

Book E. 2383

MAR 13 1912

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L. L. O. letter "E" April 25-1913
FIELD NOTES

re
OF THE SURVEY OF THE BOOK 2383

Trac South Boundary I & P. R. 16 E.

Of the *T. & P.* Meridian,

In the State of *Territory of Arizona*

EXECUTED BY

William H. Elliott

In the capacity of U. S. Surveyor, under instructions dated *March 11*, 1911,
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, *April 5*, 1911, pursuant to authority contained in the Act of
Congress dated *June 25*, 1910 & *March 4*, 1911

Survey commenced *April 16*, 1911

Survey completed *April 19*, 1911

INDEX DIAGRAM.

Township _____, *Range* _____

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

BOOK 2383

INDEX DIAGRAM.

Township 4th P., Range 16th E.

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36
	3	3	2	2	1

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PRELIMINARY OATHS OF ASSISTANTS.

WE, Albert Smith and Wallace R. Bond

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

fract. W. and S. bdy and resurvey of fract. S. bdy, T. 4 S., R. 16 E.

Albert Smith, Chainman.

Wallace R. Bond, Chainman.

Subscribed and sworn to before me this 6th day of April, 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

fract. N. and S. bdy, and resurvey of fract. S. bdy, T. 4 S., R. 16 E.

W. O. Temple, Moundman.

Moundman.

Subscribed and sworn to before me this 6th day of April, 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 E. Lowell, 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

fract. N. and S. bdy, and resurvey of fract. S. bdy, T. 4 S., R. 16 E.

Dexter E. Lowell, Flagman.

Subscribed and sworn to before me this 6th day of April, 1911



William H. Elliott

U. S. Surveyor

Resurvey of Trac. South Bdy. Township 4 South, Range 16 E. 1.

Chains.

Survey commenced April 16, 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 examined the adjustments of the transit, April 16th, and found them correct; then, to test the solar apparatus, by comparing its indications resulting from solar observations, made during p.m. and a.m. hours with a meridian determined on Polaris, I proceed as follows.

At camp, which is 40 chs. S. of the S. bdy. of township at 4h.30m. p.m., l.m.t., I set off $33^{\circ}01\frac{1}{2}'$ N. on the lat. arc; $10^{\circ}01'$ N. on the decl. arc, and mark the meridian thus determined with the solar, by a tack driven in a wooden stake firmly set in the ground, 5 chs. N. of my station.

At 7h.35m. p.m., l.m.t., I observe Polaris in accordance with instructions in the Manual, and mark the direction thus determined by a tack driven in a wooden peg, firmly set in the ground 5 chs. N. of my station.

U.C. April 16, at 1h.52m. a.m., hour angle at time of observation is $7:35 + 8 = 7h. 43m.$; the azimuth is therefore $1^{\circ}15'W.$

April 17: At 7h. a.m., I lay off the angle of Polaris $1^{\circ}15'$ to the east, and mark the meridian thus determined by a tack in a stake set last evening, on which the meridian falls 0.3 ins. W. of the mark determined by the solar.

At 7h.30m. a.m., l.m.t., I set off $33^{\circ}01\frac{1}{2}'$ N. on the lat. arc; $10^{\circ}14\frac{1}{2}'$ N. on the decl. arc, and mark the meridian thus determined, with the solar, by a tack driven in stake already set 5 chs. N. of my station; this mark falls 0.5 ins. W. of the meridian established by Polaris observation. The solar apparatus by p.m. and a.m. observation, defines position for meridian as $0'21''W.$ and $0'11''E.$ of the meridian as established by Polaris observation; therefore, I conclude that the adjustments of the instrument are satisfactory.

From the cor. of Tps. 4 and 5 S., Rs. 15 and 16 E., which is a malpais stone 8x8x8 ins. above ground, marked and witnessed as described by the Surveyor General, I run east, carefully searching for old cors. from the Gila River east, but am unable to find any except the cor. of Tps. 4 and 5 S., Rs. 16 and 17 E., which bears S. 79 lks. from the 466.87 chs. station. This cor. is a sandstone 5x10x8 ins. above ground, marked and witnessed as described by the Surveyor General.

April 17, 1911.

At the above cor. April 18, 1911, at 7h.30m. a.m., l.m.t., I set off $33^{\circ}02'$ N. on the lat. arc; $10^{\circ}35\frac{1}{2}'$ N. on the decl. arc, and determine a true meridian with the solar.

Thence I run,

West, on a true line, bet. secs. 1 and 36.
Over mountainous land, through thick brush.

21.80

Foot of steep ascent.

38.00

Top of ridge, N. and S., and descend slightly.

40.00

Set granite stone 15x9x6 ins., set 10 ins. in the ground, marked $\frac{1}{2}$ S on N. face; raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

Descend abruptly.

62.60

Gulch, 30 lks. wide, course SW., and over hilly land, descending.

72.00

Gulch, 45 lks. wide, course NW.

80.00

Set a granite stone 15x10x7 ins., 10 ins. in the ground, for cor. of secs. 1, 2, 35 and 36, with 1 notch on E. and

2. Frac. South bdy. of Township 4 South, Range 16 East.

Chains.

5 notches on W. edge; and raise a mound of stone 2 ft. base, 1½ ft. high, W. of cor.
 Land, mountainous.
 Soil, a decomposed granite, 4th rate.
 No timber.
 Greasewood brush and palo verde.

-
- Thence west on a true line, bet. secs. 2 and 35.
 Over mountainous land, through thick brush.
- 1.50 Wash, 90 lks. wide, course NE., and ascend steep side hill, sloping SW.
 - 26.00 Top of ridge, NE. and SW., and over broken hills.
 - 40.00 Set a granite stone 15x10x10 ins., set 10 ins. in the ground, marked ¼ S on N. face, and raise a mound of stone 2 ft. base, 1½ ft. high, N. of cor.
 - 41.00 Gulch, 10 lks. wide, course SW. Ascend.
 - 71.96 Intersect line 2-3 Trenton lode, survey No. 2180 at N. 39° 10' E., 6.49 chs. from cor. No. 2, and S. 39° 10' W., 16.23 chs. from cor. No. 3.
 - 78.04 Intersect line 1-2, Trenton and Golden Gate lodes, survey No. 2180, at N. 21° 29' W., 5.41 chs. from cor. No. 2, and S. 21° 29' E., 3.71 chs. from cor. No. 1.
 - 78.25 Top of ridge, N. and S., and descend along side hill, sloping S.
 - 80.00 Set a granite stone, 18x6x5 ins., 12 ins. in the ground, for the cor. of secs. 2, 3, 34 and 35, with 2 notches on the E. and 4 notches on the W. faces; raise a mound of stone 2 ft. base, 1½ ft. high, W. of cor.
- Land, mountainous.
 Soil, a decomposed granite, 4th rate.
 No timber.
 Palo verde and greasewood brush.
 U.S.L.M. No. 2180, bears N. 67° 25' W., 7.77 chs.
 April 19, 1911.

April 19. At 7h. 30m. a.m., 1.m.t., I set off 33° 02' N. on the lat. arc; 10° 56½' N. on the decl. arc, and determine a true meridian with the solar at the cor. of secs. 2, 3, 34 and 35.

Thence I run,
 West, on a true line, bet. secs. 3 and 34.
 Over mountainous land, through thick brush.
 Ascending on N. slope of ridge.

- 13.08 Intersect line 1-4 of Golden Gate lode, Survey No. 2180, at N. 75° 57' E., 8.63 chs. from cor. No. 4 and S. 75° 57' W., 14.09 chs. from cor. No. 1.
- 8.10 Descend over very rough mountainous land.
- 23.35 Gulch, 15 lks. wide, course S., and ascend.
- 25.90 Ridge, N. and S., and descend.
- 40.00 Set a granite stone, 15x8x6 ins., 10 ins. in the ground for ¼ sec. cor., marked ¼ S on N. face; raise a mound of earth 2 ft. base, and 1½ ft. high, N. of cor.
- 80.00 Set a granite stone, 20x10x6 ins., 15 ins. in the ground, for cor. of secs. 3, 4, 33 and 34, with 3 notches on E., and W. faces; raise a mound of stone 2 ft. base, 1½ ft. high, W. of cor.

Land, mountainous.
 Soil, a decomposed granite; 4th rate.
 No timber.
 Palo verde and greasewood brush.
 At this cor. I set off 10° 59½' N. on the decl. arc, and at 11h. 59.3m. p.m. I observe the sun on the meridian; the resulting lat. is 33° 02' N.

Frac. South Bdy. of Township 4 South, Range 16 East.

3.

Chain

- West, bet. secs. 4 and 33.
 - Over mountainous land, through thick brush.
 - 25.70 Gulch, 20 lks. wide, course SW., and ascend.
 - 40.00 Set a granite stone 15x10x10 ins., 10 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ S on N. face; raise a mound of earth 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
 - 63.75 Top of high ridge, N. and S., 275 ft. above the Gila River, and descend.
 - 80.00 Set a granite stone 21x10x8 ins., 15 ins. in the ground, with 4 notches on E., and 2 notches on W. edge; raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
- Land, mountainous.
Soil, a very poor decomposed granite, 4th rate.
No timber.
Palo verde and greasewood brush.

-
- West, on a true line, bet. secs. 5 and 32.
 - Descend to Gila bottom.
 - 8.80 Foot of descent, and fence N. and S., and through a small patch of mesquite.
 - 11.62 Fence, N. and S.
 - 11.94 Bank of Gila River; set a mesquite post $3\frac{1}{2}$ ft. long, 3 ins. in diam., 30 ins. in the ground for cor. of frac. secs. 5 and 32, scribed
 - T 4 S R 16 E S 32 on NE., and
 - T 5 S R 16 E S 5 on SE. face; dig pits 18x18x12 ins. NE. and SE., of post, and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, E. of cor.
- A mesquite tree, 24 ins. in diam., brs. S. 81° E., 109 lks. dist., scribed T 5 S R 16 E S 5 B T.
- Land, mountainous, except the west 5.68 chs., which is level.
Soil, decomposed granite in mountainous part, 4th rate; 5.68 chs. sandy loam, 2nd rate.
Timber, scattering palo verde and ironwood in mountains; mesquite in level land. Greasewood brush.
April 19, 1911.

GENERAL DESCRIPTION.

The lands embraced in this survey are very mountainous, with very little grass growing. The line passes over a succession of high ridges, and the drainage is to the Gila River. With the exception of a narrow strip close to the river, the soil is 4th rate.

William H. Elliott
U. S. Surveyor.

FINAL OATHS OF ~~DEPUTY~~ SURVEYOR AND HIS ASSISTANTS.

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LIST OF NAMES.

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 fract. N. and S. bdy., and resurvey of fract. S. bdy. T. 4 S., R. 16 E. showing the respective capacities in which they acted:

- Albert Smith Chairman.
- Wallace R. Bond Chairman.
- W. O. Temple Moundman.
- Moundman.
- Axman.
- Axman.
- Dexter Ellwell 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 fract. N. and S. bdy., and resurvey of fract. S. bdy., T. 4 S., R. 16 E.

G. S. R meridian, Territory of Arizona of the 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 Chairman.
- Wallace R. Bond Chairman.
- W. O. Temple Moundman.
- Moundman.
- Axman.
- Axman.
- Dexter Ellwell Flagman.

Subscribed and sworn to before me this 8th day of June, 19 11

William H. Elliott
U. S. Surveyor



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FINAL OATH OF UNITED STATES ~~DEPUTY~~ SURVEYOR.

I, William H. Elliott, United States ~~Deputy~~ Surveyor, do solemnly swear that, in pursuance of a contract received from Frank D. Meall, United States Surveyor General for Arizona, bearing date of the August 25, 1910 and March 11, 1911, 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 fract. S. and N. hdy., and rearsurvey of fract. S. hdy., T. 45 R. 16 E.

G.S.R. of the Meridian in the Territory 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 D. Meall
United States Surveyor General



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

The foregoing field notes of the survey of the fract. South Boundary of T. 45 R. 16 E., G.S.R. Meridian, Arizona, March 16, 1912

executed by William H. Elliott, under his 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 D. Meall
United States Surveyor General.

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

United States Surveyor General.