

Book 6

Accepted June 28/07
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4-679.

Book E.

2151

BOOK 2151

FIELD NOTES

2151

OF THE SURVEY OF THE

Subdivisions of
T. 21 S. R. 10 E.

2151

2151

Of the G. and S. R. Base and Meridian,

Arizona

AS SURVEYED BY

Philip Contzans, United States Deputy Surveyor,

Under his Contract No. *144*, dated *April 11*, *1907*

Survey commenced *October 29th*, *1907*

Survey completed *November 17th*, *1907*

2151

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BOOK 2151

In NAMES AND DUTIES OF ASSISTANTS.

See Book A sub. of T. & O. R. 112.

BOOK 2151

Book No. 2151

BOOK 2151

INDEX DIAGRAM.

Township 21 S, Range 10 E.

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PRELIMINARY OATHS OF ASSISTANTS.

see Subs. 920 A. R. 11 E. , Book D.

WE, _____ and _____

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 _____

_____, *Chainman.*

_____, *Chainman.*

Subscribed and sworn to before me this _____ }
day of _____, 190 }



WE, _____ 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 _____

_____, *Moundman.*

_____, *Moundman.*

Subscribed and sworn to before me this _____ }
day of _____, 190 }



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 _____, 190 }



I, _____, 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 _____

_____, *Flagman.*

Subscribed and sworn to before me this _____ }
day of _____, 190 }



Chains.

Note: Knowing from my surveys of the East, west and south boundaries of Tp. 21 S., R. 10 E. that the same are out in both alignment and measurement, I proceed to the Fourth Standard Parallel South, through Range 10 East, heretofore described by me, and at a point 80.00 chs. West of the closing corner of Tp. 21 S., Rs. 10 and 11 E., I establish closing corner for sections 1 and 2, Tp. 21 S., R. 10 E., which is

A porphyry stone 21 x 12 x 4 ins. 16 ins. in the ground, for closing cor. of secs. 1 and 2, Tp. 21 S., R. 10 E., marked with 1 groove on E. and 5 grooves on W. faces, CC on S. face; with pits 18 x 18 x 12 ins. E. and W. of stone, 3 ft. dist., and mound of stone, and earth 2 ft. base, 1½ ft. high, S. of cor.

Whence,

Standard cor. to secs. 35 and 36, Tp. 20 S., R. 10 E., heretofore described, by me, brs. East 10.03 chs.

October 29, 1907.

Survey commenced October 29, 1907, and executed with a Young and Sons transit, No. 7934, with Smith's 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. The instrument was examined, tested on the true meridian at Phoenix, found correct, and was approved by the Surveyor General for Arizona.

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 the closing cor. of secs. 1 and 2, Tp. 21 S., R. 10 E., just described; latitude $31^{\circ} 38\frac{1}{2}' N.$; longitude $111^{\circ} 17\frac{1}{2}' W.$; I set off $31^{\circ} 38' N.$ on the lat. arc; $13^{\circ} 18' S.$ on the decl. arc, and at 4h 05m. P.M. l.m.t. determine with the solar a meridian and mark a point thereof, on a stone firmly set in the ground, 5.00 chs. N. of cor.

At 5h 03m. p.m. by my watch, which is correct local mean time, I observe Polaris at eastern elongation, in accordance with Manual of Instructions, and mark a point in the line thus determine, on a peg driven in the ground, 5.00 chs. N. of my station.

October 29, 1907.

October 30: At 6:00 a.m., l.m.t. I lay off the azimuth of Polaris, $1^{\circ} 23.7'$ to the West, and mark the meridian thus determined by cutting a small groove in the stone set October 29, on which the meridian falls $.3'' W$ of the mark determined by the solar.

At 8h 15m. a.m., l.m.t., I set off $31^{\circ} 38' N.$ on the lat. arc; $13^{\circ} 31' S.$ on the decl. arc; and mark a point in the meridian determined with the solar, by a cross on the stone already set 5.00 chs. N. of my station; this mark falls $.4''$ ins. West of the meridian established by the Polaris observation.

The solar apparatus by p.m. and a.m. observations, defines positions for meridians, respectively about $16''$ west and $21''$ east of the meridian established by the Polaris observations; therefore, I conclude that the adjustments of the instrument are satisfactory. The magnetic bearing of the true meridian, at 7 h. 50 m. a.m. is $N. 12^{\circ} 44' W.$; the angle thus determined gives the mag. decl., $12^{\circ} 44' E.$

| Chains. | |
|---------|---|
| | From the closing cor. of secs. 1 and 2, Tp. 21 S., R. 10 E., previously described; I run, <u>On Sectional Guide Meridian</u> , South on a true line bet. secs. 1 and 2. Over mountainous land, through dense undergrowth of mesquite and tesota. Descending. |
| 36.30 | Dry wash, 10 lks. wide, course NE. |
| 40.00 | Set a silicate stone 20 x 8 x 6 ins., 15 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; dig pits 18 x 18 x 12 ins. N. and S. of stone, 3 ft. dist., and raise a mound of earth and stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.; from which, A mesquite 6 ins. diam. brs. N. 40° W., 93 lks. dist., marked $\frac{1}{4}$ S 2 BT. A mesquite 6 ins. diam. brs. N. 84 $\frac{1}{2}$ ° E., 73 lks. dist., marked $\frac{1}{4}$ S 1 BT. |
| 42.89 | Dry wash, 10 lks. wide, course NE. |
| 46.67 | Dry wash, 10 lks. wide, course NE. Ascend. |
| 57.25 | Top of ridge, brs. E and W. |
| 80.00 | Set a silicate stone 20 x 12 x 10 ins., 15 ins. in the ground, for cor. of secs. 1, 2, 11 and 12, marked with 1 notch on E. and 5 notches on S. edges, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Land, mountainous, and rolling. Soil, gravelly and rocky; 3rd and 4th rate. Timber, mesquite; undergrowth, mesquite and tesota. Land, mountainous, covered with dense undergrowth, and exceptionally difficult to survey, 80.00 chs. |
| | ----- |
| | South on a true line bet. secs. 11 and 12. Over mountainous land. Ascending. |
| 1.21 | Top of rocky ridge. Descend. |
| 16.14 | Dry wash, 30 lks. wide, course W. and ascend. |
| 29.47 | Top of ridge. Descend. |
| 40.00 | Set a porphyry stone 18 x 12 x 8 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. |
| 45.30 | Dry wash, 15 lks. wide, course SW. |
| 52.94 | Dry wash, 10 lks. wide, course SW. |
| 69.38 | Dry wash, 10 lks. wide, course Westerly. |
| 80.00 | Set a silicate rock 18 x 10 x 6 ins., 12 ins. in the ground, for cor. of secs. 11, 12, 13 and 14, marked with 1 notch on E. and 4 notches on S. edges, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Land, mountainous. Soil, gravelly and rocky; 3rd and 4th rate. No timber. Land, mountainous and exceptionally difficult to survey, 80.00 chs. |
| | ----- |
| | At the cor. of secs. 11, 12, 13 and 14, just described, I set off 13° 35' S. on the decl. arc; and, at 11h 44m. l.m.t. observe the Sun on the meridian; the resulting latitude is 31° 36' N., which is about correct. Thence I run, South on a true line bet. secs. 13 and 14. Over rolling and mountainous land, through dense undergrowth. |
| 9.80 | Dry wash, 20 lks. wide, course SW. |
| 33.20 | Dry wash, 25 lks. wide, course SW. |
| 37.70 | Dry wash, 10 lks. wide, course NW. |
| 40.00 | Set a porphyry stone 18 x 12 x 8 ins., 12 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. |
| 79.00 | As cor. point falls in dry wash, at this point, I set a porphyry stone 18 x 12 x 8 ins., 12 ins. in the ground, for witness cor. to cor. of secs. 13, 14, 23 and 24, marked WC on N., with 1 notch on E. and 3 notches |

Subdivision of Township 21 South, Range 10 East.

| | |
|---------|---|
| Chains. | <p>on S. edges, and raise a mound of stone 2 ft. base, 1-1/2 ft. high, W. of cor. Pits impracticable, from which,</p> |
| 80.00 | <p>A mesquite, 6 ins. diam., brs. S. 28° E., 205 lks. dist., marked T 21 S R 10 E S 24 W C B T. No other trees within limits.</p> |
| 80.00 | <p>Cor. point in dry wash, 30 lks. wide, course W. Land, rolling and mountainous. Soil, gravelly and rocky; 3rd and 4th rate. Timber, a few mesquite; undergrowth, mesquite and tesota. Land, mountainous, covered with dense undergrowth, and exceptionally difficult to survey, 80.00 chs.</p> |
| | |
| | <p>From true point for cor. of secs. 13, 14, 23 and 24. South, on a true line, bet. secs. 23 and 24.</p> |
| 22.90 | <p>Over mountainous land.</p> |
| 39.92 | <p>Dry wash, 10 lks. wide, course SW.</p> |
| 40.00 | <p>Dry wash, 25 lks. wide, course SW.</p> |
| 40.00 | <p>Set a porphyry stone, 13x12x8 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone, 2 ft. base, 1-1/2 ft. high, W. of cor. Pits impracticable; from which, A mesquite, 8 ins. diam., brs. N. 69-1/2° W., 116 lks. dist., marked 1/4 S 23 E T. No other trees within limits.</p> |
| 50.60 | <p>Dry wash, 10 lks. wide, course W.</p> |
| 57.00 | <p>Dry wash, 10 lks. wide, course W.</p> |
| 69.00 | <p>Dry wash, 25 lks. wide, course SW.</p> |
| 74.00 | <p>Dry wash, 10 lks. wide, course W.</p> |
| 80.00 | <p>Set a porphyry stone, 18x12x10 ins., 12 ins. in the ground, for cor. of secs. 23, 24, 25 and 26, marked with 1 notch on E. and 2 notches on S. edges; and raise a mound of stone, 2 ft. base, 1-1/2 ft. high, W. of cor. Pits impracticable; from which, Baboquivari Peak, brs. N. 54-1/2° W. Land, mountainous. Soil, gravelly and rocky; 3rd and 4th rate. No timber; good grass. Land, mountainous and exceptionally difficult to survey, 80.00 chs.</p> |
| | |
| | <p>South, on a true line, bet. secs. 25 and 26.</p> |
| 8.35 | <p>Over mountainous land, through dense undergrowth.</p> |
| 12.95 | <p>Dry wash, 10 lks. wide, course SW.</p> |
| 27.05 | <p>Dry wash, 10 lks. wide, course SW.</p> |
| 33.55 | <p>Dry wash, 10 lks. wide, course SW.</p> |
| 40.00 | <p>Dry wash, 30 lks. wide, course SW.</p> |
| 40.00 | <p>Set a granite stone 18x8x8 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone, 2 ft. base, 1-1/2 ft. high, W. of cor. Pits impracticable.</p> |
| 47.00 | <p>Dry wash, 10 lks. wide, course W.</p> |
| 58.40 | <p>Dry wash, 15 lks. wide, course SW.</p> |
| 60.01 | <p>Road brs. SW. to Arivaca.</p> |
| 65.65 | <p>Dry wash, 10 lks. wide, course W.</p> |
| 73.90 | <p>Dry wash, 10 lks. wide, course W.</p> |
| 78.60 | <p>Dry wash, 50 lks. wide, course W.</p> |
| 80.00 | <p>Set a porphyry stone, 21x12x10 ins., 16 ins. in the ground, for cor. of secs. 25, 26, 35 and 36, marked with 1 notch on E. and S. edges; and raise a mound of stone, 2 ft. base, 1-1/2 ft. high, W. of cor. Pits impracticable; from which, A mesquite, 8 ins. diam., brs. S. 55° E., 228 lks. dist., marked T 21 S R 10 E S 36 B T. A mesquite, 10 ins. diam., brs. N. 37° E., 230 lks. dist., marked T 21 S R 10 E S 25 B T. A mesquite, 8 ins. diam., brs. N. 38° W., 146 lks. dist., marked T 21 S R 10 E S 26 B T. No other trees within limits. Land, mountainous.</p> |

BOOK 2151

4. Subdivision of Township 21 South, Range 10 East.

| | |
|----------------------------|--|
| Chains. | Soil, gravelly and rocky; 3rd and 4th rate. Timber, mesquite; undergrowth, mesquite and tesota. Land, mountainous, covered with dense undergrowth, and exceptionally difficult to survey, 80.00 chs. |
| | South, on a true line, bet. secs. 35 and 36. Over mountainous land, through dense undergrowth. |
| 19.75 | Dry wash, 10 lks. wide, course W. |
| 28.85 | Top of ridge; descend. |
| 40.00 | Set a porphyry stone, 18x10x10 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone, 2 ft. base, 1-1/2 ft. high, W. of cor. Pits impracticable, from which, A mesquite, 6 ins. diam., brs. S. 12° E., 196 lks. dist., marked 1/4 S 36 E T. |
| 49.10 | Dry wash, 10 lks. wide, course SW. |
| 62.75 | Dry wash, 10 lks. wide, course SW. |
| 68.10 | Wire fence, brs. NW. Enter field. |
| 73.00 | Set a porphyry stone, 18x12x10 ins., 12 ins. in the ground, for witness cor. to closing cor. to secs. 35 and 36, marked W C C C on N., with 1 groove on E. and 5 grooves on W. faces; and raise a mound of earth and stone, 2 ft. base, 1-1/2 ft. high, N. of cor. Pits impracticable. |
| 81.11 | Intersect S. bdy. of Tp. at a point 6.13 chs. west of witness cor. of secs. 1 and 2. Cor. point in field subject to overflow. Land, mountainous. Soil, gravelly, sandy and rocky; 3rd and 4th rate. Timber, mesquite; undergrowth, mesquite and tesota. Land, mountainous, covered with dense undergrowth, or exceptionally difficult to survey, 81.11 chs. October 30, 1907. |
| Sectional correction Line. | |
| | From the cor. of secs. 1, 2, 11 and 12, heretofore described by me, at 9h.05m. a.m., 1.m.t., Oct. 31, 1907, I set off 31°37' N. on the lat. arc; 13°52' S. on the decl. arc, and determine a meridian with the solar. Thence I run, East, on a true line, bet. secs. 1 and 12. Over mountainous land. |
| 6.34 | Dry wash, 10 lks. wide, course N. |
| 30.16 | Dry wash, 10 lks. wide, course NE. |
| 37.10 | Dry wash, 10 lks. wide, course NE. |
| 40.00 | Set a silicate stone 21x12x12 ins., 16 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone, 2 ft. base, 1-1/2 ft. high, N. of cor. Pits impracticable. |
| 54.48 | Dry wash, 10 lks. wide, course N. |
| 71.42 | Dry wash, 25 lks. wide, course N. |
| 80.50 | Intersect E. bdy. of Tp. at cor. of secs. 1, 6, 7 and 12 heretofore described by me. Land, mountainous. Soil, gravelly and rocky; 3rd and 4th rate. Timber, a few mesquite. Land, mountainous, covered with dense undergrowth, or exceptionally difficult to survey, 80.50 chs. |
| | From the cor. of secs. 1, 2, 11 and 12 before described, I run, West, on a true line, bet. secs. 2 and 11. Over mountainous land. |
| 19.61 | Dry wash, 20 lks. wide, course N. |
| 35.44 | Dry wash, 10 lks. wide, course N. |
| 40.00 | Set a silicate stone 21x12x10 ins., 16 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone, 2 ft. base, 1-1/2 ft. high, N. of cor. Pits impracticable. |

Chains.

- 47.88 Dry wash, 10 lks. wide, course N.
 56.93 Dry wash, 10 lks. wide, course NE.
 69.92 Shaft and tunnel, br. 1 ch. N. of line.
 78.32 Shaft, brs. N. 25 lks.
 80.00 Shaft. As it is impracticable to set cor. at this point account of falling in shaft.
 At a point 50 lks. No^o1^W from true cor. point, I set a porphyry 18 x 12 x 10 ins., 12 ins. in the ground, for witness cor. of secs. 2, 3, 10 and 11, marked WC on N., with 2 notches on E. and 5 notches on S edges; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.
 Land, mountainous.
 Soil, gravelly and rocky; 3rd and 4th rate.
 Timber, a few mesquite.
 Land, mountainous, or covered with dense undergrowth, or exceptionally difficult to survey, 80.00 chs.
-
- West on a true line bet. secs. 3 and 10. From cor. point. Over mountainous land, through dense mesquite and tesota undergrowth.
- 8.10 Dry wash, 15 lks. wide, course NW.
 15.00 Road to Arivaca, brs. S. descend.
 19.60 Dry wash, 40 lks. wide, course N.
 36.05 Dry wash, 20 lks. wide, course N.
 40.00 Set a porphyry stone 18 x 10 x 6 ins., 12 ins. in the ground, for ¼ sec. cor., marked ¼ on N. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable.
 80.00 Set a porphyry stone 21 x 8 x 8 ins., 16 ins. in the ground for cor. of secs. 3, 4, 9 and 10, marked with 3 notches on E. and 5 notches on S. edges, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable. *For location of N.D. Min. Mon. No. 4 in Sec. 9 see page 31*
 Land, mountainous.
 Soil, gravelly and rocky; 3rd and 4th rate.
 Timber, a few mesquite; undergrowth, mesquite and tesota.
 Land, mountainous, covered with dense undergrowth, and exceptionally difficult to survey, 80.00 chs.
-
- At the cor. of secs. 3, 4, 9 and 10, on October 31, 1907, At 11h. 44m. 1. m. t. I set off 13° 55' N. on the decl' arc, and observe the Sun on the meridian; the resulting latitude is 31° 37' S., which is about the proper latitude.
 Thence I run,
 West on a true line bet. secs. 4 and 9.
 Over mountainous land. Ascending.
- 40.00 Set a porphyry stone 18 x 10 x 8 ins., 12 ins. in the ground, for ¼ sec. cor., marked ¼ on N. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable.
- 45.30 Along top of spur.
 52.35 Dry wash, 10 lks. wide, course N.
 58.00 Dry wash, 10 lks. wide, course N.
 Thence along N. slope of ridge, over large rough loose rocks and boulders.
 65.00 Top of ridge, brs. SE. Descend.
 72.25 Road, brs. NW.
 73.20 Dry wash, 10 lks. wide, course NW.
 80.00 Set a porphyry stone 18 x 8 x 8 ins., 12 ins. in the ground, for cor. of secs. 4, 5, 8 and 9, marked with 4 notches on E. and 5 notches on S. edges, and raise a mound of stone, 2 ft. base/ 1½ ft. high, W. of cor. Pits impracticable.
 Land, mountainous.
 Soil, stony and gravelly; 3rd and 4th rate.
 Timber, a few mesquite.
 Land, mountainous, and exceptionally difficult to survey, 80.00 chs.
-

Chains.

West on a true line bet. secs. 5 and 8.
 Over mountainous land, rocky spurs, ascending N. slope.
 21.25 Top of spur, brs SE. Descend.
 29.00 Dry wash, 10 lks: wide, course SE.
 Ascend over S. slope of ridge.
 38.45 Top of ridge, brs. SE.
 40.00 Set a porphyry 21 x 8 x 8 ins., 16 ins. in the
 ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and
 raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of
 cor. Pits impracticable.
 42.00 Dry wash, 10 lks. wide, course SW.
 47.48 Prospect hole brs. 30 lks. N.
 Thence along S. slope of high mountain. Ascending.
 67.10 Top of ridge; descend.
 80.00 Set a porphyry stone 18 x 8 x 8 ins., 12 ins. in the
 ground, for cor. of secs. 5, 6, 7 and 8; marked with
 5 notches on E. and S. edges, and raise a mound of
 stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits
 impracticable.
 Land, mountainous.
 Soil, gravelly and rocky; 3rd and 4th rate.
 No timber.
 Land, mountainous, and exceptionally difficult to
 survey, 80.00 chs.

 West on a true line bet. secs. 6 and 7.
 Over mountainous land, descending.
 9.62 Dry wash, 40 lks. wide, course SW.
 18.00 Dry wash, 100 lks. wide, course S.
 28.75 Dry wash, 10 lks. wide, course SE.
 33.70 Dry wash, 40 lks. wide, course S.
 Ascend high ridge.
 40.00 Set a porphyry 18 x 8 x 8 ins., 12 ins. in the
 ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and
 raise a mound of stone, 2 ft. base/ $1\frac{1}{2}$ ft. high, N. of
 cor. Pits impracticable.
 52.00 Top of ridge, brs. N. and S., 500 feet high.
 62.26 Descend.
 73.26 Gulch, 20 lks. wide, course SE. Ascend.
 78.20 Intersect W. bdy. of Tp. at a point 3.40 chs. N. ~~of~~
 W. of cor. of secs. 6 and 7., heretofore described by me.
 Set a granite stone 20 x 8 x 6 ins., 15 ins. in the
 ground, for closing cor. of secs. 6 and 7, Tp. 21 S., R.
 10 E., marked CC on E., with 1 groove on N. and 5 grooves
 on S. faces, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft.
 high, E. of cor. Pits impracticable.
 Land, mountainous.
 Soil, rocky and gravelly; 4th rate.
 No timber; undergrowth, mesquite and tesota.
 Land, mountainous, covered with dense undergrowth, or
 exceptionally difficult to survey, 78.20 chs.
 October 31, 1907.

 November 1, 1907: At 7h 30m. A.M. l.m.t. I set off
 $31^{\circ} 36\frac{1}{2}'$ N. on the lat. arc; $14^{\circ} 09'$ S. on the decl.
 arc; and determine a meridian with the solar, at the
 cor. of secs. 11, 12, 13 and 14, heretofore described by me.
 Thence I run,
 East on a random line bet. secs. 12 and 13.
 40.00 Set temporary $\frac{1}{4}$ sec. cor.
 78.96 Intersect E. bdy. of Tp. at a point 27 lks. South
 of cor. of secs. 7, 12, 13 and 18, heretofore described.
 Thence I run, West
~~S. $89^{\circ} 48'$ W.~~ on a true line bet. secs. 12 and 13.
 Over mountainous land. Ascending.
 5.00 Dry wash, 15 lks. wide, course SE.
 23.20 Dry wash, 15 lks. wide, course SE.
 37.85 Dry wash, 10 lks. wide, course S.
 38.96 Set a porphyry stone 18 x 12 x 10 ins., 12 ins. in
 the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face,
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,

Subdivisions of Tp. 21 S., R. 10 E. (Continued).

Chains.

N. of cor. Pits impracticable.
 50.45 Dry wash, 10 lks. wide, course SW.
 52.50 Dry wash, 10 lks. wide, course S.
 72.90 Dry wash, 25 lks. wide, course SW.
 78.96 Cor of secs. 11, 12, 13, and 14.
 Land, mountainous.
 Soil, gravelly and rocky; 3rd and 4th rate.
 No timber.
 Land, mountainous, or exceptionally difficult to survey,
 78.96 chs.

 Note: From my surveys of the boundaries of this TP.
 I know that the East boundary is in excess of limits;
 therefore, from the true point for the cor. of secs.
 13, 14, 23 and 24., I run

East on a true line bet. secs. 13 and 24.
 Over mountainous land; ascending.
 3.40 Dry wash, 30 lks. wide, course W.
 12.00 Dry wash, 15 lks. wide, course SW.
 38.90 Dry wash, 15 lks. wide, course SW.
 40.00 Set a porphyry stone, 18 x 8 x 8 ins., 12 ins. in the
 ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and
 raise a mound of stone, 2 ft. base/ $1\frac{1}{2}$ ft. high, N.
 of cor. Pits impracticable.
 41.00 Dry wash, 15 lks. wide, course N.V.
 50.30 Same wash, 10 lks. wide, course SW.
 79.36 Intersect E. bdy. of Tp. at a point 64 lks. S. of cor.
 of secs. 18 and 19, Tp. 21 S., R. 11 E., heretofore
 described.
 Set a porphyry stone 18 x 8 x 8 ins., 12 ins. in the
 ground, for closing cor. of secs. 13 and 24, marked
 CC on W. with 3 grooves on N. and S. faces, and raise a
 mound of stone, 2 ft. base/ $1\frac{1}{2}$ ft. high, W. of cor.
 Pits impracticable.
 Land, mountainous.
 Soil, sandy, gravelly and rocky; 3rd and 4th rate.
 No timber; undergrowth, tesota and mesquite.
 Land, mountainous, covered with dense undergrowth,
 or exceptionally difficult to survey, 79.36 chs.

 From the cor. of secs. 23, 24, 25 and 26, heretofore
 described by me; I run,
 East on a true line bet. secs. 24 and 25.

over mountainous land.
 40.00 Set a quartzite stone 22 x 12 x 8 ins., 16 ins. in
 the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face,
 and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high,
 N. of cor. Pits impracticable.
 50.80 Dry wash, 10 lks. wide, course N.
 58.90 Dry wash, 15 lks. wide, course NW.
 63.50 Dry wash, 10 lks. wide, course SW.
 68.60 Road, brs. NE. and SW.
 74.15 Dry wash, 10 lks. wide, course SE.
 81.85 Intersect E. bdy. of Tp. at a point 90 lks. S. of cor.
 of secs. 19, & 30, Tp. 21 S., R. 11 E., before described.
 Set a porphyry stone, 21 x 8 x 8 ins., 16 ins. in the
 ground, for closing cor. of secs. 24 and 25, marked
 CC on W. with 4 grooves on N. and 2 grooves on S. faces,
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
 W. of cor. Pits impracticable.
 Land, mountainous.
 Soil, gravelly and rocky; 3rd and 4th rate.
 Timber, a few mesquite; undergrowth, mesquite and
 tesota.
 Land, mountainous, covered with dense undergrowth,
 or exceptionally difficult to survey, 81.85 chs.

Subdivisions of Tp. 21 S., R. 10 E. (Continued)

Chains.

November 1, 1907: At 11h 44m. A.M. l.m.t. at the cor. of secs. 25, 26, 35 and 36, heretofore described, I set off $14^{\circ} 14'$ S. on the decl. arc; and observe the Sun on the meridian; the resulting latitude is $31^{\circ} 34'$ North, which is about correct. From the cor. above mentioned, I run,
 East on a true line bet. secs. 25 and 36.
 Over mountainous land. Ascending.

2.28 Dry wash, 50 lks. wide, course NW.
 10.60 Dry wash, 10 lks. wide, course SW.
 36.20 Dry wash, 20 lks. wide, course SW.
 40.00 Set a granite stone 18 x 12 x 6 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor., Pits impracticable; from which,
 A mesquite 12 ins. dia. brs. N. $53\frac{1}{2}^{\circ}$ W., 145 lks. dist., marked $\frac{1}{4}$ S 25 BT.
 No other trees within limits.

43.00 Dry wash, 10 lks. wide, course NW.
 45.50 Dry wash, 10 lks. wide, course SW.
 61.05 Dry wash, 10 lks. wide, course SW.
 69.15 Dry wash, 10 lks. wide, course SW.
 75.15 Dry wash, 10 lks. wide, course SW.
 77.25 Dry wash, 10 lks. wide, course SW.
 81.80 Dry wash 10 lks. wide, course S.
 81.99 Intersect E. bdy. of Tp. at a point 55 lks. N. of cor. of secs. 30 & 31, T. 21 S., R. 10 E., before described. Set a silicate stone 18 x 10 x 10 ins., 12 ins. in the ground, for closing cor. of secs. 25 and 36, marked CC on W. with 5 grooves on N. and 1 groove on S. faces; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
 Land, mountainous.
 Soil, sandy, gravelly, and rocky; 3rd and 4th rate.
 Timber, a few mesquite; undergrowth, tesota and cacti.
 Land, mountainous, covered with dense undergrowth, or exceptionally difficult to survey, 81.99 chs.
 November 1, 1907.

November 2, 1907: At the true cor. point for secs. 2, 3, 10 and 11, heretofore described, at 8h 30m A.M. l.m.t., I set off $31^{\circ} 37\frac{1}{2}'$ N., on the lat. arc; $14^{\circ} 30'$ S., on the decl. arc, and determine a meridian with the solar.
 Thence I run,
 North $0^{\circ} 1'$ W. on a true line bet. secs. 2 and 3.
 Over mountainous land; through dense mesquite.

.50 Witness Corner of secs. 2, 3, 10 and 11.
 39.48 Set a porphyry 18 x 10 x 10 ins., 12 ins. in the ground, for witness cor. to $\frac{1}{4}$ sec. cor., marked WC $\frac{1}{4}$ on W. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable; from which,
 A mesquite 6 ins. dia. brs. N. 20° E., 115 lks. dist., marked $\frac{1}{4}$ S 2 WC BT.
 A mesquite 6 ins. diam. brs. N. 61° W., 73 lks. dist., marked $\frac{1}{4}$ S 3 WC BT.

40.00 Point for $\frac{1}{4}$ sec. cor. falls in road to Arivaca.
 79.98 Intersect 4th Standard Par. S., at a point 10.17 chs. West of Standard cor. of secs. 34 and 35, prev. described. Set a granite stone 21 x 10 x 10 ins., 16 ins. in the ground for closing cor. of secs. 2 and 3, marked CC on S. with 2 grooves on E. and 4 grooves on W. faces, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, S. of cor. Pits impracticable.
 Land, mountainous.
 Soil, gravelly and rocky; 3rd and 4th rate.
 Timber mesquite; undergrowth, mesquite and tesota.
 Land, mountainous, covered with dense undergrowth, or exceptionally difficult to survey, 79.98 chs.

Chains.

From the cor. point for secs. 2, 3, 10 and 11, heretofore described,

I run,

S. 0° 1' E. on a true line bet. secs. 10 and 11.

Over rolling and mountainous land, through mesquite timber. Descending.

2.30 Dry wash, 10 lks. wide, course SW.

4.80 Dry wash, 10 lks. wide, course W.

7.10 Dry wash, 10 lks. wide, course NW.

16.65 Dry wash, 10 lks. wide, course NW.

28.75 Dry wash, 10 lks. wide, course W.

39.50 Set a silicate stone 21 x 8 x 8 ins., 16 ins. in the ground, for witness cor. to 1/4 sec. cor., marked WC 1/4 on W. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable.

40.00 Cor. point falls in dry wash, 10 lks. wide, course SW.

80.00 Set a silicate 18 x 8 x 8 ins., 12 ins. in the ground, for cor. of secs. 10, 11, 14 and 15, marked with 2 notches on E. and 4 notches on S. edges, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable. From which,

A mesquite 6 ins. dia. brs. N. 27 1/2° W., 83 lks. dist., marked T 21 S R 10 E S 10 BT.

No other trees within limits.

Land, rolling and mountainous.

Soil, sandy and gravelly; 3rd and 4th rate.

Timber, mesquite; undergrowth, mesquite and cacti.

Land, mountainous, covered with dense undergrowth, or exceptionally difficult to survey, 80.00 chs.

East on a random line bet. secs. 11 and 14.

40.00 Set temp. 1/4 sec. cor.

80.04 Intersect N. and S. line at a point 2 lks. N. of cor. of secs. 11, 12, 13 and 14, heretofore described.

Thence I run,

N. 89° 59' W. on a true line bet. secs. 11 and 14.

Over rolling and mountainous land, descending.

9.43 Dry wash, 20 lks. wide, course S.

24.15 Dry wash, 30 lks. wide, course SW.

29.50 Dry wash, 10 lks. wide, course S.

40.02 Set a silicate stone 21 x 6 x 6 ins., 16 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone 2 ft. base, 1 1/2 ft. high, N. of cor.; pits impracticable; from which,

A mesquite 6 ins. dia. brs. N. 12 1/2° W., 217 lks. dist., marked 1/4 S 11 BT.

No other trees within limits.

40.15 Dry wash, 40 lks. wide, course SW.

65.30 Dry wash, 10 lks. wide, course S.

71.10 Dry wash, 10 lks. wide, course SW.

78.65 Dry wash, 20 lks. wide, course SW.

80.04 Cor. of secs. 10, 11, 14 and 15.

Land, mountainous and rolling.

Soil, gravelly and rocky; 3rd and 4th rate.

Timber, mesquite; undergrowth, mesquite and tesota.

Land, mountainous, covered with dense undergrowth, or exceptionally difficult to survey, 80.04 chs.

At the cor. of secs. 10, 11, 14 and 15, heretofore described, at 11h 44m. A.M. 1.m.t. I set off 14° 33' S. on the decl. arc; and observe the sun on the meridian; the resulting latitude is 31° 37' N., which is correct. November 2, 1907.

Thence I run,

S. 0° 1' E. on a true line bet. secs. 14 and 15.

Over rolling mountainous land, through dense mesquite. Descending.

2.20 Dry wash, 20 lks. wide, course SW.

30.00 Dry wash, 30 lks. wide, course Southerly.

40.00 Set a porphyry 18 x 8 x 6 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of

Chains.

cor. Pits impracticable; from which,
A mesquite 6 ins. dia. brs. N. 63½° E., 152 lks. dist., marked ¼ S 14 BT.
A mesquite 6 ins. dia. brs. S. 19° W., 240 lks. dist., marked ¼ S 15 BT.

40.25 Dry wash, 10 lks. wide, course SW.

70.05 Dry wash, 100 lks. wide, course SW.

80.00 Set a silicate 21 x 8 x 8 ins., 16 ins. in the ground, for cor. of secs. 14, 15, 22 and 23, marked with 2 notches on E. and 3 notches on S. edges, dig pits 18 x 18 x 12 ins. in each sec., 3 ft. dist., and raise a mound of earth and stone, 2 ft. base, 1½ ft. high, W. of cor. From which,

A mesquite 6 ins. diam. brs. S. 28° W., 153 lks. dist., marked T 21 S R 10 E S 22 BT.

A mesquite 8 ins. dia. brs. N. 25° W., 151 lks. dist., marked T 21 S R 10 E S 15 BT.

A mesquite 6 ins. dia. brs. S. 47° E., 265 lks. dist., marked T 21 S R 10 E S 23 BT.

No other trees within limits.

Land mountainous.

Soil, sandy, gravelly and rocky; 3rd and 4th rate.

Timber, mesquite; undergrowth, mesquite and tesota.

Land, mountainous, covered with dense mesquite timber, or exceptionally difficult to survey, 80.00 chs.

S. 89° 59' E. on a random line bet. secs. 14 and 23.

40.00 Set temp. ¼ sec. cor.

80.02 Intersect N. and S. line at a point 5 lks. S. of point for cor. of secs. 13, 14, 23 and 24; heretofore described.

Thence I run,

S. 89° 59' W. on a true line bet. secs. 14 and 23.

Over rolling mountainous land, descending, through ocotillo and mesquite undergrowth.

40.01 Set a porphyry stone 20 x 14 x 12 ins., 15 ins. in the ground, for ¼ sec. cor., marked ¼ on N. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable.

50.25 Dry wash, 35 lks. wide, course SW.

65.50 Dry wash, 10 lks. wide, course SW.

80.02 Cor. of secs. 14, 15, 22 and 23.

Land, mountainous.

Soil, sandy, gravelly and rocky; 3rd and 4th rate.

Timber, a few mesquite; undergrowth, ocotillo and mesquite

Land, mountainous, covered with dense undergrowth, or exceptionally difficult to survey, 80.02 chs.

November 2, 1907.

November 3, 1907: At the cor. of secs. 14, 15, 22 and 23, at 8h 25m A.M. l.m.t., I set off 31° 36' N. on the lat. arc; 14° 49' S. on the decl. arc; and determine a meridian with the solar.

Thence I run,

S. 0° 1' E. on a true line bet. secs. 22 and 23.

Over rolling mountainous land, through dense mesquite and tesota timber and undergrowth.

40.00 Set a porphyry stone 21 x 10 x 8 ins., 16 ins. in the ground, for ¼ sec. cor., marked ¼ on W. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor., from which,

A mesquite 8 ins. diam. brs. N. 20½° E., 63 lks. dist., marked ¼ S 23 BT.

A mesquite 10 ins. diam. brs. N. 87° W., 145 lks. dist., marked ¼ S 22 BT.

43.00 Dry wash, 60 lks. wide, course SW.

80.00 Dry wash, 60 lks. wide, course SW.

Point for cor. falling in wash, impracticable to set,

At a point 2.00 chs N 55° W of true cor. point,

Set a porphyry stone 18 x 8 x 8 ins., 12 ins. in the ground, for witness cor. of cor. to secs. 22, 23, 26 and 27, marked WC on W. with 2 notches on E. and S. faces, and raise a mound of stone, 2 ft. base, 1½ ft.

Subdivisions of Tp. 21 S., R. 10 E. (Continued)

Chains.

high, W. of cor.; from which,
 A mesquite 8 ins. dia. brs. N. 63° W., 182 lks. dist., marked T 21 S R 10 E S 22 WC BT.
 A mesquite 8 ins. dia. brs. N. 40° E., 147 lks. dist., marked T 21 S R 10 E S 23 WC BT.
 A mesquite 6 ins. dia. brs. S. 59° E., 250 lks. dist., marked T 21 S R 10 E S 26 WC BT.
 A mesquite 8 ins. dia. brs. S. 48° W., 45 lks. dist., marked T 21 S R 10 E S 27 WC BT.

Land, mountainous.
 Soil, sandy, gravelly and rocky; 3rd and 4th rate.
 Timber, mesquite and tesota; undergrowth, mesquite and tesota.
 Land, mountainous, covered with dense undergrowth, heavy timber, or exceptionally difficult to survey, 80.00 chs.

 From the true cor. point for cor. of secs. 22, 23, 26 and 27, in wash,

40.00
80.01

I run,
 N. 89° 59' E. on a random line bet. secs. 23 and 26.
 Set temp. 1/4 sec. cor.
 Intersect N. and S. line at the cor. of secs. 23, 24, 25 and 26, heretofore described.

9.85
40.00

Thence I run,
 S. 89° 59' W. on a true line bet. secs. 23 and 26.
 Over mountainous land, ascending.
 Dry wash, 10 lks. wide, course N.
 Set a porphyry stone 21 x 6 x 6 ins., 16 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor. Pits impracticable.

80.01

True cor. point for secs. 22, 23, 26 and 27.
 Land, mountainous.
 Soil, gravelly and rocky; 3rd and 4th rate.
 Timber, a few mesquite; undergrowth, mesquite, tesota, and cacti.
 Land, mountainous, covered with dense undergrowth, or exceptionally difficult to survey, 80.01 chs.

 From true cor. point of secs. 22, 23, 26 and 27,
 I run,

15.75
40.00

S. 0° 1' E. on a true line bet. secs. 26 and 27.
 Over mountainous land, through dense mesquite timber and undergrowth; descending.
 Dry wash, 20 lks. wide, course W.
 Set a quartzite rock 20 x 8 x 8 ins., 15 ins. in the ground for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable.

42.15
65.50
80.00

Dry wash, 10 lks. wide, course W.
 Wire fence, brs. NW and SE and enter pasture.
 Set a silicate stone 21 x 10 x 5 ins., 15 ins. in the ground, for cor. of secs. 26, 27, 34 and 35, marked with 2 notches on E. and 1 notch on S. edges, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.; from which,
 A mesquite 8 ins. dia. brs. S. 49° E., 90 lks. dist., marked T 21 S R 10 E S 35 BT.
 A mesquite 14 ins. dia. brs. S. 35° W., 182 lks. dist., marked T 21 S R 10 E S 34 BT.
 A mesquite 10 ins. diam. brs. N. 43° W., 105 lks. dist., marked T 21 S R 10 E S 27 BT.
 A mesquite 6 ins. diam. brs. N. 46 1/2° E., 192 lks. dist., marked T 21 S R 10 E S 26 BT.

Land, mountainous and rolling.
 Soil, sandy and gravelly; 3rd and 4th rate.
 Timber; mesquite; undergrowth, mesquite.
 Land, mountainous, covered with heavy timber and dense undergrowth, or exceptionally difficult to survey, 80.00 chs.

Subdivisions of Tp. 21 S., R. 10 E.(continued).

Chains

At the cor. of secs. 26, 27, 34 and 35, heretofore described, at 11h 46m. A.M. 1.m.t. I set off 14° 52' S. on the decl. arc, and observe the sun on the meridian; the resulting latitude is 31° 34' N., which is correct. Thence I run,
 N. 89° 59' E. on a random line bet. secs. 26 and 35.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.06 Intersect N. and S. line at a point 7 lks. N. of cor. of secs. 25, 26, 35 and 36, heretofore described. Thence I run,
 N. 89° 58' W. on a true line bet. secs. 26 and 35. Over mountainous and rolling land through dense brush.
 21.00 Road to Arivaca, brs. NE. and SW
 40.03 Set a porphyry stone 18 x 12 x 5 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
 42.30 Dry wash, 10 lks. wide, course SW.
 48.40 Dry wash, 10 lks. wide, course S.
 66.60 Wire fence, brs. NW. and SE.
 70.00 Enter level land.
 80.06 Cor. of secs. 26, 27, 34 and 35.
 Land, mountainous and level.
 Soil, sandy and gravelly, 3rd and 4th rate.
 Timber, scattering mesquite; undergrowth, mesquite, tesota and cacti.
 Land, mountainous, covered with dense undergrowth, or, exceptionally difficult to survey, 70.00 chs.

 S. 0° 1' E. on a true line bet. secs. 34 and 35.
 Over rolling land, through dense mesquite.
 5.25 Road, brs. SE. and NW.
 14.80 Dry wash, 50 lks. wide, course W.
 16.20 Old road, brs. SE. and NW.
 17.30 Road, brs. SE. and NW.
 40.00 Set a porphyry stone 21 x 6 x 6 ins., 16 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, dig pits 18 x 18 x 12 ins. N. and S. of cor. 3 ft. dist., and raise a mound of stone and earth, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
 81.20 Intersect S. bdy. of Tp. at a point 2.28 chs. N. 88° W. cor. of secs. 2, 3, T. 22, S. R. 10 E., described by me. Set a porphyry stone 21 x 8 x 6 ins., 16 ins. in the ground, for closing cor. of secs. 34 and 35, marked CC on N. with 2 grooves on E. and 4 grooves on W. faces, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor. Pits impracticable; from which,
 An oak 14 ins. diam. brs. N. 37° W., 170 lks. dist., marked T 21 S R 10 E S 34 CC BT.
 No other trees within limits.
 Land, rolling.
 Soil, sandy and gravelly; 3rd and 4th rate.
 Timber, mesquite, some oak; undergrowth, mesquite, tesota and oak.
 Land, covered with dense undergrowth, heavily timbered, or exceptionally difficult to survey; 81.20 chs.
 November 3, 1907.

 November 4th, 1907: At the cor. of secs. 3, 4, 9 and 10, heretofore described by me, at 8h 30m A.M. 1.m.t., I set off 31° 37 $\frac{1}{2}$ ' N. on the lat. arc; 15° 8' S. on the decl. arc, and determine a meridian with the solar.
 Thence I run,
 N. 0° 1' W. on a true line bet. secs. 3 and 4.
 Over mountainous and rolling land, ascending through dense mesquite and tesota undergrowth.
 13.00 Dry wash, 15 lks. wide, course E.
 40.00 Set a porphyry stone, 21 x 10 x 10 ins., 16 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable; from which,

Chains.

Prospect shaft hrs. West; 1.00 chain.
 50.80 Dry wash, 25 lks. wide, course E.
 79.98 Intersect N. bdy. of Tp. at a point 10.48 chs. west of Stand. cor. secs. 33 and 34, heretofore described by me. Set a porphyry stone 22 x 12 x 8 ins., 16 ins. in the ground, for closing cor. of secs. 3 and 4, marked CC on S. with 3 grooves on E. and W. faces, and raise a mound of stone, 2 ft. base, 1½ ft. high, S. of cor. Pits impracticable.
 Land, rolling and mountainous.
 Soil, gravelly and rocky; 3rd and 4th rate.
 Timber, mesquite and tesota; undergrowth, mesquite and tesota.
 Land, mountainous, covered with dense undergrowth, heavily timbered, or exceptionally difficult to survey, 79.98 chs.

 From the cor. of secs. 3, 4, 9 and 10, heretofore described by me, *Note: For location of N.D. Min. Mon. No. 4 - See page 31.*
 I run,

S. 0° 1' E. on a true line bet. secs. 9 and 10.
 Over mountainous land, ascending.
 2.25 Dry wash, 10 lks. wide, course E.
 19.60 Dry wash, 15 lks. wide, course SE.
 40.00 Set a porphyry stone 18 x 8 x 8 ins., 12 ins. in the ground, for ¼ sec. cor., marked ¼ on W. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.
 Thence along west slope of hill.
 80.00 Set a porphyry stone 22 x 14 x 6 ins., 17 ins. in the ground, for cor. of secs. 9, 10, 15 and 16, marked with 3 notches on E. and 4 notches on S. edges, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.
 Land, mountainous.
 Soil, rocky; 3rd and 4th rate.
 Timber, mesquite and palo verde; undergrowth, mesquite and tesota and cacti.
 Land mountainous, covered with dense undergrowth, or exceptionally difficult to survey, 80.00 chs.

 East on a random line bet. secs. 10 and 15.

40.00 Set temp. ¼ sec. cor.
 79.96 Intersect N. and S. line at cor. of secs. 10, 11, 14 and 15, heretofore described by me.
 Thence I run,
 West on a true line bet. secs. 10 and 15.
 Over rolling and mountainous land, through mesquite, tesota and cacti undergrowth.
 6.95 Dry wash, 20 lks. wide, course southerly.
 18.40 Arivaca road hrs. N. and S.
 27.35 Dry wash, 25 lks. wide, course SE.
 39.98 Set a porphyry stone 18 x 8 x 6 ins., 12 ins. in the ground, for ¼ sec. cor., marked ¼ on N. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable.
 79.96 Cor. of secs. 9, 10, 15 and 16.
 Land, mountainous and rolling.
 Soil, sandy, gravelly and rocky; 3rd and 4th rate.
 Timber, mesquite and tesota; undergrowth, mesquite and tesota.
 Land, mountainous, covered with dense undergrowth, or exceptionally difficult to survey, 79.96 chs.

 November 4, 1907. At the cor. of secs. 9, 10, 15 and 16, at 11h44mm. A.M. l.m.t., I set off 15° 11' S. on the decl. arc, and observe the sun on the meridian; the resulting latitude is 31° 37' N., which is correct. From said cor. heretofore described,
 I run,
 S. 0° 1' E. on a true line bet. secs. 15 and 16.
 Over rolling and mountainous land, descending.

| Chains. | |
|---|---|
| 15.85 | Dry wash, 15 lks. wide, course SE. |
| 22.65 | Dry wash, 10 lks. wide, course E. |
| 29.75 | Dry wash, 10 lks. wide, course E. |
| 40.00 | Set a porphyry stone 21 x 10 x 10 ins., 16 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. |
| 80.00 | Thence along E. slope of ridge. Set a porphyry stone 22 x 8 x 8 ins., 16 ins. in the ground, for cor. of secs. 15, 16, 21 and 22, marked with 3 notches on E. and S. edges, and 21 S on NE, and 10 E on SE. faces and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Land, rolling and mountainous. Soil, sandy, gravelly and rocky; 3rd and 4th rate. Timber, a few mesquite and tesota; undergrowth, mesquite tesota, and cacti. Land, mountainous, covered with dense undergrowth, or exceptionally difficult to survey, 80.00 chs. |
| 40.00 | East on a random line bet. secs. 15 and 22. Set temp. $\frac{1}{4}$ sec. cor. |
| 79.98 | Intersect N. and S. line 5 lks. N. of cor. of secs. 14, 15, 22 and 23, heretofore described. Thence I run, N. $89^{\circ} 58'$ W. on a true line bet. secs. 15 and 22. Over mountainous and rolling land. |
| 7.10 | Dry wash, 60 lks. wide, course S. |
| 11.65 | Road, brs. SW and NE. |
| 30.85 | Road, brs. SW and NE. |
| 31.45 | Road, brs. SW and NE. |
| 33.40 | Dry wash, 10 lks. wide, course S. |
| 39.99 | Set a silicate stone 21 x 10 x 6 ins., 16 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable. |
| 49.85 | Dry wash, 10 lks. wide, course S. |
| 79.98 | Cor. of secs. 15, 16, 21 and 22. Land, mountainous. Soil, gravelly and rocky; 3rd and 4th rate. Timber, scatter mesquite. Land, mountainous, or exceptionally difficult to survey, 79.98 chs. |
| 4.25 | S. $0^{\circ} 1'$ E. on a true line bet. secs. 21 and 22. Descending, over mountainous land. |
| 13.60 | Dry wash, 10 lks. wide, course SE. |
| 40.00 | Dry wash, 40 lks. wide, course SW. Set a porphyry stone 21 x 8 x 8 ins., 16 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. |
| 42.50 | Set a porphyry stone 20 x 10 x 6 ins., 15 ins. in the ground, for cor. of secs. 21, 22, 27 and 28, marked with 3 notches on E. and 2 notches on S. edges, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. |
| 80.00 | Land, mountainous. Soil, sandy, gravelly and rocky; 3rd and 4th rate. No timber. Land, mountainous, or exceptionally difficult to survey, 80.00 chs. |
| November 4, 1907. | |
| November 5, 1907: At the cor. of secs. 21, 22, 27 and 28, heretofore described, at 9h.00m A.M. l.m.t. I set off $31^{\circ} 35'$ N. on the lat. arc; $15^{\circ} 27'$ S. on the decl. arc, and determine a meridian with the solar. | |
| 40.00 | Thence I run, S. $89^{\circ} 58'$ E. on a random line bet. secs. 22 and 27. Set temp. $\frac{1}{4}$ sec. cor. |
| 79.96 | Intersect N. and S. line 2 lks. South of cor. point of secs. 22, 23, 26 and 27, heretofore described. |

Subdivisions of Tp. 21 S., R. 10 E. (Continued)

| Chains. | |
|---------|--|
| | Thence I run, N. 89° 59' W. on a true line bet. secs. 22 and 27. Over mountainous land, through mesquite timber, and tesota and mesquite undergrowth. |
| 2.00 | Witness cor. to true cor. point, heretofore described. |
| 10.10 | Dry wash, 10 lks. wide, course SW. |
| 22.90 | Dry wash, 40 lks. wide, course S. |
| 28.00 | Road, brs. SW and NE. |
| 39.98 | Set a porphyry stone 18 x 10 x 8 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor. Pits impracticable; from which, A mesquite 6 ins. diam. brs. S. 24 $\frac{1}{2}$ ° W., 150 lks. dist., marked $\frac{1}{4}$ S 27 BT. No other trees within limits. |
| 55.20 | Dry wash, 15 lks. wide, course SW. |
| 63.65 | Dry wash, 30 lks. wide, course S. |
| 66.25 | Road to Arivaca, brs. SW. |
| 79.96 | Cor. of secs. 21, 22, 27 and 28. Land, mountainous. Soil, sandy, gravelly and rocky; 3rd and 4th rate. Timber, mesquite; undergrowth, mesquite and tesota. Land, mountainous, covered with dense undergrowth, or exceptionally difficult to survey, 79.96 chs. |
| | ----- |
| | S. 0° 1' E. on a true line bet. secs. 27 and 28. Over rolling and mountainous land, through mesquite and tesota undergrowth. Descending. |
| 10.80 | Road, Arivaca, brs. SW. and NE. |
| 16.80 | Road, brs. W. and E. |
| 18.85 | Dry wash, 30 lks. wide, course SE. |
| 24.90 | Road, brs. W. and E. |
| 26.90 | Brush fence, brs. NE and SW. Brush corral brs. West, 1.00 ch. |
| 36.95 | Enter cienega, and dense willow undergrowth. |
| 37.00 | Creek,, 50 lks. wide, course SW. |
| 40.00 | Deposit a marked stone 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., dig pits 18 x 18 x 12 ins. N. and S. of cor., 4 ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, over deposit. In S. pit drive a willow stake 3 ft. long, 3 ins. sq., 18 ins. in the ground, marked $\frac{1}{4}$ S 27 on E. face and 28 on W. face. |
| 51.90 | Road, to Arivaca, brs. NW. |
| 63.15 | Wash, 15 lks. wide, course W. |
| 64.60 | Wire fence, brs. E. and W. |
| 64.80 | Leave Cienega; and ascend. |
| 80.00 | Set a porphyry stone 20 x 14 x 12 ins., 15 ins. in the ground, for cor. of secs. 27, 28, 33 and 34, marked with 3 notches on E. and 1 notch on S. edges, and raise a mound of stone, 3 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Land, rolling and mountainous. Soil, sandy, rocky and swampy; 2nd, 3rd and 4th rate. No timber; undergrowth mesquite, tesota, and willow. Land, mountainous, covered with dense undergrowth, or exceptionally difficult to survey, 80.00 chs. |
| | ----- |
| 40.00 | S. 89° 59' E. on a random line bet. secs. 27 and 34. Set temp. $\frac{1}{4}$ sec. cor. |
| 80.00 | Intersect N. and S. line 5 lks. N. of cor. of secs. 26, 27, 34 and 35., heretofore described. Thence I run, N. 89° 57' W. on a true line bet. secs. 27 and 34. Over level land, through dense mesquite, tesota and wil- low undergrowth. |
| 2.30 | Road, brs. NW and SE. |
| 4.25 | Dry wash, 50 lks. wide, course NW. |
| 14.30 | Road, brs. NW and SE. |
| 30.60 | Road, brs. NW. |
| 40.00 | Set a porphyry stone 18 x 8 x 6 ins., 12 ins. in the |

44

Subdivisions of Tp. 21 S., R. 10 E. (Continued)

Chains.

ground, for 1/4 sec. cor., marked 1/4 on N. face, dig pits 18 x 18 x 12 ins., E. and W. of cor. 3 ft. dist., and raise a mound of earth and stone, 2 ft. base, 1 1/2 ft. high, N. of cor.

At this 1/4 sec. cor. bet. secs. 27 and 34: At 11h 46m. A.M. l.m.t., I set off 15° 30' S. on the decl. arc, and observe the sun on the meridian; the resulting latitude is 31° 34' N., which is about correct.

80.00

Thence continuing my line, Cor. of secs. 27, 28, 33 and 34.

Land, level.

Soil, sandy loam; 2nd rate.

Timber, mesquite and tesota; undergrowth, mesquite, tesota and willow.

Land heavily timbered, covered with dense undergrowth, or exceptionally difficult to survey, 80.00 chs.

S. 0° 1' E. on a true line bet. secs. 33 and 34.

39.85

Over rolling and mountainous land.

40.00

Dry wash, 10 lks. wide, course W. Set a porphyry stone 18 x 12 x 10 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable.

40.15

Dry wash, 10 lks. wide, course W.

54.30

Dry wash, 10 lks. wide, course SW.

70.10

Wire fence, brs. SE. and NW.

79.60

Dry wash 10 lks. wide, course SW and 4. T 22 S. R 10 E. heretofore desc.

79.75

Set a quartzite stone 18 x 12 x 12 ins., 12 ins. in the ground for ~~witness cor.~~ closing cor. of secs. 33 and 34, marked CC on N., with 3 grooves on E. and W. faces, and raise a mound of stone, 3 ft. base, 1 1/2 ft. high, N. of cor. Pits impracticable; from which,

A mesquite 5 ins. dia. brs. N 75° E 304 203 lks. dist., marked T 21 S R 10 E S 34 CC BT.

No other trees within limits.

79.75

~~Cor. point falls in wash, 20 lks. wide, course S. 80° W. and intersection of S. bdy. of TP. at a point 2.24 chs. West of cor. of secs. 3 and 4, T. 22 S., R. 10 E. heretofore described.~~

Land, rolling and mountainous.

Soil, gravelly and rocky; 3rd and 4th rate.

Timber, a few mesquite.

Land, mountainous, or exceptionally difficult to survey, 79.75 chs.

November 5, 1907.

November 6, 1907: At the cor. of secs. 4, 5, 8 and 9, heretofore described by me, at 8h 40m. A.M. l.m.t., I set off 31° 37 1/2' N. on the lat. arc; 15° 45' S. on the decl. arc; and determine a meridian with the solar.

Thence I run,

N. 0° 2' W. on a true line bet. secs. 4 and 5.

Descending, over rocky mountainous spurs.

7.00

Dry wash, 10 lks. wide, course NE.

13.60

Mine brs. 10 chs. W.

13.75

Dry wash, 25 lks. wide, course NW.

14.00

Road, brs. NW and SE.

Ascend steep ridge.

30.15

Top of ridge, brs. E and W.

35.80

Dry wash, 10 lks. wide, course NE, ascend.

40.00

Set a granite stone 18 x 10 x 8 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable.

72.30

Top of spur, brs. NE. and SW. Descend.

79.96

Intersect N. bdy. of Tp. (4th Standard Par. S.) at a point 10.85 chs. West of standard cor. of secs. 32 and 33, previously described.

Subdivisions of Tp. 21 S., R. 10 E. (Continued).

Chains.

Set a granite stone 21 x 12 x 4 ins., 16 ins. in the ground, for closing cor. of secs. 4 and 5, marked CC on S., with 4 grooves on E. and 2 grooves on W. faces; dig pits 24 x 18 x 12 ins., crosswise on each line, E. and W. 3 ft. and S. of stone, 7 ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high, S. of cor.

Land, mountainous.

Soil, rocky and gravelly; 3rd and 4th rate.

No timber.

Land, mountainous, or exceptionally difficult to survey, 79.96 chs.

From the cor. of secs. 4, 5, 8, and 8, heretofore described by me,

I run,

S. 0° 2' E. on a true line bet. secs. 8 and 9.

Over mountainous land, ascending, through mesquite and heavy oak timber.

3.00 Top of rocky spur, brs. NW and SE. Descend.

24.25 Mine open cut brs. 12 lks. West.

25.00 Dry wash, 10 lks. wide, course SE.

25.75 Dry wash, 10 lks. wide, course E. Ascend.

28.00 Old mine shaft brs. 1/50 chs. East.

32.00 Top of spur, descend steep, East slope.

38.00 Dry wash, 15 lks. wide, course E. Ascend.

40.00 Set a porphyry 21 x 10 x 6 ins., 16 ins. in the ground, for $\frac{1}{4}$ sec. cor.; marked $\frac{1}{4}$ on W. face, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.; from which,

An oak 10 ins. diam. brs. S. 27° W., 79 lks. dist., marked $\frac{1}{4}$ S 8 BT.

An oak 6 ins. diam. brs. N. 62° E., 135 lks. dist., marked $\frac{1}{4}$ S 9 BT.

43.05 Top of ridge, brs. E. and W. Descend.

58.25 Dry wash, 25 lks. wide, course E. Ascend.

64.20 Top of spur, brs. E. and W. Descend.

65.55 Dry wash, 10 lks. wide, course E.

67.80 Dry wash, 10 lks. wide, course NE. Ascend.

71.65 Top of ridge, brs. E. and W. descend.

80.00 Set a porphyry stone 21 x 12 x 8 ins., 16 ins. in the ground, for cor. of secs. 8, 9, 16 and 17, marked with 4 notches on E. and S. edges, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.; from which;

A mesquite 10 ins. dia. brs. S. 21° E., 212 lks. dist., marked T 21 S R 10 E S 16 BT.

A mesquite 12 ins. dia. brs. S. 75° W., 335 lks. dist., marked T 21 S R 10 E S 17 BT.

No other trees within limits; pits impracticable.

Land, mountainous.

Soil, rocky and gravelly; 3rd and 4th rate.

Timber, oak and mesquite; undergrowth, mesquite, tesota and oak.

Land, mountainous, heavily timbered, covered with dense undergrowth, or exceptionally difficult to survey, 80.00 chs.

Thence I run,

East on a random line bet. secs. 9 and 16.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

80.02 Intersect N. and S. line 5 lks. S. of cor. of secs. 9, 10, 15 and 16, heretofore described.

Thence I run,

S. 89° 58' W. on a true line bet. secs. 9 and 16.

Over mountainous land.

12.00 Dry wash, 30 lks. wide, course SW. Ascend.

37.75 Top of spur, brs. N. and S. Descend.

40.01 Set a porphyry stone 21 x 8 x 6 ins., 16 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.

40.30 Dry wash, 20 lks. wide, course SE. Ascend.

| | |
|---------|---|
| Chains. | |
| 52.50 | Dry wash, 10 lks. wide, course NE. Ascend. |
| 64.40 | Top of ridge, Brs. SE. and NW. Descend steep. Incline shaft 8 ft. deep, brs. 10 lks. N. of line. |
| 73.25 | Dry wash, 10 lks. wide, course SW. Ascend. |
| 77.75 | Dry wash, 10 lks. wide, course S. |
| 80.02 | Cor. of secs. 8, 9, 16 and 17. Land, mountainous. Soil, gravelly and rocky; 3rd and 4th rate. Timber, few mesquite. Land, mountainous, or exceptionally difficult to survey. 80.02 chs. |
| | ----- |
| | At the cor. of secs. 8, 9, 16 and 17, at 11h 44m. A.M. l.m.t. I set off $15^{\circ} 48'$ S. on the decl. arc; and observe the sun on the meridian; the resulting latitude is $31^{\circ} 37'$ N., which is about correct. Thence I run, S. $0^{\circ} 2'$ E. on a true line bet. secs. 16 and 17. Over rocky mountainous land. |
| 2.50 | Dry wash, 10 lks. wide, course SE. Ascend. |
| 10.50 | Dry wash, 10 lks. wide, course SE. |
| 14.50 | Dry wash, 10 lks. wide, course SE. Ascend. |
| 19.70 | Top of spur, brs. SE. Descend. |
| 25.70 | Dry wash, 10 lks. wide, course SE. |
| 29.00 | Dry wash, 10 lks. wide, course SE. Ascend. |
| 36.25 | Top of spur, brs. E. and W. Descend. |
| 38.50 | Dry wash, 10 lks. wide, course SW. |
| 40.00 | Set a granite stone 21 x 12 x 6 ins., 16 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. |
| 47.00 | Dry wash, 10 lks. wide, course SW. |
| 49.00 | Dry wash, 20 lks. wide, course SE. |
| 54.80 | Dry wash, 10 lks. wide, course SE. |
| 62.00 | Dry wash, 10 lks. wide, course E. Ascend. Mine shaft brs. West, 3.00 ch. dist. |
| 66.50 | Top of spur, brs. SE. Descend. west slope. |
| 71.70 | Dry wash, 10 lks. wide, course SE. Ascend. |
| 80.00 | Set a porphyry stone 18 x 8 x 6 ins., 12 ins. in the ground, for cor. of secs. 16, 17, 20 and 21, marked with 4 notches on E. and 3 notches on S. edges, and raise a mound of stone, 3 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable; from which, A mesquite 8 ins. diam. brs. N. $42\frac{1}{2}^{\circ}$ W., 257 lks. dist., marked T 21 S R 10 E S 17 BT. No other trees within limits. Land, mountainous. <i>In location of N.D. this Mon. to Sun see to. see page 32</i> Soil, rocky and gravelly; 3rd and 4th rate. Timber, a few mesquite. Land, mountainous or exceptionally difficult to survey. 80.00 chs. |
| | November 6, 1907. |
| | ----- |
| | November 7, 1907: Heavy rain prevents work this day. ----- |
| | November 8, 1907. At the cor. of secs. 16, 17, 20 and 21, heretofore described by me, at 8h 55m. A.M. l.m.t. I set off $31^{\circ} 36'$ N., on the lat. arc; $16^{\circ} 21'$ S. on the decl. arc; and determine a meridian with the solar. Thence I run, N. $89^{\circ} 58'$ E. on a random line bet. secs. 16 and 21. |
| 40.00 | Set temp. $\frac{1}{4}$ sec. cor. |
| 80.04 | Intersect N. and S. line at a point 9 lks. N. of cor. of secs. 15, 16, 21 and 22, heretofore described. Thence I run, N. $89^{\circ} 58'$ West on a true line bet. secs. 16 and 21. Over mountainous land. Ascending. |
| 17.00 | Top of spur, slopes SE. Descend. |
| 12.00 | Wash, 15 lks. wide, course S. Ascend |

Subdivisions of Tp. 21 S., R. 10 E. (Continued).

| Chains. | |
|---------|--|
| 30.00 | Top of spur, slopes SW., descend. |
| 35.00 | Descend steeper. |
| 40.02 | Set a sandstone 18 x 10 x 6 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable; from which, A mesquite 10 ins. diam. brs. N. $85\frac{1}{2}^{\circ}$ E., 187 lks. dist., marked $\frac{1}{4}$ S 16 BT. No other trees within limits. |
| 43.40 | Gulch, 15 lks. wide, course SW. Ascend. |
| 48.25 | Wash, 150 lks. wide, (Amigo Wash) course SE. |
| 60.00 | Top of spur, brs. NE. and SW. Descend. |
| 66.15 | Wash, 40 lks. wide, course NE. Ascend. |
| 71.00 | Top, brs. N E. Descend. |
| 75.10 | Gulch, 10 lks. wide, course SE. Ascend. |
| 80.04 | Cor. of secs. 16, 17, 20 and 21. Land, mountainous. Soil, gravelly and rocky, 3rd and 4th rate. Timber, a few mesquite and tesota; undergrowth, mesquite and tesota. Land, mountainous, covered with dense undergrowth, or exceptionally difficult to survey, 80.04 chs. |
| ----- | |
| | S. $0^{\circ} 2'$ E. on a true line bet. secs. 20 and 21. Over mountainous land, descending, through mesquite and tesota undergrowth. |
| 7.00 | Gulch, 10 lks. wide, course SE. |
| 8.50 | Gulch, 10 lks. wide, course SE. |
| 10.20 | Gulch, 10 lks. wide, course SE. Ascend. |
| 13.50 | Top, brs. E. and W. descend. |
| 18.00 | Foot, gulch, 10 lks. wide, course SE. Ascend. |
| 20.00 | Top of spur, brs. E. and W. Descend. E. slope. |
| 28.50 | Foot; wash, 10 lks. wide, course SE. Ascend. |
| 31.50 | Top, brs. E. and W., and wash 30 lks. wide, course SE. |
| 35.50 | Wash, 30 lks. wide, course SE. Ascend. |
| 40.00 | Set a sandstone 18 x 8 x 5 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. |
| 43.00 | Top of spur; descend. E. slope. |
| 53.50 | Wash, 50 lks. wide, course SW., and foot of descent. |
| 60.20 | Gulch, 10 lks. wide, course NW. |
| 80.00 | Set a porphyry stone 18 x 10 x 6 ins., 12 ins. in the ground, for cor. of secs. 20, 21, 28 and 29, marked with 4 notches on E. and 2 notches on S. edges, and raise a mound of stone, 3 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable; from which, A tesota 3 ins. dia. brs. S. $23\frac{1}{2}^{\circ}$ E., 67 lks. dist., marked T 21 S R 10 E S 28 BT. A tesota 4 ins. dia. brs. S. 45° W., 27 lks. dist., marked T 21 S R 10 E S 29 BT. No other trees within limits. Land, mountainous. Soil, gravelly and rocky; 3rd and 4th rate. No timber; undergrowth, tesota and mesquite. Land, mountainous covered with dense undergrowth, or exceptionally difficult to survey, 80.00 chs. |
| ----- | |
| | At the cor. of secs. 20, 21, 28 and 29, just described, at 11h 44m. A.M. l.m.t. I set off $16^{\circ} 24'$ S., on the decl. arc, and observe the sun on the meridian; the resulting latitude is $31^{\circ} 35'$ N., which is about correct. Thence I run, S. $89^{\circ} 58'$ East on a random line bet. secs. 21 and 28. |
| 40.00 | Set temp. $\frac{1}{4}$ sec. cor. |
| 80.00 | Intersect N. and S. line 5 lks S. of corsecs. 21, 22, 27 and 28, heretofore described. Thence I run, West on a true line bet. secs. 21 and 28. Over mountainous land; descending. |
| 6.00 | Wash, 100 lks. wide, course SW. Ascend. |

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|---------|---|
| Chains. | |
| 8.75 | Wash, 15 lks. wide, course SW. |
| 20.00 | Top of spur, slopes S.W.; descend. |
| 38.50 | Wash, 15 lks. wide, course SW. |
| 40.00 | Set a porphyry stone 18 x 12 x 6 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.; from which, A mesquite 3 ins. dia. brs. S. 16° E., 95 lks. dist., marked $\frac{1}{4}$ S 28 BT. A mesquite 6 ins. dia. brs. N. $34\frac{1}{2}^{\circ}$ E., 119 lks. dist., marked $\frac{1}{4}$ S 21 BT. |
| | Ascend. |
| 43.45 | Road, brs. NE. and SW. |
| 45.40 | Fence (wire) brs. NE and SW. |
| 48.00 | Adobe house brs. 15.00 chs. S. |
| 49.00 | Adobe house brs. 2.00 chs. S. |
| 50.50 | Trail, brs. N. and S. |
| 51.63 | Wire fence brs. NE. and SW. |
| 58.00 | Enter dense tesota undergrowth. |
| 63.10 | Brush fence, brs. NE and SW. |
| 64.00 | Wash, 30 lks. wide, course NE. |
| 65.00 | Settlement of Arivaca bears South, 16.00 chs. |
| 68.40 | Trail, brs. NE. and SW. |
| 75.20 | Trail, brs. NE. and SW. |
| 77.55 | Wash, 50 lks. wide, course SW., Ascend. |
| 80.00 | Cor. of secs. 20, 21, 28 and 29. Land, mountainous and rolling. Soil, gravelly and stony; 3rd and 4th rate. Timber, a few mesquite and tesota; undergrowth, tesota and mesquite. Land, mountainous, covered with dense undergrowth, or exceptionally difficult to survey, 80.00 chs. November 8, 1907. |
| | ----- November 9 and 10: Inclement weather prevents work. ----- |
| | November 11, 1907. At the cor. of secs. 20, 21, 28 and 29, heretofore described, at 8h 45' A.M. l.m.t., I set off $31^{\circ} 35'$ N. on the lat. arc; $17^{\circ} 12'$ S. on the decl. arc, and determine a meridian with the solar. Thence I run, S. $0^{\circ} 2'$ E. on a true line bet. secs. 28 and 29. Over level and rolling land. Dense willow and tesota undergrowth. |
| 2. 70 | Wire fence, brs. NW, and SE. |
| 3.20 | Wash, 30 lks. wide, course SW. |
| 4.50 | Wire fence, brs. NE and SW. |
| 4.85 | Wire fence, brs. SW and NE. |
| 13.00 | Adobe house brs. E. about 6.00 chs. |
| 13.25 | Wire fence, brs. SW and NE. |
| 14.25 | Well, brs. 60 lks. E., and house brs. 10.00 chs. E. |
| 14.90 | Fence, brs. SE. and NW. Ascend. |
| 15.20 | Adobe houses about 6.00 chs., 7.00 chs., and 9.00 chs. east., respectively. |
| 15.20 | Road to Buenos Ayres, brs. NE. and SW. |
| 15.90 | Fence, NW and SE. |
| 17.70 | Well brs W. about 2.50 chs. Adobe house brs. E. about 2.00 chs. |
| 20.30 | Adobe house brs. E. about 5.00 chs. |
| 21.70 | Wire fence brs. NW, and SE. |
| 23.30 | Adobe house brs. E. about 15.00 chs. |
| 24.00 | Ditch, 15 lks. wide, course NW. |
| 25.50 | Arivaca Creek, 50 lks. wide, course NW. |
| 25.70 | Wire fence, brs. NW and SE. |
| 33.80 | Wire fence, brs. SW. and NE. Enter field. |
| 40.00 | Set a sandstone 18 x 10 x 8 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; dig pits 18 x 18 x 12 ins. N. and S. of cor. 3 ft. dist., and raise a mound of earth 3 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. |
| 49.80 | House about 10.00 chs. W. |

| Chains. | |
|---------|---|
| 51.80 | Wire fence, brs. NW and SE. |
| 52.00 | Road, brs. NW. and SE. |
| 52.25 | Adobe house brs. E. about 12.00 chs. |
| 52.60 | Adobe mill brs. E. about 20.00 chs. dist. |
| 57.00 | Adobe house brs. E. about 15.00 chs. |
| 60.60 | Ascend. |
| 78.60 | Top of spur, brs. N. and S., descend. |
| 80.00 | Set a sandstone 18 x 10 x 8 ins., 12 ins. in the ground for cor. of secs. 28, 29, 32 and 33, marked with 4 notches on E. and 1 notch on S. edges, and raise a mound of stone, 3 ft. base, 1½ ft. high, W. of cor. Pits impracticable. From which, A tesota 4 ins. dia. brs. S. 33¼° E., 231 lks. dist., marked T 21 S R 10 E S 33 BT. No other trees within limits. Land, level and rolling. Soil, gravelly and sandy; 1st, 2nd and 3rd rate. Timber, mesquite and willows; undergrowth, willows and tesota. Land covered with dense undergrowth 33.80 chs. |
| | ----- |
| | East on a random line bet. secs. 28 and 33. |
| 40.00 | Set temp. ¼ sec. cor. |
| 80.20 | Intersect N. and S. line at a point 23 lks. N. of cor. of secs. 27, 28, 33 and 34, heretofore described. Thence I run, N. 89° 50' W. on a true line bet. secs. 28 and 33. Over rolling and mountainous land. |
| 2.86 | Ravine 10 lks. wide, course NE. Ascend. |
| 6.86 | Top, brs. N. and S. Descend. |
| 21.00 | Wash, 30 lks. wide, course N.E. Ascend. |
| 27.00 | N.W. Bernard's house and ranch, bears about 45.00 chs. N. |
| 31.00 | Gulch, 10 lks. wide, course N. |
| 38.00 | Top of ridge, brs. N. and S. Descend. |
| 40.10 | Set a granite stone 18 x 8 x 5 ins., 12 ins. in the ground, for ¼ sec. cor., marked ¼ on N. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable. |
| 46.00 | Foot and ascend. |
| 49.00 | Top, brs. N. and S. Descend. |
| 51.00 | Foot. |
| 59.00 | Wire fence, brs. NW. and SE. |
| 65.00 | Road, brs. NE and SW. |
| 67.00 | Wash, 40 lks. wide, course NW. Ascend. |
| 68.40 | Road, brs. NW. and SE |
| 72.70 | Wire fence, Brs. NE. and SW. |
| 79.30 | Top of small ridge, brs. N. and S. |
| 80.20 | Cor. of secs. 28, 29, 32 and 33. Land, rolling and mountainous. Soil, gravelly; 2nd and 3rd rate. No timber; undergrowth, mesquite and tesota. Land, mountainous, or covered with dense undergrowth, or exceptionally difficult to survey, 51.00 chs. |
| | ----- |
| | At the cor. of secs. 28, 29, 32 and 33, heretofore described by me, at 11h 44m. A.M. l.m.t., I set off 17° 15' S., on the decl. arc, and observe the sun on the meridian; the resulting latitude is 31° 34' N., which is about correct. Thence I run, S. 0° 2' E. on a true line bet. secs. 32 and 33. Over rolling and mountainous land, through dense undergrowth. |
| 2.33 | Wire fence, brs. NW. and SE. |
| 2.60 | Trail, brs. NW. |
| 4.50 | Wash, 15 lks. wide, course NE. Ascend. |
| 9.60 | Top, brs. E. and W. Descend. |
| 27.45 | Wash, 10 lks. wide, course NE. Ascend. |
| 31.10 | Top, brs. E. and W. |
| 40.00 | Set a porphyry 18 x 10 x 6 ins., 12 ins. in the ground, for ¼ sec. cor., marked ¼ on W. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of |

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Chains.

46.00 cor. Pits impracticable.
 Descend.
 49.00 Road, brs. NW and SE.
 49.50 Wash, 15 lks. wide, course NW. Ascend.
 58.00 Top, brs. E. and W. Descend.
 69.00 Gulch, 10 lks. wide, course SE. Ascend.
 75.00 Top, brs. E. and W. Descend.
 79.82 Intersect S. bdy. of Tp. at a point 2.50 chs. W. of cor of secs. 4 and 5, T. 22 S., R. 10 E. heretofore described. Set a sandstone 18 x 10 x 8 ins., 12 ins. in the ground, for closing cor. of secs. 32 and 33, marked CC on N., with 4 grooves on E. and 2 grooves on W. faces, and raise a mound of stone, 3 ft. base, 1 1/2 ft. high, N. of cor. Pits impracticable.
 Land, mountainous and rolling.
 Soil, gravelly and rocky; 2nd and 3rd rate.
 Timber, a few mesquite; undergrowth, mesquite and tesota.
 Land, mountainous, covered with dense undergrowth, or exceptionally difficult to survey, 79.82 chs.
 November 11, 1907.

 November 12, 1907. At the cor. of secs. 5, 6, 7, and 8, heretofore described by me, at 8h 30m. A.M. l.m.t. I set off 31° 37 1/2' N. on the lat. arc; 17° 29' S. on the decl. arc; and determine a meridian with the solar.

Thence I run,
 N. 0° 2' W. on a true line bet. secs. 5 and 6.
 Over mountainous land; ascending.
 1.50 Top of spur, brs. E. and W. Descend.
 8.50 Dry wash, 10 lks. wide, course W. Ascend.
 10.60 Top of spur, brs. E. and W. Descend.
 11.50 Dry wash, 15 lks. wide, course SW. Ascend abruptly.
 22.00 Top of spur, brs. NW. and SE. Descend. E. slope.
 26.50 Dry wash, 10 lks. wide, course E.
 40.00 Set a quartzite rock 20 x 12 x 12 ins., 15 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable.
 40.12 Old mine assessment work; open cut.
 Descend along E. slope of high rocky ridge.
 54.40 Top of spur, brs. NE. 300 feet high.
 74.50 Dry wash, 15 lks. wide, course Northerly.
~~79.40~~ Intersect N. bdy. of Tp. (4th Standard Par. N.) at a point 10.60 chs. West of Standard cor. of secs. 31 and 32, heretofore described by me.
 79.60 Set a granite stone 21 x 12 x 8 ins., 16 ins. in the ground, for closing cor. of secs. 5 and 6, marked CC on S., with 5 grooves on E. and 1 groove on W. faces; and raise a mound of stone, 3 ft. base, 1 1/2 ft. high, S. of cor. Pits impracticable.
 Land, mountainous.
 Soil, rocky and gravelly; 3rd and 4th rate.
 No timber.
 Land, mountainous, or exceptionally difficult to survey, 79.40 chs.

 Heavy rains prevent further work this day.

 November 13, 1907: Rains prevent work today.

 November 14, 1907: At the cor. of secs. 5, 6, 7 and 8, heretofore described by me, at 8h 30m A.M. l.m.t., I set off 31° 37 1/2' N. on the lat. arc; 18° 01' S. on the decl. arc; and determine a meridian with the solar.

Thence I run,
 S. 0° 2' E. on a true line bet. secs. 7 and 8.
 Over mountainous land; descending; through dense mesquite tesota and ocotillo undergrowth.
 17.00 Wash, 20 lks. wide, course SW. Ascend.

Subdivisions of Tp. 21 S., R. 10 E. (Continued)

Chains.

- 22.00 Ridge, brs. NE and SW. Descend.
 32.00 Wash, 20 lks. wide, course SW. Ascend.
 34.00 Top, brs. E. and W. Descend.
 37.70 Wash, 30 lks. wide, course SW. Foot of descent.
 40.00 Set a sandstone 20 x 12 x 8 ins., 15 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
 41.50 Gulch, 5 lks. wide, course SW.
 43.00 Wash, 80 lks. wide, course SW. Ascend.
 53.50 Top, brs. NW. and SE. Descend.
 55.50 Gulch, 30 lks. wide, course NE. Ascend.
 61.00 Top of spur, brs. NW and SE. Descend. E. slope.
 66.35 Gulch, 20 lks. wide, course SW. Ascend.
 70.00 Top, brs. E. and W.
 77.00 Descend.
 80.00 Set a sandstone 18 x 6 x 6 ins., 12 ins. in the ground for cor. of secs. 7, 8, 17 and 18, marked with 5 notches on E. and 4 notches on S. edges and raise a mound of stone, 3 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
 Land, mountainous.
 Soil, gravelly and rocky; 3rd and 4th rate.
 Timber; mesquite and tesota; undergrowth, mesquite, tesota and ocotillo.
 Land, mountainous, covered with dense undergrowth, or exceptionally difficult to survey, 80.00 chs.
- East on a random line bet. secs. 8 and 17.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.06 Intersect N. and S. line at a point 9 lks. N. of cor. of secs. 8, 9, 16 and 17, heretofore described.
 Thence I run,
 N. $89^{\circ} 56'$ W. on a true line bet. secs. 8 and 17.
 Descending, over rocky mountainous land, along S. slope of ridge.
 3.00 Dry wash, 10 lks. wide, course SE.
 9.90 Dry wash, 10 lks. wide, course SW.
 12.80 Dry wash, 10 lks. wide, course S.
 18.40 Dry wash, 10 lks. wide, course S. Ascend spur.
 21.80 Top of spur, brs. N. and S. Descend.
 29.10 Dry wash, 10 lks. wide, course southerly.
 30.50 Dry wash, 15 lks. wide, course SE. Ascend spurs.
 40.03 Set a granite stone 21 x 10 x 8 ins., 16 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
 40.75 Top of spur, brs. N. and S. Descend.
 50.20 Gulch, 10 lks. wide, course S. Ascend.
 63.00 Ridge, brs. N. and S. Descend.
 72.00 Foot; gulch, 10 lks. wide, course S. Ascend.
 75.00 Top of ridge, brs. N. and S.
 80.06 Cor. of secs. 7, 8, 17 and 18.
 Land, mountainous.
 Soil, rocky and gravelly; 3rd and 4th rate.
 No timber; undergrowth, mesquite, tesota and ocotillo.
 Land, mountainous, covered with dense undergrowth, or exceptionally difficult to survey, 80.06 chs.
- At the cor. of secs. 7, 8, 17 and 18, heretofore described, at 11h 44m.A.M. 1.m.t., I set off $18^{\circ} 4'$ S. on the decl. arc; and observe the sun on the meridian, the resulting latitude is $31^{\circ} 37'$ N., on the lat. arc.
 Thence I run,
 West on a true line bet. secs. 7 and 18.
 Over mountainous land; descending.
 1.50 Ravine, 10 lks. wide, course SW. Ascend.
 10.00 Top of spur, brs. SW and NE. Descend. along N. slope Mtn.
 39.80 Shaft brs. N. 7.00 chs.
 40.00 Set a sandstone 18 x 8 x 6 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.

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For intersection of the Boundary M.C. 557-200-31

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|-------|--|
| 40.60 | Gulch, 10 lks. wide, course S. Ascend. |
| 45.00 | Ridge, brs. NE and SW. Descend. |
| 52.50 | Durazno Canon, 50 lks. wide, course S. Ascend. |
| 73.50 | Top of high, rocky ridge, brs. N. and S. Descend. |
| 77.92 | Intersect W. bdy. of Tp. at a point 3.90 chs. north of cor. of secs. 12 and 13, Tp. 21 S., R. 9 E., heretofore described by me. Set a porphyry 18 x 10 x 6 ins., 12 ins. in the ground for closing cor. of secs. 7 and 18, marked CC on E., with 2 grooves on N. and 4 grooves on S. faces; and raise a mound of stone, 3 ft. base, 1½ ft. high, E. of cor. Pits impracticable. Land, mountainous. Soil, rocky; 4th rate. Timber, a few mesquite. Land, mountainous, or exceptionally difficult to survey, 77.92 chs. November 14, 1907. |
| ----- | |
| | November 15, 1907: At the cor. of secs. 7, 8, 17 and 18, heretofore described, at 8h 40m A.M. l.m.t. I set off 31° 37' N., on the lat. arc; 18° 17' S., on the decl. arc, and determine a meridian with the solar. Thence I run, S. 0° 2' E. on a true line bet. secs. 17 and 18. Over mountainous land, ascending, through dense undergrowth of mesquite and tesota. |
| 5.60 | Gulch, 30 lks. wide, course SE. |
| 18.20 | Gulch, 30 lks. wide, course SW. |
| 25.00 | Top of spur, brs. SW and NE. Descend. |
| 38.00 | Alamito Canon, 30 lks. wide, course SW. Ascend. |
| 40.00 | Set a sandstone 18 x 8 x 6 ins., 12 ins. in the ground, for ¼ sec. cor., marked ¼ on W. face; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable; from which, An oak 18 ins. diam. brs. S. 84½° W., 628 lks. dist., marked ¼ S 18 BT. No other trees within limits. |
| 48.00 | Top, brs. NE. and SW. |
| 54.00 | Descend. |
| 65.00 | Gulch, 20 lks. wide, course SW. Ascend. |
| 70.00 | Top of ridge, brs. NE and SW. Descend. |
| 80.00 | Set a sandstone 18 x 10 x 6 ins., 12 ins. in the ground, for cor. of secs. 17, 18, 19 and 20, marked with 5 notches on the E. and 3 notches on S. edges; and raise a mound of stone, 3 ft. base, 1½ ft. high, W. of cor. Pits impracticable; from which, A mesquite 10 ins. dia. brs. S. 70° E., 159 lks. dist., marked T 21 S R 10 E S 20 BT. A mesquite 5 ins. dia. brs. S. 52½° W., 113 lks. dist., marked T 21 S R 10 E S 19 BT. A mesquite 3 ins. dia. brs. N. 32½° W., 57 lks. dist., marked T 21 S R 10 E S 18 BT. No other trees within limits. Land, mountainous. Soil, gravelly and rocky; 2nd; 3rd, and 4th rate. Timber, mesquite & oak; undergrowth, mesquite & tesota. Land, mountainous, covered with dense undergrowth, or exceptionally difficult to survey, 80.00 chs. |
| ----- | |
| | Thence I run, S. 89° 56' E. on a random line bet. secs. 17 and 20. |
| 40.00 | Set temp. ¼ sec. cor. |
| 80.05 | Intersect N. and S. line at a point 2 lks. S. of cor. of secs. 16, 17, 20 and 21, heretofore described. Thence I run, N. 89° 57' W. on a true line bet. secs. 17 and 20. Over mountainous land, ascending through mesquite timber and mesquite and tesota undergrowth. |
| 5.00 | Top of ridge, brs. NE and SW. Descend. |
| 12.45 | Gulch, 10 lks. wide, course SW. |
| 14.00 | Ascend N. slope. |

Subdivisions of Tp. 21 S., R. 10 E. (Continued).

Chains.

- 30.50 Top of ridge, brs. N. and S. Descend.
 - 38.50 Foot; gulch, 10 lks. wide, course SW. Ascend.
 - 40.02 Set a granite stone 18 x 10 x 6 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable; from which,
 - A mesquite 24 ins. dia. brs. S. 64° E., 86 lks. dist., marked $\frac{1}{4}$ S 20 BT.
 - No other trees within limits.
 - 42.75 Top, brs. E. and W. Descend.
 - 48.75 Gulch, 15 lks. wide, course SW. Ascend.
 - 54.60 Top, brs. NW. and SE. Descend.
 - 61.00 Gulch, 20 lks. wide, course SW. Ascend.
 - 65.00 Top and descend along N. slope.
 - 73.00 Foot; gulch, 10 lks. wide, course SW.
 - 75.00 Gulch, 40 lks. wide, course SE.
 - 79.40 Gulch, 10 lks. wide, course SW.
 - 80.05 Cor. of secs. 17, 18, 19 and 20.
 - Land, mountainous.
 - Soil, gravelly and rocky; 3rd and 4th rate.
 - Timber, a few mesquite and tesota; undergrowth, mesquite and tesota.
 - Land, mountainous, covered with dense undergrowth, or exceptionally difficult to survey, 80.05 chs.
-
- At the cor. of secs. 17, 18, 19 and 20, heretofore described: At 11h 45m. A.M. 1.m.t. I set off $18^{\circ} 20' S.$ on the decl. arc; and observe the sun on the meridian; the resulting latitude is $31^{\circ} 36' N.$, which is about correct. Thence I run,
 - West on a true line bet. secs. 18 and 19.
 - Over mountainous land, ascending; through dense mesquite and tesota undergrowth.
 - 3.75 Gulch, 10 lks. wide, course SE.
 - 6.75 Top, brs. N. and S. Descend.
 - 10.90 Gulch, 15 lks. wide, course SE. Ascend.
 - 12.00 Top, brs. NW and SE. Descend.
 - 19.00 Foot. House of William Earle brs. 58 chs. S.
 - 21.00 Shack, brs. 35 lks. S.
 - 23.00 Descend.
 - 27.00 Gulch, 20 lks. wide, course SW. Ascend.
 - 31.50 Miguel Egurrola's house brs. S. about 55 chs.
 - 32.00 Top, brs. NW and SE
 - 40.00 Set a limestone 18 x 10 x 6 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable; from which,
 - A mesquite 4 ins. dia. brs. N. 16° W., 35 lks. dist., marked $\frac{1}{4}$ S 18 BT.
 - No other trees within limits.
 - 41.40 Wash, 40 lks. wide, course SW. Ascend.
 - 45.00 Shack brs. 7.00 S.
 - 47.00 Arivaca Mill, brs. 4.00 chs. S.
 - 48.00 Top, brs. NW and SE. Descend.
 - 50.00 Pump house brs. S. 4.50 chs.
 - 55.00 Road to Buenos Ayres, brs. NW. and SE. Enter level land.
 - 61.54 Wire fence, brs. NW. and SE.
 - 65.00 Wash, 50 lks. wide, course SE.
 - 66.30 Wash, 100 lks. wide, course SE. Ascend.
 - 78.03 Intersect W. bdy. of Tp. at a point 4.06 chs. North of cor. of secs. 13 and 24, Tp. 21 S., R. 9 E., heretofore described.
 - Set a sandstone 20 x 12 x 8 ins., 15 ins. in the ground, for closing cor. of secs. 18 and 19, marked CC on E., with 3 notches on N. and S. faces, and raise a mound of stone, 3 ft. base, $1\frac{1}{2}$ ft. high, E. of cor. Pits impracticable.
 - Land, mountainous and level.
 - Soil, gravelly and rocky; 2nd and 3rd rate.
 - Timber, mesquite and tesota; undergrowth, mesquite and tesota.

At New Brunswick Min. Chains see page 31.
For instructions of Surveyor

Chains.

Land, mountainous, covered with dense undergrowth, or exceptionally difficult to survey, 55.00 chs.
November 15, 1907.

November 16, 1907. At the cor. of secs. 17, 18, 19 and 20, heretofore described, I set off $31^{\circ}36'N.$ on the lat. arc; $18^{\circ}32'S.$ on the decl. arc, and at 8h 30m A.M. l.m.t., determine a true meridian with the solar.

Thence I run,
S. $0^{\circ}2' E.$ on a true line bet. secs. 19 and 20.
Over mountainous and level land, through dense undergrowth; descending.

1.35 Gulch, 10 lks. wide, course SW.
4.10 Gulch, 10 lks. wide, course SW. Ascend.
6.00 Top, brs. NE and SW. Descend.
8.60 Gulch, 20 lks. wide, course SE. Ascend.
10.00 Gulch, 20 lks. wide, course SE.
14.00 Top of ridge, brs. NW and SE. Descend.
20.60 Gulch, 20 lks. wide, course SW.
21.50 Gulch, 20 lks. wide, course SW.
23.50 Gulch, 10 lks. wide, course SW. Ascend.
28.00 Top, brs. NE and SW. Descend.
29.80 Gulch, 10 lks. wide, course SW.
37.10 Wash, 20 lks. wide, course SW. Ascend.
39.50 Top, brs. NE and SW. Descend.
40.00 Set a granite stone 18 x 10 x 6 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.

Adobe house brs. E., 2.00 chs. dist.

Descend.

40.10 Road, brs. NE and SW.
40.20 Road to Buenos Ayres, brs. NW and SE.
Leave dense undergrowth.
49.15 Center of dug out, 1.00 chs. wide.
52.85 Enter Arivaca Creek, course NW.
Fraguita enters Arivaca Creek 3.00 chs. W.
53.65 Leave Arivaca Creek, course NW. ascend.
59.40 Brush fence, brs. NE and SW.
65.00 Wire fence, brs. NE. and SW.
69.00 Wire fence, brs. E. and W.
Enter dense undergrowth.
80.00 Set a porphyry stone 18 x 6 x 6 ins., 12 ins. in the ground, for cor. of secs. 19, 20, 29 and 30, marked with 5 notches on E. and 2 notches on S. edges; and raise a mound of stone, 3 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. From which,
A mesquite 12 ins. dia. brs. N. $51^{\circ} W.$, 24 lks. dist., marked T 21 S R 10 E S 19 BT.
No other trees within limits.

Land, mountainous and level.

Soil, gravelly and rocky; 1st and 3rd rate.

Timber, mesquite, tesota, elder and cottonwood; undergrowth, mesquite, and tesota.

Land, mountainous, covered with dense undergrowth, or exceptionally difficult to survey, 57.20 chs.

S. $89^{\circ}57' E.$ on a random line bet. secs. 20 and 29.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

80.08 Intersect N. and S. line at a point 2 lks. S. of cor. of secs. 20, 21, 28 and 29, heretofore described.

Thence I run,

N. $89^{\circ}58' W.$ on a true line bet. secs. 20 and 29.

Over level and mountainous land, through dense mesquite and tesota undergrowth.

5.86 Wire fence, brs. NW and SE.

8.50 Descend.

13.00 Wash, 30 lks. wide, course SW. Ascend.

16.80 Wash, 10 lks. wide, course SW.

20.90 Road to Buenos Ayres, brs. NW and SE.

Subdivisions of Tp. 21 S., R. 10 E. (Continued)

Chains.

- 21.20 Dr. Ball's house, brs. 3.00 chs. S.
 22.30 Road, brs. N. and S.
 25.30 Wash, 10 lks. wide, course SW. Ascend.
 34.24 Wire fence, brs. N. and S. Descend.
 38.00 Foot and enter plowed field.
 40.04 Set a granite stone 18 x 10 x 8 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, from which,
 A mesquite 8 ins. dia. brs. N. 40° E., 119 lks. dist marked $\frac{1}{4}$ S 20 BT.
 A cottonwood 12 ins. dia. brs. S. 41 $\frac{1}{2}$ ° E., 412 lks. dist., marked $\frac{1}{4}$ S 29 BT.
 40.50 F. Moreno's house, brs. 6.00 chs. N.
 43.50 Arivaca Creek, 60 lks. wide, course N.W.
 45.44 Road, brs. NW and SE.
 49.50 Road, brs. NW and SE.
 51.75 Wire fence, brs. NE and SW.
 58.15 Gulch, 10 lks. wide, course NW.
 63.00 Descend.
 65.70 Wash, 10 lks. wide, course NW. Ascend.
 74.00 Top, of North slope.
 80.08 Cor. of secs. 19, 20, 29 and 30.
 Land, level and mountainous.
 Soil, gravelly; 2nd and 3rd rate.
 Timber, mesquite and tesota, some cottonwood; undergrowth, mesquite, tesota.
 Dense undergrowth, 80.08 chs.
- Thence I run,
 West on a true line bet. secs. 19 and 30.
 Over rolling and mountainous land. Descending.
 3.00 Trail, brs. NE. and SW.
 4.00 Fraguita Wash, 100 lks. wide, course NW. Ascend.
 7.00 Trail, brs. N. and S.
 12.80 Wire fence, brs. SE and NW.
 13.10 Trail, brs. NW and SE.
 31.90 Trail, brs. NW and SE.
 36.50 Top, brs. SE. and NW. Descend
 39.00 Wash, 15 lks. wide, course NW.
 40.00 Set a porphyry stone 18 x 10 x 6 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.; from which,
 A mesquite 3 ins. diam. brs. N. 47° E., 33 lks. dist., marked $\frac{1}{4}$ S 19 BT.
 A mesquite 4 ins. diam. brs. S. 32° E., 45 lks. dist., marked $\frac{1}{4}$ S 30 BT.
 50.00 Descend gradually.
 51.74 Road, brs. NE. and SW.
 57.40 Gulch, 15 lks. wide, course NW. Ascend.
 58.50 Top, brs. E. and W. Descend.
 60.00 Wash, 100 lks. wide, course NE. Ascend.
 67.50 Top, of north slope.
 78.00 Intersect W. bdy. of TP. at a point 4.20 chs. North of cor. of secs. 24 and 25, T. 21 S., R. 9 E., heretofore described.
 Set a sandstone 20 x 12 x 8 ins., 15 ins. in the ground, for closing cor. of secs. 19 and 30, marked CC on E. with 4 grooves on N. and 2 grooves on S. faces, and raise a mound of stone, 3 ft. base, 1 $\frac{1}{2}$ ft. high, E. of cor. Pits impracticable.
 Land, rolling and mountainous.
 Soil, gravelly and rocky, 3rd and 4th rate.
 Timber, a few mesquite and tesota; undergrowth, dense willow, mesquite and tesota.
 Land, mountainous, covered with dense undergrowth, or exceptionally difficult to survey, 78.00 chs.
- At 11h 45m. A.M. l.m.t. at the cor. of secs. 19, 20, 29 and 30, heretofore described, I set off 18°35' S. on the decl. arc; and observe the sun on the meridian; the resulting latitude is 31° 35' N., which is correct.

Chains.

- Thence I run,
S. $0^{\circ} 2'$ E. on a true line bet. secs. 29 and 30.
Over mountainous land, ascending, through dense mesquite undergrowth.
- 14.50 Wash, 40 lks. wide, course NE.
16.20 Wash, 30 lks. wide, course NE. Ascend.
21.00 Top, brs. E. and W. Descend.
25.50 Draw, 2.00 chs. wide, course NE. Ascend.
30.00 Top, brs. E. and W. Descend.
35.00 Fraguita Wash, 1.50 chs. wide, course NW.
40.00 Set a sandstone 18 x 8 x 6 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.; from which,
A mesquite 4 ins. dia. brs. N. $31\frac{1}{4}^{\circ}$ W., 154 lks. dist., marked $\frac{1}{4}$ S 30 BT.
A mesquite 4 ins. dia. brs. N. $11\frac{1}{4}^{\circ}$ E., 178 lks. dist., marked $\frac{1}{4}$ S 29 BT.
- 57.00 Fraguita Wash, 2.00 chs. wide, course SE ascend.
63.00 Top, brs. E. and W. Descend.
67.00 Fraguita Wash, 2.00 chs. wide, course West. Ascend.
80.00 Set a porphyry stone 18 x 8 x 6 ins., 12 ins. in the ground, for cor. of secs. 29, 30, 31 and 32, marked with 5 notches on E. and 1 notch on S. edges; and raise a mound of stone, 3 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable; from which,
A tesota 5 ins. dia. brs. S. $15\frac{1}{4}^{\circ}$ W., 165 lks. dist., marked T 21 S R 10 E S 31 BT.
No other trees within limits.
- Land, mountainous.
Soil, gravelly and rocky; 3rd and 4th rate.
Timber, a few mesquite and tesota; undergrowth, dense mesquite.
Land, mountainous, covered with dense undergrowth, or exceptionally difficult to survey, 80.00 chs.
November 16, 1907.
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- November 17, 1907: At the cor. of secs. 29, 30, 31 and 32, at 8h 45m A.M., l.m.t., I set off $31^{\circ} 34'$ N., on the lat. arc; $18^{\circ} 47\frac{1}{2}'$ S. on the decl. arc, and determine a meridian with the solar.
- Thence I run,
S. $89^{\circ} 58'$ E. on a random line bet. secs. 29 and 32.
40.00 Set temp. $\frac{1}{4}$ sec. cor.
80.10 Intersect N. and S. line at a point 9 lks. N. of cor. of secs. 28, 29, 32 and 33, heretofore described.
- Thence I run,
N. $89^{\circ} 54'$ W. on a true line bet. secs. 29 and 32.
Over mountainous land. Ascending.
- 2.92 Wire fence, brs. NW. and SE.
3.10 Trail, brs. NW and SE.
15.00 Top, of N W. slope, Descend.
19.60 Foot; gulch, 10 lks. wide, course NW. Ascend.
31.50 Gulch, 15 lks. wide, course NE. Ascend.
40.05 Set a porphyry stone 18 x 8 x 6 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
- 45.00 Top, of north slope, descend.
49.50 Gulch, 10 lks. wide, course NW.
53.60 Gulch, 10 lks. wide, course NW. Ascend.
59.00 Top, brs. N. and S. Descend.
72.30 Gulch, 10 lks. wide, course NW. Ascend.
74.00 Top, brs. N. and S. Descend.
75.50 Wash, 125 lks. wide, course NW (Fraguita) ascend.
80.10 Cor. of secs. 29, 30, 31 and 32.
- Land, mountainous.
Soil, gravelly and rocky; 3rd and 4th rate.
Timber, mesquite.
Land, mountainous, or exceptionally difficult to survey, 80.10 chs.
-

Subdivisions of Tp. 21 S., R. 10 E. (continued)

Chains.

Thence I run
 West on a true line bet. secs. 30 and 31.
 Over mountainous land, through dense mesquite and
 tesota under growth.
 Ascending.

12.00 Top, brs. N. and S. Descend.
 14.00 Gulch, 10 lks. wide, course NE.
 15.30 Gulch, 10 lks. wide, course NW.
 22.50 Gulch, 10 lks. wide, course NW.
 23.95 Wash, 40 lks. wide, course NE. Ascend.
 26.20 Shaft, brs. South, 15 lks. dist. Sarita mine.
 26.30 Shaft brs. South, 35 lks. dist. Sarita mine.
 35.00 Top, of north slope. descend.
 40.00 Set a sandstone 18 x 12 x 10 ins., 12 ins. in the
 ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and
 raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of
 cor. Pits impracticable.

50.30 Wash, 10 lks. wide, course NW. Ascend.
 51.75 Wash, 10 lks. wide, course NW.
 55.60 Wash, 10 lks. wide, course NW.
 63.00 Top, brs. N. and S. Descend.
 65.60 Rocky gulch, 15 lks. wide, course NE. and ascend steep.
 72.00 Top and descend.
 77.93 Intersect W. bdy. of TP. at a point 3:90 chs. North
 of cor. of secs. 25 and 36, T. 21 S., R. 9 E., heretofore
 described.
 Set a granite stone 18 x 10 x 8 ins., 12 ins. in the
 ground, for closing cor. of secs. 30 and 31, marked
 CC on E. face, with 5 grooves on N. and 1 groove on S.
 faces, and raise a mound of stone, 3 ft. base, $1\frac{1}{2}$ ft.
 high, E. of cor. Pits impracticable.
 Land, mountainous.
 Soil, gravelly and rocky; 3rd and 4th rate.
 No timber.
 Land, mountainous, and exceptionally difficult to survey,
 77.93 chs.

 At the cor. of secs. 29, 30, 31 and 32, heretofore
 described, at 11h 45m. A.M. l.m.t., I set off $18^{\circ}50'S$
 on the decl. arc; and observe the sun on the meridian,
 the resulting latitude is $31^{\circ}34'N$, which is correct.
 Thence I run,
 S. $0^{\circ}2' E$. on a true line bet. secs. 31 and 32.
 Over mountainous land. Descending.

7.00 Foot; gulch, 10 lks. wide, course SE. Ascend.
 8.50 Top, brs. E. and W. Descend.
 10.60 Foot; ascend.
 12.60 Trail, brs. E. and W. Ascend.
 14.50 Top, brs. E. and W. Descend.
 15.20 Wash, 30 lks. wide, course NE.
 24.75 Gulch, 10 lks. wide, course NW. Ascend.
 27.50 Top and descend.
 31.50 Trail, brs. E. and W., Ascend.
 35.00 Top, brs. E. and W. Descend.
 40.00 Set a sandstone 18 x 8 x 6 ins., 12 ins. in the
 ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, and raise
 a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.;
 from which,
 A mesquite 6 ins. dia. brs. S. $72^{\circ} W$., 109 lks.
 dist., marked $\frac{1}{4}$ S 31 BT.
 A mesquite 8 ins. dia. brs. S. $12\frac{1}{2}^{\circ} E$., 100 lks.
 dist., marked $\frac{1}{4}$ S 32 BT.

40.50 Foot, Wash, 10 lks. wide, course E. Ascend.
 41.00 Top, brs. E. and W., descend.
 45.50 Top, E. and W., descend.
 48.30 Wash, 60 lks. wide, course SE. Ascend.
 54.00 Top of steep ridge, brs. E. and W. Descend.
 74.70 Gulch, 10 lks. wide, course NE.
 77.66 Foot. Ascend.
 78.00 Top, brs. E. and W. Descend.
 82.56 Intersect S. bdy. of Tp. at a point ~~4.00~~ ^{7.30 chs} chs. West
 of cor. of secs. 5 and 6, T. 22 S., R. 10 E., heretofore

Chains.

described.

Set a porphyry stone 18 x 18 x 12 ins., 12 ins. in the ground, for closing cor. of secs. 31 and 32, marked CC on N. with 5 grooves on E. and 1 groove on W. faces; and raise a mound of stone, 3 ft. base, 1½ ft. high, N. of cor. Pits impracticable.

Land, mountainous.

Soil, rocky; and gravelly, 3rd and 4th rate.

Timber, a few mesquite.

Land, mountainous, or exceptionally difficult to survey, 82.56 chs.

November 17, 1907.

GENERAL DESCRIPTION.

This township is principally mountainous. The soil is gravelly loam.

Arivaca Creek runs through the southern portion of the township and in a westerly direction. There is some fine land along this creek, which is being cultivated. There is considerable grazing land in this township, which affords abundance of food for cattle. There are a number of settlers along Arivaca Creek who have made many substantial improvements.

The old settlement of Arivaca is situated in the NW ¼ of sec. 28. There are also some mines in the NW. portion. The township in general is well watered by springs and live water, and by the Arivaca Creek.

The timber is oak, mesquite and tesota, some cottonwood along Arivaca Creek.

Philip Couzger

U. S. Deputy Surveyor.

For authority for red ink corrections

Per Deputy letter Nov 23 1908 & July 12 - 1909.

Closures

Field notes of closings of certain patented mining claims
Situating in Secs. 9, 17, 18, 19 and 20, in
Tp. 21 S., R. 10 E.

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From cor. of secs. 3, 4, 9 and 10 Tp. 21 S., R. 10 E.,
U.S.M.M. No. 4 brs. S. ~~69° 20'~~ W., ~~13.79~~ chs.

Cor. No. 6 May Queen Lode brs. D0'55W - 14.21 chs

From the cor. of secs. 16, 17, 20 and 21, Tp. 21 S., R.
10 E., as heretofore described,

I run,

N. 89° 57' W. on a true line bet secs. 17 and 20.

40.02 ~~1/2~~ sec. cor. bet 5-secs. 17 and 20, heretofore described.

43.59 Intersect line 5-6 of the Fair View Lode Survey No. 558
at a point from which cor. No. 5 bears N. 79° 54' E.,
2.60 chs., and cor. No. 6 brs. S. 79° 54' W., 20.12 chs.
dist.

Set a porphyry stone 18 x 8 x 5 ins., 12 ins. in
the ground, for closing cor., marked CC on the E. and
FV 558 on the W. ~~and~~ raise a mound of stones,
3 ft. base, 1 1/2 ft. high, E. of cor.

63.58 Intersect lines 2-6 of the Fair View Lode, Survey No.
558 and line 2-6 of the New Brunswick Lode, Survey No.
557, at a point from which cors. 6-6 of the Fair View
and New Brunswick Lodes, resp., br. S. 2° 56' E., 3.53
chs., and cors. 2-2 of the same lodes br. N. 2° 56' W.,
5.57 chs. dist.

80.05 To cor. of secs. 17, 18, 19 and 20, heretofore described.

From the cor. of secs. 7, 8, 17 and 18, Tp. 21 S., R. 10 E.,
heretofore described,

I run,

S. 0° 31' E. on a true line bet. secs. 17 and 18.

40.00 1/2 sec. cor. bet. secs. 17 and 18, heretofore described.

75.14 Intersect line 2-3 of the New Brunswick Lode, Survey No.
557, at a point from which cor. No. 3, brs. S. 87° 34' W.,
6.58 chs., and cor. No. 2 brs. N. 87° 34' E., 16.15 chs.

Set a porphyry 18 x 6 x 5 ins., 12 ins. in the
ground for closing cor., marked CC on N. and NB 557 on
S., and raise a mound of stone 2 ft. base 1 1/2 ft. high
N. of cor.

80.00 Cor. of secs. 17, 18, 19 and 20 heretofore described.

Thence I run,

S. 0° 3' E. on a true line bet. secs. 19 and 20.

4.23 Intersect line 5-6 of the New Brunswick Lode, Survey
No. 557, at a point from which cor. No. 5 brs. S. 87°
34' W., 6.12 chs. and cor. No. 6 brs. N. 87° 45' E.,
16.61 chs. dist.

Set a porphyry stone 18 x 8 x 6 ins., 12 ins. in the
ground, for closing cor., marked CC on S. and NB 557 on
N. ~~and~~ raise a mound of stones 2 ft. base 1 1/2 ft.
high, S. of cor.

40.00 1/2 sec. cor. bet. secs. 19 and 20, heretofore described.

From the cor. of secs. 17, 18, 19 and 20, heretofore
described,

I run,

West on a true line bet. secs. 18 and 19.

6.33 Intersect line 3-5 of the New Brunswick Lode, Survey No.
557, at a point from cor. No. 3, brs. N. 2° 56' W., 4.57 chs. and
cor. No. 5 brs. S. 2° 56' E., 4.52 chs.

Set a porphyry stone 18x6x5 ins., 12 ins. in the ground,
for closing corner, marked CC on W. and NB 557 on E. ~~and~~
raise a mound of stones, 2 ft. base, 1 1/2 ft. high,
W. of cor.

Chains

From the cor. of sects. 16, 17, 20 and 21, Tp. 21 S.,
R. 10 E.,
U. S. M. M. No. 5 brs. S. 45° 16' W., 35.22 chs.

December 26, 1907.

Philip Coulter
U. S. Deputy Surveyor

*For authority for red ink corrections
see Deputy's letter, Dec 8-1908.*

For FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

see subs. T. 20 A, R 11 E.

Book A.

LIST OF NAMES.

A list of the names of the individuals employed by _____

_____, 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 _____

showing the respective capacities in which they acted:

_____, Chainman.

_____, Chainman.

_____, Moundman.

_____, Moundman.

_____, Axman.

_____, Axman.

_____, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted _____

_____, United States Deputy Surveyor, in surveying all those parts or portions of the _____

_____ of the _____

_____ meridian, _____ of _____, 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 _____

_____, Chainman.

_____, Chainman.

_____, Moundman.

_____, Moundman.

_____, Axman.

_____, Axman.

_____, Flagman.

Subscribed and sworn to before me this _____

day of _____, 190 _____



For FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

see Subs. T. 20 S. R. 11 E. Book 2

I, _____, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from _____ United States Surveyor General for _____, bearing date of the _____ day of _____, 190 _____, 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 _____, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of _____

_____ of the _____ meridian, in the _____ of _____, 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 _____ and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

United States Deputy Surveyor.

Subscribed by said _____, and sworn to before me }
this _____ day of _____, 190 _____



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Ariz. Aug. 16, 1909

The foregoing field notes of the survey of *The subdivisional lines of T. 21 S. R. 10 E. of the Gila and Salt River Base and Meridian in the territory of Arizona.*

executed by *Philip Centzen, U.S. deputy Surveyor* under his contract No. *144*, dated *April 11th*, 1907, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Frank A. Ingalls
United States Surveyor General.

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

United States Surveyor General.