

2413

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BOOK 2413

Book # 3

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# FIELD NOTES

OF THE SURVEY OF THE

Fractional East Boundary, T. 25 N., R. 10 W.

Fractional North Boundary, T. 25 N., R. 9 W.

Of the Gila and Salt River Base and Meridian,

In the State of ARIZONA

EXECUTED BY

William H. Elliott

In the capacity of U. S. Surveyor, under instructions dated February 5, 1912,

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

Group No. 16, which were approved by the Commissioner of the General Land

Office, March 1, 1912, pursuant to authority contained in the Act of

Congress dated June 25, 1910.

Survey commenced April 4, 1912

Survey completed April 8, 1912

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BOOK 2413

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Fractional  
Township 25 North, Range 9 West

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T. 25 N.  
R. 10 W.

6th Standard Parallel North

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Frac. East Bdy. T. 25. N., R. 10 W.

1

Chains.

April 4, 1912.

Knowing from recent and repeated tests that my instrument is in satisfactory adjustment, I begin at the Standard cor. of Tps. 25 N., Rs. 9 & 10 W., which is an iron post 3 ins. in diam., 1 ft. above ground, with brass cap, marked and witnessed as described by the Surveyor-General.

At this cor., at 8h a.m., l.m.t., I set off  $5^{\circ}44'$  N. on the decl. arc, and  $35^{\circ}30\frac{1}{2}'$  N. on the lat. arc, and determine a meridian with the solar.

Thence I run, as per instructions,

North, on range line, bet. secs. 31 & 36.

Over rolling, broken land, asc. through scattering scrub oak and buck brush. Var.  $15^{\circ}30'$  E.

- 3.00 Top of rise, desc. along ridge.  
 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;  
 raise a mound of stone 2 ft. base,  $1\frac{1}{2}$  ft. high W. of cor.  
 45.00 Leave ridge to NW., desc. steep.  
 55.00 Road brs. NW. & SE. in draw 2 chs. wide, course NW., asc.  
 64.90 Top of ridge, brs. NW. & SE., desc.  
 76.46 Telephone line, brs. Easterly and Westerly, parallel to railroad.  
 77.08 Centre of single track of Atchison Topeka & Santa Fe R.R., on curve No. 503, 135 ft. to SW. of compound curve, brs. Easterly and Westerly.  
 78.00 Telegraph line, parallel to R.R.  
 78.54 Road in draw 2 chs. wide, Easterly and Westerly.  
 Asc. over rolling land.  
 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 & 36, marked on brass cap, T. 25 N in NW. half,  
 R 9 W S 30 in NE.,  
 S 31 in SE.,  
 R 10 W S 36 in SW., and  
 S 25 in NW. quadrants;  
 raise a mound of stone 2 ft. base,  $1\frac{1}{2}$  ft. high W. of cor.  
 Land, rolling, broken. Soil, 3rd rate, stony, gravelly.  
 Sparse cedar, pinon, scrub oak, fair grass.

North, bet. secs. 25 & 30.

Over broken land, asc. prec. S. slope, through sparse scrub cedar and pinon.

- 8.00 Asc. grad. top of steep ascent.  
 24.00 Top, brs. NW. & SE., desc. grad.  
 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; from which,  
 A cedar tree 7 ins. diam. brs. N.  $40\frac{1}{4}^{\circ}$  E. 58 lks. dist.,  
 marked  $\frac{1}{4}$  S 30 B T.  
 A pinon tree 9 ins. diam. brs. S.  $57^{\circ}$  W. 54 lks. dist.,  
 marked  $\frac{1}{4}$  S 25 B T.  
 52.00 Road, brs. E. & W., in saddle, asc. grad.  
 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 & 30, marked on brass cap, T 25 N, in N. half, R 9 W S 19 in NE.,  
 R 10 W S 24 in NW., S 30 in SE., and S 25 in SW. quad.;  
 from which,  
 A pinon tree 12 ins. diam. brs. N.  $87^{\circ}$  E. 107 lks. dist.,  
 marked T 25 N R 9 W S 19 B T.  
 A pinon tree 8 ins. diam. brs. S.  $77\frac{1}{4}^{\circ}$  E. 75 lks. dist.,  
 marked T 25 N R 9 W S 30 B T.  
 A pinon tree 6 ins. diam. brs. S.  $18\frac{3}{4}^{\circ}$  W. 57 lks. dist.,  
 marked T 25 N R 10 W S 25 B T.  
 A pinon tree 10 ins. diam. brs. N.  $66\frac{1}{4}^{\circ}$  W. 195 lks. dist.,  
 marked T 25 N R 10 W S 24 B T.  
 Land, rolling. Soil, 3rd rate, gravelly. Few cedars & pinons.

Chains.

At this cor., at noon, I set off  $5^{\circ}47\frac{1}{2}'$  N. on the decl. arc, and observe the sun on the meridian. The resulting lat. is  $35^{\circ}32\frac{1}{2}'$  N.

North, bet. secs. 19 & 24.

Over heavily rolling land, asc. through dense cedar and pinon.

- 3.00 Top of ridge, brs. SE. & NW. desc.
- 6.00 Draw 1 ch. wide, course SE., near head, asc.
- 14.00 Ridge brs. SE. & NW., desc.
- 34.00 Leave cedar & pinon, brs. E. & W.
- 34.25 Road, brs. SE. & NW.
- 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  $\frac{1}{4}$  in W., and  
S 19 in E. half;

dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high W. of cor.

- 48.72 Intersect SE. bdy. line of Hualpai Indian Reservation S.  $50^{\circ}$  W. 14.85 chs. from 65 mile cor. which is a limestone 6 inches above ground, marked and witnessed as described by the Surveyor-General.

Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for closing cor. of Tps. 25 N., Rs. 9 & 10 W., marked on brass cap,

C C E. of centre,  
H I R in NW., and  
T 25 N, in SE. halves,  
S 19 R 9 W in SE., and  
S 24 R 10 W in SW. sectors;

dig pits 30x24x12 ins. crosswise on each line, N.  $50^{\circ}$  E. & S.  $50^{\circ}$  W. 4 ft., and S. of cor. 8 ft. dist., and raise a mound of earth 5 ft. base,  $2\frac{1}{2}$  ft. high S. of cor.

Land, rolling.

Soil, 3rd rate, sandy, gravelly, dry.

Sparse cedar, pinon, scrub oak. Good grass.

General Description.

The East bdy. of T. 25 N., R. 10 W. runs over a rolling, broken country, sparsely covered with scrub cedar and pinon, the larger timber, once very dense, having been cut away.

The soil is a calcareous gravel, with outcroppings of limestone in places.

There are no indications of mineral, no any water along this line.

Fractional T. 25 N., R. 10 W.  
Latitudes, departures and closing errors.

Line Designated.	True bearing.	Dist. Chs.	Latitudes.		Departures.	
			N.	S.	E.	W.
6th Std. Par. N.	West	250.38	Chs.	Chs.	Chs.	Chs.
S.E. Bdy. Hualpai In. Res.	N. $50^{\circ}$ E.	208.97	134.33	---	160.08	---
S.E. Bdy. Hualpai In. Res.	N. $50^{\circ}10'$ E.	176.75	74.78	---	89.65	---
East Boundary T. 25 N., R. 10 W.	South	208.72	---	208.72	---	---
Convergency,	---	---	---	---	-0.11	---
Totals,	---	---	209.10	208.72	249.84	250.38
			208.72	---	250.32	249.84
Error in Lat.,			0.38	Error in dep.	0.27	0.54

April 4, 1912.

*William H. Clark*  
U. S. Surveyor.

Frac. North Boundary T. 25 N., R. 9 W.

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- Chains April 8, 1912.  
 Knowing from recent and repeated tests made on a true meridian established by observation of Polaris that my instrument is in accurate adjustment,  
 I began at the cor. of Tps. 25 & 26 N., Rs. 8 & 9 W., as established by me under Group 15, Ariz., and heretofore described.
- At 8h 30m a.m., l.m.t., at the above cor.,  
 I set off  $7^{\circ}15'$  N. on the decl. arc, and  $35^{\circ}36'$  N. on the lat. arc, and determine a meridian with the solar. Thence I run, as per instructions,  
 West, bet. secs. 1 & 36, Var.  $16^{\circ}$  E.  
 Over rolling land.
- 39.50 Enter cedar and pinon, brs. N. & 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,  
     S  $36^{\circ}\frac{1}{4}$  in N., and  
     S 1 in S. half; from which,  
 A cedar tree 6 ins. diam. brs.  $S.0^{\circ}\frac{3}{4}W.$  90 lks. dist., marked  $\frac{1}{4}$  S 1 B T.  
 A cedar tree 7 ins. diam. brs.  $N.82^{\circ}W.$  89 lks. dist., marked  $\frac{1}{4}$  S 36 B T.
- 70.10 Road, brs. NE. & SW.  
 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 1, 2, 35 & 36, marked on brass cap, T 26 N, in N.,  
     T 25 N, in S., and  
     R 9 W, in W. half,  
     S 35 in NW.,  
     S 36 in NE.,  
     S 1 in SE., and  
     S 2 in SW. quad.; from which,  
 A cedar tree 14 ins. diam. brs.  $N.62^{\circ}\frac{3}{4}E.$  113 lks. dist., marked T 26 N R 9 W S 36 B T.  
 A cedar tree 20 ins. diam. brs.  $S.64^{\circ}\frac{1}{2}E.$  167 lks. dist., marked T 25 N R 9 W S 1 B T.  
 A cedar tree 9 ins. diam. brs.  $S.82^{\circ}\frac{1}{4}W.$  197 lks. dist., marked T 25 N R 9 W S 2 B T.  
 A cedar tree 9 ins. diam. brs.  $N.43^{\circ}\frac{1}{4}W.$  87 lks. dist., marked T 26 N R 9 W S 35 B T.
- Land, rolling. Soil, 3rd rate, gravelly.  
 Cedar, pinon, good grass.
- 
- West, bet. secs. 2 & 35.  
 Over rolling land, through scattering cedar & pinon.
- 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,  
     S  $35^{\circ}\frac{1}{4}$  in N., and  
     S 2 in S. half; from which,  
 A cedar tree 7 ins. diam. brs.  $N.1^{\circ}W.$  142 lks. dist., marked  $\frac{1}{4}$  S 35 B T.  
 A cedar tree 12 ins. diam. brs.  $S.56^{\circ}W.$  197 lks. dist., marked  $\frac{1}{4}$  S 2 B T.
- 74.92 Intersect SE. bdy. line of Hualpai Indian Reservation, whence the 70 mile cor. on said line brs.  $S.50^{\circ}W.$  7.59 chs. dist., which is a limestone 10x8x6 ins. above ground, marked and witnessed as described by the Surveyor General.
- Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for closing cor. of Tps. 25 & 26 N., R. 9 W., marked on brass cap, C C W. of centre,  
     H I R in NW., and  
     R 9 W in SE. halves,  
     T 26 N S 35 in NE., and  
     T 25 N S 2 in SE. sectors; whence,  
 A pinon tree 10 ins. diam. brs.  $N.53^{\circ}\frac{1}{4}E.$  110 lks. dist., marked T 26 N R 9 W S 35 C C B T.  
 A cedar tree 14 ins. diam. brs.  $S.15^{\circ}\frac{1}{4}E.$  51 lks. dist., marked T 25 N R 9 W S 2 C C B T.
- Land, rolling. Soil, 3rd rate, gravelly. Cedar, pinon.

General Description.

This line runs over grassy rolling land, covered with cedar and pinon to N. & S. of line. There is no water on or near the line. The soil is a calcareous gravel, with some clay in places underlying.

Fractional T. 25 N., R. 9 W.  
Latitudes, departures and closing errors.

Line designated.	True bearing.	Dist.	Latitudes.		Departures.	
			N.	S.	E.	W.
		Chs.	Chs.	Chs.	Chs.	Chs.
6th Std. Par. N.	West, ---	480.00	-----	-----	-----	480.00
West Boundary	North, ---	208.72	208.72	-----	-----	-----
S.E. Bdy. Hualpai In. Res.	N. 50° E.	422.44	271.54	-----	323.60	-----
North Boundary	East, ---	154.92	-----	-----	154.92	-----
East Boundary	South, --	480.00	-----	480.00	-----	-----
Convergency,	-----	-----	-----	-----	-0.49	-----
		Totals, -----	480.26	480.00	479.01	480.00
			480.00	-----	-----	479.01
		Error in Lat., -----	-0.26	Error in Dep., -----	-0.99	

April 8, 1912.

*William H. Elliot*

U. S. Surveyor.

### CERTIFICATE OF ASSISTANTS.

We, the undersigned, hereby certify upon honor that we assisted, to the best of our skill and ability,

William H. Elliott, U. S. Surveyor, during the periods and in the capacities

*under Group 16*

stated opposite our several signatures, in surveying all those parts or portions of *the*

*Fractional East Boundary Tp. 25 N.-R. 10 W.*

*" North " " Tp. 25 N.-R. 9 W.*

*Arizona.*

of the Gila & Salt River Base & Meridian, in the State of Arizona.

which are represented in the foregoing field notes as having been executed 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 executed.

NAME.	PERIOD OF SERVICE.		CAPACITY.
	BEGUN.	ENDED.	
<i>Bert Lyon</i>	Mch. 6, 1912	June 17, 1912.	Chainman.
<i>Eric Hanagan</i>	Mch. 6, 1912	June 17, 1912.	Chainman.
<i>Harry Elgershall</i>	Mch. 6, 1912	May 15, 1912.	Flagman.
<i>Wesley Lyddell</i>	Mch. 6, 1912	June 9, 1912.	Axeman.
<i>Alfred Grubb</i>	Mch. 6, 1912	Apr. 3, 1912.	Moundman.
<i>W. M. Neal</i>	Apr. 4, 1912.	Apr. 17, 1912.	Moundman.

Subscribed and certified to before me on the dates of the final service as shown above.

*William H. Elliott*

U. S. Surveyor.

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BOOK 2418

FINAL OATH OF UNITED STATES SURVEYOR.

I, William H. Elliott, U. S. Surveyor, do solemnly swear that, in pursuance of special instructions received from the U. S. Surveyor General for Arizona Group 16 bearing date of the 5th day of February, 1912, 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 the Fractional East Boundary Tp. 25 N. - R. 10 W. " North " Tp. 25 N. - R. 9 W.

of the Gila & Salt River Base Meridian, in the State of Arizona, 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 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
U. S. Surveyor.

Subscribed by said William H. Elliott, and sworn to before me this 15th day of October, 1912

Frank Longalls
SURVEYOR GENERAL OF ARIZONA



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Arizona, April 21, 1913

The foregoing field notes of the survey of the Fractional East Boundary, Tp. 25 N. - R. 10 W. " North " Tp. 25 N. - R. 9 W. Gila & Salt River Base & Meridian, Arizona.

executed by William H. Elliott, U.S. Surveyor for Group 16 under his special instructions, dated February 5, 1912, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Frank Longalls
U. S. 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.