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Accepted, letter E May 4-1910

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Book M BOOK 2167

FIELD NOTES

OF THE SURVEY OF THE

2167

Subdivision of T. 21 S. R. 22 E.

2167

2167

Of the Gila & Salt River Base & Meridian,
Arizona.

AS SURVEYED BY

Jesse B. Wright, United States Deputy Surveyor,

Under his Contract No. 154, dated February 9th, 1909

Survey commenced May 22, 1909

Survey completed May 30, 1909

6-151

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NAMES AND DUTIES OF ASSISTANTS.

Walter Percival Chairman

Robt H. Fitzpatrick "

Harvey Marsh - Treasurer

Harry William Hise - Assessor

Robert Fitzpatrick Jr. - Reporter

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Book No. 2167

BOOK 2167

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Subdivision
Township 212, Range 22E

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San Raphael de Valle
Private Land Claim

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PRELIMINARY OATHS OF ASSISTANTS.

WE, Walter Percival and Robt. H Fitzpatrick
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
Subdivision of T. 21 S. R. 22 E.

Walter Percival, Chairman.
Robert H Fitzpatrick, Chainman.

Subscribed and sworn to before me this 19th
day of May, 1909



Jesse B Wright
U.S. Dep. Surveyor

WE, Harvey Marsh 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
Subdivision of T 21 S. R. 22 E.

Harvey Marsh, Moundman.
_____, Moundman.

Subscribed and sworn to before me this 19th
day of May, 1909



Jesse B Wright
U.S. Dep. Surveyor

WE, Harry William Heisen 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
Subdivision of T. 21 S. R. 22 E.

Harry William Heisen, Axman.
_____, Axman.

Subscribed and sworn to before me this 19th
day of May, 1909



Jesse B Wright
U.S. Dep. Surveyor

I, Robert Fitzpatrick Jr, 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
Subdivision of T. 21 S. R. 22 E.

Robert Fitzpatrick Jr, Flagman.

Subscribed and sworn to before me this 19th
day of May, 1909



Jesse B Wright
U.S. Dep. Surveyor

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Subdivision of T. 21 S. R. 22 E.

Chains

Survey commenced May 22, 1909, and executed with a Young & Sons light mountain transit No. 6492 with, Smith patent solar attachment on side. The horizontal limb of the instrument is provided with two double verniers placed opposite to each other and each reading to 1' of arc, which is also the least reading of the lat. & decl. arcs. I examine, and test the levels, the line of collimation and standards of the instrument and find same correct. Then to test the solar apparatus by comparing the results of observations for meridian made during a.m. & p.m. hours with a true meridian determined by Polaris observations, I proceed as follows:

At 5 h p.m., l.m.t., at the Cor. of Secs. 35, 36, 1 & 2 on S. Bdy. of Tp. as recently established by me and heretofore described, I set off 20° 26' N. on the decl. arc and 31° 33' N. on the lat. arc and determine a meridian with the solar, and mark a point in the meridian thus determined by a nail in a tree 6 chs. N. of my station.

May 23, 1909.

At 3h 20m a.m., l.m.t., I observe Polaris at E. Elong. in accordance with instructions in the "Manual and mark the line thus determined by a tack in a stake driven firmly in the ground 6 chs. N. of my station.

At 6h a.m., l.m.t., I set off the azimuth of Polaris 1° 23' to the W. and mark the true meridian thus established by a tack in the tree 6 chs. N. of my station, which point falls, 1/4 in. W. of the line given by the solar on preceding evening.

At 7h a.m., l.m.t., I set off 20° 33' N. on the decl. arc and 31° 33' N. on the lat. arc and determine a meridian with the solar, which gives a line 1/8 in W. of the line of the true meridian determined by Polaris observation.

The solar apparatus by a.m. & p.m. observations defines lines for meridians about 11" E. & 6" W. of the true meridian determined by Polaris observation.

These errors being probably less than the usual errors of observation, I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian at 7h a.m. l.m.t. is N. 13° 30' W.

The angle thus determined gives the magnetic declination as 13° 30' E.

From the Cor. above described, I run, as per instructions,

N. 0° 1' W. bet. Secs. 35 & 36.

Over rolling land, through very dense tesselata, & mesquite.

10.00 Top of low ridge, brs. NW. & SE. desc. grad.

16.00 Wash, 2 chs. wide, course NW. asc. grad.

37.50 Wash 30 lks. wide, course NW.

40.00 Set a limestone 20x10x10 ins. 15 ins. in 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. No bearings available.

68.00 Wash 30 lks. wide, course SW.

80.00 Set a limestone 20x15x10 ins. 15 ins. in ground for Cor. of Secs. 25, 26, 35 & 36, marked with 1 notch on S. & E. edges and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of Cor. No bearings available. Pits impracticable.

Land, rolling.

Soil, 2nd & 3rd rate, sandy, gravelly.

No timber.

Undergrowth, tesselata, mesquite, greasewood.

Land covered with dense undergrowth, 80.00 chs.

Subdivision of T. 21 S. R. 22 E.

Chains East on a random line bet. Secs. 25 & 36.

40.00 Set temp. $\frac{1}{4}$ Sec. Cor.

79.98 Intersect E. bdy. 2 lks. S. of Cor. of Secs. 25, 36, 30 & 31. —
whence I run,
S. $89^{\circ} 59'$ W. on a true line bet. secs. 25 & 36.
Over rolling land, through very dense mesquite & tesseta,
along S. edge of main wash, with great difficulty.

12.00 Knoll, brs. E. & W. desc. grad.

35.00 Junction of two big washes 3 chs. wide, from E. & SE.
An old road, brs. NNW. & SSE. runs through Tp. on straight
line.

39.99 Set a sandstone 24x14x12 ins. 18 ins. in 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 tree 6 ins. diam. brs. N. 13° E. 111 lks. dist.,
marked $\frac{1}{4}$ S. 25 B.T.
A mesquite tree 6 ins. diam. brs. S. 26° E. 76 lks. dist.,
marked $\frac{1}{4}$ S. 36 B.T.

41.00 Wash 30 lks. wide, course WNW.

62.00 Main wash, 2 chs. wide, course WNW.

70.00 Leave draw, & asc.

75.00 Top of mesa, brs. NW. & SE.

89.98 To cor. of secs. 25, 26, 35 & 36.
Land, rolling.
Soil, 2nd & 3rd rate, sandy, gravelly.
Timber, mesquite.
Undergrowth, mesquite, tesseta, very dense.
Land covered with dense undergrowth and exceptionally
difficult to survey, 79.98 chs.

N. 0° 1' W. bet. Secs. 25 & 26.

Over rolling land, through dense blackbrush & scattering
mesquite.

4.00 Edge of mesa, brs. E. & W. desc.

10.00 Main wash 2 chs. wide, course WSW.
Enter very dense mesquite in wide draw. brs. E. & W.

40.00 Set a sandstone 20x10x10 ins. 15 ins. in 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.
Trees in limits too small. Pits impracticable.
Leave dense mesquite, brs. E. & W. enter dense tesseta,
and blackbrush. asc. from draw.

80.00 Set a limestone 15x10x6 ins. 10 ins. in ground for
Cor. of Secs. 23, 24, 25 & 26, marked with 2 notches on
S. & 1 notch on E. edges and dig pits 18x18x12 ins. in
each sec. $5\frac{1}{2}$ ft. dist. and raise a mound of earth $3\frac{1}{2}$ ft.
base $1\frac{1}{2}$ ft. high W. of Cor.
No bearings available.
Land, rolling.
Soil, 2nd & 3rd rate.
Timber, mesquite.
Undergrowth, mesquite, tesseta, blackbrush, greasewood
Land covered with dense undergrowth, 50.00 chs.
Land covered with dense undergrowth and
exceptionally difficult to survey, 30.00 chs.
At this Cor. at noon, I set off $20^{\circ} 34\frac{1}{2}'$ N. on the decl.
arc and observe the sun on the meridian.
The resulting lat. is $31^{\circ} 34\frac{1}{2}'$ N. ✓

Subdivision of T. 21 S. R. 22 E.

Chains

N. 89° 59' E. on a random line bet. Secs. 24 & 25.
 40.00 Set temp. $\frac{1}{4}$ Sec. Cor.
 80.04 Intersect E. bdy. 2 lks. N. of Cor. of Secs. 24, 25, 30 & 19,
 Whence I run,
 West on a true line bet. Secs. 24 & 25.
 Over rolling land, through dense black brush &
 greasewood.
 40.02 Set a sandstone 20x12x10 ins. 15 ins. in 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. No bearings available.
 63.00 Old road, brs. NNW. & SSE.
 80.04 To Cor. of secs. 23, 24, 25 & 26.
 Land, rolling. Soil, 2nd rate, sandy, gravelly.
 No timber. Undergrowth, mesquite, black brush, greasewood.
 Land covered with dense undergrowth, 80.04 chs.

N. 0° 1' W. ber. Secs. 23 & 24.
 Over rolling land, through dense black brush & tesseta.
 56.00 Edge of mesa, brs. E. & W. desc.
 76.00 Wash 80 lks. wide, course N. 80° W. asc.
 20.00 Top of mesa, brs. NW. & SE.
 40.00 Set a sandstone 15x12x6 ins. 10 ins. in 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.
 No bearings available.
 53.60 Old road, brs. NW. & SE.
 Edge of mesa, brs. E. & W. desc. through dense mesquite.
 56.00 Foot of slope, enter grassy flat.
 70.00 Leave mesquite, enter open grassy flat.
 80.00 Set a limestone 15x8x6 ins. 10 ins. in ground for
 Cor. of Secs. 13, 14, 23 & 24, marked with 3 notches on
 S. & 1 notch on E. edges and raise a mound of stone
 2 ft. base $1\frac{1}{2}$ ft. high W. of Cor. No bearings available.
 Land, rolling. Soil, 2nd rate, sandy. No timber. Undergrowth, mesquite.
 Land covered with dense undergrowth, 70.00 chs.
 Level land, 10.00 chs.

East on a random line bet. secs. 13 & 24.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.00 Intersect Cor. of secs. 13, 24, 18 & 19 on E. bdy. of Tp.,
 Whence I run, through dense mesquite, over rolling land
 West on a true line bet. Secs. 13 & 24.
 40.00 Set a limestone 20x12x10 ins. 15 ins. in 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.
 No bearings available.
 Smoke stack of tent house of Chas. Labrosse, hay ranch,
 brs. N. 8° 43' W. about 30.00 chs. dist.
 75.00 Leave dense mesquite, brs. N. & S. enter open grassy flat.
 80.00 To Cor. of secs. 13, 14, 23 & 24.
 Land, rolling. Soil, 2nd rate, sandy, loamy.
 No timber. Undergrowth, mesquite, tesseta.
 Land covered with dense undergrowth, 75.00 chs.
 Level land, 5.00 chs.

N. 0° 1' W. bet. secs. 13 & 14.
 Over rolling land, through dense tesseta, & greasewood.
 40.00 Set a limestone 18x10x8 ins. 12 ins. in 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. No bearings available.
 80.00 Set a limestone 18x10x10 ins. 12 ins. in ground for
 Cor. of secs. 11, 12, 13 & 14, marked with 4 notches on
 S. & 1 notch on E. edges and raise a mound of stone 2 ft.
 base $1\frac{1}{2}$ ft. high W. of Cor. No bearings available.
 Land, rolling. Soil, 2nd & 3rd rate, sandy, gravelly.
 No timber. Undergrowth, mesquite, tesseta, greasewood.
 Land covered with dense undergrowth, 80.00 chs.
 8.00 chs. Draw 5 chs. wide & old road, brs. WSW. May 23, 1909.

Subdivision of T. 21 S. R. 22 E.

Chains	
	<p>May 24, 1909. At 7h a.m., l.m.t., at the Cor. of Secs. 11, 12, 13 & 14, I set off 20° 44' N. on the decl. arc and 31° 36½' N. on the lat. arc and determine a true meridian with the solar, Thence I run, East on a random line bet. secs. 12 & 13.</p>
40.00	Set temp. ¼ Sec. Cor.
79.96	Intersect E. bdy. 12 lks. S. of Cor. of Secs. 12, 13, 7 & 18, whence I run, S. 89° 55' W. on a true line bet. secs. 12 & 13. Over rolling land through dense tesseta, black brush, and greasewood.
39.98	Set a limestone 18x10x8 ins. 12 ins. in ground for ¼ Sec. Cor. marked ¼ on N. face; dig pits 18x18x12 ins. E. & W. of stone 3 ft. dist. and raise a mound of earth 3½ ft. base 1½ ft. high N. of cor. No bearings available.
79.96	To Cor. of secs. 11, 12, 13 & 14. Land, rolling. Soil, 2nd & 3rd rate, sansy, gravelly. No timber. Undergrowth, mesquite, tesseta, greasewood, black brush. Land covered with dense undergrowth, 79.96 chs.
<hr/>	
	<p>N. 0° 1' W. bet. Secs. 11 & 12. Over rolling land through very dense high tesseta, with great difficulty.</p>
6.00	Enter draw, and dense mesquite, brs. SW.
15.00	Leave draw and mesquite, brs. NE. & SW. asc. grad, through very dense tesseta.
40.00	Set a limestone 20x12x6 ins. 15 ins. in 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. No bearings available.
80.00	Set a limestone 20x12x8 ins. 15 ins. in ground for <small>in d. with 12 holes on E. & 5 holes on S. side</small> Cor. of secs. 1, 2, 11 & 12, and raise a mound of stone Covered with earth 4 ft. base 2 ft. high W. of cor. No bearings available, Pits impracticable. Land, rolling. Soil, 2nd & 3rd rate, sandy, gravelly. Timber, some mesquite in larger washes. Undergrowth, mesquite, tesseta, greasewood, black brush. Land covered with dense undergrowth, and exceptionally difficult to survey, 80.00 chs.
<hr/>	
	<p>N. 89° 55' E. on a random line bet. secs. 1 & 12.</p>
40.00	Set temp. ¼ sec. cor.
80.04	Intersect E. bdy. of Tp. 12 lks. N. of Cor. of Secs. 1, 6, 7 & 12, whence I run, West on a true line bet. secs. 1 & 12. Over rolling land, through, dense tesseta, greasewood, mesquite, and black brush.
40.02	Set a limestone 24x10x6 ins. 18 ins. in the ground for ¼ sec. Cor. marked ¼ on N. face and dig pits 18x18x12 ins. E. & W. of Cor. 3 ft. dist., and raise a mound of earth 3½ ft. base 1½ ft. high N. of Cor. No bearings available.
80.04	To Cor. of Secs. 1, 2, 11 & 12. Land, rolling. Soil, 2nd & 3rd rate, sandy, gravelly. No timber. Undergrowth, mesquite, tesseta, greasewood, black brush. Land covered with dense undergrowth, 80.04 chs.

Subdivision of T. 21 S. R. 22 E.

Chains

- N. 0° 1' W. bet. secs. 1 & 2.
 Over rolling land, through dense tesseta, & blackbrush.
- 4.75 Draw 2 chs. wide, course SW. asc.grad.
- 40.00 Set a limestone 18x12x10 ins. 12 ins. in ground for
 ¼ Sec. Cor. marked ¼ on W. face, dig pits 18x18x12 ins.
 N. & S. of Cor. 3 ft. dist., and raise a mound of
 earth 3½ ft. base 1½ ft. high W. of cor.
 No bearings available.
- 86.25 Intersect 4th Std. Par. N. 9 chs. W. of Std. ¼ Sec. Cor.
 on S. Bdy. of Sec. 35.mkd. & wit. as desc. by the S.G.
 Set a limestone 20x12x10 ins. 15 ins. in ground for
 Closing Cor. of Secs. 1 & 2, marked with 1 groove on E.
 and 5 grooves on W.faces and C.C. on S. face, and
 raise a mound of stone 2 ft. base 1½ ft. high S. of Cor.
 No bearings available.
 Land, rolling, Soil, 2nd & 3rd rate, sandy, gravelly.
 No timber.
 Undergrowth, tesseta, mesquite, greasewood, blackbrush.
 Land covered with dense undergrowth, 86.25 chs.
 At this Cor. at noon,
 I set off 20° 46' N. on the decl. arc and observe the
 sun on the meridian.
 The resulting lat. is 31° 38' N. ✓
-
- From the cor. of secs. 2, 3, 34 & 35, on the S. bdy.
 N. 0° 1' W. bet. Secs. 34 & 35.
 Over rolling land, through dense mesquite, tesseta.
- 40.00 Set a limestone 30x12x10 ins. 10 ins. in ground to
 bed rock in mound of stone for
 ¼ sec. Cor. marked ¼ on W. face, from which,
 A mesquite tree 6 ins.diam. brs.. N.2° E. 72 lks.dist.,
 marked ¼ S. 35 B.T.
 A mesquite tree 8 ins.diam.brns.N.59°W.214 lks.dist.,
 marked ¼ S. 35 B.T.
- 52.25 Telegraph line, brs. NW. & SE.
- 53.25 Road, brs. NW. & SE.
- 54.30 Wash 120 lks. wide, course W. asc.
- 64.00 Top of mesa, brs. E. & W.
- 80.00 Set a sandstone 20x10x8 ins. 15 ins. in ground for
 Cor. of Secs. 26, 27, 34 & 35, marked with 1 notch on
 S. & 2 notches on E. edges and raise a mound of stone
 2 ft. base 1½ ft. high W. of Cor. from which,
 A mesquite tree 6 ins.diam.brns.S.45° E. 88 lks.dist.,
 marked T. 21 S. R.22 E. S. 35 B.T.
 A mesquite tree 8 ins.diam.brns.S.87°W. 271 lks.dist.,
 marked T. 21 S. R. 22 E. S. 34 B.T.
 No other bearings available.
 Land, rolling. Soil, 2nd & 3rd rate, sandy, gravelly.
 Timber, some mesquite in larger washes.
 Undergrowth, mesquite, tesseta, greasewood.
 Land covered with dense undergrowth, 80.00 chs.

Subdivision of T. 21 S. R. 22 E.

CHAINS

East on a random line bet. Secs. 26 & 35.
 40.00 Set temp. $\frac{1}{4}$ Sec. Cor.
 80.10 Intersect N. & S. line at Cor. of Secs. 25, 26, 35 & 36,
 Whence I run,
 West on a true line bet. Secs. 26 & 35.
 Over rolling land, desc. grad. through dense tesseta,
 blackbrush & greasewood.
 16.00 Enter Large draw, brs. WSW.
 40.05 Set a sandstone 24x12x6 ins. 18 ins. in ground for
 $\frac{1}{4}$ Sec. Cor. marked $\frac{1}{4}$ on N. face, dig pits 18x18x12 ins.
 E. & W. of stone 3 ft. dist. and raise a mound of earth
 3 $\frac{1}{2}$ ft. base 1 $\frac{1}{2}$ ft. high N. of Cor.
 No bearings available.
 50.00 Leave draw, course WNW. & asc.
 60.00 Top of rise, desc. grad.
 80.10 To Cor. of Secs. 26, 27, 34 & 35.
 Land, rolling. Soil, 2nd & 3rd rate, sandy, gravelly.
 Timber, mesquite.
 Undergrowth, mesquite, greasewood, tesseta, blackbrush.
 Land covered with dense undergrowth,.... 80.10 chs.

N. 0° 1' W. bet. Secs. 26 & 27.
 Over rolling land, through very dense mesquite and
 tesseta, with great difficulty.
 3.00 Enter draw, brs. WSW.
 26.20 Wash 30 lks. wide, course WSW. leave draw. asc. grad.
 40.00 Wash 20 lks. wide, course SW. Point for $\frac{1}{4}$ Sec. Cor.
 40.20 Set sandstone 24x15x10 ins. 18 ins. in ground for
 Witness Cor. to $\frac{1}{4}$ Sec. Cor. marked WC $\frac{1}{4}$ on W. face, from
 which,
 A mesquite tree 8 ins. diam. brs. S. 30° E. 42 lks. dist.,
 marked $\frac{1}{4}$ S. 26 W.C.B.T.
 A mesquite tree 6 ins. diam. brs. S. 75° W. 65 lks. dist,
 marked $\frac{1}{4}$ S. 27 W.C.B.T.
 70.00 Wash 20 lks. wide, course WNW. leave dense mesquite,
 brs. E. & W. enter dense tesseta, greasewood & blackbrush.
 80.00 Set a sandstone 18x10x6 ins. 12 ins. in ground for
 Cor. of Secs. 22, 23, 26 & 27, marked with 2 notches on S. &
 E. edges and raise a mound of stone 4 ft. base 2 ft. high
 W. of Cor. No bearings available.
 Land, rolling, somewhat broken.
 Soil, 2nd, & 3rd rate, sandy, gravelly.
 Timber, mesquite.
 Undergrowth, very dense mesquite, tesseta,, greasewood
 blackbrush.
 Land covered with dense undergrowth, and
 exceptionally difficult to survey,.... 70.00 chs.
 Land covered with dense undergrowth,..... 10.00 chs.

East on a random line bet. Secs. 23 & 26.
 40.00 Set temp. $\frac{1}{4}$ Sec. Cor.
 80.00 Intersect N. & S. line 2 lks. N. of Cor. Secs. 23, 24, 25 & 26,
 whence I run,
 N. 89° 59' W. on a true line bet. Secs. 23 & 26.
 Over rolling land, through dense blackbrush & greasewood.
 40.00 Set a limestone 18x10x8 ins. 12 ins. in ground for
 $\frac{1}{4}$ Sec. Cor. marked $\frac{1}{4}$ on N. face, dig pits 18x18x12 ins. E. &
 W. of stone 3 ft. dist. & raise a mound of earth 3 $\frac{1}{2}$ ft.
 base 1 $\frac{1}{2}$ ft. high N. of Cor. No bearings available.
 80.00 To Cor. of Secs. 22, 23, 26 & 27.
 Land, rolling,
 Soil, 2nd, & 3rd rate, sandy, gravelly.
 No timber.
 Undergrowth, mesquite, blackbrush, greasewood, tesseta.
 Land Covered with dense undergrowth, 80.00 chs.
 May 24, 1909.

Subdivision of T. 21 S. R. 22 E.

Chains May 25, 1909.
 At 7h a.m., l.m.t., at the Cor. of Secs. 22, 23, 26 & 27,
 I set off 20° 55' N. on the decl. arc and 31° 34½' N. on
 the lat. arc and determine a true meridian with the solar,
 Thence I run,
 N. 0° 1' W. bet. Secs. 22 & 23.
 Over rolling land, through dense tesseta, & blackbrush.
 20.00 Edge of mesa, brs. E. & W. desc.
 32.50 Grassy draw, 3chs wide, course W. asc.grad.
 40.00 Set a sandstone 20x12x10 ins. 15 ins. in the ground for
 ¼ Sec. Cor. marked ¼ on W. face, dig pits 18x18x12 ins.
 N. & S. of stone 3 ft. dist. and raise a mound of earth
 3½ ft. base 1½ ft. high W. of Cor.
 No bearings available.
 45.40 Road, brs. E. & W.
 47.00 Enter grassy draw, brs. W.
 55.50 Top of N. end of earth dam, NW. & SE. across draw,
 8 ft. high 300 ft. long.
 64.00 Leave draw, dim road, brs. NNE. & SSW.
 67.00 Grassy draw 5 chs. wide, course W.
 80.00 Set a limestone 24x12x10 ins. 18 ins. in ground for
 Cor. of Secs. 14, 15, 22 & 23, marked with 3 notches on
 S. & 2 notches on E. edges and raise a mound of stone
 2 ft. base 1½ ft. high W. of Cor.
 No bearings available.
 Land, rolling. Soil, 2nd & 3rd rate, sandy, clayey.
 No timber.
 Undergrowth, mesquite, tesseta, greasewood, blackbrush.
 Land covered with dense undergrowth, 80.00 chs.

S. 89° 59' E. on a random line bet. secs. 14 & 23.
 40.00 Set temp. ¼ Sec. Cor.
 80.00 Intersect N. & S. line 3 lks. S. of Cor. of Secs. 13, 14,
 23 & 24, whence I run,
 West, on a true line bet. Secs. 14 & 23.
 Over level land, through dense mesquite, & tesseta.
 2.75 Wash 30 lks. wide, course SW.
 7.00 Old road, brs. NNW. & SSE.
 20.50 Leave flat & asc.
 22.50 Top of mesa, brs. NE. & SW. Rolling land.
 Thence through dense blackbrush & tesseta.
 40.00 Set a limestone 20x10x6 ins. 15 ins. in ground for
 ¼ Sec. Cor. marked ¼ on N. face, dig pits 18x18x12 ins.
 E. & W. of stone 3 ft. dist. and raise a mound of
 earth 3½ ft. base 1½ ft. high N. of Cor.
 No bearings available.
 78.75 Road, brs. NE. & SW.
 80.00 To Cor. of Secs. 14, 15, 22 & 23.
 Land, rolling. Soil, 2nd rate, sand, clayey, gravelly.
 No timber. Undergrowth, mesquite, greasewood, blackbrush.
 Land covered with dense undergrowth, 80.00 chs.

N. 0° 1' W. bet. secs. 14 & 15.
 Over rolling land, through dense tesseta, & blackbrush.
 40.00 Set a limestone 30x15x12 ins. 24 ins. in ground for
 ¼ Sec. Cor. marked ¼ on W. face and dig pits 18x18x12 ins.
 N. & S. of Cor. 3 ft. dist. & raise a mound of earth 3½ ft.
 base 1½ ft. high W. of cor. No bearings available.
 64.10 Road, brs. NW. & SE.
 64.30 Wash 30 lks. wide, course SW.
 80.00 Set a limestone 18x12x10 ins. 12 ins. in ground for
 Cor. of secs. 10, 11, 14 & 15, marked with 4 notches on S. &
 2 notches on E. edges & raise a mound of stone 2 ft. base
 1½ ft. high W. of Cor. No bearings available.
 Land, rolling. Soil, 2nd & 3rd rate, gravelly.
 No timber. Undergrowth, mesquite, greasewood, blackbrush, tesseta.
 Land covered with dense undergrowth, 80.00 chs.
 At this Cor. at noon, I set off 20° 57' N. on the decl.
 arc and observe the sun on the meridian.
 The resulting lat. is 31° 36½' N.

Subdivision of T. 21 S. R. 22 E.

Chains	
	East on a random line bet. Secs. 11 & 14.
40.00	Set temp. $\frac{1}{4}$ Sec. Cor.
79.90	Intersect Cor. of Secs. 11, 12, 13 & 14, whence I run, West on a true line bet. Secs. 11 & 14.
32.00	Over rolling land, through dense tesseta & greasewood.
39.95	Set a limestone 18x12x10 ins. 12 ins. in ground for $\frac{1}{4}$ Sec. Cor. marked $\frac{1}{4}$ on N. face, dig pits 18x18x12 ins. E. & W. of stone 3 ft. dist. and raise a mound of earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high N. of Cor. No bearings available.
72.00	Draw, 5 chs. wide, course SW.
79.90	To Cor. of Secs. 10, 11, 14 & 15. Land, rolling. Soil, 2nd, & 3rd rate, gravelly, loamy. No timber. Undergrowth, tesseta, greasewood, mesquite, blackbrush. Land covered with dense undergrowth, ... 79.90 chs.
	N. 0° 1' W. bet. Secs. 10 & 11. Over rolling land, through dense tesseta, & blackbrush.
4.00	Low ridge, brs. E. & W.
7.00	Enter grassy draw, brs. WSW.
16.00	Leave draw, asc. grad.
28.00	Low ridge, brs. NE. & SW. desc. grad.
37.00	Enter grassy draw, course SW.
40.00	Set a limestone 18x10x6 ins. 12 ins. in ground for $\frac{1}{4}$ Sec. Cor. marked $\frac{1}{4}$ on W. face, dig pits 18x18x12 ins. N. & S. of stone 3 ft. dist. and raise a mound of e earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high W. of Cor. No bearings available.
47.00	Leave draw, & asc. grad.
80.00	Set a limestone 20x12x10 ins. 15 ins. in ground for Cor. of Secs. 2, 3, 10 & 11, marked with 5 notches on S. & 2 notches on E. edges, and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high W. of Cor. No bearings available. Land, rolling, broken. Soil, 2nd & 3rd rate, gravelly, loamy. No timber. Undergrowth, tesseta, blackbrush, greasewood. Land covered with dense undergrowth, 80.00 chs.
	East on a random line bet. Secs. 2 & 11.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.00	Intersect N. & S. line 16 lks. N. of Cor. of Secs. 1, 2, 11 & 12, whence I run, over rolling land, through dense tesseta, N. 89° 53' W. on a true line bet. Secs. 2 & 11
8.00	Draw 3 chs. wide, course SW.
40.00	Set a limestone 15x10x6 ins. 10 ins. in ground for $\frac{1}{4}$ Sec. Cor. marked $\frac{1}{4}$ on N. face, dig pits 18x18x12 ins. E. & W. of stone 3 ft. dist. & raise a mound of earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high N. of cor. No bearings available.
60.00	Old road, brs. NNW. & SSE.
80.00	To Cor. of Secs. 2, 3, 10 & 11. Land, rolling. Soil, 2nd & 3rd rate, sandy, gravelly. No timber. Undergrowth, tesseta, blackbrush, greasewood, mesquite. Land covered with dense undergrowth, 80.00 chs.

Subdivision of T. 21 S. R. 22 E.

Chains N.0° 1' W. bet. secs. 2 & 3.
 Over gently rolling land, through dense tesseta, greasewood, & black brush.

25.50 Enter draw, brs. WSW.
 28.00 Leave draw, asc. grad.
 40.00 Top of rise, brs. E. & W.
 Set a limestone 18x10x6 ins. 12 ins. in 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.
 No bearings available. Desc. grad.

51.00 Enter draw, brs. SW.
 56.00 Leave draw, asc. grad.
 63.00 Top of rise, brs. E. & W.
 65.00 Old road, brs. NNW. & SSE., runs through Tp. on straight line.

86.00 Intersect 4th Std. Par. N. at point, whence
 Std. $\frac{1}{4}$ Sec. Cor. on S. Bdy. Sec. 34, ^{marked & with as desc. by the S.G.} brs. E. 9.00 chs. dist.
 Set a limestone 24x15x10 ins. 18 ins. in ground for Closing Cor. of Secs. 2 & 3, marked C.C. on S., with 2 grooves on E., 4 grooves on W. faces, and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high S. of Cor.
 No bearings available.
 Land, rolling.
 Soil, 2nd rate, sandy, gravelly.
 No timber.
 Undergrowth, tesseta, greasewood, black brush, mesquite.
 Good grazing in draws.
 Land covered with dense undergrowth, 86.00 chs.
 May 25, 1909.

May 25, 1909.
 At 7h a.m., l.m.t., at the Cor. of Secs. 33, 34, 3 & 4, on S. Bdy. of Tp., I set off 21° 6' N. on the decl. arc and 31° 33' N. on the lat. arc and determine a true meridian with the solar.
 Thence I run,
 N.0° 2' W. bet. Secs. 33 & 34.
 Over rolling land, through dense greasewood, and scattering mesquite.

3.00 Knoll, brs. E. & W. desc.
 7.00 Enter grassy draw, brs. WNW.
 15.00 Leave draw, asc.
 20.00 Top of mesa, enter very dense mesquite.
 40.00 Set a sandstone 20x10x10 ins. 15 ins. in 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.
 No bearings available.

49.00 Enter draw, brs. NW.
 73.00 Leave draw and asc.
 80.00 Top of mesa, brs. NW. & SE.
 Set a pine post 3 ft. long 4 ins. sq. 2 ft. in ground for Cor. of secs. 27, 28, 33 & 34, marked,
 T. 21 S. S. 27 on NE.,
 R. 22 E. S. 34 on SE.,
 S. 33 on SW., and
 S. 28 on NW. faces with 3 notches on E. & 1 notch on S. edges, Dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist. & raise a md. of earth 4 ft. base 2 ft. high W. of cor.
 No bearings available.
 Land, rolling.
 Soil, 2nd & 3rd rate, gravelly.
 Timber, some mesquite, in larger draws.
 Undergrowth, mesquite, tesseta, greasewood.
 Land covered with dense undergrowth, 80.00 chs.

Subdivision of T. 21 S. R. 22 E.

<p>Chains 40.00 80.02 21.90 22.90 25.00 28.50 40.01 41.00 64.00 73.50 80.02</p>	<p>East on a random line bet. secs. 27 & 34. Set temp. $\frac{1}{4}$ Sec.cor. Intersect cor. of secs. 26,27,34 & 35, whence I run, West on a true line bet. secs. 27 & 34. Over rolling land, through dense tesseta & black brush. Road, brs. NW. & SE. Telephone line brs. NW. & SE. Wash 80 lks. wide, course WSW. enter very dense, heavy mesquite, through same with great difficulty. Wash 80 lks. wide, course SW. Set a sandstone 24x15x12 ins. 18 ins. in ground for $\frac{1}{4}$ sec.cor. marked $\frac{1}{4}$ on N. face, dig pits 18x18x12 ins. E. & W. of stone 3 ft. dist. and raise a mound of earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high N. of cor. from which, A mesquite tree 12 ins.diam.brs.S.66°E. 100 lks.dist., marked $\frac{1}{4}$ S. 34 B.T. No other bearings available. Leave draw and asc. grad. Wash 20 lks. wide, course SW. Wash 20 lks. wide, course SW. To cor. of secs. 27,28,33 & 34. Land, rolling. Soil, 2nd rate, sandy, gravelly. Timber, mesquite. Undergrowth, mesquite, tesseta. Land covered with dense undergrowth,..... 25.00 chs. Land covered with dense undergrowth and exceptionally difficult to survey,..... 55.02 chs.</p> <hr/> <p>N. 0° 2' W. bet. secs. 27 & 28. Over rolling land, through dense mesquite & tesseta. Set a limestone 24x15x12 ins. 18 ins. in 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 tree 6 ins.diam.brs.S.85$\frac{1}{4}$°E. 107 lks.dist., marked $\frac{1}{4}$ S. 27 B.T. No other bearings available. Draw 5 chs. wide, course W. mesquite very dense. Road, brs. NNW. & SSE. Telephone line, brs. NNW. & SSE. Set a limestone 15x10x8 ins. 10 ins. in ground for cor. of secs. 21,22,27 & 28, marked with 2 notches on S. and 3 notches on E. edges, and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high W. of cor. from which, A mesquite tree 6 ins.diam. brs.S.6$\frac{1}{4}$°E. 87 lks.dist., marked T. 21 S. R. 22 E. S. 27 B.T. A mesquite tree 10 ins.diam.brs.N.27°E. 70 lks.dist., marked T. 21 S. R. 22 E. S. 22 B.T. No other bearings available. Land, rolling. Soil, 2nd rate, gravelly, sandy. Timber, mesquite. Undergrowth, mesquite, greasewood, tesseta. Land covered with dense undergrowth,..... 80.00 chs.</p> <hr/> <p>East on a random line bet. secs. 22 & 27. Set temp. $\frac{1}{4}$ sec.cor. Intersect N. & S. line 9 lks. N. of cor. of secs.22,23,26 & 27, whence I run, S. 89° 56' W. on a true line bet. secs. 22 & 27. Over rolling land, though dense tesseta, & black brush. Wash 15 lks. wide, course WNW. Set a sandstone 20x10x10 ins. 15 ins. in ground for $\frac{1}{4}$ sec.cor. marked $\frac{1}{4}$ on N. face, from which, A mesquite tree 6 ins.diam.brs.S.43° E. 40 lks.dist., marked $\frac{1}{4}$ S. 27 B.T. A mesquite tree 4 ins.diam.brs.N.63$\frac{3}{4}$°W. 117 lks.dist., marked $\frac{1}{4}$ S. 22 B.T.</p>
<p>40.00 79.96 12.80 39.98</p>	<p>40.00 79.96 12.80 39.98</p>

Subdivision of T. 21 S. R. 22 E.

Chains

50.00 Enter very dense mesquite, through same with great difficulty.

79.96 To cor. of secs. 21, 22, 27 & 28.
 Land, rolling.
 Soil, 2nd rate, sandy, loamy.
 Timber, mesquite.
 Undergrowth, mesquite, tesseta, blackbrush.
 Land covered with dense undergrowth, 50.00 chs.
 Land covered with dense undergrowth, exceptionally difficult to survey, ... 29.96 chs.
 At this cor. at noon, I set off 21° 7½' N. on the decl. arc and observe the sun on the meridian. ✓
 The resulting lat. is 31° 34½' N. ✓

N. 0° 2' W. bet. secs. 21 & 22.
 Over gently rolling land, through very dense mesquit, with great difficulty. desc. grad.

19.80 Road, brs. E. & W.
 23.50 Wash 30 lks. wide, course W.
 30.00 Desc. 10 ft.
 32.00 Middle of main wash 3 chs. wide, course W.
 34.00 Asc. abrupt 10 ft., thence asc. grad.
 40.00 Set a limestone 30x12x10 ins. 24 ins. in 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.
 No bearings available.
 Leave dense tesseta, enter dense blackbrush and greasewood, brs. E. & W. asc. grad.

46.00 Top of mesa, brs. E. & W.
 80.00 Set a limestone 30x12x12 ins. 24 ins. in ground for Cor. of secs. 15, 16, 21 & 22, marked with 3 notches on S. & E. edges, and T. 21 S. on NE., R. 22 E. on SE., faces, dig pits 18x18x12 ins. in each sec. 5½ ft. dist., and raise a mound of earth 4 ft. base 2 ft. high W. of cor.
 No bearings available.
 Land, rolling, broken.
 Soil, 2nd & 3rd rate, sandy, gravelly.
 Timber, some mesquite in larger washes.
 Undergrowth, mesquite, tesseta, greasewood, blackbrush.
 Land covered with dense undergrowth, and exceptionally difficult to survey, 40.00 chs.
 Land covered with dense undergrowth, 40.00 chs.

N. 89° 56' W. on a random line bet. secs. 15 & 22.
 40.00 Set temp. ¼ sec. cor.
 79.90 Intersect N. & S. line 5 lks. S. of cor. of secs. 14, 15, 22 and 23, whence I run,
 S. 89° 54' W. on a true line bet. secs. 15 & 22.
 Over gently rolling land, through dense tesseta & black brush.

8.00 Enter draw, course SW.
 15.00 Leave draw, asc. grad.
 39.95 Set a limestone 18x10x8 ins. 12 ins. in 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.
 No bearings available.
 70.00 Enter very dense, high mesquite and tesseta, through same with great difficulty.
 79.90 To Cor. of secs. 15, 16, 21 & 22.
 Land, rolling.
 Soil, 2nd & 3rd rate, sandy, gravelly.
 Timber, mesquite,
 Undergrowth, tesseta, mesquite, greasewood, blackbrush.
 Land covered with dense undergrowth, 70.00 chs.
 Land covered with dense undergrowth and exceptionally difficult to survey, 9.90 chs.

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Subdivision of T. 21 S. R. 22 E.

Chains

N. 0° 2' W. bet. secs. 15 & 16.
Descend gently rolling land, through dense tesseta & black brush & scattering mesquite.

40.00 Set a limestone 15x8x5 ins. 10 ins. in ground for 1/4 sec. cor. marked 1/4 on W. face, dig pits 18x18x12 ins. N. & S. of stone 3 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high W. of cor. No bearings available.

62.00 Road, brs. NW. & SE.

63.00 Draw 2 chs. wide, course NW.

70.00 Enter very dense, high tesseta.

80.00 Set a limestone 20x12x10 ins. 15 ins. in ground for cor. of secs. 9, 10, 15 & 16, marked with 4 notches on S. & 3 notches on E. edges, and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. No bearings available.

Land, rolling.

Soil, 2nd & 3rd rate, sandy, gravelly.

No timber.

Undergrowth, mesquite, tesseta, greasewodd black brush.

Land covered with dense undergrowth, 70.00 chs.

Land covered with dense undergrowth, and exceptionally difficult to survey, 10.00 chs.

May 26, 1909

May 27, 1909.

At 7h a.m. l.m.t., at the cor. of secs. 9, 10, 15 & 16, I set off 21° 16' N. on the decl. arc and 31° 36 1/2' N. on the lat. arc and determine a true mer. with the solar, thence I run, N. 89° 54' E. on a random line bet. secs. 10 & 15.

40.00 Set temp. 1/4 sec. cor.

80.00 Intersect N. & S. line 5 lks. N. of cor. of secs. 10, 11, 14 and 15, whence I run, S. 89° 56' W. on a true line bet. secs. 10 & 15.

Over rolling land, through dense tesseta & black brush.

18.00 Old road, brs. NW. & SE.

40.00 Set a limestone 18x10x10 ins. 12 ins. in ground for 1/4 sec. cor. marked 1/4 on N. face and dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high N. of cor.

52.00 Draw, 2 chs. wide, course SW.

80.00 To cor. of secs. 9, 10, 15 & 16.

Land, rolling. Soil, 2nd & 3rd rate, gravelly, sandy. No timber.

Undergrowth, mesquite, tesseta, greasewood, black brush. Land covered with dense undergrowth, 80.00 chs.

No 2' W. bet. secs. 9 & 10.

Over rolling land, through dense tesseta & greasewood.

20.00 Leave undergrowth, brs. E. & W. enter grassy flat.

33.15 Road, brs. E. & W.

40.00 Set a limestone 20x12x8 ins. 15 ins. in ground for 1/4 sec. cor. marked 1/4 on W. face, dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist. and raise a mound of small stones covered with earth 3 1/2 ft. base 1 1/2 ft. high W. of cor. No bearings available.

Leave flat, asc. grad through dense greasewood & tesseta.

80.00 Set a limestone 20x12x12 ins. 15 ins. in ground for Cor. of secs. 3, 4, 9 & 10, marked with 5 notches on S. & 3 notches on E. edges and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. No bearings available.

Land rolling. Soil, 2nd rate, sandy, loamy.

No timber.

Undergrowth, tesseta, greasewood, scattering mesquite.

Land covered with dense undergrowth, 60.00 chs.

Level land smooth & open, 20.00 chs.

Subdivision of T. 21 S. R. 22 E.

Chains

N. 89° 56' E. on a random line bet. secs. 3 & 10.

40.00 Set temp. 1/4 sec. cor.

80.10 Intersect N. & S. line 9 lks. S. of cor. of secs. 2, 3, 10 and 11, whence I run,
S. 89° 52' W. on a true line bet. secs. 3 & 10.
Over rolling land, through dense tesselata & greasewood.

40.05 Set a limestone 20x10x10 ins. 15 ins. in 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.
No bearings available.

80.10 To cor. of secs. 3, 4, 9 & 10.
Land, rolling. Soil, 2nd & 3rd rate. sandy, gravelly.
No timber.
Undergrowth, tesselata, greasewood, mesquite, blackbrush.
Land covered with dense undergrowth, 80.10 chs.

N. 0° 2' W. bet. secs. 3 & 4.
Over rolling land, through dense tesselata, & blackbrush.

3.00 Middle of draw, 4 chs. wide, course SW. asc. grad.

40.00 Set a limestone 20x12x6 ins. 15 ins. in ground for 1/4 sec. cor. marked 1/4 on W. face and dig pits 18x18x12 ins. N. & S. of stone 3 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high W. of cor.
No bearings available.

86.10 Intersect 4th Std. Par. N. at point, whence, Std. 1/4 sec. cor. on S. bdy. ^{mkd. & wit. as desc. by me} sec 33, ^{brs.} E. 8.95 chs. dist.
Set a limestone 24x12x8 ins. 18 ins. in ground for Closing Cor. of secs. 3 & 4 marked with C.C. on S., with 3 grooves on E. & W. faces, dig pits 24x18x12 ins. crosswise on each line E. & W. 3 ft. dist. & S. of stone 7 ft. dist. and raise a mound of earth 4 ft. base 2 ft. high S. of cor.
No bearings available.
Land, rolling. Soil, 2nd & 3rd rate, sandy, gravelly.
No timber.
Undergrowth, tesselata, greasewood, mesquite,
Land covered with dense undergrowth, 86.10 chs.
At this cor. at noon, I set off 21° 17 1/2' N. on the decl. arc and observe the sun on the meridian.
The resulting lat. is 31° 38' N. ✓

From the Cor. of secs. 27, 28, 33 & 34 as recently established by me and heretofore described, I run, as per instructions,
West, bet. secs. 28 & 33,
Over rolling land, through dense greasewood, and scattering mesquite & palneo.

40.00 Set a sandstone 18x10x10 ins. 12 ins. in ground for 1/4 sec. cor. marked 1/4 on N. face and dig pits 18x18x12 ins. E. & W. of stone 3 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high N. of cor.
No bearings available.

46.00 High knoll, brs N. & S. a high pt. on same is 5 chs. N. desc. grad.

77.24 Intersect E. Bdy. of San Rafael del Valle Grant, whence ^{mkd. & wit. as desc. by me} 2 1/2 mile cor. ^{brs.} S. 13° 31' 30" E. 4.41 chs. dist.
Set a sandstone 15x10x10 ins. 10 ins. in ground for Closing Cor. of secs. 28 & 33, marked, C.C. on E.,
S.R.D.V. on W., with 1 groove on S. faces, and raise a mound of stone 2 ft. base 1 1/2 ft. high E. of cor.
No bearings available.
Thence on blank line continuing measurement.

80.00 Cor. point for Cor. of secs. 28, 29, 32 & 33.
Land, rollong. Soil, 2nd & 3rd rate, gravelly, loamy, sandy.
No timber. Undergrowth, greasewodd, mesquite, palneo.
Land covered with dense undergrowth, 80.00 chs.

Subdivision of T. 21 S. R. 22 E.

Chains	
	From the Cor. point for cor. of secs. 28, 29, 32 & 33, I run, as per instructions.
	N. 0° 2' W. bet. secs. 28 & 29. on blank line.
	Over rolling land, through dense tesseta & greasewood.
11.48	Intersect E. Bdy San Rafael del Valle Grant, whence, ^{Wkd. & Wtd. as desc. by Mr. J. G.} 2 1/2 mile cor. of Grant, brs. S. 13° 31' 30" E. 16.22 chs. dist. Set a pine post 3 ft. long 8x10 ins. 2 ft. in ground for closing cor. of secs. 28 & 29, marked, C.C. T. 21 S. R. 22 E. on N., S. 28 on E. and S. 29 on W. faces, with 4 notches on E. face. Dig pits 30x24x12 ins. S. 13° 31' 30" E. 3 ft., and N. of cor. 24x18x12 ins. 7 ft. dist. and raise a mound of earth 4 ft. base 2 ft. high N. of cor. A post 4x4 ins. x 3 ft. above ground marked SRDV on N. and 3 on S., brs. S. 13° 31' 30" E. 66 lks. dist. No trees available.
	Thence on true line bet. secs. 28 & 29, continuing measurement, from cor. pt. of secs. 28, 29, 32 & 33.
15.00	Decs. grad.
27.00	Wash 30 lks. wide, course W.N.W.
35.00	Leave draw & asc.
40.00	Set a limestone 20x10x10 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. No bearings available.
45.00	Top of mesa, brs. E. & W.
66.35	Grassy draw 5 chs. wide, course WNW.
76.30	Main road, brs. NNE. & SSW.
80.00	Set a limestone 20x10x8 ins. 15 ins. in ground for Cor. of secs. 20, 21, 28 & 29, marked with 4 notches on E. & 2 notches on S. edges and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. No bearings available. Land, rolling. Soil, 2nd rate, sandy, gravelly. No timber. Undergrowth, tesseta, greasewood, black brush, mesquite. Land covered with dense undergrowth, 80.00 chs.
	East on a random line bet. secs. 21 & 28.
40.00	Set temp. 1/4 sec. cor.
80.04	Intersect Cor. of secs. 21, 22, 27 & 28, whence I run, West on a true line bet. secs. 21 & 28. Over rolling land, through very dense mesquite, with great difficulty.
9.50	Telephone line, brs. N. 27° W. & S. 27° E.
10.80	Main road, brs. NNW. & SSE.
40.02	Set a limestone 24x12x8 ins. 13 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face, from which A mesquite 6 ins. diam. brs. S. 75 1/4° W. 70 lks. dist., marked 1/4 S. 28 B.T. A mesquite tree 6 ins. diam. brs. N. 73° W. 278 lks. dist., marked 1/4 S. 21 B.T.
79.20	Road, brs. NE. & SW.
80.04	To cor. of secs. 20, 21, 28 & 29. Land, rolling. Soil, 2nd & 3rd rate, sandy, loamy. Timber, mesquite, Undergrowth, mesquite, tesseta, greasewood. Land covered with dense undergrowth, and exceptionally difficult to survey, 80.04 chs.

May 27, 1909.

Subdivision of T. 21 S. R. 22 E.

Chains May 28, 1909.
 At 7h a.m., l.m.t., at the cor. of secs. 20, 21, 28 & 29, ✓
 I set off 21° 26' N. on the decl. arc and 31° 34½' N. on
 the lat. arc and determine true meridian with the solar.
 Thence I run,
 N. 0° 2' W. bet. secs. 20 & 21.
 Over rolling land through dense tesseta & blackbrush.
 desc. grad.
 9.80 Road, brs. E. & W.
 15.00 Main wash 2 chs. wide, course W. asc. grad.
 40.00 Top of rise,
 Set a limestone 20x10x6 ins. 15 ins. in 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.
 No bearings available.
 56.00 Leave undergrowth, brs E. & W. enter open flat.
 76.00 Leave flat, enter dense tesseta & blackbrush, brs. E. & W.
 80.00 Set a limestone 20x12x10 ins. 15 ins. in the ground for
 Cor. of secs. 16, 17, 20 & 21, marked with 3 notches on
 S. & 4 notches on E. edges, dig pits 18x18x12 ins. in each
 sec. 5½ ft. dist. and raise a mound of earth 4 ft. base 2
 ft. high W. of cor.
 No bearings available.
 Land, rolling. Soil, 2nd & 3rd rate, sandy, gravelly.
 No timber.
 Undergrowth, tesseta, greasewood, mesquite, blackbrush.
 Land covered with dense undergrowth, 60.00 chs.
 Level land, 20.00 chs.

East on a random line bet. secs. 16 & 21
 40.00 Set temp. ¼ sec. cor.
 79.80 Intersect N. & S. line 4 lks. S. of cor. of secs.
 15, 16, 21 & 22, whence I run,
 S. 89° 58' W. on a true line bet. secs. 16 & 21.
 Over rolling land, through dense tesseta & blackbrush.
 30.00 Enter open grassy flat, brs NE. & SW.
 39.90 Set a limestone 20x12x10 ins. 15 ins. in ground for
 ¼ sec. cor. marked ¼ on N. face, dig pits 18x18x 12 ins.
 E. & W. of stone 3 ft. dist. and raise a mound of
 earth 3½ ft. base 1½ ft. high N. of cor.
 No bearings available.
 48.50 Telephone line, brs. NNW. & SSE.
 50.25 Road, brs. NNW. & SSE.
 71.15 Road, brs. N. & S.
 73.00 Enter dense tesseta & blackbrush, brs. N. & S. leave flat
 79.80 To cor. of secs. 16, 17, 20 & 21.
 Land, rolling. Soil, 2nd & 3rd rate, sandy, loamy.
 No timber. Undergrowth, tesseta, blackbrush, mesquite.
 Land covered with dense undergrowth, 36.80 chs.
 Level land, 43.00 chs.

N. 0° 2' W. bet. secs. 16 & 17.
 Over rolling land, through dense tesseta & blackbrush.
 25.00 Leave undergrowth, enter open flat, brs . E. & W.
 40.00 Set a limestone 20x10x10 ins. 15 ins. in ground for
 ¼ sec. cor. marked ¼ on W. face and dig pits 18x18x12 ins.
 N. & S. of cor. 3 ft. dist. and raise a mound of
 earth 3½ ft. base 1½ ft. high W. of cor.
 No bearings available.
 61.60 Road, brs. E. & W. desc. grad.
 65.00 Enter dense tesseta, brs. E. & W.
 75.00 Gulch 30 lks. wide, course SW.
 80.00 Set a porphyry stone 24x15x10 ins. 18 ins. in ground for
 Cor. of secs. 8, 9, 16 & 17; marked with 4 notches on S. & E.
 edges and raise a mound of stone 2 ft. base 1½ ft. high W. of cor.
 No bearings available.
 Land, rolling. Soil, 2nd rate, sandy, loamy, gravelly.
 No timber. Undergrowth, tesseta, mesquite, greasewood.
 Land covered with dense undergrowth, 40.00 chs.
 Level land, 40.00 chs.

Subdivision of T. 21 S. R. 22 E.

Chains	
	N. 89° 58' E. on a random line bet. secs. 9 & 16.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.86	Intersect N. & S. line 5 lks. S. of cor. of secs. 9, 10, 15 & 16,
	whence I run,
	S. 89° 56' W. on a true line bet. secs. 9 & 16.
	Over rolling land, through dense tesseta, & greasewood,
	very high and dense, with great difficulty.
39.93	Set a limestone 15x10x6 ins. 10 ins. in ground for
	$\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face and dig pits 18x18x12 ins.
	E. & W. of stone 3 ft. dist. and raise a mound of
	earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high N. of cor.
	No bearings available.
50.00	Enter draw, 150 lks. wide, course WSW. open land
59.25	Telephone line, brs. NE. & SW.
60.00	Leave draw, runs SW. enter very dense tesseta,
62.20	Main road, brs. N. & S.
79.86	To cor. of secs. 8, 9, 16 & 17.
	Land, rolling.
	Soil, 2nd & 3rd rate, sandy, loamy, gravelly.
	No timber. Undergrowth, tesseta, greasewood, blackbrush.
	Land covered with dense undergrowth, and
	exceptionally difficult to survey, 69.86 chs.
	Level land, 10.00 chs.
	At this cor. at noon, I set off 21° 27 $\frac{1}{2}$ ' N. on the decl.
	arc and observe the sun on the meridian.
	The resulting lat. is 31° 36 $\frac{1}{2}$ ' N.
	N. 0° 2' W. bet. secs. 8 & 9.
	Over broken and stony ground asc. grad., through
	dense tesseta, land slope E. & S.
40.00	Set a limestone 24x14x12 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.
40.35	Main road, brs. NW. & SE. par. to telephone line.
40.60	Telephone line, brs. N. 47° W. & S. 47° E.
	Asc. grad.
76.00	Top of ridge, brs. E. & W. desc. grad.
80.00	Set a quartzite stone 20x12x6 ins. 15 ins. in the ground for
	Cor. of secs. 4, 5, 8 & 9, marked with 5 notches on S. &
	4 notches on E. edges, and raise a mound of stone 2 ft.
	base $1\frac{1}{2}$ ft. high W. of cor.
	No bearings available.
	Land, rolling. broken.
	Soil, 2nd & 3rd rate, stony, gravelly, sandy.
	No timber.
	Undergrowth, tesseta, mesquite, greasewood, ocotillo.
	Land covered with dense undergrowth, 80.00 chs.

Subdivision of T. 21 S. R. 22 E.

Chains

N.89° 56' E. on a random line bet. secs. 4 & 9.
 40.00 Set temp. $\frac{1}{4}$ sec.cor.
 79.90 Intersect N. & S. line 9 lks. N. of cor. of secs.,3,4,
 9 & 10, whence I run,
 West on a true line bet. secs. 4 & 9.
 Over rolling land, through dense tesseta & blackbrush.
 1.00 Draw, 3 chs. wide, course SW.
 39.95 Set a limestone 24x12x10 ins. 15 ins. in 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.
 No bearings available.
 Asc. grad.
 76.00 Top of rise, desc.
 79.90 To cor. of secs. 4,5,8 & 9.
 Land, rolling.
 Soil, 2nd & 3rd rate, sandy, gravelly, stony.
 No timber.
 Undergrowth, tesseta, blackbrush, greasewood.
 Land covered with dense undergrowth, 79.90 chs.

N.0° 2' W. bet. secs. 4 & 5.
 Over rolling, stony ground desc. grad., through dense
 tesseta & greasewood.
 4.25 Wash 20 lks. wide, course SW.
 15.50 Wash 20 lks. wide, course W.
 29.10 Wash 15 lks. wide, course SW.
 40.00 Set a limestone 20x12x8 ins. 15 ins in 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.
 No bearings available.
 48.50 Wash 150 lks. wide, course SW.
 53.15 Telephone line, brs. NE. & SW. from Tombstone to
 Fort Huachuca.
 55.50 Pipe line , brs. NE. & SW. water main To tombstone from
 Huachuca Mts.
 65.00 Wash 30 lks. wide, course SW.
 85.70 Intersect 4th Std. Par.N. at poin, whence
 Std. $\frac{1}{4}$ sec.cor. on S. Bdy. sec. 32, ^{mkd. and wit. as desc. by the S.C.} brs. E. 8.75 chs.
 Set a sandstone 20x10x10 ins. 15 ins. in ground for
 Closing cor. of secs. 4 & 5, marked
 C.C. on S., with 4 grooves on E. & 2 grooves on W. faces
 and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high
 S. of cor.
 No bearings available.
 Land, rolling .
 Soil, 2nd & 3rd rate, stony, gravelly.
 No timber.
 Undergrowth, tesseta, greasewood, mesquite.
 Land covered with dense undergrowth, 85.70 chs.

May 28, 1909.

Subdivision of T. 21 S. R. 22 E.

Chains

May 29, 1909.

At 7h a.m., l.m.t., at the cor. of secs. 16, 17, 20 & 21, as recently established by me and heretofore described, I set off 21° 36' N. on the decl. arc and 31° 35½' N. on the lat. arc and determine a true meridian with the solar. Thence I run, as per instructions,

West, on a random line, for auxiliary base line.

At 157.25 chs. Intersect W. bdy. of Tp. 64 lks. N. of cor. of secs. 18, 19, 13 & 24, whence I run, N. 89° 46' E. on a true line, bet. secs. 18 & 19.

Over broken and mts. land, through dense tesseta

- 17.00 Telephone line brs. NNE and SSW.
- 25.00 Desc. steep. Pipe line brs. NNE and SSW.
- 28.00 Foot of slope enter valley, and dense mesquite & sacaton.
- 32.00 W. Bank of San Pedro River, course N.
- 33.40 E. bank of San Pedro River, course N.
- 35.60 Wire fence, brs. NNW. & SSE. Leave sacaton.
- 36.48 Centre of single track of El Paso & Southwestern R.R., brs. N. 20° W. & S. 20° E.
- 37.25 Set a sandstone 20x10x10 ins. 15 ins. in 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. House of J.G. Wolff, brs. S. 72° W. 20 chs. dist. No trees available.
- 37.35 Wire fence, Par. to R.R. Leave valley and asc. AND TELEGRAPH LANE
- 53.75 Gulch 50 lks. wide, course SW. Thence over very rough broken mts. land with great difficulty.
- 57.75 Same gulch as above, course NW.
- 61.25 " " " " " SW.
- 70.55 " " " " " N W.
- 77.00 Desc. abrupt into same gulch.
- 77.25 Cor. point for cor. of secs. 17, 18, 19 & 20 falls in gulch 50 lks. wide, 30 ft. deep, course SW. At point 30 lks. N. on bank, I Set a quartzite stone 18x12x10 ins. 12 ins. in ground for Witness cor. to cor. of secs. 17, 18, 19 & 20, marked W.C. on NE., face, with 3 notches on S. & 5 notches on E. edges, and raise a mound of stone 2 ft. base 1½ ft. high W. of cor. from which, A mesquite tree 6 ins. diam. brs. S. 54° W. 21 lks. dist., marked T. 21 S. R. 22 E. S. 18 W.C.B.T. No other bearings available. Land, rolling, broken, mts. Soil, 2nd & 3rd rate, sandy, loamy, gravelly, stony. Timber, mesquite. Undergrowth, mesquite, tesseta, greasewood, sacaton. Land covered with dense undergrowth, 53.75 chs. Broken and mts. land covered with dense undergrowth, and exceptionally difficult to survey, 23.50 chs.

From cor. point for cor. of secs. 17, 18, 19 & 20, I run, N. 89° 46' E. bet. secs. 17 & 20.

Over mts. land, asc. with great difficulty, through dense tesseta and blackbrush.

- 30.00 Top of high rocky Butte, brs. N. & S. desc. over very steep, stony ground, with great difficulty.
- 40.00 Foot of steep slope, brs. N. & S. Set a limestone 20x12x10 ins. 15 ins. in 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. No bearings avail. Desc. grad, through dense tesseta, & greasewood.
- 80.00 To Cor. of secs. 16, 17, 20 & 21. Land, mts. rolling. Soil, 2nd 3rd, rate, stony, sandy. No Timber. Undergrowth, tesseta, mesquite, greasewood. Land covered with dense undergrowth, 40.00 chs. Mts. land exceptionally difficult to survey, 40.00 chs.

Subdivision of T. 21 S. R. 22 E.

Chains From the cor. point for cor. of secs. 17, 18, 19 & 20, I run, as per instructions,
 S. 0° 3' E. bet. secs. 19 & 20.
 Over mts. land asc. with great difficulty,
 2.00 Point of ridge, brs. E. & W. desc.
 6.00 Gulch, 60 lks. wide, course NW. asc. through very dense tesseta, & greasewood.
 20.00 Point of Spur, brs. E. & W., desc. steep.
 40.00 Set a limestone 20x10x10 ins. 15 ins. in 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.
 No bearings available.
 Top of high rocky butte, brs. W. 22 chs. dist.
 60.00 Gulch 30 lks. wide, course W. asc. very dense mesquite.
 70.00 Top of mesa, brs. E. & W. desc. grad. over broken ground.
 80.00 Set a granite stone 24x12x8 ins. 18 ins. in ground for Cor. of secs. 19, 20, 29 & 30, marked with 2 notches on S. & 5 notches on E. edges and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high W. of cor.
 No bearings available.
 Land, mts., broken.
 Soil, 2nd & 3rd rate, stony, gravelly.
 No timber.
 Undergrowth, mesquite, tesseta, greasewood.
 Mts. land covered with dense undergrowth, and exceptionally difficult to survey, ... 80.00 chs.
 At this cor. at noon, I set off 21° 37' N. on the decl. arc and observe the sun on the meridian.
 The resulting lat. is 31° 35' N. ✓

S. 0° 3' E. bet. secs. 29 and 30
 Over broken mesa, through very dense mesquite, with great difficulty.
~~5.88~~
 6.08 Intersect N. Bdy. San Rafael del Valle Grant, whence witness cor. to $\frac{1}{2}$ mile cor. of Grant ^{mkd. & wit. as desc. by the S.G.} brs.
 S. 76° 28' 30" W. 13.26 chs.
 Set a granite stone 24x15x10 ins. 18 ins. in the ground for Closing cor. of secs. 29 & 30, marked C.C. on N.,
 S.R.D.V. on S., with 5 grooves on E. faces, and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high N. of cor.
 No bearings available.
 Land covered with dense undergrowth, and exceptionally difficult to survey, 6.08 chs.

N. 89° 46' E. on a random line bet. secs. 20 & 29 .
 40.00 Temp. $\frac{1}{2}$ sec. cor. point. unmarked,
 80.04 Intersect N. & S. line 14 lks. N. of cor. of secs. 20, 21, 28 & 29, whence I run,
 S. 89° 52' W. on a true line bet. secs. 20 & 29.
 Over rolling land, through dense tesseta, & black brush.
 16.36 Intersect E. Bdy. San Rafael del Valle Grant, whence, ^{mkd. & wit. as desc. by the S.G.} 1 $\frac{1}{2}$ mile cor. brs. S. 13° 31' 30" E. 6.62 chs. dist.,
 Set a sandstone 20x10x6 ins. 15 ins. in ground for East closing cor. of secs. 20 & 29, marked C.C. on E.,
 S.R.D.V. on W., with 2 grooves on S. faces and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high E. of cor.
 No bearings available. Thence on blank line cont. measurement.
 54.52 Intersect N. Bdy. of San Rafael del Valle Grant, whence, ^{mkd. & wit. as desc. by the S.G.} 1 mile cor. of Grant brs. N. 76° 28' 30" E. 12.55 chs. dist.
 Set a granite stone 24x8x8 ins. 18 ins. in ground for West closing cor. of secs. 20 & 29, marked C.C. on W.,
 S.R.D.V. on E., with 2 grooves on S. faces and raise a md. of earth 4 ft. base 2 ft. high W. of cor., dig pits 36x24x12 ins. N. 76° 30' E. 3 ft. and 24x18x12 ins. W. of stone 7 ft. dist. and
 No bearings available.

Subdivision of T. 21 S. R. 22 E.

Chains

- 72.00 Desc. abrupt 12 ft.
 74.50 Deep wash 4 chs. wide, course WSW. Head of spring.
 76.00 Asc. abrupt 15 ft.
 80.04 To cor. of secs. 19, 20, 29 & 30.
 Land, rolling, broken.
 Soil, 2nd & 3rd rate, sandy, gravelly.
 No timber.
 Undergrowth, mesquite, tesseta, very dense.
 Land covered with dense undergrowth, and
 exceptionally difficult to survey, ... 80.04 chs.
-
- S. 39° 46' W. on a random line bet. secs. 19 & 30.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 77.52 Intersect W. bdy. of Tp. 9 lks. S. of cor. of secs. 19, 30,
 24 & 31, whence I run,
 N. 39° 50' E. on a true line bet. secs. 19 & 30.
 Over broken, land, through dense tesseta & greasewood.
 12.00 Desc,
 14.50 Road, brs. NW. & SE. Fairbanks to Hereford.
 18.00 House of H.W. Hasselgren, brs. N. 13 chs. dist.
 19.24 Wire fence, brs. N. & S. foot of slope, N. & S.
 enter dense sacaton.
 37.52 Set a sandstone 24x12x8 ins. 18 ins. in 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.
 No bearings available.
 39.70 W. bank of San Pedro River, course N. NE.
 42.00 Middle of Sant Pedro River, water 2 chs wide, 6 ins. deep.
 44.50 E. bank of San Pedro River.
 53.20 Wire fence, brs. NNW. & SSE. Leave sacaton & asc.
 54.00 Middle of single track of El Paso & Southwestern R.R.,
 brs. S. 21° 58' E. & N. 21° 58' W.
 54.80 Wire fence par. to R.R. and telegraph line...
 72.00 House of Mrs. L. Hasselgren, brs. S. 16 chs. dist.
 77.52 To cor. of secs. 19, 20, 29 & 30.
 Land rolling, broken.
 Soil, 1st 2nd & 3rd rate, sandy, loamy. gravelly.
 Timber, mesquite, cottonwood, willow.
 Undergrowth, mesquite, tesseta, greasewood, willow.
 Band covered with dense undergrowth, 77.52 chs.
 May 29, 1909.

Subdivision of T. 21 S. R. 22 E.

Chains	<p>May 30, 1909.</p> <p>At 7h a.m., l.m.t., at the cor. point of secs. 17, 18, 19 & 20, I set off 21° 45' N. on the decl. arc and 31° 35' N. on the lat. arc and determine a true meridian with the solar.</p> <p>Thence I run, N. 0° 3' W. bet. secs. 17 & 18.</p> <p>Over very rough mts. land asc, through dense tesseta & mesquite, with great difficulty.</p> <p>30.50 Top of W. point of rocky butte, brs. E. & W. desc. steep.</p> <p>40.00 Set a quartzite stone 20x10x10 ins. in mound of stone on bedrock for ¼ sec. cor. marked ¼ on W. face and raise a mound of stone 2 ft. base 1½ ft. high W. of cor. No bearings available.</p> <p>57.90 Foot of steep slope, gulch 80 lks. wide, course NW. Thence over very broken ground, through dense tesseta, with great difficulty.</p> <p>62.25 Enter rocky draw.</p> <p>63.80 Road, brs. E. & W.</p> <p>68.00 Main gulch 2 chs. wide, course W. Leave draw & asc.</p> <p>80.00 Set a granite stone 18x18x10 ins. 12 ins. in ground for Cor. of secs. 7, 8, 17 & 18, marked with 5 notches on E. ed and 4 notches on S. edges, and raise a mound of stone 2 ft. base 1½ ft. high W. of cor. No trees available.</p> <p>From this cor. A pine post 3x4 ins. set in large mound of stone on top of a high rocky granite butte, marked U.S.L.M. on one face and T.D. on opposite face, brs. N. 73° 22' W. 90.40 chs. Land mts., very rough and broken. steep rocky slopes. Soil, 2nd & 3rd rate, stony, gravelly. No timber. Undergrowth, mesquite, tesseta, greasewood, ocotillo. Mts. and broken land covered with dense undergrowth, and exceptionally difficult to survey, 80.00 chs.</p> <hr/> <p>N. 89° 46' E. on a random line bet. secs. 8 & 17.</p> <p>40.00 Set temp. ¼ sec. cor.</p> <p>80.00 Intersect N. & S. line 7 lks. S. of cor. of secs. 8, 9, 16 & 17, whence I run, S. 89° 43' W. on a true line bet. secs. 8 & 17. Over broken land, through dense tesseta.</p> <p>21.50 Wash 50 lks. wide, course SW. ascend.</p> <p>40.05 Set a sandstone 18x12x10 ins. 12 ins. in 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. No bearings available.</p> <p>Asc. grad.</p> <p>60.00 Point of ridge, brs. N. & S. desc. steep.</p> <p>66.70 Gulch 30 lks. wide, course S.</p> <p>80.10 To cor. of secs. 7, 8, 17 & 18. Land, rolling, broken. Soil, 2nd & 3rd rate, stony, gravelly. No timber. Undergrowth, mesquite, tesseta, greasewood. Land covered with dense undergrowth, 80.10 chs.</p>
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Subdivision of T. 21 S. R. 22 E.

Chains

S. 89° 46' W. on a random line bet. secs. 7 & 18.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 76.92 Intersect W. bdy. of Tp. 9 lks. N. of cor. of secs. 7, 12, 13 & 18, whence I run,
 N. 89° 42' E. on a true line bet. secs. 7 & 18.
 Over broken land, asc. through dense tesseta & greasewood.
 18.00 Wash 50 lks. wide, course SW.
 25.00 Wash 50 lks. wide, course SW.
 27.00 Ridge, brs. SW. & NE.
 28.00 Draw 2 chs. wide, course SW.
 30.00 Ridge, brs. SW. & NE. desc.
 32.00 Enter main draw, SW.
 35.00 Old road, brs. SW. & NE.
 36.92 Set a sandstone 24x12x8 ins. 18 ins. in 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.
 No bearings available.
 38.00 Wash, 20 lks. wide, course SW., leave draw & asc.
 63.00 Wash 1 ch. wide, course SW.
 66.60 Pipe line, water main, Tombstone to Huachuca mts. ^ENW. & ^WSE.
 72.00 Telephone line, brs. NW. & SE.
 76.92 To cor. of secs. 7, 8, 17 & 18.
 Land, broekn, rolling.
 Soil, 3rd rate, stony, gravelly.
 No timber.
 Undergrowth, mesquite, greasewood, tesseta, ocotillo.
 Land covered with dense undergrowth, 76.92 chs.

N. 0° 3' W. bet. secs. 7 & 8.
 Over very broken, stony, ground through dense tesseta.
 8.50 Telephone line, Fort Huachuca to Tombstone, brs. N. 32 $\frac{1}{2}$ ° E. and S. 32 $\frac{1}{2}$ ° W.
 15.35 Pipe line, Fort Huachuca to Tombstone, brs. S. 32 $\frac{1}{2}$ ° W. & N. 32 $\frac{1}{2}$ ° E.
 17.00 Wash 50 lks. wide, course WSW.
 40.00 Set a granite stone 24x8x10 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.
 No bearings available.
 U.S.L.M. No. 3, as already located and described, brs. S. 80° 47' W.
 58.50 Wash 50 lks. wide, course NW.
 62.00 Wash 30 lks. wide, course NW.
 65.40 Main wash 80 lks. wide, course W. asc.
 80.00 Set a granite stone 24x12x8 ins. 18 ins. in ground for Cor. of secs. 5, 6, 7 & 8, marked with 5 notches on S. & E. edges and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high W. of cor. No bearings available.
 From this cor.;
~~U.S.L.M. No. 3, as heretofore described and located, brs. S. 50° W. 102.15 chs.~~
 The remains of U.S.L.M. No. 4, which is a large mound of stone from which the post has been removed, at the S. end of a large boulder, which mon. I have previously located, and on which I have placed a large flag, brs. N. 58° 26' W. 154.80 chs. dist.,
 This U.S.L.M. No. 4 is on top of a high granite hill about $\frac{3}{4}$ mile NE. of the old town of Charleston, and from the orig. point as located by me,
 The old bronkow house, brs. S. 69° E.
 An old quartz mill, brs. S. 50 $\frac{1}{2}$ ° W. about $\frac{1}{2}$ mile dist.
 An old shaft, brs. S. 43° E. about 1 mile dist.
 The hill on which a U.S.L.M. is located brs. S. 58° W.
 A sharp butte, brs. N. 10 $\frac{1}{2}$ ° W. about $\frac{1}{4}$ mile dist.
 I am unable to find any trace of the original monuments or corners of the patented mineral claims, as they have all been destroyed, and the ground covered with new location monuments.

Subdivision of T. 21 S. R. 22 E.

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Chains

Land, rolling, broken.
 Soil, 2nd & 3rd rate, mineral bearing., stony.
 No timber.
 Undergrowth, mesquite, tesseta, greasewood.
 Land covered with dense undergrowth, 80.00 chs.
 At the last described sec. cor. at noon, I set off 21° 46' N. on the decl. arc and observe the sun on the meridian. The resulting lat. is 31° 37' N.

N. 89° 43' E. on a random line bet. secs. 5 & 8.
 40.00 Set temp. ¼ sec. cor.
 79.94 Intersect N. & S. line 5 lks. S. of cor. of secs. 4, 5, 8 & 9. whence I run,
 S. 89° 41' W. on a true line bet. secs. 5 & 8.
 Over rolling land, broken & stony, asc. grad. through dense tesseta & greasewood.
 17.00 Rocky knoll, brs. N. & S.
 28.00 Wash 10 lks. wide, course N.
 33.50 Telephone line, brs. N. 56° E. & S. 56° W. and pipe line.
 39.98 Set a quartzite stone 24x8x6 ins. 18 ins. in 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.
 42.10 Road, brs. NW. & SE.
 44.00 Telephone line brs. NW. & SE.
 46.00 Wash 80 lks. wide, course WSW.
 47.00 Wash 30 lks. wide, course SW.
 67.60 Old road, brs. N. & S.
 79.94 To cor. of secs. 5, 6, 7 & 8.
 Land, rolling, broken.
 Soil, stony, sandy, gravelly, 3rd rate.
 No timber. Undergrowth, mesquite, tesseta, greasewood.
 Land covered with dense undergrowth, 79.94 chs.

S. 89° 42' W. on a random line bet. secs. 6 & 7.
 40.00 Set temp. ¼ sec. cor.
 76.60 Intersect W. bdy. of Tp. 5 lks. N. of cor. of secs. 1, 6, 7 & 12, whence I run,
 N. 89° 40' E. on a true line bet. secs. 6 & 7.
 Over broken & rolling land, through dense tesseta.
 2.00 Wash 30 lks. wide, course NW. asc.
 36.60 Set a granite stone 15x10x6 ins. 10 ijs. in 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.
 No bearings available.
 76.60 To cor. of secs. 5, 6, 7 & 8.
 Land, rolling, broken. Soil, 3rd rate, stony.
 No timber. Undergrowth, tesseta, ocotillo.
 Land covered with dense undergrowth, 76.60 chs.

N. 0° 3' W. bet. secs. 5 & 6.
 Over rolling land, asc. grad. through dense tesseta,
 34.80 Road, brs. N W. & SE.
 35.90 Telephone line, brs. N. 45° W. & S. 45° E.
 40.00 Set a quartzite stone 20x9x6 ins. 15 ins. in ground for ¼ sec. cor. marked ¼ on W. face, dig pits 18x18x12 ins. N. & S. of stone 3 ft. dist. and raise a mound of earth 3½ ft. base 1½ ft. high W. of cor. No bearings available.
 U.S.L.M. No. 4 as already described, brs. N. 72° 43' W.
 85.93 Intersect 4th Std. Par. S. at point, whence, Std. ¼ sec. cor. on S. bdy. sec. 31, brs. E. 8.52 chs. dist.
 Set a sandstone 15x8x8 ins. 10 ins. in ground for Closing cor. of secs. 5 & 6, marked C.C. on S. with 5 grooves on E. & 1 groove on W. faces and raise a mound of stone 2 ft. base 1½ ft. high S. of cor. No bearings avail.
~~U.S.L.M. No. 3 brs. S. 31° 30' W.~~
 U.S.L.M. No. 4 brs. S. 87° 55' W. 132 chs.
 Land, rolling. Soil, 2nd rate, sandy, gravelly, stony.
 No timber. Undergrowth, tesseta, greasewood, black brush.
 Land covered with dense undergrowth, 85.93 chs.

Subdivision of T. 21 S. R. 22 E.

Chain

General Description.

This Township is mostly a broken, rolling mesa or plain, covered almost throughout with a dense undergrowth of mesquite, tesselata, greasewood, and blackbrush. The soil ranges from a loam to sandy, gravelly and stony, being very fertile in the broad washes and draws, and in the small tracts along the San Pedro River. There is some mesquite timber in the large washes and in the lowland of the river, also some cottonwood willow, and walnut along the River. The NW. portion is more broken and the small buttes therein are very stony and almost inaccessible. There is but little water in the tp. The San Pedro River has a permanent flow of about 80 miners inches of water, which could be used to great advantage in irrigating the small tracts along the River. H.W. Hasselgren has a small house in sec. 19, and has fenced and improved small tracts of land in the valley. J.G. Wolff has a substantial house in NW. $\frac{1}{4}$ of sec. 19 and has highly improved the land he occupies. Chas Labrosse has a tent house, with well and other small improvements in sec. 13, being a hay ranch. Mrs. L. Hasselgren has a small tract of land outside the San Rafael land grant in sec. 30, though her residence, which is a substantial, good dwelling is within the Grant. The land in the NW. portion of the tp. is mineral bearing, and shows evidence of having been prospected in many places, but the workings are more superficial than thorough. The original patented claims in sec. 6 appear to have been abandoned, as all traces of the orig. corner monuments have been obliterated, and the ground covered with new location monuments.

The proper closing of my lines on the exterior lines of the San Rafael del Valle Grant required extreme care and accuracy in the alignment and measurement. I find the lines of said Grant excellent in measurement and alignment and the corners well established. However, the line of the W. bdy. of T. 21 S. R. 22 E. is somewhat erroneous, and the measurements barely in limits, making it somewhat difficult to close my surveys in a satisfactory manner.

In the execution of these surveys as I employed my assistants in the immediate vicinity of the work and as considerable delay and expense would have been incurred to appear before a Notary public or other officer duly qualified to administer the necessary oaths, I was compelled to administer the preliminary and final oaths to my assistants.
May 30, 1909.

James B. Wright
U.S. Deputy Surveyor.

No authority for red ink corrections see Deputy's letter Sept. 7 09.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Jesse B. Wright
....., 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

Subdivision of T. 21 S. R. 22 E.

showing the respective capacities in which they acted:

- Walter Perawal....., Chainman.
- Robt. H Fitzpatrick....., Chainman.
- Harvey Marsh....., Moundman.
-, Moundman.
- Harry William Heisen....., Axman.
-, Axman.
- Robert Fitzpatrick Jr......, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Jesse B. Wright
....., United States Deputy Surveyor, in surveying all
those parts or portions of the

Subdivision of T. 21 S. R. 22 E

..... of the Gila &
Salt River Base & meridian, Terr. of Arizona....., which are represented
in the foregoing field notes as having been surveyed by him and under his direction; and that said survey
has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the
corner monuments established, according to the instructions furnished by the United States Surveyor

General for Arizona

- Walter Perawal....., Chainman.
- Robert H Fitzpatrick....., Chainman.
- Harvey Marsh....., Moundman.
-, Moundman.
- Harry William Heisen....., Axman.
-, Axman.
- Robert Fitzpatrick Jr......, Flagman.

Subscribed and sworn to before me this 30th
day of May....., 1909

Jesse B. Wright
.....
U. S. Dep. Surveyor



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BOOK 2167

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Jesse B. Wright, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Frank S. Ingalls United States Surveyor General for Arizona, bearing date of the 9th day of February, 1909, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Arizona, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of

Subdivision of T. 21 S. R. 22 E.

of the Gila & Salt River Base & meridian, in the Terr of Arizona, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Arizona and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

Jesse B. Wright
United States Deputy Surveyor.

Subscribed by said Jesse B. Wright, and sworn to before me }
this 5th day of June, 1909

A. M. ...
U.S. Commissioner



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Floris ... Jan 20, 1910

The foregoing field notes of the survey of the subdivision lines of fractional T. 21 S. R. 22 E. Gila and Salt River Base and Meridian, Arizona

executed by Jesse B. Wright U.S. Deputy Surveyor under his contract No. 154, dated July 9, 1909, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Frank S. 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.