lbs wide bears  $S 30^{\circ} E$ .

800 ascend steep south slope of  
 Eldon Mountains over large  
 granite boulders.

4000 Set a granite stone  $30 \times 15 \times 6$   
 20 ins in the ground.  
 ins for  $\frac{1}{4}$  sec corner

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have marked  $\frac{1}{4}$  on west face,  
 and raise a mound of stone  
 $2\frac{1}{2}$  feet base  $1\frac{1}{2}$  feet high. West  
 of corner. From which a  
 pine 8 ins in diam. bear  
 $N 33^{\circ} 30' E$ . 52 lbs dist marked  
 $\frac{1}{4} S 6 B.T.$  A cedar. 8 ins in  
 diam. bear  $S 73^{\circ} W$ . 32 lbs dist  
 marked  $\frac{1}{4} S 1 B.T.$

73.00 Top of mountain 2500 feet  
 above. base of mountain bear  
 $N + W + S + E$ . slight descend.

Through heavy spruce timber

80.40 The corner of Sp. 21 + 22 N Rs.

7 + 8 East. already described

Land mountainous + stonie

Soil stonie 4<sup>TH</sup> rate

Timber spruce + pine + cedar + oak

Mountainous Land. 8040 chs.

May 18<sup>TH</sup> 1903.

James A. Sampson  
 U.S. Geol. Survey.

General Description

The cor. of Tps 21 and 22  
 N. Rs 7 and 8 E is on  
 the highest point of Eldon  
 Mountain at an elevation of  
 9500 ft above sea level  
 Sec 1 and 6 T<sup>s</sup> 12 N. R<sup>s</sup>  
 7 and 8 E, and Sec 31 T<sup>s</sup>  
 22 N R 8 E lie wholly on  
 Eldon Mountain in a  
 rugged country covered with  
 scrubby growths of pine and  
 spruce timber. Bunch grass is  
 good. The land is covered with  
 boulders & worthless except for  
 grazing purposes. There is no living  
 water on these sections except a

small spring near the  
S. side of sec 6 T. 2. R.  
R. S. E.

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Table  
of  
Latitudes & Departures  
of the part of  
Tp 21 N - R 8 E  
Surveyed by  
James A. Lamport  
U.S. Deputy Surveyor.

Line designated	True bearing	Dist- ance	Latitudes		Departures	
			N	S	E	W
S bdy. Sec. 6	<del>W</del> <sup>D. 84° 32' W</sup>	<del>80.10</del> <sup>79.70</sup>		.09		<del>80.10</del> <sup>79.70</sup>
W bdy. Sec. 6	N	80.40	80.40			
N bdy. Sec. 6	E	80.20			80.20	
E bdy. Sec. 6	<del>50° 03' E</del> <sup>D. 2° 08' W</sup>	<del>80.25</del> <sup>79.91</sup>		<del>80.25</del> <sup>79.91</sup>	.07	.18
Convergency					.02	
Totals			80.40	80.25	80.29	80.10
			80.25		<u>79.88</u>	<del>80.29</del>

Error in lat. <sup>40</sup>.15

Error in dep. <sup>34</sup>.19

James A. Sampson  
 U.S. Deputy Surveyor

## A P P R O V A L.

Office of the

United States Surveyor-General,

Phoenix, Arizona.

2/13/04

Feb. 13-1904

The foregoing field notes of the survey of *the N & W Bdr of sec 6. - T21N, R8E*, of the Gila and Salt River Base and Meridian, 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 surveys they describe, are hereby approved.

*Frank S. Ingalls*

U. S. Surveyor-General.