

BOOK "L"

2638

BOOK 2638

# FIELD NOTES

OF THE SURVEY OF THE

*EAST BOUNDARY,*

*retracement of the NORTH BOUNDARY,*

*and part of the WEST BOUNDARY (2ND GUIDE*

*MERIDIAN WEST) and retracement and resurvey*

*of the SOUTH BOUNDARY (NORTH BOUNDARY OF*

*LUIS MARIA BACA FLOAT No 5) of*

*FRAC'L TOWNSHIP No 19 NORTH, RANGE No 8 WEST*

Of the *Gila and Salt River Base and Meridian,*

In the State of

*ARIZONA*

EXECUTED BY

*SIDNEY E. BLOUT*

In the capacity of U. S. Surveyor, under instructions dated *May 29*, 1912,

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

Group No. *20*, which were approved by the Commissioner of the General Land

Office, *June 20*, 1912, pursuant to authority contained in the Act of

Congress dated *August 23 - 1912 and June 23*, 1913.

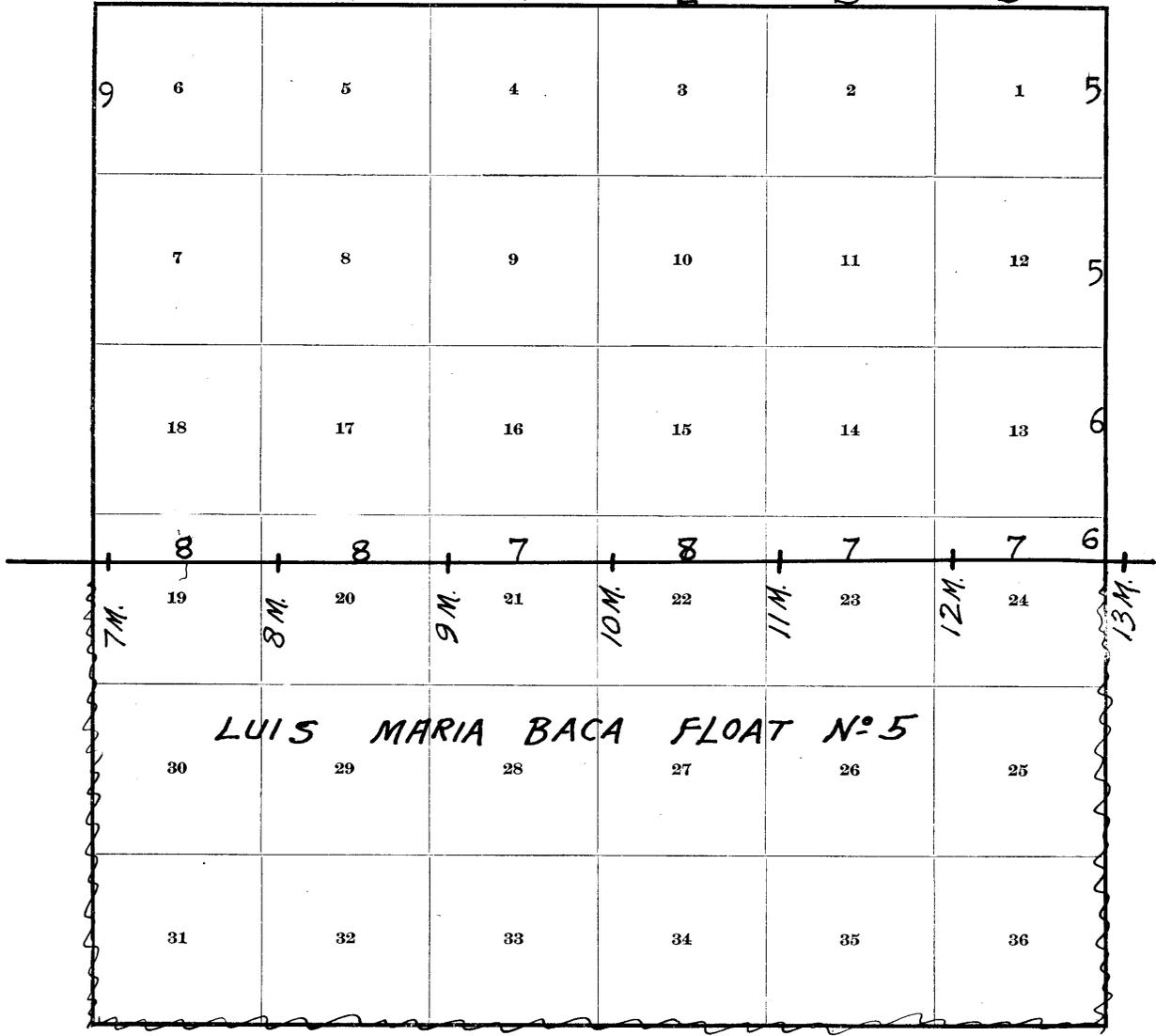
*Survey Retracement & Resurvey commenced June 28*, 1913

*Survey Retracement & Resurvey completed July 6*, 1913

BOOK 2638

# INDEX DIAGRAM.

Frac. 2 Township 19 North, 2 2 2 2 3 3 Range 8 West.



FRACTIONAL  
Retracement of N. bdry. of T 19 N., R 8 W.

Chains. ~~Retracement~~ commenced June 28, 1913. and executed with a Young and Sons light mountain transit No. 10, with a Smith Solar attachment. The horizontal limb is provided with two double verniers, placed opposite to each other, reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs.

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

At my camp near W.D. Webb's house in sec. 4, T. 19 N., R. 8 W., latitude  $35^{\circ}04'N.$ , longitude  $113^{\circ}07'29''W.$

At  $9^h 49^m$  p.m., l.m.t., by my watch, which is correct local mean time. I observe Polaris in accordance with instructions in the Manual, and mark the line thus determined by a tack driven in a stake set firmly in the ground 5.00 chs., N. of my instrument.

Time of observation June 28, 1913.	$9^h 49^m$ p.m.
Time U.C. Polaris June 29, Meridian of Greenwich civil date and mean time.	$7^h 00.8^m$ a.m.
Correction to be applied, to obtain local mean time U.C. Polaris, for local meridian, taken from table of sidereal conversions $1^m 14^{sec}$ . subtract from	$7^h 00.8^m$

	$1.2$
U.C. Polaris June 29. local meridian	$6^h 59.6$
Mean time hour angle Polaris E. of meridian is mean time interval from local mean time of observation Polaris to local mean time U.C. Polaris.; therefore the Hour angle Polaris at observation = $6^h 59.6^m$ plus $2^h 11^m$ which is	$9^h 10.6^m$
Azimuth of Polaris at observation	$0^{\circ}55.7'E.$

June 28, 1913.

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June 29<sup>1913</sup> At  $6^h 30^m$  a.m., l.m.t. I lay off the azimuth of Polaris  $0^{\circ}55.7'$  to the west and mark the meridian thus determined, by a tack driven in a stake set in the ground 5.00 chs. N. of my instrument.

At  $7^h 03^m$  a.m., l.m.t. I set off  $35^{\circ}04'N.$  on the lat. arc,  $23^{\circ}16'N.$  on the decl. arc and determine a meridian with the solar and mark a point thereof by a tack driven in the stake already set 5.00 chs. N. of my instrument, on which the meridian determined by the solar falls 0.2 ins. east of the meridian established by the Polaris observation.

At  $4^h 03^m$  p.m., l.m.t., I set off  $35^{\circ}04'N.$  on the lat. arc,  $23^{\circ}15'N.$  on the decl. arc, and determine a meridian with the solar and mark a point thereof by a tack driven in the stake already set 5.00 chs. N. of my instrument. This point falls 0.3 ins. west of the meridian established by the Polaris observation.

The solar apparatus by a.m., and p.m. observations, defines positions for meridians about  $0'11''$  east and  $0'16''$  west of the meridian established by the Polaris observation. therefore I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the meridian at  $8^h 00^m$  a.m., l.m.t. is  $N. 15^{\circ}04' W.$  the angle thus determined gives the mag. decl.  $15^{\circ}04'$  east. All measurements were made with a 5.00 ch. steel tape with clinometer for determining slope angles.

June 29, 1913.

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I begin at the <sup>old</sup> cor. of Tps. 19 and 20 N., Rs. 8 and 9 W., which is a malpais stone  $14 \times 10 \times 6$  ins. above ground, marked

## FRACTIONAL

## Retracement of N. bdry. of T 19 N., R 8 W.

- Chains. and witnessed as described by the surveyor general.  
 June 30<sup>th</sup> At 6<sup>h</sup> 33<sup>m</sup> a.m., l.m.t. I set off 35°04' N. on the lat. arc, 23°13' N. on the decl. arc, and determine a meridian with the solar at the above described cor. Thence I run,  
 S. 89°55' E., on a random line, bet. secs. 6 and 31.
- 38.80 Fall 24 lks. S. of the  $\frac{1}{4}$  sec. cor., which is a black malapais stone 12x10x5 ins. above ground, firmly set, marked and witnessed as described by the surveyor general.  
*Note: From this cor. Plummer's house bears S. 5° 20' W. 54.50 chs. True course & dist. of  $\frac{1}{2}$  mile of line bet. secs. 6 and 31 is therefore N. 89° 44' E., 38.80 chs.*  
 I begin at the  $\frac{1}{4}$  sec. cor. and run S. 89° 55' E. on random line
- 40.00 Fall 14 lks. S. of the  $\frac{1}{4}$  cor. of secs. 5, 6, 31, and 32., which is a black malapais stone 14x10x5 ins. above ground, firmly set, marked and witnessed as described by the surveyor general.  
*True course & dist. of  $\frac{1}{2}$  mile of line bet. secs. 6 & 31, is therefore N. 89° 53' E., 40.00 chs.*  
 Length of mile, 78.80 chs.
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- S. 89°55' E., on a random line, bet. secs. 5 and 32.
- 40.00 Fall 12 lks. S. of the  $\frac{1}{4}$  sec. cor., which is a malapais stone 12x9x6 ins. above ground, firmly set, marked and witnessed as described by the surveyor general.  
*True course & dist. of  $\frac{1}{2}$  mile of line bet. secs. 5 & 32 is therefore N. 89° 55' E., 40.00 chs.*
- I begin at the  $\frac{1}{4}$  sec. cor. and run S. 89° 55' E. on random line,
- 40.08 Fall 8 lks. S. of the  $\frac{1}{4}$  cor. of secs. 4, 5, 32, and 33., which is a malapais stone 11x8x4 ins. above ground, firmly set, marked and witnessed as described by the surveyor general.  
*True course & dist. of  $\frac{1}{2}$  mile of line bet. secs. 5 & 32 is therefore N. 89° 58' E., 40.08 chs.*  
 Length of mile, 80.08 chs.
- 
- S. 89°55' E., on a random line bet. secs. 4 and 33.
- 40.14 Fall 1 lk. S. of the  $\frac{1}{4}$  sec. cor., which is a malapais stone 10x8x5 ins. above ground, firmly set, marked and witnessed as described by the surveyor general.  
*True course & dist. of  $\frac{1}{2}$  mile of line bet. secs. 4 & 33 is therefore S. 89° 56' E., 40.14 chs.*
- I begin at the  $\frac{1}{4}$  sec. cor. and run S. 89° 55' E. on random line,
- 40.10 Fall 5 lks. N. of the  $\frac{1}{4}$  cor. of secs. 3, 4, 33, and 34., which is a malapais stone 12x8x5 ins. above ground, firmly set, marked and witnessed as described by the surveyor general.  
*True course & dist. of  $\frac{1}{2}$  mile of line bet. secs. 4 & 33 is therefore S. 89° 51' E., 40.10 chs.*  
 Length of mile, 80.24 chs.
- 
- S. 89°55' E., on a random line, bet. secs. 3 and 34.
- 40.09 Fall 10 lks. S. of the  $\frac{1}{4}$  sec. cor., which is a malapais stone 10x7x4 ins. above ground, firmly set, marked and witnessed as described by the surveyor general.  
*True course & dist. of  $\frac{1}{2}$  mile of line bet. secs. 3 & 34 is therefore N. 89° 56' E., 40.09 chs.*
- I begin at the  $\frac{1}{4}$  sec. cor. and run S. 89° 55' E. on random line,  
 Note: At this cor. I set off 23°12' N. on the decl. arc and at noon observe the sun on the meridian, and obtain a reading of 35°04' N. on the lat. arc.
- 40.06 Fall 12 lks. S. of the  $\frac{1}{4}$  cor. of secs. 2, 3, 34, and 35., which is a malapais stone in place, 4x4x3 ft. above ground, marked and witnessed as described by the surveyor general.  
*True course & dist. of  $\frac{1}{2}$  mile of line bet. secs. 3 & 34 is therefore W. 89° 55' E., 40.06 chs.*  
 Length of mile, 80.15 chs.
- 
- S. 89°55' E., on a random line, bet. secs. 2 and 35.
- 40.11 Fall 4 lks. S. of the  $\frac{1}{4}$  sec. cor., which is a malapais stone 8x7x6 ins. above ground, firmly set, marked and witnessed as described by the surveyor general.

FRACTIONAL  
Retracement of N. bdy. of T 19 N., R 8 W.

Chains True course & dist. of  $W\frac{1}{2}$  mile of line bet. secs. 2 & 35 is therefore  $S. 89^{\circ} 58' E., 40.11$  chs.  
Length of mile, 80.22 chs.

I begin at the  $\frac{1}{4}$  sec. cor. and run  $S. 89^{\circ} 55' E.$ , on random line,  
39.97 Fall 2 lks. S. of the  $\frac{1}{4}$  sec. cor. of secs. 1, 2, 35, and 36., which is  
a malpais stone  $8 \times 8 \times 6$  ins. above ground, firmly set,  
marked and witnessed as described by the surveyor  
general.

True course & dist. of  $E\frac{1}{2}$  mile of line bet. secs. 2 & 35 is therefore  $S. 89^{\circ} 57' E., 39.97$  chs.  
Length of mile, 80.08 chs.

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S.  $89^{\circ} 55' E.$ , on a random line, bet. secs. 1 and 36.  
39.94 Fall 4 lks. N. of the  $\frac{1}{4}$  sec. cor., which is a malpais stone  
 $12 \times 7 \times 5$  ins. above ground, firmly set, marked and witnessed  
as described by the surveyor general.

True course & dist. of  $W\frac{1}{2}$  mile of line bet. secs. 1 & 36 is therefore  $S. 89^{\circ} 52' E., 39.94$  chs.  
Length of mile, 79.88 chs.

I begin at the  $\frac{1}{4}$  sec. cor. and run  $S. 89^{\circ} 55' E.$  on random line,  
40.01 Fall 40 lks. N. of the  $\frac{1}{4}$  sec. cor. of Tps. 19 and 20 N., Rs. 7 and 8 W.,  
which is a malpais stone  $14 \times 14 \times 9$  ins. above ground,  
firmly set, marked and witnessed as described by the  
surveyor general.

True course & dist. of  $E\frac{1}{2}$  mile of line bet. secs. 1 & 36 is therefore  $S. 89^{\circ} 21' E., 40.01$  chs.  
Length of mile, 79.95 chs.

June 30, 1913.

FRACTIONAL  
East Boundary of T 19 N. R 8 W.

Chains. Survey commenced June 30, 1913. and executed with a Young & Sons light mountain transit No. 10 with a Smith Solar attachment, The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs. I examine the adjustments of the transit and find them correct, and from recent tests of the solar apparatus, by comparing the results of solar observations, made during a.m. and p.m. hours, with a meridian determined by observations on Polaris, I know that the instrument is in satisfactory adjustment.

All measurements were made with a 5.00 ch. steel tape, a clinometer being used to determine slope angles in rough hilly country.

I begin at the cor. of Tps. 19 and 20 N., Rs. 7 and 8 W., which is a malapais stone 14x14x9 ins. above ground, firmly set, marked and witnessed as described by the surveyor general. Latitude 35°04'23"N., longitude 113°03'16"W.

The magnetic bearing of the true meridian at this cor. at 3<sup>h</sup> 30<sup>m</sup> p.m. l.m.t. is N. 15°06'W.; the angle thus determined gives the mag. decl 15°06' east.

At 4<sup>h</sup> 03<sup>m</sup> p.m. l.m.t. I set off 35°04½ N. on the lat. arc, 23°11½ N. on the decl. arc, and determine a meridian with the solar.

Thence I run, on true line,

South, bet. secs. 1 and 6,

Descend SW. slope, over rolling stony land.

- 1.50 Dry ravine, 5 lks. wide, course S. 40°E., asc.
- 16.00 Top of ridge, bears NW. and SE., desc.
- 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap 19½ S 1 in W. half and S 6 in E. half.  
Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.
- 49.00 Dry ravine, 10 lks. wide, course S. 50°E., asc.
- 69.00 Top of malapais ridge, bears NW. and SE., desc. steep SW. slope, covered with loose rock.
- 80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for cor. of secs. 1, 6, 7, and 12., marked on brass cap 19½ T 19 N. in N. half, R 8 W., S 1 in NW., R 7 W., S 6 in NE., S 7 in SE. and S 12 in SW. quadrant.  
Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.

N. 69 chs. hilly prairie, E. and SE. slope; soil dark adobe loam, covered with loose malapais stone, subsoil clay. S. 11 chs. rolling, SW. slope; light poor adobe clay loam, covered with loose boulders; subsoil clay and rock; good growth bunch grass. No timber.

June 30, 1913.

July 1, 1913: At 7<sup>h</sup> 03<sup>m</sup> a.m., l.m.t. I set off 35°03½ N. on the lat. arc, 23°09½ N. on the decl. arc, and determine a meridian with the solar at the cor. of secs. 1, 6, 7, and 12, above described,

Thence I run, on true line

South, bet. secs. 7 and 12,

Descend SW. slope, of malapais ridge, over broken, stony land.

- 6.10 Old road from Anvil Rock to Seligman, Arizona, bears N. 70°E. and S. 70°W.
- 27.20 Old road, leads to Seligman, Arizona, bears N. 50°E. and S. 50°W.
- 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap 19½ S 12 in W. half, and S 7 in E. half.  
Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.
- 47.70 Foot of descent, in small canyon, cross dry ravine, 30 lks. wide, course S. 70°W., ascend NW. slope.
- 76.00 Enter scattering cedar timber, bears E. and W.

FRACTIONAL  
East boundary of T 19 N., R 8 W.

Chains

- 80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for cor. of secs. 7, 12, 13, and 18, marked on brass cap<sup>1913</sup> T 19 N. in N. half, R 8 W., S 12 in NW., R 7 W., S 7 in NE., S 18 in SE. and S 13 in SW. quadrant. from which
- A juniper, 15 ins. in diam., bears N.  $15\frac{1}{2}^{\circ}$ E., 133 lks. dist., marked, T 19 N., R 7 W., S 7 BT.
- A juniper, 18 ins. in diam., bears S.  $60^{\circ}$ E., 195 lks. dist., marked, T 19 N., R 7 W., S 18 BT. No other trees within limits.
- Raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.
- Pits impracticable.
- N. 47 chs., hilly and broken, SE. slope; soil poor adobe clay loam, very stony, on clay subsoil; S. 33 chs. rolling prairie N. slope; soil light sandy loam 4 to 8 ins. deep, dry on clay and decomposed sandstone subsoil. Timber juniper and cedar. good growth bunch grass.

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South, bet. secs. 13 and 18, on true line,  
Ascend NE. slope, over rolling stony land, through scattering juniper timber.

- 38.00 Leave timber, bears E. and W.
- 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<sup>1913</sup> S 13 in W. half and S 18 in E. half. from which
- A juniper, 10 ins. in diam., bears N.  $70\frac{1}{2}^{\circ}$ E., 236 lks. dist., marked  $\frac{1}{4}$  S. 18 BT. No other trees available.
- Raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.
- Pits impracticable.
- 50.00 Top of gradual ascent, enter nearly level land, bears NE. and SW.
- 80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for cor. of secs. 13, 18, 19, and 24., marked on brass cap<sup>1913</sup> T 19 N. in N. half. R 8 W. S 13 in NW., R 7 W. S 18 in NE., S 19 in SE. and S 24 in SW. quadrant.
- Raise a mound of stone, 8 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.
- Pits impracticable.
- N. 50 chs. rolling prairie land, NE. slope; soil poor dry sandy and stony loam 4 to 10 ins. deep on clay and decomposed sandstone subsoil, good growth bunch grass.
- S. 30 chs. nearly level, sandy prairie, drains to the N.; soil sandy loam soft and dry, 8 to 14 ins. deep on clay and stony subsoil. good growth bunch grass. No timber.

July 1, 1913.

July 3, 1913

South, bet. <sup>FRAC.</sup>secs. 19 and 24, on true line,  
Over nearly level sandy prairie land.

- 12.10 Intersect N. bdry. of the Luis Maria Baca Grant No. 5 338 lks.  $339^{\circ}53'$  of the  $\frac{1}{4}$  mile cor., which is a malpais stone 24x14x12 ins., firmly set in a mound of stone, 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 corner of <sup>FRAC.</sup>Tps. 19 N., Rs. 7 and 8 W., marked on brass cap CC<sup>1913</sup> N. of center. T 19 N. in N. half and L.M.B. No. 5 in S. half. R 8 W., S 24 in NW., and R 7 W., S 19 in NE. quadrant.
- Raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.
- Pits impracticable.
- Land nearly level prairie N. slope; soil light sandy loam very dry on clay subsoil; good growth bunch grass. No timber.

July 3, 1913.

Retracement and Resurvey of South bdy. of Frac. Tp. 19 N., R. 8 W.,  
Resurvey (North bdy., Luis Maria Baca Grant No. 5)

Chains. Retracement and Resurvey commenced July 3, 1913., and executed with a Young and Sons light mountain transit No. 10 with a Smith. Solar attachment. The horizontal limb being provided with two double verniers, placed opposite to each other reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs.

I examine the adjustments of the transit and find them correct, and from recent tests of the solar apparatus, by comparing its indications, resulting from solar observations, made during a.m., and p.m. hours, with a meridian established by observations on Polaris, I know that the instrument is in satisfactory adjustment.

All measurements were made with a 5.00 ch. steel tape, with clinometer for determining the slope angles.

I begin at the 13 mile cor. on N. bdy. of <sup>LUIS MARIA BACA FLOAT NO. 5 PRIVATE LAND GRANT which is</sup> a malapais stone 24x14x12 ins., firmly set in a mound of stone, marked and witnessed as described by the surveyor general. latitude 35°01'40"N., longitude 113°03'14"W.

The magnetic bearing of the meridian at 4<sup>h</sup> 19<sup>m</sup> p.m., l.m.t. is N. 15°03' W.; the angle thus determined gives the mag. decl. 15°03'E.

At 4<sup>h</sup> 19<sup>m</sup> p.m., l.m.t., I set off 35°01<sup>1</sup>/<sub>2</sub>' N. on the lat. arc, 22°58<sup>1</sup>/<sub>2</sub>' N. on the decl. arc, and determine a meridian with the solar at the above cor. Thence I run, West, on random line, on 13th mile of N. bdy. of Luis Maria Baca Float No. 5 which is also S. bdy. of Frac. T. 19 N. R. 8 W.

3.38 Closing cor. of Frac. Tps. 19 N., R. 7 & 8 W. here before described, bears 1 lk. S.

80.08 Fall 16 lks. N. of the 12 mile cor., which is a malapais stone, 16x14x10 ins., above ground, firmly set, marked and witnessed as described by the surveyor general.

~~True course and dist. of 13th mile of Grant boundary is therefore, N. 82°53'E., 80.08 chs.~~

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West, on a random line, on 12th mile of Grant bdy.

79.80 Fall 52 lks. N. of the 11 mile cor., which is an oak post, .4 ft. long, flattened, 3 ins. wide, marks almost obliterated, post greatly decayed. This cor. being in a state of dilapidation, I destroy all evidence of the original cor. and re-establish it in the same place as follows; Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground for 11 mile cor., marked on brass cap, <sup>1913</sup> PL. in N. and LMB. No. 5 11 M. in S. half, raise a mound of stone, 3 ft. base, 3 ft. high, W. of cor. Pits impracticable.

~~True course and dist. of 12th mile of Grant bdy. is therefore N. 89°38'E., 79.80 chs.~~

July 3, 1913.

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July 7<sup>1913</sup> At 10<sup>h</sup> 34<sup>m</sup> a.m., l.m.t. I set off 35°01<sup>1</sup>/<sub>2</sub>' N. on the lat. arc, 22°37' N. on the decl. arc, and determine a meridian with the solar at the <sup>REESTAB.</sup> 11 mile cor., above described.

Thence I run, West, on a random line, on 11th mile of Grant bdy.

80.00 I make a diligent search for the 10 mile cor., but am unable to find any evidence of it; therefore, I continue my random line & measurement West, on 10th mile of Grant bdy.

160.11 178 lks. S. of the 9 mile cor., which is a sand stone 24x14x12 ins., marked and witnessed as described by the surveyor general.

~~True course & dist. of 10th & 11th miles of Grant bdy. is S. 89°22'E., 160.12 chs.~~

Thence I run; S. 89°22'E., on a true line, on 10th mile of Grant bdy.

Ascend NW. slope of ridge, over broken, stony, land.

2:00 Top of ridge, bears NE. and SW., desc.

14.30 Dry ravine, 20 lks. wide, course north, asc.

27.50 Top of ridge, bears N. and S., desc.

31.80 West rim of canyon, on perpendicular cliff, 60 ft. high, bears N. and S., desc.

38.20 Foot of descent, in canyon, cross dry ravine, course N., asc.

40.05 Wood road, bears N. and S.

41.50 Ascend sandstone cliffs, 50 ft. high.

43.30 Top of cliffs, E. side of canyon, bears N. and S., continue

Retracement and Resurvey of South bdry. of Frac. Tp. 19 N., R. 8 W.,  
Resurvey of (North bdry, Luis. Maria Baca Grant No. 5.)

- Chains, gradual ascent, over broken sand stone ledges.
- 62.00 Top of ascent, on ridge, bears N. and S., descend gradually.
- 70.80 West rim of Muddy Creek Canyon, on cliffs, 70 ft. high, desc.
- 76.00 Foot of descent, in canyon, enter level bottom land, and oak and walnut timber, bears N. and S.
- 77.00 Dry bed of Muddy Creek, 50 lks. wide, course north, ascend gently.
- 80.06 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for <sup>REESTAB</sup> 10 mile cor., marked on brass cap <sup>19/3</sup> PL in N. half and LMB. No. 5 10 M. in S. half., from which  
An oak, 8 ins. in diam. bears S.  $36\frac{1}{2}^{\circ}$  W. 118 lks. dist., marked LMB. No. 5 10 M. BT. No other trees suitable for bearing trees available.
- Raise a mound of stone, 3 ft. base, 3 ft. high, W. of cor.  
Pits. impracticable.
- Land broken and hilly, ridges denuded of soil., the soil of the bottom land along the Muddy Creek rich dark sandy loam, on gravel subsoil. light growth of bunch grass.  
Timber scattering. cedar, oak and walnut.
- 
- S.  $89^{\circ}22'E.$ , on a true line, *on 11th mile of Grant bdy.*  
Ascend gradually, over sandy bottom land, through scattering oak and walnut timber and dense oak brush undergrowth, 6 ft. high,
- 85.50 Leave bottom land, bears N. and S., at foot of perpendicular sandstone cliffs, 70, ft. high, ascend.
- 5.50 Top of cliffs, E. side of Muddy Creek Canyon, bears N. and S., thence over very broken stony land., through scattering cedar timber.
- 23.00 Top of ridge, bears N. and S., desc.
- 27.00 Dry ravine, 10 lks. wide, course NW., asc.
- 43.00 Top of ridge, bears NE. and SW.
- 43.05 Wire fence, bears N.  $85^{\circ}E.$  and S.  $85^{\circ}W.$
- 43.60 Road from Fort Rock to Prescott, Arizona, bears NW. and SE.
- 57.15 Dry ravine, 10 lks. wide, course NW., asc.
- 74.00 Top of ridge, bears N. and S., desc.
- 80.06 Intersect the <sup>REESTAB</sup> 11 mile cor., *hereinbefore described.*  
Land, rolling, broken and hilly, soil of the ridges light sandy loam varying in depth from 1 to 7 ins. on sand stone and clay subsoil, light growth bunch grass. W. 50 lks rolling sandy bottom; soil dark sandy loam, rich, moist on gravelly subsoil. Timber cedar, walnut, and oak.

Note: Clouds obscure the sun at noon today, rendering an observation for latitude impossible.

- 
- From the old 9 mile cor., hereinbefore described, I run,*  
West, on a random line, on N. bdy. 9 th. mile of Grant bdy.
- 79.70 Fall 30 lks. N. of the 8 mile cor., which is a cedar post, 4 ft. long, 3 ins. wide, flattened, marked and witnessed as described by the surveyor general.  
*True course & dist. of 9th mile of Grant bdy. is therefore N.  $89^{\circ}47'E.$ , 79.70 chs.*

- 
- West, on a random line, on N. bdy. 8 th. mile of Grant bdy.
- 79.75 Fall 116 lks. N. of the 7 mile cor., which is a malpais stone, 12x10x6 ins. above ground, firmly set, marked and witnessed as described by the surveyor general.  
*True course & dist. of 8th mile of Grant bdy. is therefore N.  $89^{\circ}30'E.$ , 79.76 chs.*

July 7, 1913.

PART OF FRACTIONAL  
Retracement of W. bdry of T 19 N., R 8 W. (2nd Guide Meridian West)

The line bet. secs. 6 and 7, closing out of limits in measurement as compared with the line bet. secs. 6 and 31, on N. bdry. of the Tp. I retrace the 2nd Guide Meridian West bet. secs. 1 and 6, on W. bdry. of this Tp. in order to verify my closing.

July 6, 1913. At 9<sup>h</sup> 04<sup>m</sup> a.m., l.m.t. I set off 35° 04<sup>1</sup>/<sub>2</sub>' N. on the lat. arc, 22° 43<sup>1</sup>/<sub>2</sub>' N. on the decl. arc, and determine a meridian with the solar at the cor. of Tps. 19 and 20 N., Rs. 8 and 9 W., hereinbefore described.

Thence I run,

40.00 South, on a random line, bet. secs. 1 and 6,  
Fall 48 lks. E. of the <sup>1</sup>/<sub>4</sub> sec. cor., which is a malapais stone 12x7x6 ins. above ground, firmly set, marked and witnessed as described by the surveyor general.

*True course & dist. of N 1/2 mile of line bet. secs. 6 & 1 is therefore N. 0° 41' E., 40.00 chs.*

80.04 I begin at the <sup>1</sup>/<sub>4</sub> sec. cor. and continue measurement on random line, South,  
Fall 48 lks. E. of the <sup>1</sup>/<sub>4</sub> sec. cor. of secs. 1, 6, 7, and 12., which is a malapais stone 10x8x5 ins. above ground, firmly set, marked and witnessed as described by the surveyor general,

*True course & dist. of line bet. secs. 1 & 6 is therefore N. 0° 41' E., 80.04 chs.*

July 6, 1913.

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General Description.

This township is hilly in the eastern and western parts, rolling in the interior and broken along the south boundary. The greater portion of the township is a rolling prairie country.

The township is poorly watered and poorly timbered

*Sidney E. Blount*  
U. S. Surveyor.

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BOOK 2000

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For FINAL OATH OF UNITED STATES SURVEYOR.  
see Book " 0 " Group 20

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, July 27 \_\_\_\_\_, 1914

The foregoing field notes of the survey of the East boundary, Retracement of the North boundary, Retracement of part of the West boundary ( 2nd Guide Meridian West ), and Retracement and Resurvey of the South boundary (North bdy. of Luis Maria Baca Float No.5 ) of Fractional Township No.19 North, Range No.8 West of the Gila and Salt River Base and Meridian, Arizona

executed by Sidney E. Blout U.S. Surveyor under his special instructions dated May 29 1912, 191\_\_\_\_, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the retracements and resurveys surveys they describe, are hereby approved.

*Frank S. Ogall*  
U. S. 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.~~