

2756

Book K

2756

# FIELD NOTES

OF THE SURVEY OF THE

BOOK 2756

*First Guide Meridian East through Ia. 17, 18, 19 <sup>4 1/2</sup> D.*

Of the *G. O. R.* Meridian,  
In the State of *Territory of Oregon*

EXECUTED BY

*William H. Elliott*

In the capacity of U. S. Surveyor..., under instructions dated *Aug. 25*, 1910.,

issued by the United States Surveyor General to govern surveys included in

Group No. *2*, which were approved by the Commissioner of the General Land

Office, *September 9*, 1910., pursuant to authority contained in the Act of

Congress dated *June 25*, 1910 <sup>and March 4, 1911</sup>

Survey commenced *June 27*, 1911.

Survey completed *July 6*, 1911.

Note:

For Oaths see Book J.

BOOK 2756

INDEX DIAGRAM.

Township 17 D, Range 4 E.

8	8	9	9	10	10
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14  
 43 8 8  
 10  
 18 0  
 19 0 4  
 20 0  
 21 0

1st Guide Meridian E., through Ts.20 S., bet.Rs.4 and 5 E.

Chains.

Survey commenced June 27, 1911, and executed with a Young and Sons solar transit, No. 8480.  
 For adjustment of instrument see notes of resurvey of the 4th. Standard Parallel South, through Range 3 E., June 22nd and 23rd, 1911, Book J.  
 I begin at the Standard cor. of Ts.20,S., Rs.4 and 5 E., which I established June 27, 1911. Latitude, 31°38' 12"N.; longitude, 111° 52' 55" W.  
 At 8h.30m.a.m., l.m.t., I set off 23°22'N. on the decl.arc, and 31°38'N. on the lat.arc, and determine a meridian with the solar.  
 The magnetic bearing of the meridian is N.13°20'W.; the angle thus determined gives the mag. decl. as 13°20' E.

Thence I run,  
 North, bet. secs. 31 and 36.  
 Over rolling land, through dense brush.  
 23.50 Wash, 20 lks.wide, course NE.  
 Difference between measurements of 40.00 chs. by two sets of chainmen is 2 lks.; position of middle point,  
 By 1st set, 40.01 chs.,  
 By 2nd set, 39.99 chs., the mean of which is  
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for 1/4 sec.cor., marked on brass cap, 1/4 S 36 in W., and 1/4 S 31 in E.half; dig pits, 18x18x12 ins. N.and S. of post, 3 ft. dist., and raise a mound of earth, 3 1/2 ft. base, and 1 1/2 ft. high, W.of cor.  
 Difference bet. measurements of 80.00 chs. by two sets of chainmen is 4 lks., position of middle point,  
 By 1st set, 80.02 chs.,  
 By 2nd set, 79.98 chs., the mean of which is  
 80.00 Set an iron post 3 ft. long, 1 in. in diam., 24 ins. in the ground for cor.of secs.25,30, 31 and 36, marked on brass cap,  
 T 20 S in N.half;  
 R 4 E S 25 in NW.,  
 R 5 E S 30 in NE.,  
 S 31 in SE., and  
 S 36 in SW. quadrant.  
 A mesquite tree, 7 ins. in diam., bears N. 57° 45' W., 113 lks.dist., scribed T 20 S R 4 E S 25 B T.  
 A mesquite tree, 5 ins. in diam., bears N.60°15'E., 112 lks.dist., scribed T 20 S R 5 E S 30 B T.  
 A mesquite tree, 6 ins. in diam., bears S.74°25'W., 150 lks.dist., scribed T 20 S R 4 E S 36 B T.  
 A mesquite tree, 8 ins. in diam., bears S.34°E., 133 lks.dist., scribed T 20 S R 5 E S 31 B T.  
 Land, rolling.  
 Soil, sandy loam, mixed with gravel.  
 Mesquite, catsclaw, palo verde and greasewood.

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 Thence north, bet. secs.25 and 30.  
 Over level land, through dense brush.  
 Difference between measurements of 40.00 chs. by two sets of chainmen is 2 lks., position of middle point  
 By 1st set, 39.99 chs.,  
 By 2nd set, 40.01 chs., the mean of which is  
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground for 1/4 sec.cor., marked on brass cap, 1/4 S 25 in W., and 1/4 S 30 in E.half;  
 A mesquite tree, 5 ins. in diam., bears N. 29°15'W., 113 lks.dist., scribed 1/4 S 25 B T.

## 2. 1st Guide Mer. E., through Ts. 20 S., bet. Rs. 4 and 5 E.

Chains

A mesquite tree, 10 ins. in diam., bears N.86°20'E.,  
173 lks. dist., scribed  $\frac{1}{4}$  S 30 B T.

59.15 Wash, 10 lks. wide, course NW.  
At 80 chs. the measurement by two sets of chainmen agrees.

80.00 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in  
the ground, for cor. of secs. 19, 24, 25 and 30, marked on  
brass cap,  
T 20 S in N. half;  
R 4 E S 24 in NW.,  
R 5 E S 19 in NE.,  
S 30 in SE., and  
S 25 in SW. quadrant; dig pits, 18x18x12 ins., in  
each sec.  $5\frac{1}{2}$  ft. dist., and raise a mound of earth, 4  
ft. base, and 2 ft. high, W. of cor.  
Land, level.  
Soil, very sandy loam, 2nd rate.  
Mesquite, catsclaw and palo verde.  
June 27: At this sec. cor., I set off 23°21 $\frac{1}{2}$ ' N. on the  
decl. arc, and at 12h.3m.p.m., 1.m.t., I observe the  
sun on the meridian; the resulting latitude is 31°40'  
N.

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Thence N. bet. secs. 19 and 24.  
Over level land, through dense brush.

40.00 At 40 chs. the measurement by two sets of chainmen agrees.  
Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in  
the ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap,  
 $\frac{1}{4}$  S 24 in W., and  
S 19 in E. half;  
A mesquite tree 5 ins. in diam., bears N.16°E., 124  
lks. dist., scribed  $\frac{1}{4}$  S 19 B T.  
A mesquite tree, 6 ins. in diam., bears S.84°30'W.,  
105 lks. dist., scribed  $\frac{1}{4}$  S 24 B T.

42.30 Wash, 10 lks. wide, course NE.  
At 80 chs., the measurement by two sets of chainmen  
agrees.

80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in  
the ground, for cor. of secs. 13, 18, 19 and 24, marked  
on brass cap,  
T 20 S in N. half,  
R 4 E S 13 in NW.,  
R 5 E S 18 in NE.;  
S 19 in SE., and  
S 24 in SW. quadrant.  
A mesquite tree, 10 ins. in diam., bears N.52°30'E.,  
99 lks. dist., scribed T 20 S R 5 E S 18 B T.  
A mesquite tree, 7 ins. in diam., bears S.51°50'W.  
218 lks. dist., scribed T 20 S R 4 E S 24 B T.  
A mesquite tree, 14 ins. in diam., bears S.31°50'  
E., 186 lks. dist., scribed T 20 S R 5 E S 19 B T.  
A mesquite tree, 8 ins. in diam., bears N.39°50'W.  
116 lks. dist., scribed T 20 S R 4 E S 13 B T.  
Land, level.  
Soil, very sandy loam, mixed with gravel.  
Mesquite and sage brush.

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North, bet. secs. 13 and 18.  
Over level land, through dense brush.

19.85 Wash, 10 lks. wide, course NE.  
At 40 chs., the measurement of two sets of chainmen  
agrees.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in  
the ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap,  
 $\frac{1}{4}$  S 13 in W., and  
S 18 in E. half;

1st Guide Mer. E. through T<sub>20</sub> S. bet. R<sub>4</sub> and 5 East. 3.

Chains.

A mesquite tree, 6 ins. in diam., bears N.52°15'E.  
33 lks.dist., scribed  $\frac{1}{4}$  S 18 B T.

A mesquite tree, 8 ins. in diam., bears N.69°50'W.,  
92 lks.dist., scribed  $\frac{1}{4}$  S 13 B T.

Difference bet. measurements of 80.00 chs. by two sets  
of chainmen is 2 lks.; position of middle point,

By 1st set, 80.01 chs.,

By 2nd set, 79.99 chs., the mean of which is

80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in  
the ground, for cor.of secs. 7,12,13 and 18, marked  
on brass cap,

T 20 S in N.half;

R 4 E S 12 in NW.,

R 5 E, S 7 in NE.,

S 18 in SE., and

S 13 in SW. quadrant; dig pits 18x18x12 ins. in  
each sec.  $5\frac{1}{2}$  ft. dist., and raise a mound of earth, 4  
ft.base and 2 ft. high,W.of cor.

Land, level.

Soil, adobe, 2nd rate.

Mesquite and catclaw.

June 27, 1911.

June 28: At 7h.a.m., 1.m.t., I set off  $31^{\circ}41\frac{1}{2}'$ N.on the  
lat.arc;  $23^{\circ}20\frac{1}{2}'$ N. on the decl.arc; and determine the  
meridian with the solar, at the cor.of secs.7,12,13  
and 18, T 20 S, R<sub>4</sub> and 5 E.

Thence I run,

North, bet. secs.7 and 12.

Over level land, through dense brush.

7.90 Road, SE. and NW.

28.20 Wash, 15 lks.wide, course NW.

At 40 chs., the measurement by two sets of chainmen agrees.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in  
the ground, for  $\frac{1}{4}$  sec.cor., marked on brass cap,

$\frac{1}{4}$  S 12 in W., and

S 7 in E.half.

A mesquite tree, 7 ins. in diam., bears N.24°10'W.,  
24 lks.dist., scribed  $\frac{1}{4}$  S 12 B T.

A mesquite tree, 8 ins. in diam., bears N.27°15'E.,  
44 lks.dist., scribed  $\frac{1}{4}$  S 7 B T.

At 80 chs. the measurement by two sets of chainmen agrees.

80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in  
the ground, for cor.of secs. 1,6,7 and 12, marked on  
brass cap,

T 20 S in N.half;

R 4 E S 1 in NW.,

R 5 E S 6 in NE.,

S 7 in SE., and

S 12 in SW. quadrant.

A mesquite tree, 4 ins. in diam., bears N.61°W., 32  
lks.dist., scribed T 20 S R 4 E S 1 B T.

A mesquite tree, 5 ins. in diam., bears S.56°15'W.,  
143 lks.dist., scribed T 20 S R 4 E S 12 B T.

A mesquite tree, 6 ins. in diam., bears S.33° E.,  
179 lks.dist., scribed T 20 S R 5 E S 7 B T.

A mesquite tree, 8 ins. in diam., bears N.15°15'E.,  
202 lks.dist., scribed T 20 S R 5 E S 6 B T.

Land, level.

Soil, adobe, 2nd rate.

Mesquite and catclaw.

North, bet. secs. 1 and 6.

4. 1st Guide Mer.E., through Ts. 20 S., bet. Rs. 4 and 5 East.

Chains.

- Over level land, through dense brush.
- 11.35 Wash, 10 lks. wide, course NW.  
At 40 chs., the measurement by two sets of chainmen agrees.
- 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap,  $\frac{1}{4}$  S 1 in W., and S 6 in E. half; dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base, and  $1\frac{1}{2}$  ft. high, W. of cor.  
At 80 chs., the measurement by two sets of chainmen agrees.
- 80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for cor. of Ts. 19 and 20 S., Rs. 4 and 5 E., marked on brass cap,  
T 19 S in N.,  
R 5 E in E.,  
T 20 S in S., and  
R 4 E in W. half;  
S 36 in NW.,  
S 31 in NE.,  
S 6 in SE., and  
S 1 in SW. quadrant; dig pits, 24x24x12 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 and  $2\frac{1}{2}$  ft. high, S. of cor.
- Land, level.  
Soil, loam, mixed with adobe.  
Mesquite, catsclaw and greasewood.

First Guide Mer.E., through Ts. 19 S., Rs. 4 and 5 E.

- N. bet. secs. 31 and 36.
- Over level land, through dense brush.
- 27.40 Road, NE. and SW.  
At 40 chs. the measurement by two sets of chainmen agrees.
- 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap,  $\frac{1}{4}$  S 36 in W., and S 31 in E. half; dig pits 18x18x12 ins., N. and S. of post 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base, and  $1\frac{1}{2}$  ft. high W. of cor.  
At 80 chs., the measurement by two sets of chainmen agrees.
- 80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for the cor. of secs. 25, 30, 31 and 36, marked on brass cap,  
T 19 S in N. half;  
R 4 E S 25 in NW.,  
R 5 E S 30 in NE.,  
S 31 in SE., and  
S 36 in SW. quadrant; dig pits, 18x18x12 ins., in each sec.  $5\frac{1}{2}$  ft. dist., and raise a mound of earth 4 ft. base and 2 ft. high, W. of cor.
- Land, level.  
Soil, loam, mixed with adobe.  
Mesquite, catsclaw and greasewood.

North, bet. secs. 25 and 30.

Over level land, through dense brush.

Difference bet. measurements of 40.00 chs., by two sets of chainmen is 2 lks.; position of middle point,  
By 1st set, 39.99 chs.,  
By 2nd set, 40.01 chs., the mean of which is

1st Guide Mer. E. through Ts.19 S., Bet. Rs.4 and 5 E. 5.

Chains.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for  $\frac{1}{4}$  sec.cor., marked on brass cap,  $\frac{1}{4}$  S 25 in W., and S 30 in E.half; 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.  
At 80 chs., the measurement of two sets of chainmen agrees.

80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for the cor. of secs.19,24,25 and 30, marked on brass cap, T 19 S in N.half; R 4 E S 24 in NW., R 5 E S 19 in NE., S 30 in SE., and S 25 in SW. quadrants; 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  
Soil, very sandy loam.  
Mesquite, catsclaw and greasewood.

June 28, 1911.

June 29: At 7h. a.m., 1.m.t., I set off  $23^{\circ}18'N$ . on the decl.arc;  $31^{\circ}45'N$ . on the lat.arc, and determine the meridian with the solar, at the cor.of secs. 19,24, 25 and 30.

Thence I run, North, bet. secs.19 and 24. Over level land, through dense brush. At 40 chs., the measurement by two sets of chainmen agrees.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground for  $\frac{1}{4}$  sec.cor., marked on brass cap,  $\frac{1}{4}$  S 24 in W., and S 19 in E.half; 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.

50.00 Wash, 10 lks.wide, course SW. At 80 chs., the measurement by two sets of chainmen agrees.

80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for cor.of secs.13,18,19 and 24, marked on brass cap, T 19 S in N.half; R 4 E S 13 in NW., R 5 E S 18 in NE., S 19 in SE., and S 24 in SW. quadrants; 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.  
Soil, very sandy loam, 2nd rate.  
Mesquite, ironwood, catsclaw, and greasewood.

North, bet. secs.13 and 18. Over level land, through dense brush. Difference bet. measurements of 40 chs. by two sets of chainmen is 2 lks.; position of middle point, By 1st set 39.99 chs., By 2nd set. 40.01 chs., the mean of which is

40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins.in

## 6. 1st Guide Mer.E., through Ts.19 S., bet. Rs.4 and 5 E.

Chains.

- the ground for  $\frac{1}{4}$  sec.cor., marked on brass cap,  
 $\frac{1}{4}$  S 13 in W., and  
 18 in E.half; 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.
- 54.00 Wash, 10 lks.wide, course SW.  
 At 80 chs., the measurement by two sets of chainmen  
 agrees.
- 80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in  
 the ground, for cor.of secs.7,12,13 and 18, marked on  
 brass cap,  
 T 19 S in N.half;  
 R 4 E S 12 in NW.,  
 R 5 E S 7 in NE.,  
 S 18 in SE., and  
 S 13 in SW. quadrant; 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.  
 Soil, very sandy loam, 2nd rate.  
 Mesquite, catsclaw, palo verde and greasewood.
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- North, bet. secs.7 and 12.  
 Over level land, through dense brush.
- 17.00 Road, NE.and SW.  
 21.65 Road, NE.and SW.  
 38.90 Wire fence, E.and W., and enter barley field.  
 Difference bet. measurements of 40.chs. by two sets of  
 chainmen is 2 lks.; position of middle point,  
 By 1st set. 40.01 chs.,  
 By 2nd set, 39.99 chs., the mean of which is
- 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in  
 the ground, for  $\frac{1}{4}$  sec.cor., marked on brass cap,  
 $\frac{1}{4}$  S 12 in W., and  
 S 7 in E.half; 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.
- 44.00 Leave barley field.  
 52.50 Enter barley field.  
 60.00 Leave barley field.  
 72.63 Brush fence, E.and W.  
 73.30 Road, E.and W.  
 At 80 chs., the measurement by two sets of chainmen agrees.
- 80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in  
 the ground, for cor.of secs.1,6,7 and 12, marked on  
 brass cap,  
 T 19 S in N half,  
 R 4 E S 1 in NW.,  
 R 5 E S 6 in NE.,  
 S 7 in SE., and  
 S 12 in SW. quadrant; dig pits, 18x18x12 ins., in  
 each sec.  $5\frac{1}{2}$  ft. dist., and raise a mound of earth 4  
 ft.base, and 2 ft. high, W.of cor.  
 Land, level.  
 Soil, loam, nearly adobe, 2nd rate.  
 Mesquite, catsclaw, palo verde and greasewood.
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- Thence north, bet. secs. 1 and 6.  
 Over rolling land, through dense brush.
- 6.33 Wash, 10 lks.wide, course SW.  
 10.25 Wash, 15 lks.wide, course SW.  
 25.16 Road, E.and W.  
 39.66 Road, NW.and SE.



1st Guide Meridian E., through Ts.18 and 19 S., bet.Rs.4 and 5 E. 7.

Chains

At 40 chs., the measurement by two sets of chainmen agrees.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for  $\frac{1}{4}$  sec.cor., marked on brass cap,  $\frac{1}{4}$  S 1 in W., and S 6 in E.half; 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.

77.65 Wash, 15 lks.wide, course SW.

79.25 Wash, 10 lks.wide, course SW.

Difference bet. measurements of 80.00 chs. by two sets of chainmen is 2 lks.; position of middle point, By 1st set, 80.01 chs. By 2nd set, 79.99 chs., the mean of which is

80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins.in the ground, for cor.of Ts.18 and 19 S., Rs.4 and 5 E., marked on brass cap, T 18 S in N., R 5 E in E., T 19 S in S., and R 4 E in W. half; S 36 in NW., S 31 in NE., S 6 in SE., and S 1 in SW. quadrant; dig pits, 24x24x12 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, and 2 $\frac{1}{2}$  ft.high,S.of cor.

Land, rolling.  
Soil, adobe, very rocky.  
Mesquite, catsclaw, palo verde, ironwood and greasewood.  
June 29, 1911.

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Through Township 18 South, bet. Ranges 4 and 5 East.

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July 3, 1911: At 7h. a.m., l.m.t., I set off 23°03'N. on the decl.arc, and 31°48 $\frac{1}{2}$ 'N. on the lat.arc; and determine the meridian with the solar, at the cor.of Ts.18 and 19 S.,Rs. 4 and 5 E.

Thence I run,  
North, bet. secs.31 and 36.  
Ascending S.slope of rocky ridge, through dense brush.

13.35 Wash, 15 lks.wide, course SW.

Difference bet. measurements of 40.00 chs. by two sets of chainmen is 4 lks.; position of middle point, By 1st set, 39.98 chs., By 2nd set, 40.02 chs., the mean of which is

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground for  $\frac{1}{4}$  sec.cor., marked on brass cap,  $\frac{1}{4}$  S 36 in W., and S 31 in E.quadrant; raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$  ft.high,W.of cor. Pits impracticable.

48.30 Top of ridge, N.75°W. and S.75°E., and descend.

54.90 Wash, 10 lks.wide, course NE., and ascend.

67.10 Top of ridge, N.75°W., and S.75°E., and descend.

73.60 Wash, 10 lks.wide, course E., and over rolling land.

Difference bet. measurements of 80.00 chs. by two sets of chainmen is 6 lks.; position of middle point, By 1st set, 79.97 chs., By 2nd set, 80.03 chs., the mean of which is

80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for cor.of secs. 25, 30, 31 and 36, marked on brass cap, T 18 S in N.half;

## 8. 1st Guide Mer. E., through Township 18 S., bet.

R 4 E S 25 in NW.,

R 5 E S 30 in NE.,

S 31 in SE., and

S 36 in SW. quadrant; raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

Pits impracticable.

Land, mountainous.

Soil, rocky; 4th rate.

Mesquite, catsclaw, palo verde and greasewood.

North, bet. secs. 25 and 30.

Over rolling hills, through dense brush.

Difference bet. measurements of 40 chs. by two sets of chainmen is 4 lks.; position of middle point,

By 1st set, 40.02 chs.,

By 2nd set, 39.98 chs., the mean of which is

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap,  $\frac{1}{4}$  S 25 in W., and

S 30 in E. half; raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.

45.00 Wash, 25 lks. wide, course E.

Difference bet. measurements of 80.00 chs. by two sets of chainmen is 8 lks.; position of middle point,

By 1st set, 80.04 chs.,

By 2nd set, 79.96 chs., the mean of which is

80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground for the cor. of secs. 19, 24, 25 and 30, marked on brass cap,

T 18 S in N. half;

R 4 E S 24 in NW.,

R 5 E S 19 in NE.,

S 30 in SE., and

S 25 in SW. quadrant; dig pits, 18x18x12 ins. in each sec.  $5\frac{1}{2}$  ft. dist., and raise a mound of earth, 4 ft. base, and 2 ft. high, W. of cor.

Land, rolling.

Soil, rocky; 4th rate.

Mesquite, catsclaw, ironwood, greasewood and cacti.

July 3: At this sec. cor., I set off  $23^{\circ}01\frac{1}{2}'$  N. on the decl. arc, and at 12h. 4m., p.m., l.m.t., observe the sun on the meridian; the resulting lat. is  $31^{\circ}50\frac{1}{2}'$  N., which is about the proper latitude.

North, bet. secs. 19 and 24.

Over rolling land, through dense brush.

12.75 Ridge, NW. and SE., and descend.

19.25 Wash, 20 lks. wide, course SE., and ascend.

24.00 Ridge, NW. and SE., and descend.

29.65 Wash, 10 lks. wide, course NW., and descend.

36.00 Ridge, NW. and SE., and descend.

Difference between measurements of 40. chs. by two sets of chainmen is 4 lks.; position of middle point,

By 1st set, 40.02 chs.,

By 2nd set, 39.98 chs., the mean of which is

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap,  $\frac{1}{4}$  S 24 in W., and

S 19 in E. half; raise a mound of stone, 2 ft. base, and  $1\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.

44.10 Wash, 10 lks. wide, course NW., and ascend.

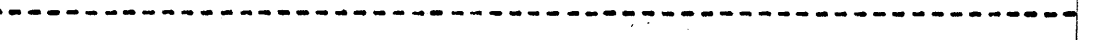
52.00 Ridge, NW. and SE., and descend.

1st Guide Mer.E. through Ts.18 South, bet. Rs. 4 and 5 E.  
Chains.

70.75 Wash, 10 lks. wide, course NE., and ascend along SE. slope of rocky hillside.  
 Difference between measurements of 80.00 chs. by two sets of chainmen is 6 lks.; position of middle point,  
 By 1st set, 80.03 chs.,  
 By 2nd set, 79.97 chs., the mean of which is  
 80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for cor. of secs. 13, 18, 19 and 24, marked on brass cap,  
 T 18 S in N. half;  
 R 4 E S 13 in NW.,  
 R 5 E S 18 in NE.,  
 S 19 in SE., and  
 S 24 in SW. quadrant; raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.  
 Pits impracticable.  
 Land, high rolling hills.  
 Soil, decomposed granite and limestone, 3rd rate.  
 Ironwood, palo verde, greasewood and cacti.  
 July 3, 1911.



July 4, 1911: At 7h. a.m., 1.m.t., I set off 22°58 1/2' N. on the decl. arc; 31°51' N. on the lat. arc; and determine a true meridian with the solar, at the cor. of secs. 13, 18, 19 and 24.  
 Thence I run,  
 North, bet. secs. 13 and 18.  
 Ascending along SE. slope of rocky hillside, through dense brush.  
 7.00 Top of ridge, NE. and SW., and descend.  
 24.95 Wash, 35 lks. wide, course NW.  
 Difference between measurements of 40.00 chs. by two sets of chainmen is 4 lks.; position of middle point,  
 By 1st set, 39.98 chs.,  
 By 2nd set, 40.02 chs., the mean of which is  
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for 1/4 sec. cor., marked on brass cap,  
 1/4 S 13 in W., and  
 S 18 in E. half; raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable.  
 47.00 Ascend steep rocky hill.  
 59.75 Top of hill, E. and W., and descend.  
 74.25 Wash, 20 lks. wide, course W.  
 Difference bet. measurements of 80.00 chs. by two sets of chainmen is 6 lks.; position of middle point,  
 By 1st set, 80.03 chs.,  
 By 2nd set, 79.97 chs., the mean of which is  
 80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for cor. of secs. 7, 12, 13 and 18, marked on brass cap,  
 T 18 S in N. half;  
 R 4 E S 12 in NW.,  
 R 5 E S 7 in NE.,  
 S 18 in SE., and  
 S 13 in SW. quadrant; raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.  
 Pits impracticable.  
 Land, high rolling hills.  
 Soil, decomposed granite and limestone, 4th rate.  
 Ironwood, palo verde, greasewood and cacti.



North, bet. secs. 7 and 12.  
 Over rolling land, through dense brush.

## 10. 1st Guide Mer. E., through Ts. 18 South, bet. Rs. 4 and 5 E.

Chains

- Difference between measurements of 40.00 chs. by two sets of chainmen is 4 lks.; position of middle point,  
 By 1st set, 39.98 chs.,  
 By 2nd set, 40.02 chs., the mean of which is
- 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap,  $\frac{1}{4}$  S 12 in W., and S 7 in E. half; raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.  
 Pits impracticable.
- 44.95 Wash, 10 lks. wide, course W.  
 64.25 Road, NE. and SW.  
 69.75 Road, NW. and SE.  
 73.20 Wash, 15 lks. wide, course W.  
 74.35 Road, E. and W., and ascend small hill.
- Difference between measurements of 80.00 chs. by two sets of chainmen is 4 lks.; position of middle point,  
 By 1st set, 79.98 chs.,  
 By 2nd set, 80.02 chs., the mean of which is
- 80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for the cor. of secs. 1, 6, 7 and 12, marked on brass cap,  
 T 18 S in N. half;  
 R 4 E S 1 in NW.,  
 R 5 E S 6 in NE.,  
 S 7 in SE., and  
 S 12 in SW. quadrant; raise a mound of stone 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.  
 Pits impracticable.  
 Land, rolling.  
 Soil, decomposed granite and limestone, 4th rate.  
 Mesquite, catsclaw, palo verde, greasewood and cacti.
- 
- North, bet. secs. 1 and 6.  
 Over rolling land, through dense brush.  
 Top of hill, and descend.
- 14.60 Wash, 10 lks. wide, course W., and ascend.
- Difference between measurements of 40.00 chs. by two sets of chainmen is 2 lks.; position of middle point,  
 By 1st set, 39.99 chs.,  
 By 2nd set, 40.01 chs., the mean of which is
- 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap,  $\frac{1}{4}$  S 1 in W., and S 6 in E. half; raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.  
 Pits impracticable.
- 46.00 Ridge, NE. and SW., and descend.  
 56.75 Wash, 15 lks. wide, course W., and ascend.
- Difference between measurements of 80.00 chs. by two sets of chainmen is 2 lks.; position of middle point  
 By 1st set, 80.01 chs.,  
 By 2nd set, 79.99 chs., the mean of which is
- 80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground for the cor. of Ts. 17 and 18 S., Rs. 4 and 5 E., marked on brass cap,  
 T 17 S in N.,  
 R 5 E in E.,  
 T 18 S in S. and  
 R 4 E in W. half;  
 S 36 in NW.,  
 S 31 in NE.,  
 S 6 in SE., and  
 S 1 in SW. quadrant; raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, S. of cor.  
 Pits impracticable.

1st. Guide Mer. E., through Ts. 18 S., bet. Rs. 4 and 5 East. 11.

Chains.

Land, high rolling hills.  
Soil, decomposed limestone and malpais.  
Catsclaw, ironwood, palo verde, greasewood and cacti.

1st. Guide Mer. E., through Ts. 17 S., Ranges 4 and 5 East.

July 5, 1911: At 7h. a.m., l.m.t., I set off 22°53'N. on the decl. arc; 31°54'N. on the lat. arc, and determine a true meridian with the solar, at the cor. of Ts. 17 and 18 S., Rs. 4 and 5 E.

Thence I run,  
North, bet. secs. 31 and 36.

4.00 Over high rolling hills, through dense brush.  
Top of ridge, E. and W., and descend over low ridges.  
Difference between measurements of 40.00 chs. by two sets of chainmen is 2 lks.; position of middle point,

By 1st set, 40.01 chs.,  
By 2nd set, 39.99 chs., the mean of which is

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for 1/4 sec. cor., marked on brass cap, 1/4 S 36 in W., and S 31 in E. half; raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.

Pits impracticable.

40.35 Wash, 10 lks. wide, course SE., and ascend.

54.00 Top of ridge, E. and W., and descend.

58.00 Foot of hill, and over level land.

77.65 Road, NW. and SE.

78.70 Wash, 15 lks. wide, course SE.

79.50 Fence, NE. and SW.

Difference between measurements of 80.00 chs. by two sets of chainmen is 2 lks.; position of middle point,

By 1st set, 80.01 chs.,  
By 2nd set, 79.99 chs., the mean of which is

80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for the cor. of secs. 25, 30, 31 and 36, marked on brass cap, T 17 S in N. half; R 4 E S 25 in NW., R 5 E S 30 in NE., S 31 in SE., and S 36 in SW. quadrant; 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, rolling.

Soil, 58 chs., very rocky, then sandy loam; 2nd rate.

North, bet. secs. 25 and 30.

Over level land, through scattering brush.

2.85 Brush fence, SE. and NW.

4.35 Wash, 25 lks. wide, course NW.

8.70 Road, SE. and NW.,

38.00 Wash, 25 lks. wide, course W.

At 40 chs., the measurement by two sets of chainmen agrees.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for 1/4 sec. cor., marked on brass cap, 1/4 S 25 in W., and S 30 in E. half; dig pits 18x18x12 ins. N. and S. of post, 3 ft. dist., and raise a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.

12. 1st. Guide Mer. E., through T<sub>s</sub>. 17 S., bet. Rs. 4 and 5 E.

Chains.

- A mesquite tree 6 ins. in diam., bears N.1°30'E., 52 lks. dist., scribed  $\frac{1}{4}$  S 30 B T.  
 A catsclaw, 6 ins. in diam., bears S.25°W., 66 lks. dist., scribed  $\frac{1}{4}$  S 25 B T.
- 43.00 Road, E. and W.  
 44.80 Brush, fence, E. and W., and enter barley field.  
 60.43 Wire fence, E. and W., and leave barley field.  
 76.00 Wash, 10 lks. wide, course SW.  
 At 80.00 chs., the measurement by two sets of chainmen agrees.
- 80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for cor. of secs. 19, 24, 25 and 30, marked on brass cap,  
 T 17 S in N. half;  
 R 4 E S 24 in NW.,  
 R 5 E S 19 in NE.,  
 S 30 in SE., and  
 S 25 in SW. quadrant; 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, nearly level.  
 Soil, sandy loam, 1st rate.  
 Mesquite, catsclaw and palo verde.

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 North, bet. secs. 19 and 24.

- Over level land, through scattering mesquite.  
 At 40.00 chs., the measurement by two sets of chainmen agrees.
- 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap,  
 $\frac{1}{4}$  S 24 in W., and  
 S 19 in E. half;  
 A mesquite tree, 9 ins. in diam., bears N.80°15'E., 187 lks. dist., scribed  $\frac{1}{4}$  S 19 B T.  
 A mesquite tree, 9 ins. in diam., bears N.54°30'W., 109 lks. dist., scribed  $\frac{1}{4}$  S 24 B T.
- At 80 chs. the measurement by two sets of chainmen agrees.
- 80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for cor. of secs. 13, 18, 19 and 24, marked on brass cap,  
 T 17 S in N. half;  
 R 4 E S 13 in NW.,  
 R 5 E S 18 in NE.,  
 S 19 in SE., and  
 S 24 in SW. quadrant; dig pits, 18x18x12 ins., in each sec.  $5\frac{1}{2}$  ft. dist., and raise a mound of earth, 4 ft. base, and 2 ft. high, W. of cor.  
 Land, level.  
 Soil, sandy loam, 1st rate.  
 Mesquite and palo verde.

July 5, 1911.

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 July 6, 1911: At 7h. a.m., 1 m. t., I set off 22°47 $\frac{1}{2}$ ' N. on the decl. arc; 31°56 $\frac{1}{2}$ ' N. on the lat. arc, and determine the true meridian at the cor. of secs. 13, 18, 19 and 24.

- Thence I run,  
 North, bet. secs. 13 and 18.  
 Over level land, through scattering brush.
- 1.50 Wash, 35 lks. wide, course SW.  
 34.35 Wash, 40 lks. wide, course SW.  
 At 40 chs. the measurement by two sets of chainmen agrees.
- 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap,

GLO Cor. # 21 - Papago Indian Reservation.

An iron post, 3 ins. diam., 8 ins. up, firmly set in ground, with brass cap mkd.

T	17	S
R	4	E
R	5	E
S	13	S
S	24	S
18		19
1936		
1911		

(1936 added)

Reset in concrete, 36x15x9 ins., 34 ins. in ground, on S. side of a wash, 50 lks. wide, bearse SW.

Reference mark No. 1 bears South, 69.605 metres dist.

Reference mark No. 2 bears S.60°E., 64.234 metres dist., both on NW. side of road which bears NE. and SW. to highway.

Both are brass tablets in concrete forms, 30x12x7 ins., 28 ins. deep.

Corner was observed from Sells, Indian Oasis, Wahoo ? and Artesia ?

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Corner can be reached by truck, as follows:

From main gate on highway, entrance to Papago administration bldgs. Go NW. on Sells-Ajo highway.

- 1.35 Turn right from highway, on well traveled desert road
- 0.05 Road forks, take right, at sign reads "Rock Dam #67- 4 M."
- 1.35 Reference mark No. 1 to cor. No. 21.

About 2 miles NE. of Sells (2.8 miles by road)

Roger F. Wilson  
U.S. Transitan

1st Guide Mer. E., through Ts. 17 S., bet. Rs. 4 and 5 East. 13.  
Chains.

80.00  $\frac{1}{4}$  S 13 in W., and  
 S 18 in E.half; raise a mound of stone 2 ft. base,  
 $1\frac{1}{2}$  ft. high, W. of cor.  
 Pits impracticable.  
 Difference bet. measurements of 80.00 chs. by two sets  
 of chainmen is 2 lks.; position of middle point,  
 By 1st set, 80.01 chs.,  
 By 2nd set, 79.99 chs., the mean of which is  
 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in  
 the ground for cor. of secs. 7, 12, 13 and 18, marked on  
 brass cap,  
 T 17 S in N.half;  
 R 4 E S 12 in NW.,  
 R 5 E S 7 in NE.,  
 S 18 in SE., and  
 S 13 in SW. quadrant; raise a mound of stone, 2 ft.  
 base,  $1\frac{1}{2}$  ft. high, W. of cor.  
 Pits impracticable.  
 Land, nearly level, slopes to the S.  
 Soil, sandy loam, mixed with gravel and rock, 3rd rate.  
 Mesquite, ironwood, palo verde, greasewood and cacti.

8.55 North, bet. secs. 7 and 12.  
 Over slightly rolling land, through scattering brush.  
 Wash, 10 lks. wide, course SW.  
 40.00 At 40 chs. the measurement by two sets of chainmen agrees.  
 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in  
 the ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap,  
 $\frac{1}{4}$  S 12 in W., and  
 S 7 in E.half;  
 An ironwood tree 6 ins. in diam., bears N. 81° 30'  
 W., 108 lks. dist., scribed  $\frac{1}{4}$  S 12 B T.  
 An ironwood tree, 6 ins. in diam., bears N. 32°  
 25 E. 30 lks. dist., scribed  $\frac{1}{4}$  S 7 B T.  
 44.00 Wash, 40 lks. wide, course SW.  
 60.95 Road, brs. NE. and SW.  
 77.50 Wash, 15 lks. wide, course SW.  
 At 80. chs. the measurement by two sets of chainmen  
 agrees.  
 80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in  
 the ground for the cor. of secs. 1, 6, 7 and 12, marked  
 on brass cap,  
 T 17 S in N.half;  
 R 4 E S 1 in NW.,  
 R 5 E S 6 in NE.,  
 S 7 in SE., and  
 S 12 in SW. quadrant; raise a mound of stone, 2 ft.  
 base,  $1\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.  
 Land, slightly rolling.  
 Soil, sandy loam, mixed with gravel and rocks; 3rd rate.  
 Mesquite, ironwood, palo verde, greasewood and cacti.

11.75 North, bet. secs. 1 and 6.  
 Over rolling land, through scattering brush.  
 17.25 Old road, NW. and SE.  
 Wash, 10 lks. wide, course SW.  
 Difference between measurements of 40.00 chs. by two sets  
 of chainmen is 2 lks.; position of middle point,  
 By 1st set, 40.01 chs.  
 By 2nd set, 39.99 chs., the mean of which is  
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in  
 the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap,  
 $\frac{1}{4}$  S 1 in W., and  
 S 6 in E.half; dig pits 18x18x12 ins., N. and S.



## 14. 1st Guide Mer.E., through Ts. 17 S., bet. Rs. 4 and 5 E.

Chains.

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 Wash, 200 lks. wide, course SW.

79.00 Wash, 10 lks. wide, course SE.

Difference bet. measurements of 80.00 chs. by two sets of chainmen is 2 lks.; position of middle point,  
 By 1st set, 80.01 chs.  
 By 2nd set, 79.99 chs., the mean of which is

80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for cor. of Ts. 16 and 17 S., Rs. 4 and 5 E., marked on brass cap,  
 T 16 S in N.,  
 R 5 E in E.,  
 T 17 S in S., and  
 R 4 E in W. half;  
 S 36 in NW.,  
 S 31 in NE.,  
 S 6 in SE., and  
 S 1 in SW. quadrant; raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, S. of cor.

Pits impracticable.  
 Land, rolling.  
 Soil, sandy loam, mixed with rock and gravel.  
 Mesquite, catsclaw, ironwood, palo verde, greasewood, and cacti.

July 6, 1911.

GENERAL DESCRIPTION.

Through Ts. 19 and 20 S., this line runs through nearly level land, covered with mesquite and palo verde trees and catsclaw and greasewood brush. The land on both sides of the line is nearly level. At the cor. of secs. 13, 18, 19 and 24, the soil changes from 3rd rate to 2nd rate.

Through T. 18 S., and the south mile in T. 17 S., the land is mountainous in character, broken by sharp rocky hills. After the summer rains, the Indians raise a crop of small grain, but at the time of the survey most of them were in mountains with their cattle, there being no water or feed in the valley.

*William H. Elliott*  
 U. S. Surveyor.

APPROVAL.

BOOK 2756

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

*Thomas Craig Moore* March 16, 1912.

The foregoing field notes of the survey of *the First Guide Meridian*  
*East through T's 17, 18, 19 and 20 South*  
*G. S. R. Meridian, Arizona*

executed by *William H. Elliott*  
under his special instructions dated *August 25*, 1910, 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. Lyall*  
U. S. Surveyor General.