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Book L

2757

199

FIELD NOTES

MAR 13 1912

OF THE SURVEY OF THE

BOOK 2757

North, South ^{and} West Boundaries of S. 17 N. R. 4 E.

Of the

G.S.M.

Meridian,

In the State of

Territory of Arizona

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 ^{and} *March 4*, 1911.

Survey commenced *July 6*, 1911

Survey completed *July 11*, 1911

INDEX DIAGRAM.

Township _____, *Range* _____

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
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BOOK 2757

INDEX DIAGRAM.

Township 17⁰, Range 4^E

	8	8	9	9	10	10
7	6	5	4	3	2	1
6	7	8	9	10	11	12
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PRELIMINARY OATHS OF ASSISTANTS.

WE, Albert Smith and Bert Lyons

do solemnly swear that we will well and faithfully execute the duties of chainmen; 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 distances 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

T. 17 S. R. 4 E.

Albert Smith Chainman.
Bert Lyons Chainman.

Subscribed and sworn to before me this 8th day of June, 1911



William H. Elliott
U. S. Surveyor

WE, W. O. Temple and

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

T. 17 S. R. 4 E.

W. O. Temple Moundman.
Moundman.

Subscribed and sworn to before me this 8th day of June, 1911



William H. Elliott
U. S. Surveyor

WE, _____ and

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

_____, Axman.
_____, Axman.

Subscribed and sworn to before me this _____ day of _____, 19____



I, Dexter Ellwell, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of T. 17 S. R. 4 E.

Dexter Ellwell Flagman.

Subscribed and sworn to before me this 8th day of June, 1911



William H. Elliott
U. S. Surveyor

South Boundary of Township 17 South, Range 4 East.

Chains.

Survey commenced July 6, 1911, and executed with a Young and Sons' solar transit, No.8480. The instrument was examined on the true meridian at Phoenix, March 6, 1911, tested and found correct.

I examine the adjustments of the transit, and find them correct; then, to correct the solar apparatus by comparing its indications, resulting from solar observations made during the a.m. and p.m. hours, with a meridian determined on Polaris, I proceed as follows:

At the cor.of Ts.16 and 17 S., Rs.4 and 5 E., in latitude 31°59'4"N.; longitude, 111°52'55"W., at 5h.p.m., l.m.t., I set off 31° 59'N. on the lat.arc; 22°45½'N. on the decl.arc, and mark the meridian thus determined with the solar, by a tack driven in a wooden stake, firmly driven in the ground, 5 chs. N.of cor. July 6, 1911.

July 7: At Oh.35m. a.m., l.m.t., I observe Polaris at Eastern elongation, in accordance with instructions in the Manual, and mark the line thus determined by a tack driven in a wooden peg set in the ground, 5 chs. N.of corner.

At 6 a.m., I lay off the angle of Polaris, 1°23'to the west, and mark the meridian thus determined by a tack in the stake set last evening, on which the meridian falls 0.2 ins. W.of mark determined by solar.

At 6h.30m.a.m., l.m.t., I set off 31°59'N. on lat.arc; 22° 42½'N.on the decl.arc, and mark the meridian thus determined by a tack driven in a stake already set 5 chs. N.of cor.; this point falls 0.3 ins.W.of meridian established by Polaris observation. The solar apparatus, by a.m. and p.m. observations, defines position for meridian, about 0'16" W. and 0'11"E.of the meridian established by Polaris observation; therefore, I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the meridian at 6h.30m.a.m., is N.13°20'W.; the angle thus determined gives the mag. decl. as 13°20'E.

Thence I run, West, on a random line along the N.bdy.of the Tp., setting temp. ¼ sec. and sec.cors. at intervals of 40.00 chs., for a distance of 4 miles.

July 7, 1911.

July 8, 1911: At 6h.30m.a.m., l.m.t., I set off 31°54'N. on the lat.arc; 22°36'N. on the decl.arc, and determine the meridian with the solar, at the cor.of Ts.17 and 18 S.,Rs. 4 and 5 E., established by me July 4th, 1911.

Thence I run, West, bet. secs. 36 and 1. Mag. var. 13°20'E.

- 4.00 Descend steep rocky SW. slope, through scattering brush.
- 6.00 Wash, 15 lks.wide, course S., and ascend.
- 31.30 Crest of limestone mass, and descend.
- 33.30 Wash, 10 lks.wide, course S., and ascend steep rocky butte.
- 40.00 Road, N.and S.
- Set an iron post, 3 ft. long, and 1 in. in diam., 26 ins. in the ground, for ¼ sec.cor., marked on brass cap,

2. South Boundary of Township 17 South, Range 4 East.

Chains.	
	$\frac{1}{4}$ S 36 in N., and S 1 in S.half; raise a mound of stone 2 ft. base, and $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
64.00	Crest of butte, and descend.
80.00	Set an iron post 3 ft. long, and 3 ins. in diam., 24 ins. in the ground, for cor. of secs. 35, 36, 1 and 2, marked on brass cap, T 17 S in N., T 18 S in S., and R 4 E in W.half; S 35 in NW., S 36 in NE., S 1 in SE., and S 2 in SW. quadrant; raise a mound of stone, 2 ft. base, and $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Land, mountainous. Soil, very little disintegrated malpais and limestone. Mesquite, catsclaw, palo verde and greasewood.

	West, bet. secs. 35 and 2.
	Descend rocky butte, through scattering brush.
16.00	Foot of butte.
24.00	Road, NW. and SE.
31.35	Old road, NE. and SW.
35.75	Wash, 10 lks. wide, course S.
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 35 in N., and S 2 in S.half; dig pits, 18x18x12 ins., E. and W. of cor., 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, and $1\frac{1}{2}$ ft. high, N. of cor.
61.30	Road, NW. and SE.
63.30	Road, NW. and SE.
80.00	Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 34, 35, 2 and 3, marked on brass cap, T 17 S in N., T 18 S in S., and R 4 E in W.half; S 34 in NW., S 35 in NE., S 2 in SE., and S 3 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, hilly for 16 chs., thence level. Soil, mostly sandy loam, mixed with gravel; 2nd rate. Mesquite, catsclaw, palo verde and greasewood. July 8: At this sec. cor., I set off $22^{\circ}33\frac{1}{2}'N.$ on the decl. arc, and at 12h. 4.7m. l.m.t., I observe the sun on the meridian; the resulting lat. is $31^{\circ}54'N.$

	West bet. secs. 34 and 3.
	Over level land, through scattering brush.
40.00	Set an iron post, 3 ft. long, and 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 34 in N., and S 3 in S.half; dig pits, 18x18x12 ins. E. and W. of post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft.

South Boundary of Township 17 South, Range 4 East. 3.

Chains.

80.00 base, and 1½ ft. high, N.of cor.
 Set an iron post, 3 ft. long, and 3 ins. in diam., 24 ins. in the ground, for cor.of secs.33,34,3 and 4, marked on brass cap,
 T 17 S in N.,
 T 18 S in S., and
 R 4 E in W.half;
 S 33 in NW.,
 S 34 in NE.,
 S 3 in SE., and
 S 4 in SW. quadrant; dig pits, 18x18x12 ins. in each sec. 5½ ft. dist., and raise a mound of earth, 4 ft. base, and 2 ft. high,W.of cor.
 Land,level.
 Soil, sandy loam, mixed with gravel.

40.00 West, bet. secs.33 and 4.
 Over level land, through scattering brush.
 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for ¼ sec.cor., marked on brass cap,
 ¼ S 33 in N., and
 S 4 in S.half; dig pits, 18x18x12 ins., E.and W.of post, 3 ft. dist., and raise a mound of earth, 3½ ft. base, and 1½ ft. high, N.of cor.
 46.60 Wash,10 lks.wide, course S.
 80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor.of secs.32,33, 4 and 5, marked on brass cap,
 T 17 S in N.,
 R 18 S in S., and
 R 4 E in W.half;
 S 32 in NW.,
 S 33 in NE.,
 S 4 in SE., and
 S 5 in SW. quadrant.
 A mesquite tree, 9 ins. in diam., bears N.15°50'E., 132 lks.dist., scribed T 17 S R 4 E S 33 B T.
 A mesquite tree, 10 ins. in diam., bears N.35°W., 187 lks.dist., scribed T 17 S R 4 E S 32 B T.
 A mesquite tree, 10 ins. in diam., bears S.23°30'W. 191 lks.dist., scribed T 18 S R 4 E S 5 B T.
 A mesquite tree, 10 ins. in diam., bears S.38°25' E., 50 lks.dist., scribed T 18 S R 4 E S 4 B T.
 Land,level.
 Soil,sandy loam, mixed with gravel, 2nd rate.
 Mesquite.

July 8, 1911.

July 9, 1911: At 7h.a.m.,l.m.t., I set off 31°54'N.on the lat.arc; 22°29'N. on the decl.arc, and determine the meridian with the solar, at the cor.of secs.32, 33,4 and 5.
 Thence I run,
 West, bet. secs.32 and 5.
 Over level land, through scattering brush.
 40.00 Set an iron post, 3 ft. long, and 1 in. in diam., 26 ins. in the ground, for ¼ sec.cor., marked on brass cap,
 ¼ S 32 in N., and
 S 5 in S.half;
 A mesquite tree, 7 ins. in diam., nears N.79°30' W., 62 lks.dist.,scribed ¼ S 32 B T.

4. South Boundary of Township 17 South, Range 4 East.

Chains.

A mesquite tree, 10 ins. in diam., bears S.46°45'W.,
245 lks. dist., scribed $\frac{1}{4}$ S 5 B T.

80.00 Set an iron post, 3 ft. long, and 3 ins. in diam., 24 ins.
in the ground, for cor. of secs. 31, 32, 5 and 6, marked
on brass cap,
T 17 S in N.,
T 18 S in S., and
R 4 E in W. half;
S 31 in NW.,
S 32 in NE.,
S 5 in SE., and
S 6 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, mixed with gravel; 2nd rate.
Mesquite, and greasewood.

West, bet. secs. 31 and 6.
Over level land, through scattering brush.

40.00 Set an iron post, 3 ft. long, and 1 in. in diam., 26 ins.
in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S 31 in N., and
S 6 in S. half; dig pits, 18x18x12 ins., E. and W. of
post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft.
base, and $1\frac{1}{2}$ ft. high, N. of cor.

78.63 Set an iron post, 3 ft. long, and 3 ins. in diam., 24 ins.
in the ground, for cor. of Ts. 17 and 18 S., Rs. 3 and 4
E., marked on brass cap,
T 17 S in N.,
R 4 E in E.,
T 18 S in S., and
R 3 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. N, E. and
W. 4 ft., and S. of post 8 ft. dist., on each line, and
raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. of
cor.

Land, level.
Soil, sandy loam, mixed with gravel; 2nd rate.
Mesquite, and greasewood.

West boundary of Township 17 South, Range 4 East.

5.

Chains.

North, between secs. 31 and 36.
 Over level land, through scattering brush.
 9.80 Road, E. and W.
 22.00 Wash, 40 lks. wide, course W.
 40.00 Set an iron post, 3 ft. long, and 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.
 80.00 Set an iron post 3 ft. long, and 3 ins. in diam., 24 ins. in the ground, for cor. of secs. 25, 30, 31 and 36, marked on brass cap,
 T 17 S in N. half;
 R 3 E S 25 in NW.,
 R 4 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, sandy loam, mixed with gravel; 2nd rate.
 Mesquite and greasewood.

July 9, 1911.

 July 10, 1911: At 7h. a.m., l.m.t., I set off 31°55'N. on the lat. arc; 22°21 $\frac{1}{2}$ 'N. on the decl. arc, and establish a meridian with the solar.

Thence I run,
 North, bet. secs. 25 and 30.
 Over level land, through scattering brush.
 23.00 Road, NE. and SW.
 40.00 Set an iron post, 3 ft. long, and 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, and 1 $\frac{1}{2}$ ft. high, W. of cor.
 49.50 Road, NE. and SW.
 71.00 Wash, 10 lks. wide, course SW.
 80.00 Set an iron post, 3 ft. long, and 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 3 E S 24 in NW.,
 R 4 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, sandy loam, mixed with gravel; 2nd rate.
 Mesquite, palo verde, ironwood and greasewood.

 Thence I run,
 North, bet. secs. 19 and 24.
 Over level land, through dense brush.
 40.00 Set an iron post, 3 ft. long, and 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.

6. West boundary of Township 17 South, Range 4 East.

Chains.

- 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.
- 80.00 Set an iron post, 3 ft. long, and 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 3 E S 13 in NW.,
 R 4 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, mixed with gravel; 2nd rate.
 Mesquite, catsclaw, ironwood, greasewood and cacti.
 July 10: At this cor. I set off $22^{\circ}19\frac{1}{2}'$ N. on the decl. arc, and at this cor. at 12h.5m.p.m., l.m.t., I observe the sun on the meridian; the resulting latitude is $31^{\circ}56\frac{1}{2}'$ N.

-
- North, bet. secs. 13 and 18.
 Over level land, through scattering brush.
- 40.00 Set an iron post 3 ft. long, and $\frac{1}{4}$ 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; 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.
- 67.85 Wash, 10 lks. wide, course SW.
 72.35 Road, NE. and SW.
 75.95 Wash, 10 lks. wide, course SW.
- 80.00 Set an iron post, 3 ft. long, and 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 3 E S 12 in NW.,
 R 4 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, sandy loam, mixed with gravel; 2nd rate,
 Mesquite, ironwood, greasewood and cacti.

-
- North, bet. secs. 7 and 12.
 Over level land, through scattering brush.
- 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, and $1\frac{1}{2}$ ft. high, W. of cor.
- 40.75 Wash, 45 lks. wide, course W.
- 80.00 Set an iron post, 3 ft. long, and 3 ins. in diam., 24 ins. in the ground, for cor. of secs. 1, 6, 7 and 12, marked on brass cap,
 T 17 S in N. half;
 R 3 E S 1 in NW.,
 R 4 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.

West Boundary of Township 17 South, Range 4 East. 7.

Chains.

Land, level.
Soil, sandy loam, mixed with gravel; 2nd rate.
Mesquite, catsclaw, palo verde, greasewood and cacti.
July 10, 1911.

July 11, 1911: At 7h.a.m., l.m.t., I set off 31°58½'N. on lat.arc; 22°14'N. on the decl.arc, and establish a meridian with the solar, at the cor.of secs.1,6,7 and 12.

Thence I run,
North, bet. secs.1 and 6.
Over level land, through scattering brush.

5.85
23.05
40.00

42.25
67.30
75.45
80.00

Road, NW.and SE.
Wash, 20 lks. wide, course SW.
Set an iron post, 3 ft. long, and 1 in. in diam., 26 ins. in the ground, for ¼ sec.cor., marked on brass cap, ¼ 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, 3½ ft.base, and 1½ ft. high,W.of cor.
Wash, 25 lks.wide, course SW.
Wash,10 lks.wide, course SW.
Wash, 15 lks.wide, course SW.
Set an iron post, 3 ins. long, and 3 ins. in diam., 24 ins. in the ground, for cor.of Ts.16 and 17 S.,Rs. 3 and 4 E., marked on brass cap,
T 16 S in N.,
R 4 E in E.,
T 17 S in S., and
R 3 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, 2½ ft. high,S.of cor.

Land, level.
Soil, sandy loam, mixed with gravel.
Mesquite, catsclaw, palo verde, greasewood and cacti.
July 11, 1911.

8. North Boundary of Township 17 South, Range 4 East.

Chains.

July 11, 1911: At 8h. 30m. a.m., l.m.t., I set off $31^{\circ}59'$ N. on the lat. arc; $22^{\circ}13'$ N. on the decl. arc, and determine a true meridian with the solar, at the cor. of secs. 4 and 5 on the N. bdy.

Thence I run,

West, on a random line along the North bdy. of secs. 5 and 6, setting temp. $\frac{1}{4}$ sec. and sec. cors. at intervals of 40.00 chs., and at 479.32 chs., from NE. cor. of Tp., intersect the line bet. Rs. 3 and 4 E., 90 lks. north of the cor. of Ts. 16 and 17 S., as set by me this day.

The falling agrees to a correction of $0^{\circ}06'$, or 15 lks. S. per mile, counting from the NE. cor. of the Tp.; therefore I run,

N. $89^{\circ}54'$ E., on a true line, bet. secs. 6 and 31.

Over mountainous land.

- 2.00 Wash, 15 lks. wide, course S.
 5.90 Wash, 10 lks. wide, course S.
 10.60 Wash, 10 lks. wide, course S.
 39.32 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 31 in N., and S 6 in S. half; dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, and $1\frac{1}{2}$ ft. high, N. of cor.
 52.30 Foot of rocky hill, and ascend.
 79.32 Set an iron post 3 ft. long, and 3 ins. in diam., 24 ins. in the ground, for cor. of secs. 31, 32, 5 and 6, marked on brass cap,
 T 16 S in N.
 T 17 S in S., and
 R 4 E in W. half;
 S 31 in NW.,
 S 32 in NE.,
 S 5 in SE., and
 S 6 in SW. quadrant; raise a mound of stone, 2 ft. base, and $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
 Land, 52 chs., slightly rolling, thence mountainous.
 Soil, 52 chs., sandy loam, mixed with gravel, 2nd rate; thence rocky land, with very little soil.
 Mesquite, catsclaw, and greasewood.

N. $89^{\circ}54'$ E., bet. secs. 5 and 32.

Over rocky hills.

- 10.00 Crest of hill, and descend.
 24.00 Foot of descent, and across small valley.
 25.65 Wash, 10 lks. wide, course SW.
 32.00 Wash, 30 lks. wide, course SW.
 40.00 Set an iron post 3 ft. long, and 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 32 in N., and S 5 in S. half; dig pits 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, and $1\frac{1}{2}$ ft. high, N. of cor.
 49.75 Road, NE. and SW.
 51.65 Road, NW. and SE.
 56.00 Foot of hill, and ascend.
 80.00 Set an iron post, 3 ft. long, and 3 ins. in diam., 24 ins. in the ground for cor. of secs. 32, 33, 4 and 5, marked on brass cap,
 T 16 S in N.,
 T 17 S in S., and
 R 4 E in W. half;
 S 32 in NW.,
 S 33 in NE.,

North boundary of Township 17 South, Range 4 East. 9.

Chains.

S 4 in SE., and
 S 5 in SW. quadrant; raise a mound of stone, 2 ft. base, and 1½ ft. high, W.of cor.
 Pits impracticable.
 Land, mostly mountainous.
 Soil, sandy loam, mixed with gravel, except in hills, which have very little soil.
 Mesquite, catsclaw, palo verde and greasewood.

N.89°54'E., bet. secs. 4 and 33.

Over rolling land, through dense brush.
 2.00 Top of hill, and descending along NE.slope.
 24.45 Deep ravine, 40 lks.wide, course N.
 40.00 Set an iron post, 3 ft. long, and 1 in. in diam., 26 ins. in the ground, for ¼ sec.cor., marked on brass cap,
 ¼ S 33 in N., and
 S 4 in S.half; raise a mound of stone, 3 ft. base, and 1½ ft. high,N.of cor.
 68.45 Foot of descent, and wash,10 lks.wide, course SE.
 80.00 Set an iron post, 3 ft. long, and 3 ins.in diam., 24 ins. in the ground; for cor.of secs. 33,34,3 and 4, marked on brass cap,
 T 16 S in N.,
 T 17 S in S., and
 R 4 E in W. half;
 S 33 in NW.,
 S 34 in NE.,
 S 3 in SE., and
 S 4 in SW. quadrant; raise a mound of stone,3 ft. base, and 2 ft. high, W.of cor.
 Pits impracticable.
 Land, mostly mountainous.
 Soil, mostly malpais and shale.
 Mesquite, catsclaw,palo verde and greasewood.

North, 89°54'E., bet. secs.3 and 34.

Over rolling land, through dense brush.
 9.50 Old road, N.and S.
 40.00 Set an iron post, 3 ft. long, and 1 in. in diam., 26 ins. in the ground, for ¼ sec.cor., marked on brass cap,
 ¼ S 34 in N., and
 S 3 in S.half; dig pits, 18x18x12 ins., E.and W.of cor., 3 ft. dist., and raise a mound of earth, 3½ ft. base, and 1½ ft. high, N.of cor.
 76.45 Road, NW.and SE.
 80.00 Set an iron post, 3 ft. long, and 3 ins. in diam., 24 ins. in the ground, for cor.of secs.34,35, 2 and 3, marked on brass cap,
 T 16 S in N.,
 T 17 S in S., and
 R 4 E in W.half;
 S 34 in NW.,
 S 35 in NE.,
 S 2 in SE., and
 S 3 in SW. quadrant; dig pits 18x18x12 ins. in each sec.5½ ft. dist., and raise a mound of earth, 4 ft. base. and 2 ft. high, W.of cor.
 Soil, very sandy loam, mixed with gravel and rock.
 Land, rolling.
 Mesquite, catsclaw, palo verde and greasewood.

10. North boundary of Township 17 South, Range 4 East.

Chains.

North, 89° 54'E., bet. secs. 2 and 35.
 Over rolling land, through dense brush.

7.10 Road, NW. and SE.
 26.00 Wash, 45 lks. wide, course SW.
 40.00 Set an iron post, 3 ft. long, and 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 35 in N., and S 2 in S. half; raise a mound of stone, 2 ft. base, and 1 $\frac{1}{2}$ ft. high, N. of cor.
 Pits impracticable.

53.20 Wash, 45 lks. wide, course NW.
 65.60 Wash, 25 lks. wide, course SW.
 80.00 Set an iron post 3 ft. long, and 3 ins. in diam., 24 ins. in the ground, for cor. of secs. 35, 36, 1 and 2, marked on brass cap,
 T 16 S in N.,
 T 17 S in S., and
 R 4 E in W. half;
 S 35 in NW.,
 S 36 in NE.,
 S 1 in SE., and
 S 2 in SW. quadrant; raise a mound of stone, 3 ft. base and 2 ft. high, W. of cor.
 Pits impracticable.
 Land, rolling.
 Soil, sandy loam, mixed with gravel and rock, 3rd rate.
 Mesquite, catsclaw, palo verde and greasewood.

N. 89° 54' E., bet. secs. 1 and 36.
 Over rolling land, through dense brush.

3.15 Wash, 10 lks. wide, course SW.
 22.00 Indications of placer mining 3 chs. N.
 40.00 Set an iron post, 3 ft. long, and 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 N., and
 S 1 in S. half; raise a mound of stone 2 ft. base, and 1 $\frac{1}{2}$ ft. high, N. of cor.
 Pits impracticable.

41.85 Wash, 10 lks. wide, course SW.
 46.00 Wash, 200 lks. wide, course SW.
 47.05 Road, N. and S.
 61.40 Wash, 100 lks. wide, course SW.
 80.00 Cor. of Ts. 16 and 17 S., Rs. 4 and 5 E.
 Land, rolling.
 Soil, sandy loam, mixed with gravel and rock.
 Mesquite, catsclaw, palo verde and greasewood.
 July 11, 1911.

Boundaries of Township 17 South, Range 4 East. 11.

Latitudes, departures and closing errors.

Line designated.	True bearing.	Distance.	Latitudes.		Departures.	
			N.	S.	E.	W.
1st. Guide Mer. East.	North,	480.00	480.00			
North Bdy.	S. 89° 54' W.	479.32		.84		479.32
West Bdy.	South,	480.00		480.00		
South Bdy.	East,	478.63			478.63	
Convergency,						.45
	Totals,		480.00	480.84	478.63	479.77
				<u>480.00</u>		<u>478.63</u>
	Error in latitude,			.84		
	Error in departure,					1.14

GENERAL DESCRIPTION.

The land embraced in this survey is hilly and badly broken along the north line, rolling along the west line, and rolling along the south line. The main drainage is to the southwest. There is considerable growth of mesquite and palo verde, catsclaw and greasewood brush. In the wet season, there is a fair growth of forage grass.

William N. Elliott
U. S Surveyor.

LIST OF NAMES.

BOOK 2757

A list of the names of the individuals employed by William H. Elliott

....., United States ~~Deputy~~ Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of T17 P. R 4 E.

showing the respective capacities in which they acted:

Albert Smith....., Chainman.

Bert Lyons....., Chainman.

W.O. Temple....., Moundman.

....., Moundman.

....., Axman.

....., Axman.

Dexter Howell....., Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted William H. Elliott

....., United States ~~Deputy~~ Surveyor, in surveying all those parts or portions of the T17 A. R 4 E.

..... of the G.S.R. meridian, Duty of Arizona, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Arizona

Albert Smith....., Chainman.

Bert Lyons....., Chainman.

W.O. Temple....., Moundman.

....., Moundman.

....., Axman.

....., Axman.

Dexter Howell....., Flagman.

Subscribed and sworn to before me this 24th

day of July, 19 11



William H. Elliott

U.S. Surveyor.

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

13
BOOK 2751

I, William H. Elliott, United States Deputy Surveyor, do solemnly swear that, in pursuance of a ^{instructions} contract received from Frank S. Ingalls, United States Surveyor General for Arizona, bearing date of the 25th day of August, 1910, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Arizona, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of T17 S R 4 E

of the G.S.M. meridian, in the Township of Arizona, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Arizona and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

William H. Elliott
United States Deputy Surveyor.

Subscribed by said William H. Elliott, and sworn to before me }
this 28th day of October, 1911

Frank S. Ingalls
N. H. Dwyer, General



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Ariz. Nov. 16, 1912

The foregoing field notes of the survey of the North, South and West Boundaries of T17 S. R 4 E, G.S.M. Meridian, Arizona

executed by William H. Elliott under his ^{contract} contract No. 2, 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. Ingalls
United States Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

United States Surveyor General.