

Only

122

2078

BOOK 2078

FIELD NOTES

OF THE

2078

Resurvey of 3rd. Standard Parallel South,

2078

through Range 27 East.

And Survey of
Subdivisions of Township 15 South, Range 27 E.

2078

Of the Gila and Salt River Base & Meridian,

Arizona.

AS SURVEYED BY

Jesse B. Wright, United States Deputy Surveyor,

Under his Contract No. 145, dated April 15, 1907.

Survey commenced October 7, 1907, 190

Survey completed October 20, 1907, 190

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BOOK 2078

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For PRELIMINARY OATHS OF ASSISTANTS.
Reference is had to "B", Subs. T. 13 S., R. 12 E.

BOOK 2078

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 }



Resurvey of the 3rd Standard Parallel South, through Rs. 27 East.

chains.

Survey commenced October 7, 1907, and executed with a Young & Son light mountain transit No. 7492, with 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 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, July 15, 1907.

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 on Polaris, I proceed as follows:-

From the Standard cor. of Tps. 15 South, Rs. 27 and 28 East, latitude $32^{\circ} 4' 25''$ N., longitude $119^{\circ} 33' 19''$ W., I set off $32^{\circ} 4'$ N. on the lat. arc, and $5^{\circ} 17'$ S. on the decl. arc, and at 5h 30m 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 chs. N. of the cor.

At 6 1/2 p.m., by my watch, which is correct, I observe Polaris at eastern elongation, in accordance with the Manual of Instructions, and mark a point in the line thus determined, on a peg driven in the ground 5 chs. N. of my station.

October 7, 1907.

October 8, 1907. At 6h a.m., l.m.t., I lay off the azimuth of Polaris $1^{\circ} 24'$ to the west, and mark the meridian thus determined, by cutting a small groove in the stone set last night, on which the meridian coincides with the meridian determined by the solar. At 8h a.m., l.m.t., I set off $32^{\circ} 4'$ N. on the lat. arc, $5^{\circ} 34'$ 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 chs. N. of my station, which coincides with the meridian established by the Polaris observation.

The magnetic bearing of the true meridian at 8h 30m a.m., is N. 15° W., the angle thus determined gives the mag. decl. 15° E.

The 3rd standard parallel S., being an old line with practically all the corners destroyed, I resurvey the same.

From the standard cor. of Tps. 15 S., Rs. 27 and 28 E., which I find marked and witnessed as described by the Surveyor General, I run

West on the S. Bdy. of Sec. 36.

Over smooth and open land..

33.09

Clos. cor. of Tp. 16 S., R. 27 E. As described by the Surveyor General. Difference between measurements of 40.00 chs. by two sets of chainmen is 4 lks., position of middle point

By 1st set, 39.98 chs.

40.00

By 2nd set, 40.02 chs., the mean of which is Find old 1/4 sec. cor on line in badly delapidated condition, therefore I destroy same and

Set a quartz stone, 20 X 10 X 6 ins., 15 ins. in the ground, for 1/4 sec. cor., marked S C 1/4 on N., and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor. Pits impracticable.

63.00

Trail, brs. N. and S.

Resurvey of 3rd Standard Parallel South, through Rs. 27 East.

chains	
65.00	Draw, 30 lks. wide, course S., ascend gradually. Difference between measurements of 80.00 chs. by two sets of chainmen, is 4 lks., position of middle point By 1st set, 79.98 chs., By 2nd set, 80.02 chs., the mean of which is
80.00	No trace of old cor. found after diligent search. Set a quartz stone, 24 X 10 X 8 ins., 15 ins. in the ground, for standard cor. of secs. 35 and 36, marked S C on N., with 1 groove on the E. and 5 grooves on the W. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor. Pits impracticable. Land, rolling. Soil, sandy and gravelly; 2nd rate. No timber, undergrowth, oak.
17.80	----- West, along the S. Bdy. of sec 35. Over gently rolling land.
40.00	Trail, brs. N. and S. Difference between measurements of 40.00 chs., by two sets of chainmen is 6 lks., position of middle point By 1st set, 39.97 whs. By 2nd set, 40.03 chs., the mean of which is
40.00	No trace of old cor. found after diligent search. Set a quartz stone, 20 X 12 X 6 ins., 15 ins. in the ground, for stan. 1/4 sec. cor., marked S C 1/4 on N., and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor. Pits impracticable.
66.00	Draw, 2.00 chs. wide, course S. Difference between measurements of 80.00 chs. by two sets of chainmen is 6 lks., position of middle point By 1st set, 79.97 chs., By 2nd set, 80.03 chs., the mean of which is
80.00	Diligent search fails to disclose any trace of old cor. Set a quartz stone, 30 X 24 X 6 ins., 22 ins. in the ground, for stan. cor. of secs. 34 and 35, marked S C on N., with 2 grooves on E. and 4 grooves on W. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor. Pits impracticable. Land, rolling. Soil, gravelly, 2nd rate. No timber or undergrowth.
	----- West, along the S. Bdy. of sec. 34. Over rolling land.
40.00	Difference between measurements of 40.00 chs. by two sets of chainmen is 8 lks., position of middle point By 1st set, 39.96 chs., By 2nd set, 40.04 chs., the mean of which is
77.40	No trace of old cor. Set a quartz stone, 20 X 10 X 6 ins., 15 ins. in the ground, for stan. 1/4 sec. cor., marked S C 1/4 on N. face and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor. Pits impracticable.
78.00	Set a quartz stone, 30 X 24 X 6 ins., 22 ins. in the ground, for witness cor. to standard cor. of secs. 33 and 34, marked WCSC on N., with 3 grooves on E. and W. faces, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor. Pits impracticable.
80.00	Enter wash of main draw, course SE. Difference between measurements of 80.00 chs., by two sets of chainmen is 6 lks., position of middle point By 1st set, 79.97 chs., By 2nd set, 80.03 chs., the mean of which is
	No trace of old cor. found after diligent search.

Resurvey of 3rd Standard Parallel South, through Range 27 East.

chains

Point for cor. of secs. 33 and 34 falls in draw, impossible to establish.

Land, rolling.

Soil, sandy and gravelly; 2nd and 3rd rate.

No timber or undergrowth.

October 8: At noon, I set off 5° 39' N. on the decl. arc, and observe the sun on the meridian; the resulting lat. is 32° 4' N.

West, along the S. Bdy. of Sec. 33.

Over rollingland.

2.00 Main wash of draw, 1.00 ch wide, course SE.

5.50 Leave draw.

24.00 Trail, brs. NW. and SE.

32.50 Old road, brs. NE. and SW.

Difference between measurements of 40.00 chs. by twp sets of chainmen, is 8 lks., position of middle point

By 1st set, 39.96 chs.,

By 2nd set, 40.04 chs., the mean of which is

40.00 No trace of old cor. found after diligent search.

Set a quartz stone, 20 X 12 X 4 ins., 15 ins. in the ground, for stan. $\frac{1}{4}$ sec. cor., marked S C $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.

72.50 Trail, brs. NW and SE.

75.20 Trail, brs. NW and SE.

76.75 Trail, brs. N. and S.

Difference between measurements of 80.00 chs. by two sets of chainmen is 10 lks., position of middle point

By 1st set, 79.95 chs.,

By 2nd set, 80.05 chs., the mean of which is

80.00 No trace of old cor. found after diligent search.

Set a quartzite stone, 20 X 12 X 8 ins., 15 ins. in the ground, for stan. cor. of secs. 32 and 33, marked S C on N. with 4 grooves on the E. and 2 grooves on the W. and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.

Land, rolling.

Soil, sandy and gravelly; 2nd and 3rd rate.

No timber, or undergrowth.

West along the S. Bdy. of sec. 32.

Over rolling land.

39.55 Road, brs. NW. and SE.

Difference between measurements of 40.00 chs., by two sets of chainmen is 6 lks., position of middle point

By 1st set, 39.97 chs.,

By 2nd set, 40.03 chs., the mean of which is

40.00 No trace of old corner found after diligent search.

Set a quartz stone, 18 X 12 X 8 ins., 12 ins. in the ground, for stan. $\frac{1}{4}$ sec. cor., marked S C $\frac{1}{4}$ on N face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.

58.80 Road, brs. NW. and SE.

Difference bet. measurements of 80.00 chs., by two sets of chainmen is 4 lks., position of middle point,

By 1st set, 79.98 chs.,

By 2nd set, 80.02 chs., the mean of which is

80.00 No trace of old cor. found after diligent search.

Set a quartz stone, 20 X 18 X 6 ins., 15 ins. in the ground, for stan. cor. of secs. 31 and 32, marked S C on N. with 5 grooves on the E. and 1 groove on the W. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.

Resurvey of the 3rd Standard Parallel South, through Range 27 East.

chains

Land, rolling.

Soil, sandy; 2nd and 3rd rate.

No timber; undergrowth, mesquite.

-----c-----
West, along the south boundary of sec 31.

Over rolling land.

13.00 Wash, 1.00 ch. wide, course SSW.

40.00 Difference between measurements of 40.00 chs. by two sets
of chainmen is 4 lks., position of middle point

By 1st set, 39.98 chs.,

By 2nd set, 40.02 chs., the mean of which is

40.00 No trace of old cor. found after diligent search.

Set a quartz stone, 20 X 10 X 8 ins., 15 ins. in the

ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, andraise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of

cor. Pits impracticable.

Difference between measurements of 80.00 chs., by two

sets of chainmen is 8 lks., position of middle point

By 1st set, 79.96 chs.,

By 2nd set, 80.04 chs., the mean of which is

80.00 Remains of old cor. found in delapidated condition, which

~~I destroy and~~~~Set a ^{quartz} stone 24 X 12 X 10 ins 18 ins~~~~stone, 24 ins. in the ground, for stan. cor. of Tps.~~~~15 S., Rs. 26 and 27 East, marked~~~~S C # 15 S on N.,~~~~R 27 E S 31 on E.,~~~~R 26 E S 36 on W., face, with 6 grooves on N. E. and~~~~W. faces; dig pits, 30 X 24 X 12 ins., crosswise on~~~~each line, E. and W. 4 ft., and N. of post, 8 ft. dist;~~~~and raise a mound of earth, 8 ft. base, $2\frac{1}{2}$ ft. high,~~~~N. of cor.~~

Land, rolling.

Soil, sandy; 2nd rate.

No timber; undergrowth, pine and mesquite.

October 8, 1907.

Subdivision of Township 15 South, Range 27 East.

chains

October 11, 1907. At 7h a.m., l.m.t., I set off 6° 40' S. on the decl. arc, and 32° 4' N. on the lat. arc, and determine a true meridian with the solar at the cor. of secs. 34 and 35, on the S. Bdy. of Tp. Thence I run, N. 0° 1' W., on a true line, bet. secs. 35 and 36. Over smooth and open land.

8.78
40.00 Road, brs. NW and SE.
Set a limestone, 20 X 10 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.

80.00 Set a limestone, 20 X 8 X 4 ins., 15 ins. in the ground, for cor. of secs. 25, 26, 35 and 36, marked with 1 notch on S. and E. faces, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
Land, smooth and open.
Soil, sandy and gravelly; 2nd and 3rd rate.
No timber;

40.00 East on a random line bet. secs. 25 and 36.
79.98 Intersect the E. Bdy. of Tp. at a point 5 lks. S. of cor. of secs. 25, 30, 31 and 36.
Thence I run,
S. 89° 58' W. on a true line bet. secs. 25 and 36. Ascending gradually over smooth ground.

39.99 Set a limestone, 20 X 15 X 4 ins., 15 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.

40.80 Grassy marsh. 2.00 chs. wide, course SSW.
79.98 The cor. of secs. 25, 26, 35 and 36.
Land, smooth.
Soil, gravelly; 2nd and 3rd rate.
No timber.

40.00 North, 0° 1' W., bet. secs. 25 and 26.
Over smooth land.
Set a limestone, 20 X 15 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.

80.00 Set a granite stone, 20 X 10 X 8 ins., 15 ins. in the ground, for cor. of secs. 23, 24, 25 and 26, marked with 2 notches on the S. and 1 notch on the E. edge, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
Land, smooth.
Soil, gravelly; 2nd and 3rd rate.
No timber.

October 11, 1907, At noon, I set off 6° 47' N. on the decl. arc, and observe the sun on the meridian; the resulting lat. is 32° 6' N. ✓

40.00 N. 89° 58' E. on a random line bet. secs. 24 and 25.
80.00 Set temp. $\frac{1}{4}$ sec. cor.
Intersect the E. Bdy. of Tp. at the cor. of secs. 19, 24, 25 and 30.
Thence I run,
S. 89° 58' W. on a true line bet. secs 24 and 25.
Over rolling land.

14.00 Marsh, 3.00 chs. wide, course S. Ascend gradually.
25.00 Grassy marsh, 50 lks. wide, course S.

Subdivision of Township 15 South, Range 27 East.

chains

25.55
27.35
40 00

Telephone line, brs. SE. and NW.
Road, brs. Se. and NW., Dos Cabezos to Chiricahua
Set a sandstone, 20 X 12 X 8 ins., 15 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.

80.00

The cor. of secs. 23, 24, 25 and 26.
Land, smooth.
Soil, gravelly; 2nd and 3rd rate.
No timber; undergrowth, mesquite.

N. 0° 1' W., bet. secs. 23 and 24.
Over level land.

40.00

Set a limestone, 20 X 10 X 6 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.

47.00

Dry wash, 80 lks. wide, course SW.

60.00

Road, brs. NW. and SE.

80.00

Set a quartz stone, 20 X 8 X 4 ins., 15 ins. in the
ground, for cor. of secs. 13, 14, 23 and 24, marked
with 3 notches on the S. and 1 notch on the E. edge,
and raise a mound of stone, 2 ft. base, 1 1/2 ft. high,
W. of cor. Pits impracticable.

Land, level.
Soil, sandy and gravelly; 2nd rate.
No timber or undergrowth.

40.00

N. 89° 58' E. on a random line bet. secs. 13 and 24.
Set temp. 1/4 sec. cor.

79.96

Intersect the E. Bdy. of Tp. at a point 5 lks. N. of
cor. of secs. 13, 18, 19 and 24.

Thence I run,
West, on a true line, bet. secs. 13 and 24.
Over rolling land.

31.00

Marsh, 5.00 chs. wide, course S.

39.98

Set a limestone, 20 X 16 X 6 ins., 15 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.

47.80

Main trail, brs. N. and S.

79.96

The cor. of secs. 13, 14, 23 and 24.
Land, rolling.
Soil, sandy and gravelly; 2nd and 3rd rate.
No timber or undergrowth.

N. 0° 1' W., bet. secs. 13 and 14.
Ascending gradually over rollingland.

3.00

Wash, 30 lks. wide, course SW.

40.00

Set a quartz stone, 20 X 12 X 6 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.

80.00

Set a quartz stone, 20 X 10 X 8 ins., 15 ins. in the
ground, for cor. of secs. 11, 12, 13 and 14, marked
with 4 notches on the S. and 1 notch on the E. edge,
and raise a mound of stone, 2 ft. base, 1 1/2 ft. high,
W. of cor. Pits impracticable.

Land, rolling.
Soil, sandy; 2nd and 3rd rate.
No timber or undergrowth.

Subdivision of Township 15 South, Range 27 East.

chains East, on a random line bet. secs. 12 and 13.
40.00 Set temp. $\frac{1}{4}$ sec. cor.
80.00 Intersect the E. Bdy. of Tp. at a point 5 lks. N. of cor. of secs. 7, 12, 13 and 18.
Thence I run,
N. $89^{\circ} 58'$ W. on a true line bet. secs. 12 and 13.
Descending gradually over rolling land.
22.00 Wash, 20 lks. wide, in valley 3.00 chs. wide, course S,
32.00 Old road, brs. N. and S.
40.00 Set a limestone, 20 X 10 X 8 ins., 15 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.
80.00 The cor. of secs. 11, 12, 13 and 14.
Land, rolling.
Soil, sandy and stony; 2nd and 3rd rate.
No timber.

N. $0^{\circ} 1'$ W., bet. secs. 11 and 12.
Ascending gradually over mountainous land.
40.00 Top of ridge, brs. E. and W.
Point for $\frac{1}{4}$ sec. cor. falls on granite stone in place, 20 X 8 X 4 ins., above ground, marked with a cross(x) for exact sec. cor. point, with $\frac{1}{4}$ W. of cross and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of stone. Pits impracticable.
This mound of stone falls in cactus bed.
46.00 Descend over rocks.
48.50 Fence of Rigg's pasture, brs. E. and W. ^w
Water tank and windmill of Mogul ranch brs. ~~A~~. 2.00
chs. dist. (JOHN RIGGS PLACE)
54.00 Wash, 20 lks. wide, course SW.
80.00 Set a conglomerate stone, 30 X 20 X 15 ins., 22 ins. in the ground, for cor. of secs. 1, 2, 11 and 12, marked with 5 notches on the S. and 1 notch on the E. edge, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
Land, mountainous.
Soil, sandy and stony; 2nd and 3rd rate.
No timber; undergrowth, sword cactus.
Mountainous land, 80.00 chs.
October 11, 1907.

October 12, 1907. At 7h a.m., l.m.t., I set off $7^{\circ} 32'$ S. on the decl. arc, and $32^{\circ} 9'$ N. on the lat. arc, and determine a true meridian with the solar at the cor. of secs. 1, 2, 11, and 12.
Thence I run,
S. $89^{\circ} 58'$ E. on a random line, bet. secs. 1 and 12.
40.00 Set temp. $\frac{1}{4}$ sec. cor.
80.10 Intersect the E. Bdy. of Tp. at a point 5 lks. S. of cor. of secs. 1, 6, 7 and 12.
Thence I run,
West, on a true line bet. secs. 1 and 12.
Over rolling land,
10.00 Wash, 20 lks. wide, course SSW.
32.00 Wash, 1.00 ch wide, course SSW.
40.05 Set a conglomerate stone, 30 X 20 X 10 ins., 22 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.
56.00 Trail, brs. N. and S.
56.50 Dray, 4.00 chs. wide, course S.
60.75 Fence, Riggs' Pasture, brs. N. and S.
64.00 Telephone line, brs. NW. and SE.

Subdivision of Township 15 South, Range 27 East.

chains	Wash, 1.00 ch. wide, course SE.
64.50	The cor. of secs. 1, 2, 11 and 12.
80.10	Land, rolling. Soil, sandy and rocky; 2rd and 3rd rate. No timber; undergrowth, cacti.

	N. 0° 1' W. bet. secs. 1 and 2.
40.00	Over rolling land.
74.00	Telephone line, brs. NW and SE.
18.50	Fence, Riggs' pasture, brs. E. and W.
21.00	Road, Brs. E. and W.
23.75	Road, brs. E. and W.
40.00	Set a conglomerate stone, 40 X 20 X 10 ins., 30 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.
60.00	Top of low ridge, extends E. and W., descend.
70.00	Draw, 10.00 chs. wide, course SW.
75.90	Intersect the S. bdy. of Tp. 14 S., R. 27 E. at a point 295 lks. W. of cor. of secs. 35 and 36. <i>THIS POINT IS PREVIOUSLY DESCRIBED BY ME.</i>
	At point of intersection I set a granite stone, 24 X 10 X 8 ins., 18 ins. in the ground, for clos. cor. to secs. 1 and 2, Tp. 15 S., R. 27 E., marked C C on S., with 1 groove on E. and 5 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, rolling. Soil, sandy and gravelly; 2nd rate. No timber; undergrowth, cacti.

	N. 0° 1' W., bet. secs. 34 and 35, from the S. Bdy of Tp.
40.00	Over level and open land. <i>QUARTZITE STONE 20 X 10 X 8 INS</i> Set a post, 4 ft. long, 3 ins. sq., with marked stone, <i>15</i> 24 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ S 36 on W. and 35 on W. face; dig pits, 18 X 18 X 12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth, <i>STONE</i> $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
50.00	Old road, Brs. NW. and SE.
80.00	Set a granite stone, 20 X 10 X 8 ins., 15 ins. in the ground, for cor. of secs. 26, 27, 34 and 35., marked W with 1 notch on the S. and 2 notches on the E. edge, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
	Land, level. Soil, sandy and gravelly; 2nd and 3rd rate. No timber; undergrowth, cacti.

	East, on a random line, bet. secs. 26 and 35.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.00	Intersect the N. and S. line at the cor. of secs. 25, 26, 35 and 36. Thence I run, West on a true line, bet. secs. 26 and 35.
40.00	Ascending very gradually over rolling land. Set a sandstone, 20 X 10 X 8 ins., 15 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.
80.00	The cor. of secs. 26, 27, 34 and 35. Land, rolling. Soil, sandy and gravelly; 2nd and 3rd rate. No timber; undergrowth, cacti.

Subdivision of Township 15 South, Range 27 East.

chains	October 12: At noon I set off 7° 10' N. on the decl. arc, and observe the sun on the meridian; the resulting lat. is 32° 5' N.
	N. 0° 1' W. bet. sedes. 26 and 27. Over level and open land.
31.00	Main Creek, 2.00 chs. wide, course SW.
40.00	Set a stone ^{quartz} stone, 27 X 10 X 8 ins., with marked stone, 18 X 24 ins. in the ground, for 1/4 sec. cor., marked 1/4 on E. and 27 on W. face; dig pits, 18 X 18 X 12 ins., N. and S. of post 3 ft. dist., and raise a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.
69.00	Dry creek, 150 lks. wide, course SW.
80.00	Set a quartz stone, 30 X 16 X 4 ins., 22 ins. in the ground, for cor. of secs. 22, 23, 26 and 27, marked with 2 notches on the S. and E. edges; and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable. Land, rolling. Soil, sandy and gravelly; 2nd and 3rd rate. No timber; undergrowth, cacti.

	East, on a random line, bet. secs. 23 and 26.
40.00	Set temp. 1/4 sec. cor.
80.00	Intersect the N. and S. line at a point 2 lks. S. of cor. of secs. 23, 24, 25 and 26. Thence I run, S. 89° 59' W., on a true line, bet. secs. 23 and 26, ascending gradually over rolling land.
38.00	Wash, 50 lks. wide, course SSW.
40.00	Set a quartz stone, 20 X 12 X 10 ins., 15 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, W. of cor. Pits impracticable.
65.00	Wash, 20 lks. wide, course SW.
80.00	The cor. of secs. 22, 23, 26 and 27. Land, rolling. Soil, gravelly; 2nd and 3rd rate. No timber; undergrowth, cacti.

	N. 0° 1' W., bet. secs. 22 and 23. Over rolling land.
40.00	Set a quartz stone, 20 X 6 X 4 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.
80.00	Set a quartz stone, 30 X 16 X 4 ins., 22 ins. in the ground, for cor. of secs. 14, 15, 22 and 23, marked with 3 notches on the S. and 2 notches on the E. edge, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable. Land, rolling. Soil, gravelly; 2nd and 3rd rate. No timber; undergrowth, cacti.
	October 12, 1907.

	October 13, 1907. At 7h a.m., l.m.t., I set off 7° 26' on the decl. arc, and 32° 7' N. on the lat. arc, and determine a true meridian with the solar at the cor. of secs. 14, 15, 22 and 23.
	Thence I run, N. 89° 59' E. on a random line bet. secs. 14 and 23.
40.00	Set temp. 1/4 sec. cor.
80.04	Intersect the n. and S. line at a point 2 lks. N. of cor. of secs. 13, 14, 23 and 24. Thence I run, West, on a true line bet. secs. 14 and 23. Descending gradually over rolling land.
3.00	Wash, course SW.

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BOOK 2078
Subdivision of Township 15 South, Range 27 East.

chains
15.00 Road, brs. NW. and SE.
40.02 Set a granite stone, 20 X 12 X 6 ins., 15 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.

75.00 Grassy draw, 30 lks. wide, course SW.
80.04 The cor. of secs. 14, 15, 22 and 23.
Land, rolling.
Soil, sandy and gravelly; 2nd and 3rd rate.
No timber; undergrowth, mesquite.

N. 0° 1' W. bet. secs. 14 and 15.
Over mountainous land.

30.00 Draw, 2,00 chs. wide, course SW.
40.00 Set a granite stone, 20 X 10 X 8 ins., 15 ins. in the ground, 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.

70.00 Road, brs. NW. and SE.
80.00 Set a limestone, 20 X 10 X 8 ins., 15 ins. in the ground, for cor. of secs. 10, 11, 14 and 15, marked with 4 notches on the S. and 2 notches on the E. edge, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
Land, mountainous.
Soil, sandy and gravelly, 2nd and 3rd rate.
No timber; undergrowth, mesquite.
Mountainous land, exceptionally difficult to survey,
80.00 chs.

N. 89° 58' E. on a random line bet. secs. 11 and 14.
40.00 Set temp. $\frac{1}{4}$ sec. cor.
80.08 Intersect the N. and S. line at a point 5 lks. N. of the cor. of secs. 11, 12, 13 and 14.
Thence I run,
West, on a true line, bet. secs. 11 and 14.
Over rolling land.

25.00 Draw, 1.00 ch. wide, course SW.
40.04 Set a limestone, 20 X 10 X 8 ins., 15 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, W. of cor. Pits impracticable.

61.50 Wash, 10 lks. wide, course SW.
65.70 Telephone line, brs. SE. and NW.
67.00 Wash, 10.00 lks. wide, course S.
80.08 The cor. of secs. 10, 11, 14 and 15.
Land, rolling.
Soil, sandy. 2nd and 3rd rate.
No timber; undergrowth, mesquite.
October 13; At noon, I set. off 7° ~~32'~~^{33'} N. on the decl. arc, and observe the sun on the meridian; the resulting lat. is 32° 8' N. ✓

N. 0° 1' W. bet. secs. 10 and 11.
Ascending over mountainous land.

17.00 Telephone line, brs. SE. and NW.
22.00 Wash, 75 lks. wide, course SW.
24.65 Pasture fence, J. J. Riggs, brs. NE. and SW.
40.00 Set a limestone, 20 X 10 X 6 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.

Subdivision of Township 15 South, Range 27 East.

chains

68.00

80.00

Top of butte, extends E. and W.; descend.
 Set a quartzite stone, 24 X 10 X 6 ins., 18 ins. in the ground, for cor. of secs. 2, 3, 10 and 11, marked with 5 notches on the S. and 2 notches on the E. and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.
 Land, mountainous.
 Soil, sandy and stony; 2nd rate.
 No timber; undergrowth, mesquite.
 Mountainous land, exceptionally difficult to survey, 80.00 chs.

40.00

80.10

 East, on a random line, bet. secs. 2 and 11.
 Set temp. ¼ sec. cor.
 Intersect the N. and S. line at the cor. point of secs. 1, 2, 11 and 12.

10.00

15.00

Thence I run,
 West, on a true line bet. secs. 2 and 11.
 Over mountainous land.
 Pasture fence, J. J. Riggs, brs. N. and S.
 Road, J. Riggs ranch to Dos Cabezos, brs. N. and S.
 Top of ridge, extends SW. and NE.

39.00

40.05

Wash, 1.00 ch. wide, course S.
 Set a conglomerate stone, 30 X 20 X 10 ins., 22 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.

51.50

60.00

69.00

80.10

Pasture fence, J. J. Riggs, brs. N. and S.
 Gulch, 30 lks. wide, course S.; thence ascend steeply.
 Top of ridge, extends SE. and NW; descend.
 The cor. of secs. 2, 3, 10 and 11.
 Land, mountainous.
 Soil, sandy; 2nd rate.
 Timber, scattering mesquite; undergrowth, mesquite.
 Mountainous land, exceptionally difficult to survey, 80.10 chs.

7.00

20.00

39.00

40.00

 N. 0° 1' W. on a true line bet. secs. 2 and 3.
 Over mountainous land.

Top of ridge, extends E. and W. Descend.
 Pasture fence, J. J. Riggs, brs. E. and W.
 Foot of slope.

Set a quartz stone, 30 X 16 X 10 ins., 22 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.

42.00

76.00

Main gulch, 4.00 chs. wide, course SW. This gulch flows by ranch of J. J. Riggs on W. side of house
 Intersect the S. Bdy. of Tp. 14 S., R. 27 E. at a point 290 lks. W. of cor. of secs. 34 and 35. *THIS POINT previously described by me.*
 granite stone, 24 X 10 X 8 ins., 18 ins. in the ground, for closing cor. to secs. 2 and 3, marked C C on S. with 2 grooves on E. and 4 grooves on W. faces, and raise a mound of stone, 2 ft. base, 1½ ft. high, S. of cor. Pits impracticable.

Land, mountainous.
 Soil, sandy and stony; 2nd and 3rd rate.
 No timber; undergrowth, mesquite.
 Mountainous land, exceptionally difficult to survey, 76.00 chs.

October 13, 1907.

 October 14, 1907. At 7h a.m., l.m.t. I set off 7° 48' ✓
 S. on the decl. arc, and 32° 4' N. on the lat. arc, and determine a true meridian with the solar at the cor. ^{point} of secs. 33 and 34, on the S. Bdy. of Tp.
 Thence I run

748

135

Subdivision of Township 15 South, Range 27 East.

chains	
	N. 0° 2' W. bet. secs. 33 and 34. Ascending very gradually through open land.
17.70	Wash, 20 lks. wide, course SW.
31.00	Dry wash, 3.00 chs. wide, course SW.
40.00	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 W. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
80.00	Set a quartz stone, 30 X 15 X 10 ins., 22 ins. in the ground, for cor. of secs. 27, 28, 33 and 34, marked with 1 notch on the S. and 3 notches on the E. edge, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
	Land, level and open. Soil, sandy and gravelly; 2nd and 3rd rate. No timber; undergrowth, mesquite.

	East on a random line bet. secs. 27 and 34.
40.00	Set temp $\frac{1}{4}$ sec. cor.
80.16	Intersect the N. and S. line at a point ¹⁵ X lks. ¹¹ S. of cor. of secs. 26, 27, 34 and 35.
	Thence I run, S 71° 89' 54" W. on a true line bet. secs. 27 and 34. Over rolling land.
40.07 40.04	Set a limestone, 20 X 12 X 4 ins., 15 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.
50.50	Wash, 40 lks. wide, course S.
80.06 80.10	The cor. of secs. 27, 28, 33 and 34. Land, open. Soil, sandy; 2nd and 3rd rate. No timber; undergrowth, mesquite.

	N. 0° 2' W. bet. secs. 27 and 28.
	Over gently rolling land.
40.00	Set a quartz stone, 24 X 8 X 6 ins., 18 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	Set a quartz stone, 24 X 8 X 6 ins., 18 ins. in the ground, for cor. of secs. 21, 22, 27 and 28, marked with 2 notches on the S. and 3 notches on the E. edge, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
	Land, level and open. Soil, sandy; 2nd and 3rd rate. No timber; undergrowth, mesquite.

	N. 89° 59' E. on a random line bet. secs. 22 and 27.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.00	Intersect the N. and S. line at a point 2 lks. N. of cor. of secs. 22, 23, 26 and 27.
	Thence I run, West on a true line bet. secs. 22 and 27. Over rolling land.
10.00	Dray, 1.00 ch. wide, course SW.; ascend.
18.00	Top of low ridge, extends N. and S.; descend.
40.00	Set a granite stone, 24 X 15 X 10 ins., 18 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.
51.70	Main wash, 2.00 chs. wide, course SW.

8010

Subdivision of Township 15 South, Range 27 East.

chains	
80.00	The cor. of secs. 21, 22, 27 and 28. Land, rolling. Soil, sandy and gravelly; 2nd and 3rd rate. No timber; undergrowth, mesquite. October 14: at noon, I set off 7° 55' N. on the decl. arc, and observe the sun on the meridian; the resulting lat. is 32° 6' N. ✓

	N. 10° 2' W. bet. secs. 21 and 22. Over heavily rolling land.
30.00	Draw, 2.00 chs. wide, course SW.
40.00	Set a granite stone, 20 X 12 X 6 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.
55.00	Draw, 50 lks. wide, course SW.
80.00	Set a quartz stone, 30 X 10 X 6 ins., 22 ins. in the ground, for cor. of secs. 15, 16, 21 and 22, marked 15 S. on NE., and 27 E. on SE. face, with 3 notches on S. and E. edges, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
	Land, rolling. Soil, sandy and gravelly; 2nd and 3rd rate. No timber; undergrowth, mesquite

	East, on a random line bet. secs. 15 and 22.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.00	Intersect the N. and S. line at a point 5 lks. N. of cor. of secs. 14, 15, 22 and 23. Thence I run, N. 89° 58' W. on a true line bet. secs. 15 and 22. Over mountainous land.
40.00	Set a quartz stone, 20 X 10 X 6 ins., 15 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.
70.00	Draw, 50 lks. wide, course SW.
76.00	Top of low ridge; extends SW. and NE.
80.00	The cor. of secs. 15, 16, 21 and 22. Land, mountainous. Soil, sandy and gravelly; 2nd and 3rd rate. No timber; undergrowth, mesquite. Mountainous land, 80.00 chs.

	N. 0° 2' W. bet. secs. 15 and 16. Over heavily rolling land.
6.00	Draw, 150 lks. wide, course SW.
32.00	Top of low ridge, extends NE. and SW.
40.00	Set a granite stone, 30 X 16 X 10 ins., 22 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	Wash, 20 lks. wide, course SW.
53.00	Wash, 20 lks. wide, course NE. Ascend.
80.00	Set a quartz stone, 24 X 14 X 8 ins., 18 ins. in the ground, for cor. of secs. 9, 10, 15 and 16, marked with 4 notches on the S. and 3 notches on the E. edge and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Land, Heavily rolling. Soil, sandy; 2nd and 3rd rate. No timber; undergrowth, mesquite.
	October 14, 1907.

Subdivision of Township 15 South, Range 27 East.

chains

October 15, 1907. At 7h a.m., l.m.t., I set off $810'$ S. on the decl. arc and $32^{\circ} 8'$ N. on the lat. arc, and determine a true meridian with the solar at the cor. of secs. 9, 10, 15 and 16.

Thence I run,

S89° 58' E on a random line, bet. secs. 10 and 15.

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

80.00 Intersect the N. and S. line at a point 5 lks. S. of secs. 10, 11, 14 and 15.

Thence I run,

West, on a true line bet. secs. 10 and 15.

Over mountainous land.

5.00 Dry wash, 80 lks. wide, course SW. W.

18.00 Point on low ridge, extends S.

21.00 Road, Riggs ranch in draw, 80.00 lks. wide, course SE.

32.00 Top of ridge; extends N. and S.

40.00 Set a sandstone, 24 X 10 X 10 ins., 18 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 low ridge, extends N. and S.

49.50 Draw, 10 lks. wide, course S.

57.00 Trail on top of ridge; brs. N. and S.

64.50 Head of draw, course S.

77.00 Top of ridge, extends S.

80.00 The cor. of secs. 9, 10, 15 and 16.

Land, mountainous.

Soil, 2nd and 3rd rate.

No timber; undergrowth, greasewood and mesquite.

Mountainous land, exceptionally difficult to survey,

80.00 chs.

N. $0^{\circ} 2'$ W. bet. secs. 9 and 10.

Over mountainous land.

22.00 Wash, 3.00 chs. wide, course SW.

30.00 Fence, brs. E. and W., pasture J. J. Riggs.

40.00 Set a quartz stone, 24 X 18 X 10 ins., 18 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.

50.00 Head of draw, course SW.

80.00 Set a quartz stone, 40 X 20 X 8 ins., 30 ins. in the ground, for cor. of secs. 3, 4, 9 and 10, marked with 5 notches on the S. and 3 notches on the E. edge, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.

Land, mountainous.

Soil, sandy and gravelly; 2nd and 3rd rate.

No timber, undergrowth, mesquite.

Mountainous land, exceptionally difficult to survey,

80.00 chs.

East, on a random line bet. secs. 3 and 10.

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

80.00 Intersect the N. and S. line at the cor. point of secs. 2, 3, 10 and 11.

Thence I run,

West on a true line bet. secs. 3 and 10.

Over mountainous land.

12.00 Telephone line, brs. NW. and SE.

26.50 Fence, J. J. Riggs pasture, brs. N. and S. House of J. J. Riggs brs. N. 20.00 chs. dist.

27.00 Draw, 3.00 chs. wide, course S.

Subdivision of Township 15 South, Range 27 East. BOOK 2078

chains	
31.50	Road between ranches, brs. N. and S.
32.00	Fence, brs. N. and S.; ascend.
40.00	Top of ridge, extends S. Set a limestone, 30 X 20 X 8 ins., 22 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.
54.75	Wash, 10 lks. wide, course SSE.
56.50	Wash, 40 lks. wide, course SSE; ascend.
60.00	Top of ridge, extends N. and S., from which top of main ridge brs. N. 30 chs. dist.
68.00	Wash, 40 lks. wide, course S.; ascend.
80.00	Top of ridge, extends N. and S. the cor. of secs. 3, 4, 9 and 10. Land, mountainous. Soil, sandy and gravelly, 2nd and 3rd rate. No timber; undergrowth, mesquite. Mountainous land, exceptionally difficult to survey, 80.00 chs.

	N. 0° 2' W., bet. secs. 3 and 4. Ascending over mountainous land.
10.00	Top of ridge; extends N. and S.
26.00	Wash, 1.00 ch. wide, course W.
40.00	Set a limestone, 40 X 20 X 10 ins., 30 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.
42.00	Rocky ridge, extends E. and W.
46.00	High ridge, extends E. and W.
60.00	Fence, brs. NE. and SW.
64.00	Wash, 3 0 0 chs. wide, course SW.
66.00	W.M. RIGGS HOUSE, E. 3 W. 2 0 0 CHS.
70.00	Wash, 1.00 ch. wide, course E.
74.00	Wash, 1.00 ch. wide, course SE.
76.10	Intersect the S. bdy. of Tp. 14. S., R. 27 E. at a point 285 lks. W. of cor. of secs. 33 and 34. <i>THIS R. 27 E. previously described by me.</i> Set a conglomerate stone, 30 X 10 X 10 ins., 22 ins in the ground, for closing cor. of secs. 3 and 4, marked C C on S. face, with 3 grooves on E. and 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, sandy and gravelly and stony; 2nd and 3rd rate. No timber, undergrowth, mesquite. Mountainous land, exceptionally difficult to survey, 76.10 chs. October 15: At noon, I set off 8° 10' ^{17'} N. on the decl. arc and observe the sun on the meridian : the resulting lat. is 32° 10' N. ✓

	N. 0° 2' W. bet. secs. 32 and 33, from the S. Bdy. of Tp. Along slightly rolling land.
40.00	Set a quartz stone, 30 X 10 X 8 ins., 22 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.
73.00	Draw, 20 lks. wide, course SW.
80.00	Set a quartz stone, 30 X 10 X 8 ins., 22 ins. in the ground, for the cor. of secs. 28, 29, 32 and 33, marked with 1 notch on the S. and 4 notches on the E. edge, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Land, rolling and open. Soil, sandy; 2nd and 3rd rate. No timber; undergrowth, mesquite.

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BOOK 2078

Subdivision of Township 15 South, Range 28 East.

chains

40.00 East on a random bet. secs. 28 and 33.
 Set temp. $\frac{1}{4}$ secc. or.
 79.92 Intersect the N. and S. line at a point 10 ~~10~~ lks. ~~2~~
 80.08 of cor. of secs. 27, 28, 33 and 34.
 Thence I run
~~39.96~~ ~~40.02~~ ~~72.00~~ ~~79.92~~ ~~80.08~~
 N $89^{\circ} 56'$ W. on a true line bet. secs. 28 and 33.
 Over gently rolling land.
 Set a quartz stone, 24 X 10 X 8 ins., 18 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.
 Wash, course SW. impracticable.
 The cor. of secs. 28, 29, 32 and 33.
 Land, level and open.
 Soil, sandy; 2nd and 3rd rate.
 No timber; undergrowth, mesquite.

 N. $0^{\circ} 2'$ W. bet. secs. 28 and 29.
 Over level land.
 40.00 Set a ~~mesquite~~ ^{QUARTZ STONE} ~~stone~~, 5 ft. long, 3 ins. sq., with
 marked stone, 24 ins. in the ground, for $\frac{1}{4}$ sec.
 cor., marked $\frac{1}{4}$ ~~S 29~~ on W. face and 28 on E. face,
 dig pits, 18 X 18 X 12 ins., N. and S. of post,
 2 ft. dist., and raise a mound of earth, ~~3~~ ^{STONE} $\frac{1}{2}$ ft. base,
 $1\frac{1}{2}$ ft. high, W. of cor.
 80.00 Set a quartz stone, 24 X 10 X 6 ins., 18 ins. in the
 ground, for cor. of secs. 20, 21, 28 and 29, marked
 with 2 notches on the S. and 4 notches on the E. edge,
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high
 W. of cor. Pits impracticable.
 Land, open and level.
 Soil, sandy; 2nd and 3rd rate.
 No timber; undergrowth, mesquite

October 15, 1907.

 October 16, 1907. At 7h a.m., 1.m.t., I set off $8^{\circ} 32'$
 S , on the decl. arc and $32^{\circ} 6'$ N. on the lat. arc
 and determine a true meridian with the solar at
 the cor. of secs. 20, 21, 28 and 29.

Thence I run,
 N $89^{\circ} 58'$ E. bet. secs. 21 and 28, on random line.
 40.00 Set temp. $\frac{1}{4}$ sec cor.
 80.00 Intersect the N. and S. line at the cor. point of
 secs. 21, 22, 27 and 28.
 Thence I run,
 S. $89^{\circ} 58'$ W. on a true line bet. secs. 21 and 28.
 Over level and open land.
 40.00 Set a quartz stone, 24 X 10 X 8 ins., 18 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.
 60.00 Draw, 2.0 0 chs. wide, course SW.
 80.00 The cor. of secs. 20, 21, 28 and 29.
 Land, open and level.
 Soil, sandy; 2nd and 3rd rate.
 No timber; undergrowth, mesquite.

Subdivision of Township 15 South, Range 27 East.

chains	N. 0° 2' W. bet. secs. 20 and 21. Over level and open land.
40.00	Set a limestone, 20 X 10 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.
66.00	Sandy wash, 4.00 chs wide, course SSE.
77.90	Set a quartz stone, 30 X 20 X 20 ins., 22 ins. in the ground for witness cor. to cor. of secs. 16, 17, 20 and 21, marked with on W. face, with 3 notches on the S and 4 notches on the E. edge, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable.
78.00	
80.00	Point for cor. of secs. 16, 17, 20 and 21 falls in wash, 50 lks. wide, course SSW. Land, level. Soil, sandy and stony; 2nd and 3rd rate. No timber; undergrowth, mesquite.
	From point for cor. of secs. 16, 17, 20 and 21, I run,
40.00	N. 89° 58' E. on a random line bet. secs. 16 and 21.
80.00	Set temp. 1/4 sec. cor. Intersect the N. and S. line at a point 5 lks. N. of cor. of secs. 15, 16, 21 and 22.
	Thence I run, west on a true line bet. secs. 16 and 21.
29.00	Over level land.
40.00	Wash, in draw, 2.00 chs. wide, course S. Set a quartz stone, 24 X 10 X 8 ins., 18 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.
70.00	Wash, 10 lks. wide, course S.
80.00	The cor. point of secs. 16m 17 , 20 and 21. Land, level. Soil, sandy; 2nd and 3rd rate; No timber; undergrowth, mesquite. 40' October 16, At noon, I set. off 8° 41' N. on the decl. arc, and observe the sun on the meridian; the resulting lat is 32° 7' N. ✓

	N. 0° 2' W. bet. secs. 16 and 17. Running through the center of wash.
18.00	Leave wash.
24.00	Same wash, 20 lks. wide, course SE.
34.00	Wash, 2.00 chs. wide, course SW.
40.00	Set a limestone, 20 X 12 X 10 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.
	Ascend.
60.00	Begin steep ascent.
74.00	Top of spur, extends N and S.
80.00	Set a limestone, 20 X 10 X 8 ins., 15 ins. in the ground, for cor. of secs. 8, 9, 16 and 17, marked with 4 notches on the S. and E. edges, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable. Land, rolling and mountainous. Soil, sandy and rocky; 2nd and 3rd rate. No timber; undergrowth, mesquite. Mountainous land, 40.00 chs.

Subdivision of Township 15 South, Range 27 East.

chains 789° 56' E
 40.00 East on a random line bet. secs. 9 and 16.
 Set temp. $\frac{1}{4}$ sec. cor.
~~80.00~~ Intersect the N. and S. line at a point 15 lks. ⁿ of
 80.12 cor. of secs. 9, 10, 15 and 16.
 Thence I run,
 789° 58' W. on a true line bet. secs. 9 and 16.
 Descending gradually over mountainous land.
 20.00 Along S. slope of mountain.
~~40.00~~ Set a granite stone, 20 X 10 X 16 ins., 15 ins. in the
 40.06 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.
 43.00 Enter main wash, 10 chs. wide. course SSW.
 48.00 Center of main wash.
 53.90 Top of bank. Ascend.
 62.00 Top of ridge, bears SE. and NW. Descend.
 69.00 Draw, course SSW.
~~80.00~~ The cor. of secs. 8, 9, 16 and 17.
 80.12 Land, mountainous.
 Soil, sandy; 3rd rate.
 No timber; undergrowth, mesquite.
 Mountainous land, exceptionally difficult to survey,
~~80.00~~ ch. 80.12 chs.

 N. 0° 2' W. bet. secs. 8 and 9.
 Ascending gradually over mountainous land.
 37.00 Begin ascent along E. side of low ridge.
 40.00 Set a granite stone, 20 X 10 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.
 80.00 Set a quartz stone, 20 X 12 X 10 ins., 15 ins. in the
 ground for cor. of secs 4, 5, 8 and 9, marked with
 5 notches on the S. and 4 notches on the E. edge, and
 raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W.
 of cor. Pits impracticable.
 Land, mountainous
 Soil, sandy and rocky; 3rd rate.
 No timber; undergrowth, mesquite.
 Mountainous land, exceptionally difficult to survey,
 80.00 chs.

October 16, 1907.

 October 17, 1907. At 7h a.m., 1.1m. t, I set off 8° 54'
 S, on the decl. arc and 32° 9' N. on the lat.
 arc and determine the true meridian with the solar at
 the cor. of secs. 4, 5, 8 and 9.

Thence I run,
 N 89° 58' E. on a random line bet. secs. 4 and 9.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
~~80.00~~ Intersect the N. and S. line at the ^{15 lks. S. of the cor} point of secs.
 80.20 3, 4, 9 and 10.
 Thence I run,
 S. 89° 56' W. on a true line bet. secs. 4 and 9.
 Ascending over mountainous land.
 21.00 Fence, brs. N. and S.
 23.00 Wash, 3.00 chs. wide, course S.
 26.00 Wash, 1.00 chs. wide, course SE. Ascend.

Subdivision of Township 15 South, Range 27 East.

chains	
40.00 40.10	Set a limestone, 24 X 10 X 8 ins., 18 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, extends N. and S.
70.00	Fence, brs. N. and S., Waughtal's pasture.
71.50	Draw, 2.00 chs. wide, course S.
80.00 80.20	The cor. of secs. 4, 5, 8 and 9. Land, mountainous. Soil, sandy; 2nd and 3rd rate. No timber; undergrowth, mesquite. Mountainous land, 80.00 chs.

	N. 0° 2' W. bet. secs. 4 and 5. Ascending over mountainous land.
26.00	Wash, 2.00 chs. wide, course SW.
32.50	Trail, brs. NE. and SW.
40.00	Set a quartz stone, 20 X 10 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.
60.00	Begin steep ascent.
72.00	Top of rocky spur, extends E.
76.00 75.80	Main ridge, extends E. and W. Intersect the S. Bdy. of Tp. 14 S., R. 27 E. at a point 295 lks. W. of cor. of secs. 32 and 33, ^{T1A5R27E previously described by me.}
	Set a granite stone, 30 X 24 X 10 ins., 22 ins. in the ground for closing cor. of secs. 4, and 5, marked C C on S. face, with 2 grooves on W. and 4 grooves on E. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable. Land, mountainous. Soil, sandy and stony 2nd and 3rd rate. No timber; undergrowth, mesquite. Mountainous land, exceptionally difficult to survey, 76.00 chs.

	N. 0° 3' W. bet. secs. 31 and 32 from the S. Bdy. of Tp.
16.00	Ascending gradually over level and open land.
25.60	Wash, 2.00 chs. wide, course SW.
40.00	Road, Wilcox to Chiricahua, brs. SE. and NW.
	Set a granite stone, 20 X 10 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.
80.00	Set a sandstone, 20 X 8 X 8 ins., 15 ins. in the ground, for cor. of secs. 29, 30, 31 and 32, marked with 1 notch on the S. and 5 notches on the E. edge, and raise a mound of syone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Land, level. Soil, sandy; 2nd rate. No timber; undergrowth, mesquite. October 17, 1907. At noon, I set off 90° $\frac{2}{8}$ ' S., on the decl. arc, and observe the sun on the meridian, the resulting lat. is 32° 5' N. ✓

	East, on a random line bet. secs. 29 and 32.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.00	Intersect the N. and S. line at the cor. point of secs. 28, 29, 32 and 33. Thence I run, West on a true line bet. secs. 29 and 32.

Subdivision of Township 15 South, Range 27 East

chains	Over level and open land.
40.00	Set a quartz stone, 20 X 10 X 8 ins., 15 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.
80.00	The cor. of secs. 29, 30, 31 and 32. Land, level and open. Soil, sandy; 2nd and 3rd rate. No timber; undergrowth, mesquite.

40.00	West on a random line bet. secs. 30 and 31.
80.02 80.08	Set temp. $\frac{1}{4}$ sec. cor. Intersect the W. Bdy. of Tp. at a point 5 chs. N. of cor. of secs. 25, 30, 31 and 36. Thence I run, N. 89° 58' E. on a true line bet. secs. 30 and 31. Ascending very gradually over level land.
40.02 40.08	Set a quartzite stone, 40 X 10 X 8 ins., 30 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.
80.02 80.08	The cor. of secs. 29, 30, 31 and 32. Land, level. Soil, sandy and gravelly; 2nd and 3rd rate. No timber; undergrowth, mesquite.

	N. 0° 3' W. bet. secs. 29 and 30. Descending gradually over level land.
40.00	Set a granite stone, 20 X 12 X 10 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.
51.90	Wash, 10 lks. wide, course SW.
80.00	Set a limestone, 20 X 10 X 8 ins., 15 ins. in the ground, for cor. of secs. 19, 20, 29 and 30, marked with 2 notches on the S. and 5 notches on the E. edge, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Land, level. Soil, sandy and gravelly; 2nd and 3rd rate. No timber; undergrowth, mesquite.
	October 17, 1907.

	October 18, 1907. At 7h a.m., l.m.t., I set off 9°16' S. on the decl. arc and 32° 6' N. on the lat. arc, and determine a true meridian with the solar at the cor. of secs. 19, 20, 29 and 30.
	Thence I run East on a random line bet. secs. 20 and 29.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.92	Intersect the N. and S. line at a point 5 lks. S. of cor. of secs. 20, 21, 28 and 29. Thence I run, S. 89° 58' W. on a true line bet. secs. 20 and 29.
39.96	Over level and open land. 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.
65.00	Wash, 10 lks. wide, course SW.
79.92	The cor. of secs. 19, 20, 29 and 30. Land, level. Soil, sandy and gravelly; 2nd and 3rd rate. No timber; undergrowth; mesquite.

Subdivision of Township 15 South, Range 27 East.

chains
40.00 S. 89° 58' W. on a random line bet. secs. 19 and 30.
~~89.00~~ Set temp. $\frac{1}{4}$ sec. cor.
~~80.10~~ Intersect the W. Bdy of Tp. at a point 5 lks. ^N of
cor. of secs. 19, 24, 25 and 30.
Thence I run,
~~187.36~~ East on a true line bet. secs. 19 and 30.
Over level and open land.
40.00 Set a ^{QUARTZITE STONE} ~~mesquite~~ ^{24 X 10 X 8 IN.} stake, 3 ft. long, 3 ins. sq., with
~~40.70~~ marked stone, 18 ins. in the ground, for $\frac{1}{4}$ sec. cor.
marked $\frac{1}{4}$ S 19 on N and S 30 on S face, ~~dig pits~~
~~18 X 18 X 18 ins., E and W. of post, 5 ft. dist., and~~
raise a mound of ~~earth~~ ^{stone}, $\frac{3}{4}$ ft. base, $1\frac{1}{2}$ ft. high, N.
of cor.
~~80.00~~ The cor. of secs. 19, 20, 29 and 30.
~~80.10~~ Land, level.
Soil, sandy and gravelly; 2nd and 3rd rate.
No timber; undergrowth, mesquite.

40.00 N. 0° 3' W. bet. secs. 19 and 20.
Ascending gradually over rolling land.
Set a limestone, 20 X 10 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.
57.80 Wash, 50 lks. wide, course WSW.
71.75 Draw, 70 lks. wide, course SW.
80.00 Set a conglomerate stone, 20 X 10 X 6 ins., 15 ins.
in the ground, for cor. of secs. 17, 18, 19 and 20,
marked with 3 notches on the S. and 5 notches on the
E. edge, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$
ft high, W. of cor. Pits impracticable.
Land, rolling.
Soil, sandy and gravelly; 2nd and 3rd rate.
No timber; undergrowth, mesquite.
October 18: At noon, I set off 9° ~~26'~~ ^{24'} N. on the decl.
arc, and observe the sun on the meridian; the
resulting lat. is 32° 7' N. ✓

40.00 N. 89° 58' E. on a random line bet. secs. 17 and 20.
Set temp $\frac{1}{4}$ sec. cor.
~~79.96~~ Intersect the N. and S. line at a point 5 lks. ^S of
~~80.20~~ cor. of secs. 16, 17, 20 and 21.
Thence I run,
~~582.56 W~~ West on a true line bet. secs. 17 and 20.
Descending gradually over rolling land.
~~50.98~~ Set a limestone, 20 X 6 X 6 ins., 15 ins. in the
~~40.10~~ 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.
69.00 Head of draw, course SW.
~~79.96~~ The cor. of secs. 17, 18, 19 and 20.
~~80.20~~ Land, rolling.
Soil, sandy and gravelly, 2nd and 3rd rate.
No timber; undergrowth, mesquite.

~~589.56 W~~ West on a random line bet. secs. 18 and 19.
40.00 Set temp $\frac{1}{4}$ sec. cor.
~~79.98~~ Intersect the W. Bdy. of Tp. at a point 5 lks. N.
~~80.16~~ of cor. of secs. 13, 18, 19 and 24.
Thence I run,

Subdivision of Township 15 South, Range 27 East.

chains	N. 89° ⁵⁴ 58 ' E. on a true line bet. secs. 18 and 19. Ascending gradually over level land.
39.98 40.16	Set a mesquite post ^{24 X 10 X 12 IN.} , 3 ft. long, 3 ins. sq., with marked stone, 24 ins. in the ground, for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ S 18 on N. and S 19 on S. face; dig pits, 18 X 18 X 12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, 3 ² ft. base, $1\frac{1}{2}$ ft. high, N. of cor. <i>STONE 2</i>
60.00	Along S. side of wash.
79.98 80.16	The cor. of secs. 17, 18, 19 and 20. Land, level. Soil, sandy and gravelly; 2nd and 3rd rate. No timber; undergrowth, mesquite.

	N. 0° 3' W., bet secs. 17 and 18. Over rolling land.
21.00	Dry wash, 180 lks. wide, course WSW. Ascend gradually.
40.00	Set a quartz stone, 24 X 10 X 8 ins., 18 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, and raise a mound of tone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
62.00	Draw, 20 lks. wide, course SW.
74.00	Top of ridge, extends SW. and NE.
79.50	Draw, 20 lks. wide, course WSW.
80.00	Set a granite stone, 24 X 15 X 10 ins., 18 ins. in the ground, for cor. of secs. 7, 8, 17 and 18, marked with 4 notches on the S. and 5 notches on the E. edge, 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 and gravelly; 2nd and 3rd rate. No timber; undergrowth, mesquite. Mountainous land, 180 chv.
	October 18, 1907.

	October 19: At 7h a.m., l.m.t., I set off 9° 38' ✓ S. on the decl. arc and 32° 8' E. on the lat. arc and determine a true meridian with the solar at the cor. of secs. 7, 8, 17 and 18.
	Thence I run,
40.00	East ²² on a random line bet. secs. 8 and 17.
79.98 80.30	Set temp $\frac{1}{4}$ sec. cor. Intersect the N. and S. line at a point X ²² lks. S. of cor. of secs. 8, 9, 16 and 17.
	Thence I run,
	S. 89° 47 ' W. on a true line bet. secs. 8 and 17. Over mountainous land.
5.00	Head of draw, course S.
10.00	Top of ridge, extends N. and S. Descend.
16.00	Head of draw, course S. Ascend.
22.00	Top of ridge, extends SW. and NE. Descend.
33.00	Wash, 30 lks. wide, course SW.
39.99 40.15	Set a malapais stone, 24 X 12 X 10 ins., 18 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.
50.00	Wash, 1.00 ch. wide, course S. Ascend.
53.00	Top of ridge, extends SW. and NE.; descend.
59.00	Wash, 30 lks. wide, course SSW. Ascend.
65.00	Top of low ridge, extends SW. and NE. Descend.
70.00	Head of draw, course SW. Ascend.
74.00	Ridge, edtends SW. and NE. Descend.
79.20	Gulch, 20 lks. wide, course SW.

Subdivision of Township 15 South, Range 27 East.

chains
~~79.98~~
 80.30
 The cor. of secs. 7, 8, 17 and 18.
 Land, mountainous.
 Soil, gravelly and stony; 3rd and 4th rate.
 No timber; undergrowth, mesquite.
 Mountainous land, exceptionally difficult to survey,
 79.98 chs.

 40.00
~~79.96~~
 80.18
 S. 89° 58' W. on a random line bet. secs. 7 and 18.
 Set temp $\frac{1}{4}$ sec. cor.
 Intersect the W. Bdy of Twp at a point ²² ~~X~~ lks. ~~X~~
 of cor. of secs. 7, 12, 13 and 18.
 Thence I run,
 S. 78° 58' E. on a true line bet. secs. 7 and 18.
 Over level land.
~~59.96~~
 40.18
 Set a ~~mesquite~~ ^{QUARTZITE STONE} post, ~~3 ft. long, 3 ins. sq.,~~ ^{20 X 12 X 8 INS.} with
 marked ~~stone,~~ ¹⁵ ins. in the ground, for $\frac{1}{4}$ sec. cor.
 marked $\frac{1}{4}$ S ~~X~~ on N. and S 18 on S. face; ~~dig pits,~~
 18 X 18 X 12 ins., E. and W. of post, 3 ft. dist.,
 and raise a mound of earth, ~~2~~ ² ft. base, 1 $\frac{1}{2}$ ft. high,
 N. of cor. ^{STONE}
 60.00
 70.00
~~79.96~~
 80.18
 Running parallel to wash, 30 lks. N. of line.
 Leave wash to N.
 The cor. of secs. 7, 8, 17 and 18.
 Land, level.
 Soil, sandy; 2nd and 3rd rate.
 No timber; undergrowth, mesquite.
 October 19: At noon, I set off 9° ⁴⁶ ~~47~~' N. on the
 decl. arc, and observe the sun on the meridian; the
 resulting lat. is 32° 8' N. ✓

 22.00
 40.00
 N. 0° 3' W. bet. secs. 7 and 8.
 Ascending over mountainous land.
 Top of low ridge, extends SW. and NE.
 Set a granite stone, 20 X 14 X 6 ins., ¹⁵ ~~18~~ 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 W. slope of ridge, along broken land.
 Set a limestone, 30 X 12 X 10 ins., 22 ins. in the
 ground, for cor. of secs. 5, 6, 7 and 8, marked with
 5 notches on S. and E. edges, and raise a mound of
 stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Pits
 impracticable.
 Land, mountainous and broken
 Soil, sandy and stony; 3rd rate.
 No timber; undergrowth, mesquite.
 Mountainous land, 40.00 chs.

 40.00
~~80.00~~
 80.32
 N. 89° ~~47~~ 57' E. on a random line bet. secs. 5 and 8.
 Set temp. $\frac{1}{4}$ sec. cor.
 Intersect the N. and S. line at a point ¹² ~~X~~ lks. W.
 of cor. of secs. 4, 5, 8 and 9.
 Thence I run,
 S. 89° 58' W. on a true line bet. secs. 5 and 8.
 Over mountainous land.
 3.00
 28.00
 38.00
~~40.00~~
 40.16
 Top of ridge, extends N. and S.
 Wash, 6.00 chs. wide; course SSW.
 Trail, brs. N. and S.
 Set a quartz stone, 30 X 12 X 8 ins., 22 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.
 Thence ascend over heavily rolling land.

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Subdivision of Township 15 South, Range 27 East.

chains

46.00
56.00
66.00
75.00
~~80.00~~
80.32

Wash, 1.00 ch. wide, course SW.
Wash, 1.00 ch. wide, course SW.
Wash, 1.00 ch. wide, course S. Ascend.
Top of high ridge; extends N. and S.
The cor. of secs. 5, 6, 7 and 8.
Land, mountainous and heavily rolling.
Soil, sandy and stony; 3rd rate.
No timber; undergrowth, mesquite.
Mountainous land, 40.00 chs.

October 19, 1907.

October 20, 1907. At 7h a.m., 1.m.t., I set off 9° 59' N. on the decl. arc, and 32° 9' N. on the lat. arc, and determine a true meridian with the solar at the cor. of secs. 5, 6, 7, and 8.

40.00
~~79.90~~
80.20

Thence I run N. S. 89° 45' W. on a random line bet. secs. 6 and 7. Set temp. 1/2 sec. cor. Intersect the W. Bdy. of Tp. at a point 12 lks. S. of cor. of secs. 1, 6, 7, and 12.

15.00
23.00
~~39.90~~
40.20

Thence I run N. 89° 55' E. on a true line bet. secs. 6 and 7 Over rolling land, ascending. Ridge, extends SW. and NE. Descend. Draw, extends SW. and NE. Ascend. Set a quartz stone, 20 X 10 X 8 ins., 15 ins. in the ground, for 1/2 sec. cor., marked 1/2 on N. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor. Pits impracticable.

41.00
64.00
72.00
~~79.90~~
80.20

Wash, 20 lks. wide, in valley, 6.00 chs., course SW. Ascend. Top of ridge, extends SW. and NE. Descend. Wash, 50 lks. wide, course S. Ascend. The cor. of secs. 5, 6, 7 and 8. Land, rolling. Soil, sandy and stony; 3rd rate. No timber; undergrowth, mesquite.

8.00
18.30
39.00
40.00

N. 0° 3' W. bet. secs. 5 and 6. Over heavily rolling land, ascending. Top of ridge, extends E. and W., descend. Wash, 10 lks. wide, course W. Ascend along W. side of ridge. Top of same ridge. Set a sandstone, 20 X 10 X 10 ins., 15 ins. in the ground, for 1/2 sec. cor., marked 1/2 on W. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable. Ascend along W. slope of ridge.

46.00
74.00
~~76.20~~
76.02

Head of draw, course SW. Top of limestone ridge, extends E. and W. Intersect the S. Bdy. of Tp. 14 S. R. 27 E. at a point 31 lks. W. of cor. of secs. 31 and 32. This point falls on a ledge of rock which I mark with a cross (X) for exact point for closing cor. of secs. 5 and 6, with C C S. of cross, and 5 grooves on the E. and 1 groove on the W. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, S. of cor. Pits impracticable. Land, heavily rolling and mountainous. Soil, sandy and stony; 2nd and 3rd rate. No timber; undergrowth, mesquite. Mountainous land, 68.20 chs.

October 20, 1907.

Previously described by me

68.92

Subdivision of Township 15 South, Range 27 East.

General Description.

The southern portion of this township is an open, level plain, containing much good grazing land, but no timber or water. I established nearly all stone corners and monuments at the different corners, hauling them often several miles, as I noted that nearly all the old corners with stakes had disappeared, while those of stone were found in a good state of preservation.

The northern portion of this township is broken or rolling hills, or sharp ridges, covered by a huge dyke or vein of trap rock running east and west, and paralleled in the western part of the township by a dyke of limestone. This main dyke is cut through by several canyons or gulches, and at these points there is water in abundance, showing that the dyke acts as a dam for the drainage north of the dyke. The dyke disappears at about the east boundary of the township, but it is certain that for several miles further east water can easily be found on the north side of the dyke.

James J. Riggs, John Riggs and Fred Waughtal have ranch houses and substantial improvements in sections 3 and 4, 11 and 12.

WM. RIGGS. House unoccupied is located in sec. 4.

Jesse B. Wright
U. S. Deputy Surveyor.

*For authority for
For red ink corrections see deputy's letters
dated July 1, 1908 and June 12, 1908.*

For FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

Reference is had to "B," Subs. T. 13 S., R. 12 E.

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.

For Reference is had to "B," Subs. T. 13 S., R. 12 E.

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 }



24
149

For **FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.**

Reference is had to "B," Subs. T.13 S., R. 12 E.

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, Arizona, June 30, 1908.

The foregoing field notes of the survey of ~~the Subdivisions of T. 15 S., R. 27 E., and the retracement of the Third Standard Parallel North, through R. 27 E., Gila and Salt River Base and Meridian, Territory of~~ Arizona,

executed by Jesse B. Wright, U. S. Deputy Surveyor, under his contract No. 145, dated April 15, 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.