



Book "E"  
Subdivisions  
FIELD NOTES

BOOK 2770

OF THE SURVEY OF THE

SUBDIVISION LINES

OF

FRACTIONAL TOWNSHIP 4½ NORTH RANGE 32 EAST

Of the Gila and Salt River Base and Meridian,

In the State of Arizona.

EXECUTED BY

WILLIAM B. KIMMEL

In the capacity of U. S. Surveyor, under instructions dated August 9, 1912, issued by the United States Surveyor General to govern surveys included in Group No. 26, which were approved by the Commissioner of the General Land Office, August 19, 1912, pursuant to authority contained in the Act of Congress dated June 23, 1913.

Survey commenced September 17, 1913

Survey completed October 1, 1913

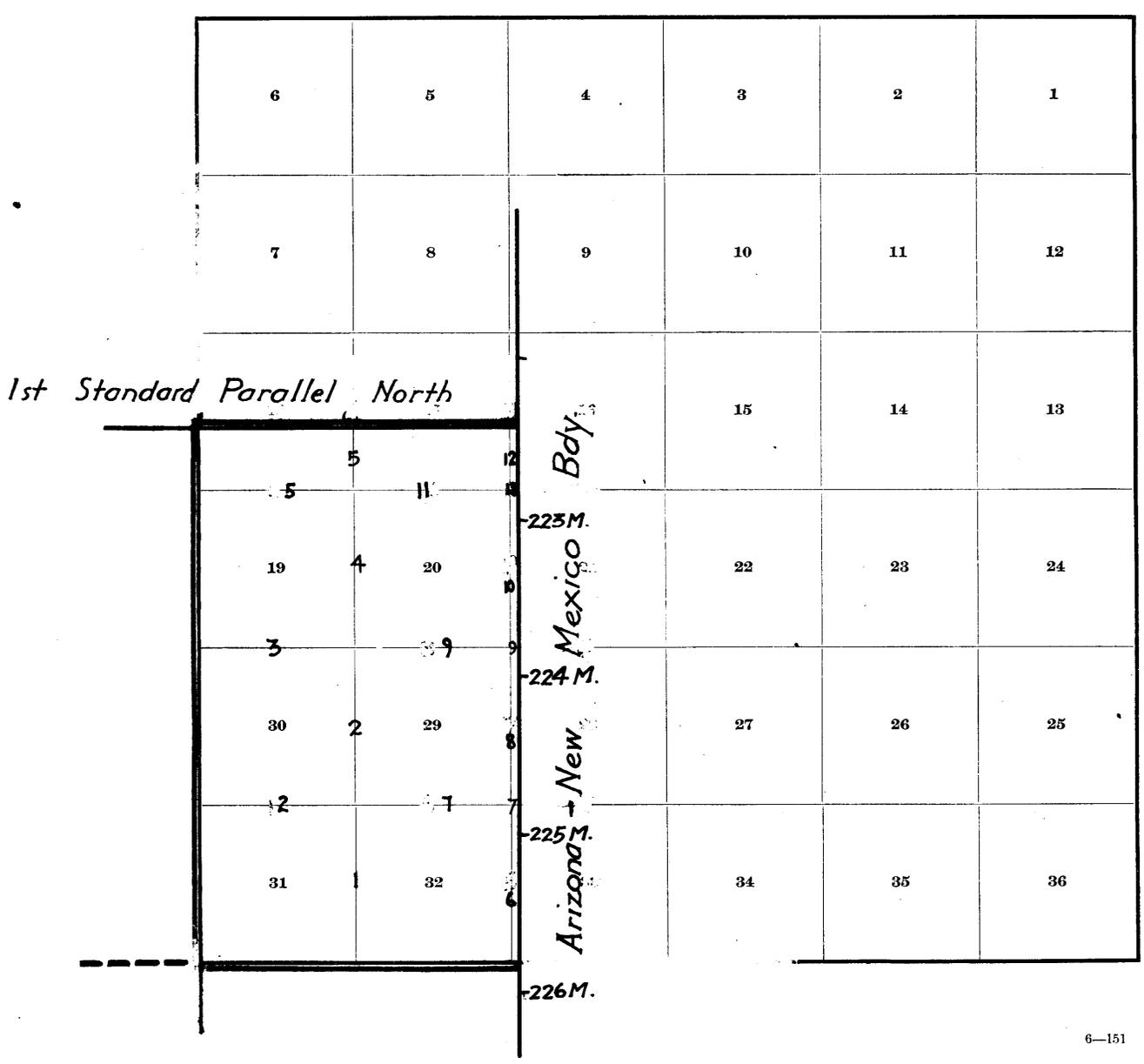
(1A)

# Book "E"

BOOK 2770

## INDEX DIAGRAM.

*Frac.*  
*Township* 4½ North, *Range* 32 East



6-151

- Notes in Book "A", this Group
- " " " " "B" " "
- Surveyed
- Unsurveyed

Subdivision of frac. Township 4 1/2 North, Range 32 East.

1. B

Chains.

Survey commenced Sept. 17, 1913, and executed with Young and Sons' light mountain transit, No. 8541, with Smith Solar Attachment. For description of instrument, and Certificate of Approval, see Book "A."

Knowing from recent and repeated tests of my instrument on a meridian established by observation on Polaris, at elongation, that it is in correct adjustment, I proceed to the subdivision of fractional Township 4 1/2 N., R. 32 E.

Sept. 22, 1913: At 2h. 5m. p.m., l.m.t., I set off 33° 43 1/2' N., on the lat. arc; 0° 19' S. on the decl. arc; and determine a meridian with the solar at the cor. of sections 5, 6, 31 and 32; lat. 33° 43' 33" N.; long. 109° 04' W. on south bdy. of Tp., established by me, as described in Book "A."

Thence I run,  
 N. 0° 1' E. bet. secs. 31 and 32.  
 Descend NE. slope, 25 ft., through heavy timber and dense undergrowth.

1.50 Spur ridge, brs. NE. Descend NW. slope.  
 2.40 Canyon, course NE. Ascend SE. slope, 175 ft.  
 16.75 End of ascent; spur ridge, brs. NE. Descend NW. slope, 557 feet.

36.50 Foot of hill, River bottom, brs. NW. and SE.  
 40.00 Blue River, 54 lks. wide, course SE. Point for 1/4 sec. cor.  
 41.45 Head of Milligan's ditch, brs. S. 50° E., 5 chs. dist.  
 Vacant cabin brs. S. 64° W., about 8 chs. dist.  
 42.60 Road brs. NW. to A, pine, and SE. to Clifton.  
 42.81 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for witness cor. to 1/4 sec. cor., marked, on brass cap,  
 1913 on S. rim;  
 W C 1/4 in N. half;  
 S 31 in SW., and  
 S 32 in SE. quadrant; from which,  
 A pine, 8 ins. in diam., brs. N. 62° E., 11 lks. dist., marked W C 1/4 S 32 B T.  
 A willow, 9 ins. in diam., brs. S. 74 1/2° W., 30 lks. dist., marked W C 1/4 S 31 B T.

44.00 Ascend SW. slope, 310 ft.  
 48.00 Ascend SE. slope.  
 61.45 End of ascent; ridge brs. NE and SW. Descend NW. slope, 129 ft.  
 69.25 End of descent; canyon, course SW. Ascend SE. slope, 230 ft.

73.20 Ascend small gulch, course SE.  
 80.00 Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for cor. of secs. 29, 30, 31 and 32, marked on brass cap,  
 1913 on S. rim,  
 T 4 1/2 N R 32 E in N. half;  
 S 30 in NW.,  
 S 29 in NE.,  
 S 32 in SE., and  
 S 31 in SW. quadrant; from which,  
 A fir, 14 ins. in diam., brs. N. 23° E., 45 lks. dist., marked T 4 1/2 N R 32 E S 29 B T.  
 A fir, 10 ins. in diam., brs. S. 39° E., 52 lks. dist., marked T 4 1/2 N R 32 E S 32 B T.  
 A pine, 9 ins. in diam., brs. S. 72 1/4° W., 65 lks. dist., marked T 4 1/2 N R 32 E S 31 B T.  
 A pine, 7 ins. in diam., brs. N. 54 1/2° W., 24 lks. dist., marked T 4 1/2 N R 32 E S 30 B T.

Land, mountainous and hilly.  
 Soil, rocky, 4th rate.  
 Timber, pine and fir.  
 Undergrowth, scrub cedar and scattering locust.  
 Mountainous land, 68 chs.

Sept. 22, 1913.

2. Subdivision of frac. Township 4 $\frac{1}{2}$  North, Range 32 East.

Chains.

Sept. 24, 1913: At 10h. 2m., a.m., l.m.t., I set off 33° 44 $\frac{1}{2}$ ' N. on the lat. arc; 0° 24' S. on decl. arc; and determine a meridian with the solar at the cor. of secs. 29, 30, 31 and 32, described above,  
 Thence I run,  
 West, on random line, bet secs. 30 and 31.  
 40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
 80.02 Intersect the west bdy. of the Tp., 12 lks. south of the cor. of secs. 25, 30, 31 and 36, established by me, as described in Book "A."  
 Thence I run,  
 S. 89° 55' E., on true line, bet. secs. 30 and 31.  
 Descend NE. slope, 230 ft., through heavy timber and dense undergrowth.  
 15.50 Canyon, course SE.; ascend W. slope, 20 ft.  
 17.00 Spur ridge, brs. SW.; descend SE. slope, 15 ft.  
 18.50 Gulch, course SW. Ascend SW. slope, 60 ft.  
 20.50 Spur ridge, brs. S. Descend SE. slope, 115 ft.  
 25.20 Gulch, course SW. Ascend NW. slope, 120 ft.  
 28.80 Spur ridge, brs. SW. Descend SE. slope, 180 ft.  
 32.60 Canyon, course SW. Ascend NW. slope, 200 ft.  
 40.00 Top of ascent; descend NE. slope, 200 ft.  
 40.01 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,  
 1913 on S. rim;  
 $\frac{1}{4}$  S 30 in N., and  
 S 31 in S. half; from which,  
 A juniper, 10 ins. in diam., brs. N. 35 $\frac{3}{4}$ ° E., 101 lks. dist. marked  $\frac{1}{4}$  S 30 B T.  
 A juniper, 14 ins. in diam., brs. S. 45° E. 16 lks. dist., marked  $\frac{1}{4}$  S 31 B T.  
 51.00 Foot of descent; gulch, course SE. Ascend SW. slope, 45 ft.  
 54.30 Ridge, brs. SE. Descend SE. slope, 125 ft.  
 57.00 Turkey Creek, 6 lks. wide, course SW.  
 Road brs. NE. to Alpine, and SW. to Clifton.  
 Ascend west slope, 350 ft.  
 68.00 Two rock cliffs, 50 ft. high, bear N. and S.  
 74.35 End of ascent; ridge, brs. N. and S. Descend SE. slope, 130 ft.  
 79.24 A pine, 20 ins. diam., on line.  
 80.02 The cor. of secs. 29, 30, 31 and 32.  
 Land, mountainous.  
 Soil, rocky, 4th rate.  
 Timber, heavy pine, fir, oak and juniper.  
 Undergrowth, dense scrub oak.  
 Mountainous land, 80 chs.

Sept. 24, 1913.

Sept. 28, 1913: At 7h. 58m. a.m., l.m.t., I set off 33° 44 $\frac{1}{2}$ ' N. on the lat. arc; 1° 55' S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 29, 30, 31 and 32.  
 Thence I run,  
 N. 0° 1' E., bet. secs. 29 and 30.  
 Descend NE. slope, 25 ft.  
 2.20 Gulch, course SE. Ascend SW. slope, 115 ft.  
 8.00 Spur ridge, brs. SE. Descend NE. slope, 15 ft.  
 11.00 Gulch, course E. Ascend SE. slope, 45 ft.  
 14.00 Thence along east slope.  
 18.00 Descend NE. slope, 155 ft.  
 23.00 Gulch, course west. Ascend SW. slope, 35 ft.  
 28.00 Spur ridge, brs. west. Descend NW. slope, 35 ft.  
 30.00 Gulch, course SW. Ascend SE. slope, 30 ft.  
 31.00 Spur ridge, brs. SW. Descend NW. slope, 20 ft.  
 32.50 Gulch, course SW. Ascend SE. slope, 70 ft.  
 35.00 Rocky spur, brs. SW. Descend NW. slope, 70 ft.  
 37.70 Canyon, course SW. Ascend SE. slope, 410 ft.  
 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,

Subdivision of frac. Township 4 $\frac{1}{2}$  North, Range 32 East. 3.

Chains.

1913 on S. rim;  
 $\frac{1}{4}$  S 30 in W., and  
 S 29 in E. half; from which,  
 A pine, 14 ins. in diam., brs. N. 86° E., 21 lks. dist., marked  $\frac{1}{4}$  S 29 B T.  
 A pine, 10 ins. in diam., brs. S. 55 $\frac{1}{4}$ ° W., 38 lks. dist., marked  $\frac{1}{4}$  S 30 B T.

Ascend SE. slope.  
 42.00 Spur ridge, brs. SW. Ascend SE. slope.  
 47.50 Canyon, course SW. Ascend S. slope.  
 51.00 Bottom of cliff.  
 52.30 High rocky point, brs. NE. and SW. Descend NW. slope, 360 ft.  
 59.50 Canyon, course west.  
 63.00 Canyon, course west.  
 76.00 End of descent; canyon, course SW. Ascend SW. slope, 60 ft.  
 77.20 Canyon, course SW. Ascend SE. slope.  
 80.00 Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for cor. of secs. 19, 20, 29 and 30, marked on brass cap,

1913 on S. rim,  
 T 4 $\frac{1}{2}$  N R 32 E in N. half;  
 S 19 in NW.  
 S 20 in NE.,  
 S 29 in SE., and  
 S 30 in SW. quadrant; from which,  
 A fir, 20 ins. diam., brs. N. 51° E., 6 lks. dist., marked T 4 $\frac{1}{2}$  N R 32 E S 20 B T.  
 A pine, 7 ins. in diam., brs. S. 61° E., 90 lks. dist., marked T 4 $\frac{1}{2}$  N., R 32 E S 29 B T.  
 A pine, 7 ins. in diam., brs. S. 35 $\frac{1}{4}$ ° W., 64 lks. dist., marked T 4 $\frac{1}{2}$  N R 32 E S 30 B T.  
 A pine, 18 ins. in diam., brs. N. 31 $\frac{1}{2}$ ° W., 86 lks. dist., marked T 4 $\frac{1}{2}$  N R 32 E S 19 B T.

Note: At this cor., I set off 1° 59 $\frac{1}{2}$ ' S. on the decl. arc; and at noon, I observe the sun on the meridian; the resulting lat. is 33° 45 $\frac{1}{2}$ ' N.  
 Land, rolling, hilly and mountainous.  
 Soil, rocky, 4th rate.  
 Timber, heavy pine, fir and oak.  
 Undergrowth, scrub oak and locust.  
 Mountainous land, 68 chs.

N. 89° 55' W., on a random line, bet. secs. 19 and 30.  
 40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
 80.03 Intersect the west bdy. of the township, 35 lks. south of the cor. of secs. 19, 24, 25 and 30, established by me, as described in Book "A."  
 Thence I run,  
 S. 89° 40' E., on true line, bet. secs. 19 and 30.  
 Descend NE. slope, 285 ft., through heavy timber and dense undergrowth.

10.50 Canyon, course SE. Ascend SW. slope, 115 ft.  
 19.30 Spur ridge, brs. SE. Descend NE. slope, 225 ft.  
 31.00 Gulch, course SE. Ascend SW. slope, 20 ft.  
 34.80 Spur ridge, brs. S. Descend SE. slope, 110 ft.  
 37.40 Turkey Creek Canon, course south. No water.  
 40.015 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,  
 1913 on S. rim,  
 $\frac{1}{4}$  S 19 in N., and  
 S 30 in S. half; from which,  
 A cedar, 5 ins. in diam., brs. N. 64 $\frac{3}{4}$ ° W., 19 lks. dist., marked  $\frac{1}{4}$  S 19 B T.  
 A cedar, 9 ins. in diam., brs. S. 84 $\frac{1}{2}$ ° W., 40 lks. dist., marked  $\frac{1}{4}$  S 30 B T.  
 Ascend SW. slope, 135 ft.

4. Subdivision of frac. Township 4 $\frac{1}{2}$  North, Range 32 East.

Chains.

44.00 Road brs.N.to Alpine, and south to Clifton.  
Ridge brs.N.and S. Descend SE. slope, 40 ft.  
47.50 Canyon, course SW. Ascend NW. slope, 140 ft.  
57.50 Spur ridge, brs.S. Descend SE. slope, 25 ft.  
63.00 Gulch, course SW. Ascend NW. slope.  
65.00 Spur ridge, brs.SW. Ascend west slope, 215 ft.  
73.50 Spur ridge, brs.S. Descend SE. slope, 105 ft.  
77.25 Gulch, course S.  
80.03 The cor.of secs.19,20,29 and 30.  
Land, mountainous.  
Soil, rocky, 4th rate.  
Timber, heavy pine, fir and oak.  
Undergrowth, densenscrub oak and locust.  
Mountainous land, 80 chs.

Sept.28, 1913.

Sept.29, 1913: At 10 hrs. 5m., a.m., l.m.t., I set off  
33°45 $\frac{1}{2}$ ' N. on the lat.arc; 2° 21' S. on the decl.arc;  
and determine a meridian with the solar at the cor.  
of secs. 19,20,29 and 30.

Thence I run,  
N.0°1'E., bet. secs. 19 and 20,  
Ascend SE. slope, 445 ft., through heavy timber and scat-  
tering undergrowth.

5.50 Canyon, course SE.  
6.00 Canyon, course SE.  
8.00 Canyon, course SE.  
12.00 Canyon, course SE.; ascend.  
16.60 End of ascent, spur ridge, brs.SW. Thence along west  
slope.  
22.50 Ridge, brs. SE. and NW. Thence along east slope, de-  
scending 30 ft.  
28.00 Head of gulch, course east. Ascend SE. slope, 70 ft.  
31.50 Spur ridge, brs.east. Descend NE. slope, 115 ft.  
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,  
1913 on S.rim,  
 $\frac{1}{4}$  S 19 in W., and  
S 20 in E.half; from which,  
A pine, 8 ins. in diam., brs.N.68 $\frac{1}{2}$ °E., 36 lks.  
dist., marked  $\frac{1}{4}$  S 20 B T.  
A pine, 11 ins. in diam., brs.N.53 $\frac{1}{2}$ °W., 32  
lks.dist., marked  $\frac{1}{4}$  S 19 B T.

40.50 Canyon, course SE. Ascend SW. slope, 405 ft.  
55.15 End of ascent; ridge, brs. E. and W. Descend N. slope,  
425 ft.

74.00 Wash, course NE. Along broken east slope.  
80.00 Set an iron post, 3 ft.long, 2 ins. in diam., 24 ins. in  
the ground, for cor.of secs.17,18,19 and 20, marked  
on brass cap,

1913 on S.rim,  
T 4 $\frac{1}{2}$  N R 32 E in N.half;  
S 18 in NW.,  
S 17 in NE.,  
S 20 in SE., and  
S 19 in SW.quadrant; from which,

A pine, 18 ins. in diam., brs.N.15 $\frac{1}{2}$ °E., 98 lks.  
dist., marked T 4 $\frac{1}{2}$  N R 32 E S 17 B T.

A pine, 16 ins. in diam., brs.S.81°E., 73 lks.  
dist., marked T 4 $\frac{1}{2}$  N R 32 E S 20 B T.

A pine 26 ins. in diam., brs.S.24 $\frac{1}{2}$ °W., 59 lks.  
dist., marked T 4 $\frac{1}{2}$  N R 32 E S 19 B T

A pine, 9 ins. in diam., brs.N.22 $\frac{1}{4}$ °W., 71 lks.  
dist., marked T 4 $\frac{1}{2}$  N R 32 E S 18 B T.

Land, hilly and mountainous.  
Soil, rocky, 4th rate.  
Timber, heavy pine, pinon, oak and fir.  
Undergrowth, scattering scrub oak.  
Mountainous land, 74 chs.

Subdivision of frac. Township 4 $\frac{1}{2}$  North, Range 32 East. 5.

Chains,  
 40.00 N. 89°40' W., on random line, bet. sec. 19, and frac. sec. 18.  
 Set temp.  $\frac{1}{4}$  sec. cor.  
 80.01 Intersect west bdy. of Tp., 44 lks. north of the cor. of secs. 13, 18, 19 and 24, established by me, as described in Book "A."  
 Thence I run,  
 S. 89°59' E., on a true line, bet. sec. 19, and frac. sec. 18.  
 Descend east slope, 50 ft., through heavy timber, and scattering undergrowth.  
 4.00 Thence along south slope.  
 5.65 Road brs. north to Alpine, and south to Clifton.  
 6.00 Descend east slope, 100 ft.  
 10.00 Canyon, course SE. Ascend SW. slope, 80 ft.  
 15.25 Spur brs. NW and SE. Ascend NE. slope, 60 ft.  
 17.25 Canyon, course SE. Ascend SW. slope, 40 ft.  
 19.00 Thence along south slope.  
 24.00 Gulch, course south. Ascend west slope, 420 ft.  
 31.50 Ridge, brs. SW. Descend SE. slope, 15 ft.  
 34.00 Gulch, course SW. Ascend NW. slope, 210 ft.  
 40.005 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,  
 1913 on S. rim,  
 $\frac{1}{4}$  S 18 in N., and  
 S 19 in S. half; from which,  
 A pine, 8 ins. in diam., brs. N. 13° W., 20 lks. dist., marked  $\frac{1}{4}$  S 18 B T.  
 A pine, 9 ins. in diam., brs. S. 29° E., 11 lks. dist., marked  $\frac{1}{4}$  S 19 B T.  
 46.50 Ridge, brs. NW and SE. Descend NE. slope, 125 ft.  
 53.50 Gulch, course SE. Ascend SW. slope, 80 ft.  
 58.40 Ridge, brs. NW and SE. Thence along ridge, brs. E. and W.  
 66.00 Along south slope of ridge.  
 70.00 Descend SE. slope, 110 ft.  
 80.01 The cor. of secs. 17, 18, 19 and 20.  
 Land, mountainous and hilly.  
 Soil, rocky, 4th rate.  
 Timber, heavy pine, oak and fir.  
 Undergrowth, scattering scrub oak.  
 Mountainous land, 42 chs.

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 N. 0° 01' E., on a true line, bet. frac. secs. 17 and 18.  
 Ascend slight south slope, through heavy timber and scattering undergrowth.  
 4.00 Pass in low ridge, brs. NE. and SW. Thence along west slope.  
 9.00 Low ridge, brs. E. and W. Descend NW. slope, 80 ft.  
 15.80 Thence across flat. Leave timber, brs. E. and W.  
 18.40 Gulch, 70 lks. wide, 8 ft. deep, course east, Jackson Creek.  
 21.20 Leave flat; ascend south slope, 90 ft. Enter timber brs. east and west.  
 23.75 Old pole fence, brs. east and west. Rocky point, 20 ft. high, brs. west 20 lks. dist.  
 25.75 Rocky spur ridge, brs. SE. Descend NE. slope, 15 ft.  
 28.00 Foot of descent; ascend south slope, 35 ft.  
 31.74 Intersect the First Standard Parallel North, at a point from which the orig. stand. ~~sec. cor. of sec. 34, T. 5N. R. 31 E.~~ ~~which is a stone, 8x10x12 ins. projecting from a mound of stone, and is witnessed as described by S. S. George, N. 89° 29' E. 2.32 chs. dist. (See notes of my retracement of First Standard Parallel North in R. 31 E., in Book "B.")~~  
 At point of intersection, set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for closing cor. of frac. secs. 17 and 18, marked on brass cap,  
 1913 on S. rim,  
 C C S of center,  
 T 5 N S 34 in N.,  
 T 4 $\frac{1}{2}$  N in S., and  
 R 32 E in W. half;

6. Subdivision of frac. Township 4 $\frac{1}{2}$  North, Range 32 East.

Chains.

S 17 in SE. and  
 S 18 in SW. quadrant; from which,  
 A pine, 10 ins. in diam., brs. S. 2 $\frac{1}{2}$ ° E., 33 lks.  
 dist., marked T 4 $\frac{1}{2}$  N R 32 E S 17 B T.  
 A pine, 12 ins. in diam., brs. S. 80° W., 62 lks.  
 dist., marked T 4 $\frac{1}{2}$  N R 32 E S 18 B T.  
 From the closing cor. just established by me, I run,  
 West, 4.70 chs.; thence N. 8.77 chs. to a stone, 12x16x12  
 ins., projecting from a mound of stone, marked,  
 C C on S., with 1 notch on W., and  
 5 notches on east edge, with 2 bearing trees.  
 Thence I run, east 1.60 chs. to a stone, 12x4x10 ins.,  
 projecting from a mound of stone, marked,  
 $\frac{1}{4}$  S C on N., with one bearing tree fallen  
 down. I destroy all evidence of both of these old  
 corners.

Land, rolling, hilly and mountainous.  
 Soil, rocky 4th rate, black loam, 1st rate in flat.  
 Timber, heavy pine and scattering oak.  
 Undergrowth, scrub oak.  
 Mountainous land, 10 chs.

Sept. 29, 1913.

Sept. 17, 1913: At 8h. 3m. a.m., l. m. t., I set off  
 33° 43 $\frac{1}{2}$ ' N. on the lat. arc; 2° 21 $\frac{1}{2}$ ' N. on the decl. arc;  
 and determine a meridian with the solar at the cor.  
 of secs. 4, 5, 32 and 33, on the south bdy. of the Tp.,  
 established by me, as described in Book "A."

Thence I run,  
 N. 0° 01' E., bet. sec. 32 and frac. sec. 33.  
 Ascend SE. slope, 110 ft. No timber.

1.40	Old Luna Valley road, brs. NE and SW.
2.00	Enter timber, brs. NE and SW.
8.00	Spur ridge, brs. SW. Ascend SW. slope.
11.00	Ridge, brs. NW and SE. Descend NE. slope, 20 ft.
13.00	Draw, course SE. Ascend SW. slope, 270 ft.
30.00	Ridge, brs. NE and SW. Descend NW. slope, 120 ft.
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, 1913 on S. rim, $\frac{1}{4}$ S 32 in W., and S 33 in E. half; from which, A pine, 7 ins. in diam., brs. N. 82° E., 12 lks. dist., marked $\frac{1}{4}$ S 33 B T. A pine, 10 ins. in diam., brs. S. 57 $\frac{1}{2}$ ° W., 10 lks. dist., marked $\frac{1}{4}$ S 32 B T.
46.00	Ridge, brs. NW and SE. Descend NE. slope.
53.00	Canyon, course east. Ascend SE. slope, 25 ft.
55.00	Spur ridge, brs. east. Descend NE. slope, 50 ft.
66.00	Canyon, course SE. Ascend SW. slope, 20 ft.
67.00	Spur ridge, brs. west. Descend NW. slope, 20 ft.
68.00	Canyon, course SW. Ascend SE. slope, 25 ft.
69.00	Spur ridge, brs. east. Descend NE. slope, 20 ft.
69.50	Ascend SW. slope, 65 ft. in gulch, course SE.
73.50	Spur ridge, brs. west. Descend NW. slope, 25 ft.
74.25	Gulch, course SW. Ascend south slope.
75.25	Spur ridge, brs. SW.
80.00	Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for cor. of secs. 28, 29, 32 and 33, marked on brass cap, 1913 on S. rim, T 4 $\frac{1}{2}$ N R 32 E in N. half; S 29 in NW., S 28 in NE., S 33 in SE., and S 32 in SW. quadrant; from which, A pine, 16 ins. in diam., brs. N. 5° E., 19 lks. dist., marked T 4 $\frac{1}{2}$ N R 32 E S 28 B T. A pine, 30 ins. in diam., brs. S. 17 $\frac{1}{2}$ ° E., 114



8. Subdivision of frac. Township  $4\frac{1}{2}$  North, Range 32 East.

Chains.

witnessed as described by the Surveyor General, brs. S.  
 $0^{\circ} 41' W.$ , 8.68 chs. dist. At point of intersection with  
 state bdy., I

Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in  
 the ground, for closing cor. of frac. secs. 28 and 33,  
 marked on brass cap,

1913 on S. rim,  
 C C W. of center,  
 N M on E. half;  
 T  $4\frac{1}{2}$  N S 28 in NW.,

R 32 E S 33 in SW quadrant; from which,  
 A pine, 10 ins. in diam., brs.  $S. 70\frac{1}{4}^{\circ} W.$ , 45 lks.  
 dist., marked C C T  $4\frac{1}{2}$  N R 32 E S 33 B T.  
 A pine, 10 ins. in diam., brs.  $N. 20\frac{1}{2}^{\circ} W.$ , 15 lks.  
 dist., marked C C T  $4\frac{1}{2}$  N R 32 E S 28 B T.

Land, mountainous.

Soil, rocky, 4th rate.

Timber, scattering pine and oak.

Undergrowth, dense scrub oak.

Mountainous land, 3.14 chs.

Sept. 17, 1913.

Sept. 30, 1913: At 8h. 4m. a.m., l.m.t., I set off  $33^{\circ}$   
 $44\frac{1}{2}' N.$  on the lat. arc;  $2^{\circ} 42' S.$  on the decl. arc,  
 and determine a meridian with the solar at the cor. of  
 secs. 28, 29, 32 and 33.

Thence I run,

$N. 0^{\circ} 1' E.$ , bet. secs. 29, and frac. sec. 28.

Ascend SW. slope, 200 ft., through dense undergrowth.

4.75

Gulch, course SW.

7.60

Spur ridge, brs. SW. Descend NW. slope.

10.00

Gulch, course west. Ascend SW. slope.

12.00

Spur ridge, brs. west. Descend NW. slope, 160 ft.

12.50

Trail, brs. E. and W.

15.00

Canyon, course SW. Ascend SE. slope, 85 ft.

18.00

Spur ridge, brs. SW. Descend NW. slope, 100 ft.

22.75

Canyon, course SW. Ascend SE. slope, 45 ft.

24.75

Spur ridge, brs. SE. Descend NE. slope, 10 ft.

26.00

Gulch, course SE. Ascend SW. slope, 180 ft.

37.60

Spur ridge, brs. SE. Descend NE. slope, 30 ft.

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,

1913 on S. rim,  
 $\frac{1}{4}$  S 29 in W., and

S 28 in E. half; from which,

A pine, 12 ins. in diam., brs.  $S. 42\frac{3}{4}^{\circ} E.$ , 12  
 lks. dist., marked  $\frac{1}{4}$  S 28 B T.

A pine 9 ins. in diam., brs.  $N. 56\frac{1}{2}^{\circ} W.$ , 11 lks.  
 dist., marked  $\frac{1}{4}$  S 29 B T.

Ascend SE. slope, 70 ft.

41.50

Spur ridge, brs. east. Thence along west slope.

46.00

Ascend slight, SW. slope.

50.75

Spur ridge, brs. SW. Descend NW. slope.

54.00

Canyon, course west; ascend SW. slope, 35 ft.

56.00

Ascend ~~along broken west~~ slope.

60.00

Ascend SW. slope, 90 ft.

68.00

Top of ascent; descend NW. slope.

70.00

Canyon, course SW. Ascend SE. slope.

72.40

Thence along broken east slope.

74.00

Ascend broken SE. slope, 165 ft.

80.00

Set an iron post, 3 ft. long, 32 ins. in diam., 24 ins.  
 in the ground, for cor. of secs. 20, 21, 28 and 29,  
 marked on brass cap,

1913 on S. rim,

T  $4\frac{1}{2}$  N R 32 E in N. half;

S 20 in NW.,

S 21 in NE.,

S 28 in SE., and

S 29 in SW. quadrant; from which,

Subdivision of ~~Trac~~ Township 4 $\frac{1}{2}$  North, Range 32 East. 9.

Chains.

- A pine, 20 ins. in diam., brs.N.52°E., 95 lks. dist., marked T 4 $\frac{1}{2}$  N R 32 E S 21 B T.
- A pine, 10 ins. in diam., brs.S.24°E., 39 lks. dist., marked T 4 $\frac{1}{2}$  N R 32 E S 28 B T.
- A scrub oak, 10 ins. in diam., brs.S.66°W., 68 lks.dist, marked T 4 $\frac{1}{2}$  N R 32 E S 29 B T.
- A pine, 12 ins. in diam., brs.N.55°W.,, 30 lks.dist, marked T 4 $\frac{1}{2}$  N R 32 E S 20 B T.

Note: At this corner I set off 2°46 $\frac{1}{2}$ ' S. on the decl.arc; and at noon, I observe the sun on the meridian; the resulting latitude is 33°45 $\frac{1}{2}$ ' N.

Land, mountainous.  
Soil, rocky, 4th rate.  
Timber, heavy pine,oak, fir and cedar.  
Undergrowth, dense scrub oak and locust.  
Mountainous land,80 chs.

- 40.00
- 79.97
- 1.00
- 6.00
- 12.00
- 18.00
- 26.00
- 31.50
- 38.80
- 39.985
- 45.00
- 50.00
- 53.00
- 55.25
- 66.00
- 76.00
- 79.97

S.89°58'W., on a random line, bet. secs. 20 and 29.  
Set temp. $\frac{1}{4}$  sec.cor.  
Intersect N and S. line, 21 lks.S. of the cor.of secs.19, 20,29 and 30 , hereinbefore described.  
Thence I run,  
S.89°53'E., on a true line, bet. secs.20 and 29.  
Descend SE. slope, 30 ft., through heavy timber and undergrowth.  
Canyon, course SW. Ascend rolling west slope, 425 ft.  
Canyon, course SW. Continue to ascend SW. slope.  
Gulch, course SW.  
Ridge, brs.NW.and SE. Descend east slope, 450 ft.  
Gulch, course ESE. Descend SE. slope.  
Gulch, course NE. Descend NE. slope.  
Canyon, course SE. Ascend SW. slope, 30 ft.  
Ridge, brs.N.and S. 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,  
1913 on S.rim,  
 $\frac{1}{4}$  S 20 in N.,  
S 29 in S. half; from which,  
A pine 11 ins, in diam., brs.N.50 $\frac{1}{2}$ °W., 29 lks.dist., marked  $\frac{1}{4}$  S 20 B T.  
A pine, 6 ins. in diam., brs.S.15°W., 6 lks. dist., marked  $\frac{1}{4}$  S 29 B T.  
Descend SE. slope, 45 ft.  
Canyon, course south. Ascend west slope, 155 ft.  
Spur ridge, brs.SW. Ascend SW. slope.  
Spur ridge, brs.S. Descend SE. slope, 65 ft.  
Canyon, course SW. Ascend SW. slope, 230 ft.  
End of ascent; thence along south slope.  
Descend SE. slope, 55 ft.  
The cor.of secs.20,21, 28 and 29.  
Land, hilly and mountainous.  
Soil, rocky, 4th rate.  
Timber, heavy pine and cedar.  
Undergrowth, scattering scrub oak.  
Mountainous land,64 chs.

East, on true line, bet. frac. secs.21 and 28.  
Descend SE. slope, 60 ft., through scattering timber.  
2.30 End of descent; canypn, course SE. Ascend SW. slope, 30 ft.  
3.90 From this point, the224 mile cor. on the boundary between Arizona and New Mexico, brs.S.0°3' E., 9.92 chs. dist., This corner is a stone 16x18x22 ins. protruding from a mound of stone, marked and witnessed as described by the Surveyor General.

10. Subdivision of frac. Township 4 $\frac{1}{2}$  North, Range 32 East.

Chains.

At the point of intersection with the State bdy., I  
Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins.  
in the ground, for closing corner of frac.secs.21 and  
28, marked on brass cap,  
1913 on S.rim,  
C C west of center,  
N M on E.half;  
T 4 $\frac{1}{2}$  N S 21 in NW., and  
R 32 E S 28 in SW. quadrant; from which,  
A pine, 9 ins. in diam., brs.S.46°W., 47 lks.  
dist., marked C C T 4 $\frac{1}{2}$  N R 32 E S 28 B T.  
A pine, 10 ins. in diam., brs.N.21°W., 67 lks.  
dist., marked C C T 4 $\frac{1}{2}$  N R 32 E S 21 B T.

Land, mountainous.

Soil, rocky, 4th rate.

Timber, scattering pine and cedar.

Undergrowth, none.

Mountainous land, 3.90 chs.

Sept.30, 1913.

Oct. 1, 1913: At 7h. 55m., a.m., l.m.t., I set off 33°45 $\frac{1}{2}$ '  
on the lat.arc; 3°05'S. on the decl.arc; and determine  
a meridian with the solar at the cor.of secs.20,21,28  
and 29, hereinbefore described.

Thence I run,

N.0°1' E. bet. sec.20 and frac.sec.21.

Descend NE. slope,, 30 ft., through heavy timber and scat-  
tering undergrowth.

4.50 Canyon, course SE. Ascend S. slope, 180 ft.  
11.20 Ridge, brs.E and W. Descend N. slope, 575 ft.  
15.00 Head of gulch, course NE. Ascend NE. slope.  
21.00 Spur ridge, brs.NE. Descend N. slope.  
31.40 End of descent Pace Creek bottom.  
32.00 Pace Creek, 30 lks. wide, course SE. Ascend SW. slope, 65  
ft.  
39.40 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in  
the ground for W C to  $\frac{1}{4}$  sec.cor., marked on brass cap,  
1913 on S.rim,  
W C  $\frac{1}{4}$  in N.half;  
S 21 in SE., and  
S 20 in SW. quadrant; from which,  
A cedar, 36 ins. in diam., brs. N.83°E., 20 lks.  
dist., marked W C  $\frac{1}{4}$  S 21 B T.  
A cedar, 8 ins. in diam., brs.S.61°W., 127 lks.  
dist., marked W C  $\frac{1}{4}$  S 20 B T.  
40.00 Point for  $\frac{1}{4}$  sec.cor. falls in Pace Creek Canyon.  
40.80 Pace Creek, course SW. Ascend in creek.  
42.40 Rocky spur brs. west  
44.00 Pace Creek, course SE.  
44.70 Rocky spur slopes east.  
45.00 Leave Pace Creek, Canyon, course SE. Ascend steep S. slope,  
530 ft.  
Rocky cliff, 120 ft. high.  
66.00 Ascend slight SW. slope.  
72.00 Ascend SE. slope, 60 ft.  
80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in  
the ground, for cor.of sec.20, and frac.secs.16,17  
and 21, marked on brass cap,  
1913 on S.rim,  
T 4 $\frac{1}{2}$  N R 32 E in N.half;  
S 17 in NW.,  
S 16 in NE.,  
S 21 in SE., and  
S 20 in SW. quadrant; from which,  
A pine, 16 ins. in diam., brs.N.48°E. 53 lks.  
dist., marked T 4 $\frac{1}{2}$  N R 32 E S 16 B T.  
A pine, 22 ins. in diam., brs.S.8°E., 38 lks.  
dist., marked T 4 $\frac{1}{2}$  N R 32 E S 21 B T.  
A juniper, 12 ins. in diam., brs.S.37°W., 60  
lks.dist., marked T 4 $\frac{1}{2}$  N R 32 E S 20 B T.

Subdivision of frac. Township 4 1/2 North, Range 32 East. 11.

Chains.

A juniper, 10 ins. in diam., brs. N. 36° W., 65 lks. dist., marked T 4 1/2 N R 32 E S 17 B T.  
 Land, mountainous and hilly.  
 Soil, rocky, 4th rate.  
 Timber, heavy pine, cedar, and oak and fir.  
 Undergrowth, scrub oak, cedar and locust.  
 Mountainous land, 46 chs.

40.00 N. 89° 53' W., on a random line, bet. sec. 20, and frac. sec. 17.  
 80.40 Set temp. 1/4 sec. cor.  
 Intersect the N. and S. line, 9 lks. N. of the cor. of secs. 17, 18, 19 and 20, hereinbefore described.  
 Thence I run,  
 8.00 S. 89° 57' E., on a true line, bet. sec. 20 and frac. sec. 17.  
 10.00 Descend slight east slope, 26 ft., through heavy timber.  
 16.00 Gulch, course SE. Ascend SW. slope, 30 ft.  
 18.75 Spur ridge, brs. S. Descend SE. slope, 65 ft.  
 23.00 End of descent; gulch, course N. Thence over level land.  
 24.50 Leave timber, brs. N. and S.  
 28.65 Gulch, 50 lks. wide, 12 ft. deep, course SE. Jackson Creek.  
 Leave flat, ascend SW. slope, 100 ft.  
 Enter timber, brs. N. and S.  
 34.00 End of ascent; rocky spur ridge, brs. SE. Descend E. slope, 30 ft.  
 37.50 Gulch, course south. Ascend SW. slope, 70 ft.  
 40.20 Ridge, brs. N. and S. Descend SE. slope, 15 ft.  
 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,  
 1913 on S rim,  
 1/4 S 17 in N., and  
 S 20 in S. half; from which,  
 A pine, 7 ins. in diam., brs. N. 41° W., 11 lks. dist., marked 1/4 S 17 B T.  
 A pine, 7 ins. in diam., brs. S. 52° W., 19 lks. dist., marked 1/4 S 20 B T.  
 44.40 Descend east slope, 50 ft.  
 45.45 Foot of descent; thence across canyon.  
 52.90 Face Creek Canyon, 50 lks. wide, course SE. Ascend SW. slope, 150 ft.  
 55.55 Rocky ledge brs. NW and SE.  
 63.40 A juniper 40 ins. in diam., on line.  
 68.40 Low ridge, brs. N. and S. Descend slight SE. slope, 20 ft.  
 76.00 End of descent; thence over level land.  
 79.40 Ascend slight west slope.  
 80.40 Low ridge, brs. N. and S.  
 The cor. of secs. 16, 17, 20 and 21.  
 Land, rolling, hilly and mountainous.  
 Soil, rocky, 4th rate.  
 Timber, heavy pine, juniper and oak.  
 Undergrowth, scattering scrub oak.  
 Mountainous land, 26 chs.

3.76 East, on a true line, bet. frac. secs. 16 and 21.  
 Descend slight SE. slope, 30 ft., through scattering timber and undergrowth.  
 From this point, the 223 mile cor. on the Arizona New Mexico Bdy., which is a stone, 7x12x10 ins., protruding from a mound of stone, marked and witnessed as described by the Surveyor General, brs. S. 9° 02' E., 8.01 chs. dist. At point of intersection with state bdy., I set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for closing cor. of frac. secs. 16 and 21, marked on brass cap,

12. Subdivision of frac. Township 4 $\frac{1}{2}$  North, Range 32 East.

Chains.

1913 on S. rim,  
 C C W. of center,  
 N M in E. half;  
 T 4 $\frac{1}{2}$  N, S 16 in NW.,  
 R 32 E, S 21 in SW. quadrant; from which,  
 A juniper, 18 ins. in diam., brs. S. 35° W., 123  
 lks. dist., marked C C T 4 $\frac{1}{2}$  N R 32 E S 21 BT.  
 A pine, 16 ins. in diam., brs. N. 69° W., 104 lks.  
 dist., marked C C T 4 $\frac{1}{2}$  N R 32 E S 16 B T.

Land, hilly.  
 Soil, rocky, 4th rate.  
 Timber, scattering pine, oak and juniper.  
 Undergrowth, scattering scrub oak.

N. 0° 01' E., bet. frac. secs. 16 and 17.  
 Along east slope, through heavy timber and scattering  
 undergrowth.

6.00 Ascend SE. slope, 60 ft.  
 11.00 End of ascent; thence along east slope.  
 16.00 Descend slight NE. slope, 45 ft.  
 17.00 A juniper 30 ins. diam., on line.  
 31.09 Intersect the First Standard Parallel North. From this  
 point closing cor. of T. 5 N., R. 31 E., and T. 4 $\frac{1}{2}$  N.,  
 R 32 E., which is an oak stake, 4x4 ins. square, set  
 in a mound of stone, marked T 4 N R 31 E on SW., and  
 T 5 N R 31 E on NW., and S C on E. face, brs. S. 89° 49'  
 E., 3.71 chs. dist. This post is witnessed by 2 bearing  
 trees. (See Retracement notes in Book "B?")  
 At point of intersection, set an iron post, 3 ft. long, 2  
 ins. in diam., 24 ins. in the ground, for closing  
 corner of frac. secs. 16 and 17, marked on brass cap,

1913 on S. rim,  
 C C S of center,  
 T 5 N S 35 in N.,  
 T 4 $\frac{1}{2}$  N in S., and  
 R 32 E in W. half;  
 S 16 in SE., and  
 S 17 in SW. quadrant; from which,  
 A pine, 6 ins. in diam., brs. S. 64° E., 28 lks.  
 dist., marked C C T 4 $\frac{1}{2}$  N R 32 E S 16 BT.  
 A pine, 40 ins. in diam., brs. S. 40° W., 90 lks.  
 dist., marked C C T 4 $\frac{1}{2}$  N R 32 E S 17 B T.

Land, rolling.  
 Soil, rocky, 4th rate.  
 Timber, heavy pine, oak, juniper.  
 Undergrowth, scrub oak.

Oct. 1, 1913.

GENERAL DESCRIPTION.

This township is mountainous, of granite formation. It  
 is covered with pine, oak, juniper, fir and cedar tim-  
 ber, and scrub oak and locust undergrowth. Along the  
 creek bottoms, are cottonwood, walnut and ash trees,  
 some of it good saw timber. There are small patches  
 of rich loam along Creek bottoms. William Milligan  
 is the only settler. He is located in sec. 32.

Boundaries of Fractional T 4 1/2 N., R. 32 E.

Latitudes, departures and closing errors

Line designated.	True Bearing.	Dist.	Latitudes.		Departures	
			N.	S.	E.	W.
		chs.	chs.	chs.	chs.	chs.
South Bdy.	West.	163.06				163.06
West Bdy.	North	270.01	270.01			
	East	2.27			2.27	
North Bdy. (1st Sta. Par N.) North Bdy.	N. 87° 53' E.	40.00	1.48		39.97	
	N. 89° 29' E.	39.89	.36		39.89	
	S. 89° 48' E.	40.03		.14	40.03	
	S. 89° 19' E. East	39.40		.47	39.40	
East Bdy. (Ariz. - New Mex. State Bdy.)	S. 0° 2' E.	39.09		39.09	.02	
	S. 0° 3' E.	82.07		82.07	.07	
	S. 0° 41' W.	79.00		78.99		.94
	S. 0° 6' W.	71.44		71.44		.12
Convergency					.09	
<b>Totals</b>			271.85	272.20	164.08	164.12
			271.85			164.08
Error in lat.			0.35	Error in dep. 0.08		

William B. Kimmel.  
U. S. Surveyor

32  
14

For FINAL OATH OF UNITED STATES SURVEYOR.

See Book " D "

I, \_\_\_\_\_, U. S. Surveyor, do solemnly swear that, in pursuance of special instructions received from the U. S. Surveyor General for \_\_\_\_\_ bearing date of the \_\_\_\_\_ day of \_\_\_\_\_, 191 \_\_\_\_\_, I have well, faithfully, and truly, in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of \_\_\_\_\_ of the \_\_\_\_\_ Meridian, in the State of \_\_\_\_\_, which are represented in the foregoing field notes as having been executed 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 U. S. Surveyor General for \_\_\_\_\_ and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

U. S. Surveyor.

Subscribed by said \_\_\_\_\_, and sworn to before me }  
 this \_\_\_\_\_ day of \_\_\_\_\_, 191 \_\_\_\_\_



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix Arizona June 19 \_\_\_\_\_, 191 5

The foregoing field notes of the survey of \_\_\_\_\_ the  
 \_\_\_\_\_  
 Subdivision lines of  
 Fractional Township No. 4 1/2 North, Range No. 32 East  
 of the Gila and Salt River Base and Meridian,  
 in the State of Arizona

executed by \_\_\_\_\_ William B. Kimmel \_\_\_\_\_ U.S. Surveyor  
 under his special instructions dated \_\_\_\_\_ August 9, 1912 for Group 26 \_\_\_\_\_, 191 \_\_\_\_\_, 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*  
 Surveyor General.  
 of Arizona.

~~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.~~