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Book J.

BOOK 2175

SER 1-1909

Accepted, Sept letter E.
May 7-1910.

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FIELD NOTES

OF THE SURVEY OF THE

2175

Subdivision of T. 19 S. R. 23 E.

2175

2175

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

AS SURVEYED BY

Jesse D. Wright, United States Deputy Surveyor,

Under his Contract No. 150, dated June 4, 1909

Survey commenced August 17, 1909

Survey completed August 25, 1909

6-161

2175

2175

2175

79 (1A)

BOOK 2175

NAMES AND DUTIES OF ASSISTANTS.

Edgar M. Darnall, Chairman.

Santiago Vindiola, Chairman.

Guadalupe Pacheco, Moundman.

Allen A. Thompson, Axeman.

Manuel Vindiola, Flagman.

BOOK 2175

INDEX DIAGRAM.

Subdivision.

Township 19 South, Range 23 East

6	25	5	19	4	14	3	10	2	6	1
24		24		19		14		10		5
7	24	8	18	9	14	10	11	11	5	12
23		23		18		13		9		7
18	23	17	17	16	13	15	9	14	7	13
22		22		17		12		8		3
19	22	20	17	21	12	22	8	28	3	24
21		21		16		12		7		2
30	21	29	16	28	12	27	7	26	2	25
20		20		15		11		7		2
31	20	32	15	33	11	34	6	35	1	36

Meanders Page

81
(C) BOOK 2175

PRELIMINARY OATHS OF ASSISTANTS.

WE, Edgar M. Darnall and Santiago Vindiola
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. 19 S. R. 23 E.

Edgar M. Darnall, Chainman.
Santiago Vindiola, Chainman.

Subscribed and sworn to before me this 7th
day of August, 1909

My commission expires August 11, 1911

J. A. Penstemaker
Notary Public

WE, Guadalupe Beheco 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. 19 S. R. 23 E.

Guadalupe Beheco, Moundman.

Subscribed and sworn to before me this 7th
day of August, 1909

My commission expires August 11, 1909

J. A. Penstemaker
Notary Public
and Allen A. Thompson

WE, Allen A. Thompson 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. 19 S. R. 23 E.

Allen A. Thompson, Axman.

Subscribed and sworn to before me this 7th
day of August, 1909

my com. expires Aug. 11, 1909

J. A. Penstemaker
Notary Public

I, Manuel Vindiola 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. 19 S. R. 23 E.

Manuel Vindiola, Flagman.

Subscribed and sworn to before me this 7th
day of August, 1909

My commission expires August 11, 1909

J. A. Penstemaker
Notary Public

Subdivision of T. 19 S. R. 23 E.

Chains

Survey commenced August 17, 1909, and executed with a Young & Son's light mountain transit No. 6492 with Smith patent solar attachment on side.

The horizontal limb of the instrument is provided with two double verniers each reading to 1' of arc, which is also the least reading of the verniers of the lat. and decl. arcs of the solar.

I examine, and test carefully the levels, the line of collimation, and standards of the instrument and find same correct. I also test the lat. arc of the solar which is correct.

All parts of the instrument being in satisfactory adjustment, then to test the solar apparatus by comparing the results of observations for meridians made during a.m. & p.m. hours with a true meridian determined by Polaris observations, I proceed as follows:

At 5h p.m., l.m.t., at the cor. of secs. 35, 36, 1 & 2 on S. bdy. of Tp. recently established by me and heretofore described, Lat. $31^{\circ}43'24''$ N. Long. $109^{\circ}57'49''$ W.

I set off $31^{\circ}43\frac{1}{2}'$ N. on the lat. arc and $13^{\circ}25'$ N. on the decl. arc and determine a meridian with the solar, and mark a point in the meridian thus determined by a cross on a fixed stone 5 chs. N. of my station.

At 9h $48\frac{1}{2}$ m. p.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 5 chs. N. of my station.

August 18, 1909.

At 6h a.m., l.m.t., I set off the azimuth of Polaris $1^{\circ}23\frac{1}{2}'$ to the W. and mark the true meridian thus determined by a mark on the fixed stone 5 chs. N. of my station, which point falls .30 ins. W. of the point in the meridian determined by the solar on preceding evening.

At 7h a.m., l.m.t., I set off $31^{\circ}43\frac{1}{2}'$ N. on the lat. arc and $13^{\circ}14'$ N. on the decl. arc and determine a meridian with the solar, and mark a point in the meridian thus determined by a mark on the fixed stone 5 chs. N. of my station, which point falls .20 ins. W. of the point in the meridian determined by Polaris observations.

The solar apparatus by p.m. & a.m. observations, defines positions for meridians, respectively $15''$ E. and $10''$ W. of the meridian determined by Polaris observations.

These errors being probably 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., is N. $13^{\circ}50'$ W.; the angle thus determined gives the magnetic declination as $13^{\circ}50'$ E.

From the cor. above described, I run,

As per instructions,

N. $0^{\circ}1'$ W. bet. secs. 35 & 36.

Over mts. land desc.

1.50 Head of gulch, course NW. asc.

5.00 Spur, brs. W. & E. desc.

18.00 Wash 80 lks. wide, course WSW. asc.

39.00 Ridge, brs. WSW. & ENE. desc.

40.00 Set a granite stone 24x12x8 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. No bearings avail.

49.00 Main wash 250 lks. wide, course WSW. asc.

58.65 Main road, Tombstone to Gleeson & Courtland, brs. E. & W.

70.50 Old road, brs. SW. & NE. Top ridge, desc.

79.00 Draw 150 lks. wide, course WSW.

80.00 Set a granite stone 24x12x8 ins. 18 ins. in ground for cor. of secs. 25, 26, 35 & 36, marked with 1 notch on S. & E. edges & raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high W. of cor.

Land, mts. Soil, 2nd rate, gravelly.

No timber. Undergrowth, scattering mesquite.

Mts. land 80.00 chs.

Subdivision of T. 19 S. R. 23 E.

Chains

East, on a random line bet. secs. 25 & 36.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.10 Intersect E. bdy. of Tp. at point 2 lks. S. of cor. pt. of
 secs. 25, 36, 30 & 31, whence I run,
 S. $89^{\circ} 59'$ W. on a true line bet. secs. 25 & 36.
 Over mts. land desc.
 1.50 Main wash 2 chs. wide, course SW.
 4.00 Same wash, course NW. asc. bluff.
 10.00 Top of bluff, brs. NW. & SE. desc. grad.
 40.05 Set a granite stone 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.
 43.20 Main road, Tombstone to Gleeson, brs. SW. & NE.
 31.40 Main wash 2 chs. wide, course SW. asc.
 64.50 Old road, top of ridge, brs. SW. & NE. desc.
 80.10 To cor. of secs. 25, 26, 35 & 36.
 77.50 Dry wash 150 lks. wide, course WSW.
 Soil, 2nd & 3rd rate, sandy, gravelly. Land, mountainous.
 No timber.
 Undergrowth, mesquite, & tesselata in washes. Good grass.
 Mts. land, 80.10 chs.

N. $0^{\circ} 1'$ W. bet. secs. 25 & 26.

Over mts. land asc.

10.00 Spur, brs. SW. & NE. desc.
 20.10 Draw 150 lks. wide, course W. asc.
 31.00 Spur, brs. WSW. & ENE. desc.
 35.00 Draw 80 lks. wide, course WSW. asc.
 40.00 Set a granite stone 24x12x8 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.
 No bearings available.
 41.00 Top ridge, brs. WSW. & ENE. desc.
 52.30 Draw 80 lks. wide, course WSW. asc.
 75.50 Ridge, brs. W. & E. desc.
 80.00 Set a granite stone 24x15x12 ins. 18 ins. in ground for
 cor. of secs. 23, 24, 25, & 26, marked with 2 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, Mts. Soil, 2nd rate, gravelly.
 No timber. Undergrowth, scattering mesquite. Good grass.
 Mts. land, 80.00 chs.

N. $89^{\circ} 59'$ E. on a random line bet. secs. 24 & 25.

40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.02 Intersect E. bdy. of Tp. at point 2 lks. N. of cor. of secs.
 24, 25, 19 & 30, whence I run,
 West, on a true line bet. secs. 24 & 25. over SE slope.
 3.00 Over mts. land desc. NW. slope of ridge.
 20.00 Foot of main slope, enter valley of wash.
 30.00 Small drain of water in wash brs. 5. chs. N.
 33.50 Main wash 80 lks. wide, course WSW.
 40.02 Set a granite stone 24x14x8 ins. 18 ins. in ground for
 $\frac{1}{4}$ sec. cor. and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft.
 high N. of cor. No bearings available.
 75.20 Main wash 2 chs. wide, course WNW. asc. steep.
 80.02 To cor. of secs. 23, 24, 25 & 26.
 Land, mts., rolling. Soil, 2nd rate, gravelly.
 No timber. Undergrowth, scattering mesquite in washes.
 Mts. land 20 chs. Rolling land 60.02 chs.
 At this cor. at noon, I set off $13^{\circ} 9'$ N. on the decl.
 arc and observe the sun on the meridian.
 The resulting lat. is $31^{\circ} 45'$ N. ✓

(3)

Subdivision of T. 19 S. R. 23 E.

Chains

- N. $0^{\circ} 1'$ W. bet. secs. 23 & 24.
Over mts. land desc.
- 3.70 Main wash 2 chs. wide, course W. asc. grad.
16.00 Top of long ridge, brs. W. & E. desc. grad.
27.00 Draw 150 lks. wide, course W. asc.
35.00 Point of spur Brs. SW. & NE. desc.
38.00 Draw 100 lks. wide, course W. asc.
40.00 Set a quartzite stone 24x12x8 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.
No bearings available.
- 47.00 Ridge, brs. W. & E. desc.
56.30 Draw 80 lks. wide, course W. asc.
74.40 Head of draw 50 lks. wide, course W. asc.
79.00 Spur, brs. W. & E.
80.00 Set a limestone 18x12x8 ins. 12 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, mts.
Soil, 2nd rate, gravelly.
No timber. Undergrowth, scattering mesquite. good grass.
Mts. land 80.00 chs.
-
- East, on a random line bet. secs. 13 & 24.
40.00 Set temp. $\frac{1}{4}$ sec. cor.
80.00 Intersect E. bdy. of Tp. at point 5 lks. N. of cor. of secs. 13, 24, 18 & 19, whence I run,
N. $89^{\circ} 58'$ W. on a true line bet. secs. 13 & 24.
Over broken & mts. land desc. grad.
- 35.25 Gulch 30 lks. wide, course SW. asc.
40.00 Cor. point falls in same wash, course WNW.
41.00 Set a sandstone 24x15x10 ins. 18 ins. in ground for witness cor. to $\frac{1}{4}$ sec. cor. marked WC. $\frac{1}{4}$ on N. face, and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high N. of cor. from which,
A willow tree 8 ins. diam. brs. S. $82\frac{1}{4}^{\circ}$ E. 85 lks. dist. marked $\frac{1}{4}$ S. 24 W.C.B.T.
No other bearings available.
Asc. from cor.
- 50.00 Top spur, brs. WNW. & ESE. desc. on same.
80.00 To cor. of secs. 13, 14, 23 & 24.
- Land, mountainous.
Soil 2nd rate, gravelly.
No timber. Undergrowth, scattering mesquite. Good grass.
Mountainous land 80.00 chs.

Subdivision of T. 19 S. R. 23 E.

Chains	<p>N. 0° 1' W. bet. secs. 13 & 14. Over mts. land desc.</p> <p>5.00 Gulch 120 lks. wide, course WSW. asc.</p> <p>13.60 Gulch 80 lks. wide, course W. asc. grad. over broken ground.</p> <p>33.65 Old road, top of ridge, brs. SW. & NE. desc.</p> <p>40.00 Set a limestone 24x12x12 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. No bearings available.</p> <p>40.25 Draw 30 lks. wide, course W. asc.</p> <p>54.00 Top of ridge, brs. WSW. & ENE. desc.</p> <p>66.00 Draw 80 lks. wide, course WSW. asc.</p> <p>77.40 Draw 50 lks. wide, course SW. asc.</p> <p>80.00 Set a granite stone 24x12x8 ins. 18 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.</p> <p>Land, mts. Soil, 2nd & 3rd rate, gravelly, stony. No timber. Undergrowth, scattering mesquite, cacti. Mts. land, 80.00 chs.</p> <hr/> <p>S. 89° 58' E. on a random line bet. secs. 12 & 13.</p> <p>40.00 Set temp. $\frac{1}{4}$ sec. cor.</p> <p>80.04 Intersect E. bdy. of Tp. at point 5 lks. S. of cor. of secs. 12, 13, 7 & 18, whence I run, West, on a true line bet. secs. 12 & 13. Over mts. land, desc. grad. along N. slope of ridge.</p> <p>10.00 Top of ridge, down same.</p> <p>4 0.02 Set a quartzite stone 24x14x10 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. desc. grad. NW. slope.</p> <p>76.00 Sandy draw, course SW. asc.</p> <p>80.04 To cor. of secs. 11, 12, 13 & 14. Land, mts. Soil, 2nd & 3rd rate, sandy, gravelly. No timber. Undergrowth, Scattering mesquite, in washes. yucca, cacti. Mountainous land, 80.04 chs.</p> <p style="text-align: right;">August 18, 1909.</p>
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Subdivision of T. 19 S. R. 23 E.

Chains August 19, 1909.
 At 7h a.m., l.m.t., at the cor. of secs. 11, 12, 13 & 14,
 I set off 12° 54' N. on the decl. arc, and 31° 47' N. on
 the lat. arc, and determine a true meridian with the solar.
 Thence I run,
 N. 0° 1' W. bet. secs. 11 & 12.
 Over mts. land asc.
 16.00 Ridge, brs. WSW. & ENE. desc.
 10.00 Foot of slope, enter valley of draw and dense mesquite,
 and tesselata, brs. E. & W.
 32.35 Gulch 120 lks. wide, course W.
 35.33 Gulch 80 lks. wide, course SW. asc.
 40.00 Set a granite stone 24x12x8 ins. 18 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.
 52.00 Spur, brs. SW. & NE. desc. leave mesquite & tesselata.
 56.75 Gulch 30 lks. wide, course SW. asc. through dense scrub oak.
 64.00 Ridge, brs. SW. & NE. desc.
 73.85 Gulch 80 lks. wide, course W. asc.
 80.00 Set a limestone 30x12x12 ins. 24 ins. in ground for
 cor. of secs. 1, 2, 11 & 12, marked with 5 notches on S. &
 1 notch on E. edges, and raise a mound of stone 2 ft. base
 1½ ft. high W. of cor. No bearings available.
 Land, mts.
 Soil, 2nd & 3rd rate, gravelly, stony.
 No timber. Undergrowth, mesquite, tesselata, scrub oak.
 Mts. land or land covered with dense undergrowth, 80.00 chs.

East, on a random line bet. secs. 1 & 12.
 40.00 Set temp. ¼ sec. cor.
 80.00 Intersect cor. of secs. 1, 12, 6 & 7, whence I run,
 West, on a true line bet. secs. 1 & 12.
 Over broken & mts. land, through dense palmeo, & yucca.
 3.85 Gulch, 50 lks. wide, course SW.
 12.30 Wire fence, brs. SW. & NE.
 15.50 Gulch 50 lks. wide, course SSW. enter dense blackbrush.
 A spring in same, brs. S. 3 chs. dist.
 An old vacant hut brs. S. 6 chs. dist. on E. side of gulch.
 15.60 Wire fence, brs. N. & S.
 40.00 Set a granite stone 18x12x8 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.
 50.00 Top of flat, ridge, brs. SW. & NE. desc.
 62.50 Gulch 120 lks. wide, course WSW. asc. grad. over broken
 ground.
 80.00 To cor. of secs. 1, 2, 11 & 12.
 Land, mts. & broken. Soil, 2nd & 3rd rate, gravelly, stony.
 No timber. Undergrowth, tesselata, blackbrush, yucca, palmeo.
 Mts. or broken land covered with dense undergrowth, 80.00 chs.

Subdivision of T. 19 S. R. 23 E.

Chains	
	N. 0° 1' W. on a random line bet. secs. 1 & 2.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.96	Intersect cor. of secs. 1,2, 35 & 36 on N. bdy. of Tp., whence I run, S. 0° 1' E. on a true line bet. secs. 1 & 2. Over mts. & broken land, asc. through dense scrub oak, with great difficulty.
13.00	Old road, on ridge, brs. SW. & NE.
19.20	Gulch 30 lks. wide, course SW.
30.00	Tent house and corral of J. Terry, brs. S. 84° 15' W. about 18 chs. dist. on W. side of Gulch.
36.00	Desc. abrupt.
38.00	Main wash 2 chs. wide, course SW.
39.96	Set a limestone 30x15x10 ins. 24 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 walnut tree 6 ins. diam. brs. N. 55° E. 18 lks. dist., marked $\frac{1}{4}$ S. 1 B.T. An oak tree 8 ins. diam. brs. N. 59 $\frac{1}{4}$ ° W. 97 lks. dist., marked $\frac{1}{4}$ S. 2 B.T.
43.00	Gulch 60 lks. wide, course WSW. asc.
65.00	Top of flat ridge, brs. SW. & NE. desc.
69.80	Gulch 80 lks. wide, course W. asc. grad.
79.96	To cor. of secs. 1,2,11 & 12. Land; mts. ,broken. Soil, 3rd rate, stony. Timber, some oak & walnut in washes. Undergrowth, scrub oak, blackbrush, yucca, palmeo, cacti. Mts. land covered with dense undergrowth, and exceptionally difficult to survey, 79.96 chs. At this cor. at noon, I set off 12° 49' N. on the decl. arc and observe the sun on the meridian. The resulting lat. is 31° 48' N. ✓
	From the cor. of secs. 2,3,34, and 35 on the S. bdy. N. 0° 1' W. bet. secs. 34 & 35. Over heavily rolling land, asc. through dense tesseta.
4.00	Top of ridge, brs. WSW. & ENE. desc.
22.00	Foot, sandy draw, course WSW.
33.00	Wash 120 lks. wide, course WSW. asc.
40.00	Set a granite stone 24x18x8 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. No bearings available.
46.45	Main road, Tombstone to Gleeson & Courtland, on top of ridge, brs. SW. & NE. desc. grad.
73.20	Draw 2 chs. wide, course WSW. asc. over broken ground.
80.00	Set a limestone 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 $1\frac{1}{2}$ ft. high W. of cor. No bearings available. Land, heavily rolling & broken. Soil, 2nd rate, gravelly. No timber. Undergrowth, tesseta, mesquite, greasewood. Rolling land covered with dense undergrowth, 80.00 chs.

Subdivision of T. 19 S. R. 23 E.

Chains

East, on a random line bet. secs. 26 & 35.

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

80.04 Intersect cor. of secs. 25, 26, 35 & 36, whence I run, West, on a true line bet. secs. 26 and 35.

Over rolling land, desc. grad. along N. side of draw.

40.02 Set a limestone 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.

Thence over broken ground, S. slope, on N. side of draw.

80.04 To cor. of secs. 26, 27, 34 & 35.

Land, rolling.

Soil, 2nd rate, gravelly.

No timber.

Undergrowth, scattering mesquite. Good native grass.

Rolling land, 80.04 chs.

N. $0^{\circ} 1'$ W. bet. secs. 26 & 27.

Over mts. land, asc.

4.00 Top of high pt. on ridge, brs. WSW. & ENE. desc.

22.00 Draw 150 lks. wide, course W. asc.

30.00 Point of spur, brs. SW. & NE. desc.

39.00 Draw 80 lks. wide, course SW. near head. asc.

40.00 Set a granite stone 24x14x10 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.

No bearings available.

45.00 Ridge, brs. SW. & NE. desc.

55.40 Wash 30 lks. wide, course WSW. asc.

75.00 Head of draw, course WSW.

80.00 Top of ridge, brs. SW. & NE.

Set a limestone 20x12x8 ins. 15 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 2 ft. base $1\frac{1}{2}$ ft. high W. of cor. No bearings available.

Land, mts. Soil, 2nd rate, gravelly.

No timber. Undergrowth, scattering tesseta, paloverde.

Mountainous land, 80.00 chs.

East, on a random line bet. secs. 23 & 26.

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

80.12 Intersect N. & S. line at point 5 lks. S. of cor. of secs. 23, 24, 25 & 26, whence I run, S. $89^{\circ} 58'$ W. on a true line bet. secs. 23 & 26.

Over mts. land, asc. grad. along NNE. slope of ridge.

30.00 Top of ridge, brs. WNW. & ESE. desc. grad. SW. slope.

40.06 Set a granite stone 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.

45.00 Head of draw, course WSW. asc. grad. along SE. slope.

70.00 Top of ridge, brs. WSW. & ENE. Desc. grad. on same.

80.12 To cor. of secs. 22, 23, 26 & 27.

Land, mountainous.

Soil, 2nd rate, gravelly.

No timber.

Undergrowth, Scattering mesquite, paloverde, palmeo, cacti.

Mountainous land, 80.12 chs.

August 19, 1909.

89

Subdivision of T. 19 S. R. 23 E.

Chains	<p>August 20, 1909.</p> <p>At 7h a.m., l.m.t., at the cor. of secs. 22, 23, 26 & 27, I set off $12^{\circ} 34\frac{1}{2}'$ N. on the decl. arc, and $31^{\circ} 45'$ N. on the lat. arc, and determine a true meridian with the solar. Thence I run, N. $0^{\circ} 1'$ W. bet. secs. 22 & 23.</p> <p>Over mts. land desc.</p> <p>3.00 Draw 50 lks. wide, course W. near head. asc.</p> <p>12.00 Ridge, brs. W. & E. desc.</p> <p>32.50 Main wash 2 chs. wide, course W. asc. grad.</p> <p>40.00 Set a quartzite stone $24 \times 12 \times 8$ 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.</p> <p>No bearings available.</p> <p>42.00 Desc. abrupt 60 ft.</p> <p>43.50 Wash 2 chs. wide, course SW. asc.</p> <p>55.00 Spur, brs. SW. & NE. desc.</p> <p>61.50 Wash 20 lks. wide, course SW. asc. grad.</p> <p>80.00 Set a limestone $18 \times 12 \times 8$ 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 $1\frac{1}{2}$ ft. high W. of cor.</p> <p>No bearings available.</p> <p>Land, mts.</p> <p>Soil, 2nd & 3rd rate, sandy, gravelly.</p> <p>No timber.</p> <p>Undergrowth, scattering mesquite, tesseta, palmeo, yucca.</p> <p>Mountainous land, 80.00 chs.</p> <hr/> <p>N. $89^{\circ} 58'$ E. on a random line bet. secs. 14 & 23.</p> <p>40.00 Set temp. $\frac{1}{4}$ sec. cor.</p> <p>80.08 Intersect N. & S. line at point 5 lks. N. of cor. of secs. 13, 14, 23 & 24, whence I run, West, on a true line bet. secs. 14 & 23.</p> <p>Over mts. land, desc.</p> <p>8.00 Draw 80 lks. wide, course WSW.</p> <p>10.00 Small circular reservoir brs. S. 4 chs.</p> <p>27.00 Gulch 80 lks. wide, course SW. asc.</p> <p>30.00 Top of flat, ridge, brs. SW. & NE. desc. grad.</p> <p>40.04 Set a limestone $18 \times 12 \times 8$ 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.</p> <p>No bearings available.</p> <p>47.65 Draw 1 ch. wide, course SW. asc. grad. over broken. ground.</p> <p>76.00 Top of spur, brs. SW. & NE. desc.</p> <p>80.08 To cor. of secs. 22, 23, 26 & 27.</p> <p>Land, mts. Soil, 2nd rate, gravelly.</p> <p>No timber. Undergrowth, dense palmeo, amole. Good grass.</p> <p>Mountainous land, 80.08 chs.</p>
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Subdivision of T. 19 S. R. 23 E.

Chains N. 0° 1' W. bet. secs. 14 & 15.
 Over mts: land, asc. thro' dense palmeo & yucca,
 with great difficulty.

2.05 Old road, brs. NE. & SW.
 7.00 Top of ridge, brs. SW. & NE. desc.
 15.00 Draw 50 lks. wide, course W. asc.
 20.00 Ridge, brs. W. & E. desc.
 32.00 Gulch 30 lks. wide, course WSW. asc. through dense
 tesseta.

40.00 Set a limestone 20x12x8 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.

42.00 Top of flat, ridge, brs. WSW. & ENE. desc.
 46.00 Head of draw, course W. asc.
 52.00 Spur, brs. W. & E. desc.
 59.50 Draw 50 lks. wide, course WSW. asc.
 68.00 Ridge, brs. WSW. & ENE. desc.
 70.80 Draw 30 lks. wide, course W. asc.
 78.00 Gap of ridge, brs. E. & W. desc.
 80.00 Set a sandstone 24x12x10 ins. 18 ins. in ground for
 cor. of secs. 10, 11, 14 & 15, marked with 4 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, mountainous. very broken.
 Soil, 3rd rate, gravelly.
 No timber.
 Undergrowth, palmeo, yucca, tesseta, cacti.
 Mts. land covered with dense undergrowth, and
 exceptionally difficult to survey, 80.00 chs.

East, on a random line bet. secs. 11 & 14.

40.00 Set temp. ¼ sec. cor.
 80.08 Intersect N. & S. line at point 5 lks. N. of cor. of
 secs. 11, 12, 13 & 14, whence I run,
 N. 89° 58' W., on a true line bet. secs. 11 & 14.
 Over mts. land asc. grad. SE. slope.

14.83 Top of ridge, brs. WSW. & ENE. desc. NW. slope.
 27.00 Draw 80 lks. wide, course WSW. asc. grad. along
 SSE. slope.

40.04 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.

80.08 To cor. of secs. 10, 11 14 & 15.
 Land, mountainous.
 Soil, 3rd rate, gravelly.
 No timber.
 Undergrowth, dense palmeo & yucca.
 Mountainous land, 80.08 chs.
 At this cor. at noon, I set off 12° 29' N. on the decl.
 arc and observe the sun on the meridian.
 The resulting lat. is 31° 47' N.

Subdivision of T. 19 S. R. 23 E.

Chains	N. 0° 1' W. bet. secs. 10 & 11. Over mts. land dec.
15.00	Gulch 80 lks. wide, course WSW. asc.
32.00	Ridge, brs. WSW. & ENE. desc.
40.00	Set a porphyry stone 20x10x8 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.
50.00	Wash 2 chs. wide, course WSW. asc. grad.
70.00	Top of flat ridge, brs. W. & E. desc. grad.
79.00	draw 90 lks. wide, course WSW.
80.00	Set a sandstone 20x10x8 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 1/2 ft. high W. of cor. No bearings available. Land, mts. Soil, 2nd & 3rd rate, gravelly, stony. No timber. Undergrowth, tesseta, palmeo, yucca, cacti. Mountainous land, 80.00 chs.
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	S. 89° 58' E. on a random line bet. secs. 2 & 11.
40.00	Set temp. 1/4 sec. cor.
80.04	Intersect N. & S. line at point 5 lks. N. of cor. of secs. 1,2,11 & 12, whence I run, N. 89° 56' W. on a true line bet. secs. 2 & 11. Over mts. land desc. through dense tesseta, mesquite & scrub oak, with great difficulty.
12.00	Gulch 2 chs. wide, course WSW. As cor. point will fall in gulch, at
38.00	Set a granite stone 20x12x8 ins. 15 ins. in ground for witness cor. to 1/4 sec. cor., marked WC. 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.
40.02	Cor. point in gulch 50 lks. wide, course WSW.
46.00	Leave gulch, runs WSW. asc.
50.00	Top of flat ridge, brs. WSW. & ENE. desc. grad.
78.00	Draw 30 lks. wide, course SW. asc.
80.04	To cor. of secs. 2,3,11 & 12. Land, mountainous. Soil, 3rd rate, gravelly, stony. No timber. Undergrowth, mesquite, tesseta, scrub oak, yucca. Mountainous land covered with dense undergrowth, and exceptionally difficult to survey, 80.04 chs.
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	N. 0° 1' W. on a random line, bet. secs. 2 & 3.
49.00	Set temp. 1/4 sec. cor.
79.96	Intersect N. bdy. of Tp. at point 2 lks. E. of cor. of secs. 2,3, 34 & 35, whence I run, S. 0° 2' E. on a true line bet. secs. 2 & 3. Over mts. land, desc. through dense tesseta, blackbrush & scrub oak, with great difficulty.
19.00	Gulch 30 lks. wide, course SW.
39.96	Set a granite stone 20x10x8 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 avail.
64.00	Gulch 50 lks. wide, course SW.
66.00	Gulch 30 lks. wide, course WSW.
67.75	Old road, brs. NE. & SW.
79.96	To cor. of secs. 2,3,10 & 11. Land, mts. Soil, 2nd & 3rd rate, gravelly, stony. No timber. Undergrowth, scrub oak, tesseta, blackbrush, cacti. Mountainous land covered with dense undergrowth, and exceptionally difficult to survey, 79.96 chs. August 20, 1909.

Subdivision of T. 19 S. R. 23 E.

Chains August 21, 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 $12^{\circ} 15'$ N. on the decl. arc, and $31^{\circ} 43'$ N. on the lat. arc, and determine a true meridian with the solar.
 Thence I run,
 N. $0^{\circ} 2'$ W., bet. secs. 33 & 34.
 Over mts. land desc.

5.50 Main gulch 250 lks. wide, course WSW. asc. through dense black brush & tesseta.

23.00 Ridge, brs. SW. & NE. desc.

29.60 Gulch 30 lks. wide, course WSW. asc.

40.00 Set a limestone $20 \times 12 \times 8$ 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.

40.25 Main road, Tombstone to Gleeson, top of ridge, brs. SW. & NE. Desc.

53.50 Main wash 2 chs. wide, course SW. asc. over broken ground.

80.00 Set a limestone $18 \times 12 \times 8$ ins. 12 ins. in ground for cor. of secs. 27, 28, 33 & 34, marked with 1 notch on S. & 3 notches on E. edges, and raise a mound of stone covered with earth 2 ft. base 2 ft. high W. of cor.
 No bearings available.
 Land, mts.
 Soil, 2nd rate, gravelly.
 No timber.
 Undergrowth, tesseta, blackbrush greasewood.
 Mts. land covered with dense undergrowth, ..80.00 chs.

East, on a random line bet. secs. 27 & 34.

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

80.08 Intersect N. & S. line at point 7 lks. S. of cor. of secs. 26, 27, 34 & 35, whence I run, S. $89^{\circ} 57'$ W., on a true line bet. secs. 27 & 34.
 Over mts. land, along very broken S. slope, through dense tesseta & blackbrush.

40.04 Top of ridge, brs. WSW. & ENE.
 Set a limestone $20 \times 12 \times 9$ 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.
 Desc. from cor.

63.00 Gulch 80 lks. wide, course WSW. asc. broken SE. slope.

75.00 Spur, brs. SW. & NE. desc.

80.08 To cor. of secs. ~~27, 28~~, 33 & 34.
 Land, mountainous.
 Soil, 3rd rate, stony.
 No timber.
 Undergrowth, tesseta, blackbrush, cacti.
 Mountainous land, 80.08 chs.

Subdivision of T. 19 S. R. 23 E.

Chains

N. 0° 2' W. bet. secs. 27 & 28.

- Over mts. land asc. through dense tesselata & black brush.
- 19.00 Top flat ridge, brs. E. & W. desc. over very broken land.
- 40.00 Set a porphyry stone 20x12x10 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.
- 45.35 Wash 20 lks. wide, course WSW. asc. dense yucca & palmeo.
- 55.00 Ridge, brs. WSW. & ENE. desc.
- 61.60 Wash 50 lks. wide, course WSW. asc.
- 73.00 Ridge, brs. WSW. & ENE. desc.
- 80.00 Set a quartzite stone 24x14x12 ins. 18 ins. in ground for cor. of secs. 21, 22, 27 & 28, marked with 2 notches on S. & 3 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, 3rd rate, gravelly.
No timber.
Undergrowth, tesselata, black brush, ocotilloe, paloverde yucca, palmeo.
Mountainous land or land covered with dense undergrowth,
80.00 chs.

N. 89° 57' E. on a random line bet. secs. 22 & 27.

- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 80.12 Intersect N. & S. line at point 12 lks. N. of cor. of secs. 22, 23, 26 & 27, whence I run, N. 89° 58' W., on a true line bet. secs. 22 & 27.
Over mts. land desc. grad. along S. side of draw.
- 40.06 Set a limestone 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.
- 47.00 Middle of draw 2 chs. wide, course WSW. asc.
- 65.00 Ridge, brs. SW. & NE. desc.
- 80.12 To cor. of secs. 21, 22, 27 & 28.
Land, mountainous.
Soil, 3rd rate, gravelly.
No timber.
Undergrowth, scattering mesquite. Good native grass.
Mountainous land,80.12 chs.
At this cor. at noon, I set off 12° 10' N. on the decl. arc and observe the sun on the meridian.
The resulting lat. is 31° 45' N.

N. 0° 1' W. bet. secs. 21 & 22.

- Over mts. land desc.
- 2.00 Draw 30 lks. wide, course WSW.
- 12.00 Flat ridge, brs. W. & E. desc.
- 20.00 Main wash 3 chs. wide, course W. in draw 8 chs. wide.
- 39.00 Draw 50 lks. wide, course SW. near head.
- 40.00 Set a granite stone 24x12x8 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. No bearings avail.
- 48.00 Ridge, brs. W. & E. old road on same.
- 55.00 Gulch 30 lks. wide, course W. asc.
- 67.00 Draw 80 lks. wide, course WNW. asc.
- 70.00 Flat ridge, brs. W. & E. desc.
- 78.00 Draw 200 lks. wide, course W. asc.
- 80.00 Set a limestone 24x12x8 ins. 18 ins. in ground for cor. of secs. 15, 16, 21 & 22, marked with 3 notches on S. & E. edges, and T. 19 S., on NE., R. 23 E. on SE. faces, and raise a mound of stone 3 ft. base 3 ft. high W. of cor.
Land, mountainous. Soil, 3rd rate, gravelly.
No timber.
Undergrowth, scattering tesselata, mesquite, palmeo. Good grass.
Mountainous land, 80.00 chs.

Subdivision of T. 19 S. R. 23 E.

Chains	S. 89° 58' E. on a random line bet. secs. 15 & 22.
40.00	Set temp. 1/4 sec. cor.
80.06	Intersect N. & S. line at point 9 lks. S. of cor. of secs. 14, 15, 22 & 23, whence I run, S. 89° 58' W. on a true line bet. secs. 15 & 22. Over heavily rolling land, ascend south east. slope.
40.03	Set a limestone 18x12x10 ins. 12 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.
10.00	old road, top of ridge, brs. WSW. & ENE. desc. grad. along NW. slope.
80.06	To cor. of secs. 15, 16, 21 & 22. Land, rolling. Soil, 2nd rate, gravelly. No timber. Undergrowth, palmeo, yucca. Rolling land, 80.06 chs.
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	N. 0° 2' W. bet. secs. 15 & 16. Over heavily rolling land, through dense tesseta, palmeo & yucca.
6.00	Top of low ridge, brs. W. & E. desc.
12.00	Gulch 50 lks. wide, course W. asc.
19.00	Ridge, brs. WSW. & ENE. desc.
27.50	Gulch 50 lks. wide, course WSW. asc.
40.00	Set a limestone 18x12x8 ins. 12 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. Cor. on top of ridge, brs. WSW. & ENE. desc. grad.
46.75	Draw 50 lks. wide, course WSW. asc.
62.00	Ridge, brs. WSW. & ENE. desc.
75.00	Draw 50 lks. wide, course WSW. & ENE. asc.
80.00	Set a limestone 24x12x8 ins. 18 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, gravelly, stony. No timber. Undergrowth, tesseta, palmeo, yucca, paloverde, Good grass. Rolling land, covered with dense undergrowth, 80.00 chs.
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	N. 89° 58' E. on a random line bet. secs. 10 & 15.
40.00	Set temp. 1/4 sec. cor.
80.10	Intersect N. & S. line at point 5 lks. N. of cor. of secs. 10, 11, 14 & 15, whence I run, West, on a true line bet. secs. 10 & 15. Over heavily rolling land, through dense tesseta, palmeo, and yucca, desc. grad. NNW. slope of ridge.
40.05	Set a granite stone 20x12x6 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.
75.00	Draw 80 lks. wide, course WSW. asc.
80.10	To cor. of secs. 9, 10, 15 & 16. Land, Rolling. Soil, 3rd rate, gravelly. No timber. Undergrowth, tesseta, palmeo, yucca, greasewood. Rolling land, covered with dense undergrowth, 80.10 chs. August 21, 1909.

Subdivision of T. 19 S. R. 23 E.

Chains	<p>August 22, 1909. At 7h a.m., l.m.t., at the cor. of secs. 9, 10, 15 & 16, I set off 11° 55' N. on the decl. arc and 31° 47' N. on the lat. arc, and determine a true meridian with the solar, Thence I run, N. 0° 2' W. bet. secs. 9 & 10. Over heavily rolling land, asc. grad. 8.00 Ridge, brs. WSW. & ENE. desc. grad. 14.75 Wash 80 lks. wide, course WSW. asc. grad. 26.00 Ridge, brs. WSW. & ENE. desc. 40.00 Cor. point for 1/4 sec. cor. falls in wash 80 lks. wide, SW. 41.00 Set a granite stone 20x12x10 ins. 15 ins. in ground for witness cor. to 1/4 sec. cor. marked WC. 1/4 on W. face, and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. from which, A willow tree 8 ins. diam. brs. S. 37° E. 115 lks. dist., marked WC. 1/4 S. 10 B.T. A willow tree 8 ins. diam. brs. S. 51° W. 70 lks. dist., marked WC. 1/4 S. 9 B.T. through dense tesseta & scrub oak. 46.00 Main wash 3 chs. wide, course WSW. 52.00 Old road, brs. NW. & SE. 80.00 Set a granite stone 24x15x10 ins. 18 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, heavily rolling, broken. Soil, 3rd rate, stony. No timber. Undergrowth, scrub oak, tesseta, willow. Rolling land, 40.00 chs. Rolling land covered with dense undergrowth, ... 40.00 chs.</p> <hr/> <p>East, on a random line bet. secs. 3 & 10. 40.00 Set temp. 1/4 sec. cor. 80.04 Intersect N. & S. line at point 5 lks. S. of cor. of secs. 2, 3, 10 & 11 whence I run, S. 89° 58' W., on a true line bet. secs. 3 & 10. Over very broken land, through dense tesseta, with great difficulty. 36.25, Main wash 4 chs. wide, course WSW. 40.02 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. 61.50 Old road, brs. NE. & SW. 68.00 Gulvh 80 lks. wide, course SW. 80.04 To cor. of secs. 3, 4, 9 & 10. Land, broken. Soil, 2nd & 3rd rate, gravelly, stony. No timber. Undergrowth, tesseta, scrub oak, cacti. Land covered with dense undergrowth, and exceptionally difficult to survey, 80.04 chs.</p> <hr/> <p>N. 0° 2' W. on a random line bet. secs. 3 & 4. 40.00 Set temp. 1/4 sec. cor. 80.00 Intersect cor. of secs. 3, 4, 33 & 34, on N. bdy. of Tp., whence I run, S. 0° 2' E., on a true line bet. secs. 3 & 4. Over heavily rolling & broken land desc. grad. through dense tesseta & scrub oak, with great difficulty. 40.00 Set a granite stone 24x15x10 ins. 18 ins. in ground for 1/4 sec. cor. marked 1/4 on W. face, and raise a mound of s stone 2 ft. base 1 1/2 ft. high W. of cor. No bearings avail. 66.00 Gulch 50 lks. wide, course SW. 80.00 To cor. of secs. 3, 4, 9 & 10. Land, heavily rolling & broken. Soil 3rd rate, stony. No timber. Undergrowth, tesseta, scrub oak. Rolling & broken land, covered with dense undergrowth, and exceptionally difficult to survey, 80.00 chs. Clouds obscure the sun at noon. Impossible to observe lat.</p>
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Subdivision of T. 19 S. R. 23 E.

C chains From the cor. of secs. 4,5,32 and 33 on the S. bdy.
 N. 0° 2' W. bet. secs. 32 & 33.
 Over heavily rolling land asc. grad.
 25.60 Main Road, brs. WSW. & ENE. Tombstone to Gleeson, on ridge.
 26.70 Old road, brs. ENE. & WSW.
 28.00 High point on ridge, brs. WSW. & ENE. desc.
 40.00 Set a limestone 24x12x8 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.
 No bearings available.
 44.50 Middle of main wash 4 chs. wide, course WSW.
 80.00 Set a granite stone 18x10x8 ins. 12 ins. in ground for cor. of secs. 28,29,32 & 33, marked with 4 notches on E. & 1 notch on S. edges, and dig pirs 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist. and raise a mound of stone stone covered with earth 4 ft. base 3 ft. high W. of cor.
 No bearings available.
 Land, rolling.
 Soil, 2nd & 3rd rate, sansy, gravelly.
 No timber.
 Undergrowth, scattering mesquite tesseta.
 Rolling land, 80.00 chs.

East on a random line bet. secs. 28 & 33.
 40.00 Set temp. $1/4$ sec. cor.
 80.10 Intersect N. & S. line at cor. of secs. 27,28,33 & 34, whence I run,
 West, on a true line bet. secs. 28 & 33.
 Over heavily rolling land, through dense tesseta, and blackbrush.
 5.00 Head of draw, course SW.
 30.00 Low ridge, brs. WSW. & ENE. desc. grad.
 40.05 Set a limestone 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.
 49.00 Draw 100 lks. wide, course SW. asc. grad.
 65.00 Flat ridge, brs. SW. & NE. desc. grad.
 80.10 To cor. of secs. 28,29,32 & 33.
 Land, rolling.
 Soil, 2nd & 3rd rate, sandy, gravelly.
 No timber.
 Undergrowth, tesseta, blackbrush, greasewood, mesquite.
 Land covered with dense undergrowth, 80.10 chs.

Subdivision of T. 19 S. R. 23 E.

Chains.

- N.0° 2' W. bet. secs. 28 & 29.
Over heavily rolling & broken ground desc. grad.
- 40.00 Set a limestone 20x12x8 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.
- 42.00 Wash 40 lks. wide, course SW.
- 62.00 Old road, top of flat, ridge, brs. SW. & NE. desc.
- 80.00 Set a granite stone 24x10x8 ins. 18 ins. in ground for cor. of secs. 20,21,28 & 29, marked with 2 notches on S. & 4 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 rate, sandy, gravelly.
No timber.
Undergrowth, tesseta, greasewood, blackbrush, mesquite.
Rolling land, 80.00 chs.

- East , on a random line bet. secs. 21 & 28.
- 40.00 Set temp. ¼ sec. cor.
- 79.84 Intersect N. & S. line at point 7 lks. N. of cor. of secs. 21,22,27 & 28, whence I run, N. 89° 57' W., on a true line bet. secs. 21 & 28.
Over very broken ground through dense tesseta and greasewood.
- 3.00 Gulch 30 lks. wide, course SW.
- 39.92 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.
- 58.25 Old road, brs. NE. & SW.
- 79.84 To cor. of secs. 20,21,28 & 29.
Land, rolling, broken.
Soil, 3rd rate, gravelly.
No timber.
Undergrowth, tesseta, blackbrush, greasewood.
Land covered with dense undergrowth, 79.84 chs.
August 22, 1909.

Subdivision of T. 19 S. R. 27 E.

Chains

August 23, 1909.
 At 7h a.m., l.m.t., at the cor. of secs. 20, 21, 28 & 29,
 I set off $11^{\circ} 34\frac{1}{2}'$ N. on the decl. arc, and $311^{\circ} 45' N.$ ✓
 on the lat. arc, and determine a true meridian with
 the solar, thence I run,
 N. $0^{\circ} 2' W.$ bet. secs. 20 & 21.
 Over broken land, through dense tesseta & greasewood.
 12.00 Low ridge, brs. W. & E. desc. grad.
 28.00 Main wash 3 chs. wide, course W. asc. grad.
 40.00 Set a limestone $20 \times 12 \times 6$ 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.
 76.00 Flat ridge, brs. W. & E. desc.
 80.00 Set a granite stone $24 \times 15 \times 10$ ins. 18 ins. in ground for
 cor. of secs. 16, 17, 20 & 21, marked with 3 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, heavily rolling, broken.
 Soil, 2nd & 3rd rate, gravelly stony.
 No timber. Undergrowth, tesseta, greasewood, mesquite.
 Rolling land, covered with dense undergrowth, 80.00 chs.

S. $89^{\circ} 58'$ E., on a random line bet. secs. 16 & 21.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.00 Intersect N. & S. line 2 lks. S. of cor. of
 secs. 15, 16, 21 & 22, whence I run,
 N. $89^{\circ} 58'$ W., on a true line bet. secs. 16 & 21.
 Over rolling land, desc. grad. along N. side of draw,
 through dense tesseta, & greasewood.
 15.00 Draw, course WNW.
 40.00 Set a limestone $24 \times 12 \times 12$ 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.
 46.00 Gulch 50 lks. wide, course WSW.
 50.00 Same gulch, course WNW.
 80.00 To cor. of secs. 16, 17, 20 & 21.
 Land, rolling.
 Soil, 2nd rate, sandy, gravelly.
 No timber. Undergrowth, tesseta, greasewood, mesquite.
 Rolling land, covered with dense undergrowth, 80.00 chs.

N. $0^{\circ} 2' W.$ bet. secs. 16 & 17.
 Over heavily rolling & broken land, through dense
 tesseta & scrub oak.
 7.00 Gulch 30 lks. wide, course SW. asc. grad.
 20.00 Gulch 30 lks. wide, course SW.
 25.50 Gulch 20 lks. wide, course SW.
 32.00 Ridge, brs. WSW. & ENE. desc. grad.
 As cor. point will fall in wash 50 lks. wide, course SW. at
 39.50 Set a granite $24 \times 14 \times 10$ ins. 18 ins. in ground for witness
 cor. to $\frac{1}{4}$ sec. cor. marked WC. $\frac{1}{4}$ on W. face, and raise a
 mound of stone 2 ft. base $1\frac{1}{2}$ ft. high W. of cor.
 40.00 Cor. point in gulch as above given.
 49.00 Gulch 30 lks. wide, course WSW.
 80.00 Set a quartzite stone $18 \times 12 \times 8$ ins. 12 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 3 ft. base 2 ft.
 high W. of cor. No bearings available.
 Land, rolling, broken.
 Soil, 3rd rate, gravelly.
 No timber.
 Undergrowth, Scrub oak, tesseta, greasewood.
 Land covered with dense undergrowth, 80.00 chs.

Subdivision of T. 19 S. R. 23 E.

Chains S. 89° 58' E., on a random line bet. secs. 9 & 16.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.00 Intersect N. & S. line at point 5 lks. S. of cor. of
 secs. 9, 10, 15 & 16, whence I run,
 West, on a true line bet. secs. 9 & 16.
 Over heavily rolling land, through dense tesseta and
 greasewood.
 18.00 Draw 3 chs. wide, course WSW.
 40.00 Set a granite stone 30x18x10 ins. 12 ins. in ground to
 bedrock in mound of stone, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on
 N. face, and raise a mound of stone 3 ft. base 2 ft.
 high N. of cor. No bearings available.
 Desc. grad.
 80.00 To cor. of secs. 8, 9, 16 & 17 .
 Land, rolling.
 Soil, 3rd rate, gravelly, stony.
 No timber.
 Undergrowth, tesseta, scrub oak, greasewood, mesquite.
 Land covered with dense undergrowth, 80.00 chs.
 At this cor. at noon, I set off 11° 29' N. on the decl.
 arc and observe the sun on the meridian.
 The resulting lat. is 31° 47' N.

N. 0° 2' W. bet. secs. 8 & 9.
 Over heavily rolling land, through dense tesseta and
 greasewood.
 18.00 Main gulch 150 lks. wide, course WSW.
 29.70 Old road, brs. NE. & SW.
 34.65 Old road, brs. NE. & SW.
 40.00 Set a limestone 18x12x8 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.
 65.00 Draw 2 chs. wide, course WSW. asc. through very dense
 scrub oak and tesseta.
 80.00 Set a limestone 20x10x8 ins. 15 ins. in 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.
 Soil, 3rd rate, gravelly.
 No timber.
 Undergrowth, tesseta, scrub oak, greasewood, mesquite.
 Land covered with dense undergrowth, 80.00 chs.

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Subdivision of T. 19 S. R. 23 E.

Chains

- East, on a random line bet. secs. 4 & 9.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 80.00 Intersect N. & S. line at point 7 lks. N. of cor. of secs. 3, 4, 9 & 10, whence I run, N. $89^{\circ} 57'$ W., on a true line bet. secs. 4 & 9. Over heavily rolling land, desc. grad. through dense, tesseta, blackbrush greasewood & mesquite.
- 28.00 Gulch 50 lks. wide, course SW. asc. grad.
- 40.00 Set a limestone 18x10x8 ins. 12 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.
- 43.65 Old road, brs. N. & S.
- 80.00 To cor. of secs. 4, 5, 8 & 9. Land, rolling, broken. Soil, 3rd rate, gravelly, No timber. Undergrowth, tesseta, blackbrush, greasewood. Land covered with dense undergrowth, 80.00 chs.
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- N. $0^{\circ} 2'$ W. on a random line bet. secs. 4 & 5.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 80.10 Intersect N. bdy. of Tp. at point 7 lks. E. of cor. of secs. 4, 5, 32 & 33, whence I run, S. $0^{\circ} 5'$ E., on a true line bet. secs. 4 & 5. Over mts. land, asc. NW. slope of butte, over very loose stony ground, with great difficulty.
- 6.00 Top of W. side of butte, desc. steep.
- 32.15 Foot of main slope, road, to ranch of John Haberstock. brs. ENE. & SW. enter very dense tesseta & greasewood.
- 36.75 Old road, brs. NE. & SW.
- 37.50 Old road, brs. NE. & SW.
- 40.00 Set a limestone 15x10x10 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.
- 49.00 Gulch 40 lks. wide, course SW.
- 55.20 Gulch 50 lks. wide, course WSW.
- 80.10 To cor. of secs. 4, 5, 8 & 9. Land, mountainous. Soil, 3rd rate, gravelly, stony. No Timber. Undergrowth, scrub oak, tesseta, blackbrush, greasewood. Mountainous land or land covered with dense undergrowth, and exceptionally difficult to survey, 80.10 chs.

August 23, 1909.

Chains

August 24, 1909.

At 7h a.m., l.m.t., at the cor. of secs. 31, 32, 5 & 6 on S. bdy. of Tp., I set of $11^{\circ} 14'$ N. on the decl. arc, & $31^{\circ} 43'$ N. on the lat. arc, and determine a true meridian with the solar,

Thence I run,

N. $0^{\circ} 3'$ W. bet. secs. 31 & 32.

Over heavily rolling land.

- 9.00 Wash 30 lks. wide, course W.
- 32.00 Wash 2 chs. wide, course SW. asc. grad.
- 40.00 Set a granite stone 18x12x10 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.
- 46.60 Road, top of ridge, brs. SW. & NE. desc. grad.
- 72.00 Wash 80 lks. wide, course W.
- 80.00 Set a sandstone 24x12x6 ins. 18 ins. in ground for cor. of secs. 29, 30, 31 & 32, marked with 1 notch on S. & 5 notches on E. edges, and dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist. and raise a mound of stones covered with earth 4 ft. base 2 ft. high W. of cor.
No bearings available.
Land, heavily rolling.
Soil, 3rd rate, gravelly.
No timber.
Undergrowth, scattering mesquite, paloverde, palmeo.
Rolling land, 80.00 chs.

East, on a random line bet. secs. 29 & 32.

- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 79.96 Intersect N. & S. line at point 5 lks. S. of cor. of secs. 28, 29, 32 & 33, whence I run,
S. $89^{\circ} 58'$ W., on a true line bet. secs. 29 & 32.
Over heavily rolling, land.
- 12.25 Wash 50 lks. wide, course SW. asc. grad.
- 38.60 Old road, top of ridge, brs. SW. & NE. desc. grad.
- 39.98 Set a granite stone 24x15x6 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.
- 62.00 Middle of draw 4 chs. wide, course SW.
- 79.96 To cor. of secs. 29, 30, 31 & 32.
Land, heavily rolling. Soil, 3rd rate, gravelly.
No timber. Undergrowth, scattering tesseta, mesquite.
Rolling land, 79.96 chs.

West, on a random line bet. secs. 30 & 31.

- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 79.52 Intersect W. bdy. of Tp. at point 9 lks. S. of cor. of secs. 30, 31, 25 & 36, heretofore described by me,
Thence I run,
S. $89^{\circ} 56'$ E., on a true line bet. secs. 30 & 31.
Over heavily rolling land, desc. grad. through dense tesseta greasewood, & black brush.
- 39.52 Set a sandstone 24x15x6 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.
- 49.50 Wash 50 lks. wide, course SW. asc. grad.
- 60.00 Ridge, brs. SW. & NE. desc.
- 75.10 Wash 80 lks. wide, course SW. asc.
- 79.52 To cor. of secs. 29, 30, 31 & 32.
Land, Rolling.
Soil, 3rd rate, gravelly.
No timber.
Undergrowth, tesseta, greasewood, black brush.
Rolling land covered with dense undergrowth, 79.52 chs.

Subdivision of T. 19 S. R. 23 E.

Chains

N. 0° 3' W. bet. secs. 29 & 30.
 Over heavily rolling land, desc. grad. through dense tesseta, blackbrush & greasewood.

4.25 Wash 30 lks. wide, course SW. ascend.

30.00 Flat ridge, brs. SW. & NE. desc.. grad.

40.00 Set a limestone 24x12x8 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.
 No bearings available.

59.00 Wash 20 lks. wide, course WSW.

67.00 Wash 30 lks. wide, course SW. asc.

80.00 Set a granite stone 24x15x12 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, rolling. Soil, 3rd rate, gravelly, sandy.
 No timber.
 Undergrowth, tesseta, greasewood, blackbrush, mesquite.
 Land covered with dense undergrowth, 80.00 chs.

N. 89° 56' E., on a random line bet. secs. 20 & 29.

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

79.90 Intersect N. & S. line at point 14 lks. N. of cor. of secs. 20,21, 28 & 29, whence I run, N. 89° 56' W., on a true line bet. secs. 20 & 29.
 Over heavily rolling land, through dense tesseta, greasewood, & blackbrush.

39.95 Set a limestone 24x15x15 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.

44.00 Draw 50 lks. wide, course SW.

79.90 To cor. of secs. 19,20,29 & 30.
 Land, rolling. Soil, 3rd rate, gravelly.
 No timber. Undergrowth, tesseta, greasewood, blackbrush.
 Rolling land, covered with dense undergrowth, 79.90 chs.

N. 89° 56' W., on a random line bet. secs. 19 & 30.

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

79.45 Intersect W. bdy. of Tp. at point 2 lks. S. of cor. of secs. 19,30, 24 & 25, which is a limestone 10x5x6 ins. above ground, marked and witnessed as described by the Surveyor General. The mound of stone being in a dilapidated condition, I rebuild 3 ft. base 2 ft. high W. of cor. thence I run,
 S. 89° 55' E., on a true line bet. secs. 19 & 30.
 Over heavily rolling land, through dense tesseta, greasewood & blackbrush.

39.45 Set a limestone 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.

48.00 S. point of high knoll, brs. N. & S., desc. grad.

54.50 Gulch 80 lks. wide, course SW.

79.45 To cor. of secs. 19,20,29 & 30.
 Land, rolling. Soil, 3rd rate, gravelly, sandy.
 No timber.
 Undergrowth, tesseta, greasewood, blackbrush, mesquite.
 Land covered with dense undergrowth, 79.45 chs.
 At this cor. at noon, I set off 11° 9' N. on the decl. arc, and observe the sun on the meridian.
 The resulting lat. is 31° 45' N. ✓

103

Subdivision of T. 19 S. R. 23 E.

Chains	<p>N. 0° 3' W. bet. secs. 19 & 20. Over heavily rolling land, through dense tesseta, manzanite, greasewood, & blackbrush ascending.</p> <p>25.00 Low ridge, brs. W. & E.</p> <p>40.00 Granite 15x10x8 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.</p> <p>50.00 Main wash 2 chs. wide, course WSW. ascend.</p> <p>75.00 Flat ridge, brs. W. & E. desc. grad.</p> <p>80.00 Set a quartzite stone 24x14x8 ins. 18 ins. in ground for cor. of secs. 17,18,19 & 20, marked with 3 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, rolling. Soil, 3rd rate, gravelly. Undergrowth, greasewood, tesseta, manzanite, blackbrush. Land covered with dense undergrowth, 80.00 chs.</p>
	<p>Sa 89° 56' E., on a random line bet. secs. 17 & 20.</p> <p>40.00 Set temp. $\frac{1}{4}$ sec. cor.</p> <p>79.90 Intersect N. & S. line at point 7 lks. N. of cor. of secs. 16,17,20 & 21, whence I run, N. 89° 53' W., on a true line bet. secs. 17 & 20. Over heavily rolling land, asc. grad. through dense tesseta, greasewood, paloverde, blackbrush & mesquite.</p> <p>3.00 Top of flat ridge, brs. WNW. & ESE. desc. grad. along S. side of same.</p> <p>39.95 Set a granite stone 24x10x8 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.</p> <p>51.00 Wash 50 lks. wide, course WNW.</p> <p>79.90 To cor. of secs. 17,18,19 & 20. Land, rolling. Soil, 2nd & 3rd rate, sandy, gravelly. No timber. Undergrowth, tesseta, greasewood, blackbrush, mesquite, paloverde, cacti. Land covered with dense undergrowth, 79.90 chs.</p>
	<p>N. 89° 55' W., on a random line bet. secs. 18 & 19.</p> <p>40.00 Set temp. $\frac{1}{4}$ sec. cor.</p> <p>79.05 Intersect W. bdy. of Tp. at point 24 lks. S. of cor. of secs. 18,19,13 & 24, which is a post marked and witnessed as described by the Surveyor General, Thence I run, S. 89° 45' E., on a true line bet. secs. 18 & 19. Over very broken ground, along S. side of wash, through dense tesseta, blackbrush, greasewood & mesquite. with great difficulty.</p> <p>33.90 Road, brs. NNE. & SSW. Haberstocks ranch to Tombstone.</p> <p>39.05 Set a quartzite stone 24x14x8 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.</p> <p>79.05 To cor. of secs. 17,18,19 & 20. Land, rolling, broken. Soil, 2nd & 3rd rate, sandy, gravelly. No timber. Undergrowth, tesseta, greasewood, blackbrush, mesquite. Land covered with dense undergrowth, and exceptionally difficult to survey, 79.05 chs.</p>

August 24, 1909.

Subdivision of T. 19 S. R. 23 E.

Chains

- August 25, 1909.
At 7h a.m., l.m.t., at the cor. of secs. 17, 18, 19 & 20,
I set off $10^{\circ} 53\frac{1}{2}'$ N. on the decl. arc, and $31^{\circ} 46'$ N. on the lat. arc, and determine a true meridian with the solar, thence I run,
N. $0^{\circ} 3'$ W. bet. secs. 17 & 18.
Over heavily rolling land, through dense greasewood & blackbrush.
- 3.40 Wash 30 lks. wide, course W. asc. grad.
9.00 Flat ridge, brs. W. & E. desc. grad.
24.50 Main wash 2 chs. wide, course W. asc. grad.
40.00 Set a granite stone 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.
54.00 Gulch 30 lks. wide, course WSW.
65.50 Old road, brs. NE. & SW.
67.50 Old road, brs. NE. & SW.
75.80 Road, NE. & SW.
80.00 Set a limestone 20x10x8 ins. 15 ins. in ground for cor. of secs. 7, 8, 17 & 18, marked with 4 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, rolling, broken. Soil, 3rd rate, gravelly.
No timber.
Undergrowth, tesseta, greasewood, blackbrush, mesquite.
Land covered with dense undergrowth, 80.00 chs.
-
- S. $89^{\circ} 53'$ E. on a random line bet. secs. 8 & 17.
40.00 Set temp. $\frac{1}{4}$ sec. cor.
80.00 Intersect N. & S. line at point 12 lks. S. of cor. of secs. 8, 9, 16 & 17, whence I run,
N. $89^{\circ} 58'$ W., on a true line bet. secs. 8 & 17.
Over rolling land, through scattering tesseta & mesquite.
20.00 Main wash 4 chs. wide, course SW.
40.00 Set a quartzite stone 18x12x8 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.
54.60 Old road, brs. NE. & SW.
77.85 Road, brs. NE. & SW.
80.00 To cor. of secs. 7, 8, 17 & 18.
Land, rolling. Soil, 3rd rate, gravelly.
No timber.
Undergrowth, tesseta, mesquite, greasewood.
Rolling land, 80.00 chs.
-
- N. $89^{\circ} 45'$ W., on a random line bet. secs. 7 & 18.
40.00 Set temp. $\frac{1}{4}$ sec. cor.
79.00 Intersect W. bdy. of Tp. at point 2 lks. S. of cor. of secs. 7, 12, 13 & 18, which is a limestone 10x6x6 ins. above ground marked and witnessed as described by the Surveyor General. Thence I run,
S. $89^{\circ} 44'$ E. on a true line bet. secs. 7 & 18.
Over heavily rolling & broken ground, through dense tesseta, greasewood & mesquite.
39.00 Set a limestone 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.
43.50 Draw 150 lks. wide, course WSW.
58.00 Road, brs. NNE. & SSW.
79.00 To cor. of secs. 7, 8, 17 & 18.
Land, rolling. Soil, 3rd rate, gravelly.
No timber. Undergrowth, tesseta, greasewood, mesquite.
Land covered with dense undergrowth, 79.00 chs.

Chains	N. 0° 3' W. bet. secs. 7 & 8. Over heavily rolling land, through dense greasewood, and blackbrush.
15.00	Middle of draw 4 chs. wide, course W., asc. grad.
40.00	Set a limestone 18x12x8 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.
68.00	Gulch 3 chs. wide, course WSW.
80.00	Set a limestone 24x15x10 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. Land, rolling. Soil, 3rd rate, gravelly. No timber. Undergrowth, tesseta, blackbrush, greasewood. Land covered with dense undergrowth, 80.00 chs. From this cor. House of John Haberstock brs. N. 33° 50' E., about 32 chs. dist. At this cor. at noon, I set off 10° 48' N. on the decl. arc, and observe the sun on the meridian. The resulting lat. is 31° 47 $\frac{1}{2}$ ' N.
	S. 89° 58' E., on a random line bet. secs. 5 & 8.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.00	Intersect N. & S. line at point 5 lks. S. of cor. of secs. 4, 5, 8 & 9, whence I run, West, on a true line bet. secs. 5 & 8. Over heavily rolling & broken land, through dense tesseta, greasewood, & mesquite.
10.00	Gulch 30 lks. wide, course SSW.
26.70	Road, brs. N. & S.
28.60	Wash 50 lks. wide, course SW.
40.00	Set a limestone 18x18x15 ins. 12 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.
80.00	To cor. of secs. 5, 6, 7 & 8. Land, rolling. Soil, 2nd & 3rd rate, sandy, gravelly. No timber. Undergrowth, tesseta, greasewood, mesquite. Land covered with dense undergrowth, 80.00 chs.
	N. 89° 44' W., on a random line bet. secs. 6 & 7.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.20	Intersect W. bdy. of Tp. at point 9 lks. S. of cor. of secs. 6, 7, 1 & 12, which is a post marked and witnessed as described by the surveyor General. Whence I run, S. 89° 40' E. on a true line bet. secs. 6 & 7. Over rolling land, through dense tesseta & greasewood.
30.00	Main wash 4 chs. wide, course SW.
39.20	Set a granite stone 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.
62.20	Wash 20 lks. wide, course SW.
74.50	Road, brs. N. & S.
75.00	Wash 80 lks. wide, course SSW.
79.20	To cor. of secs. 5, 6, 7, & 8. Land, rolling, broken. Soil, 2nd & 3rd rate, sandy, gravelly. No timber. Undergrowth, tesseta, mesquite, blackbrush, greasewood. Land covered with dense undergrowth, 79.20 chs.

Subdivision of T. 19 S. R. 23 E.

Chains

N. 0° 3' W. , on a random line bet. secs. 5 & 6
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.30 Intersect N. bdy. of Tp. at point 28 lks. E. of cor. of
 secs. 5, 6, 31 & 32, whence I run,
 S. 0° 15' E. on a true line bet. secs. 5 & 6.
 Over rolling land, through very dense mesquite, tesseta,
 & blackbrush, with great difficulty.
 33.00 Enter wash, course WSW.
 39.00 Leave wash.
 40.30 Set a granite stone 30x15x10 ins. 24 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.
 64.00 Wash 150 lks. wide, course SW.
 67.65 Old road, brs. SW. & NE.
 71.00 Road, brs. NE. & SW.
 77.80 Gulch 50 lks. wide, course SW.
 80.30 To cor. of secs. 5, 6, 7 & 8.
 Land, rolling.
 Soil, 2nd & 3rd rate, gravelly, sandy.
 No timber.
 Undergrowth, mesquite, tesseta, blackbrush, greasewood.
 Land covered with dense undergrowth, and exceptionally
 difficult to survey, 80.30 chs.

General Description.

This township is somewhat mountainous in the NE. & SE. portions, mostly broken in the interior, and rolling or broken in the NW. & SW. portions.
 The soil is in general of a gravelly nature, with many rich sandy or loamy small valleys of good soil along the main washes and draws.
 There is some little oak timber in the NE. part and some walnut, mesquite and willow in the valleys along the main washes.
 There is but little trace of mineral anywhere in the Tp. as the formation is mostly a conglomerate of limestone and granite, the country rock deep underlying being granite or porphyry and outcropping in some of the deeper gulches, but without showing any vein matter.
 There is but little water in the township, and considerable difficulty was experienced in the survey on this account. The only permanent spring being at the Sycamore Springs, well known for miles around as the only watering place in the country, on the ranch of John Haberstock, in sec. 5.
 John Haberstock is the only settler with permanent improvements in the township. He has good house barns, and other valuable improvements.
 J. Terry has a small tent house in sec. 2, and there is also a small hut in sec. 12 and small spring in gulch near by.
 Water may be developed by drilling to some depth.
 There is fine grazing land throughout the Tp. hundreds of acres of land being covered with a fine growth of native grass available for hay or grazing.
 Upon completion of surveys in this township, as I discharged my crew of men, and there being no Notary public or other officer available duly qualified to administer the final oaths I was compelled to administer the final oaths to my assistants.

August 25, 1909.

Jesse B. Wright
 U.S. Deputy Surveyor.

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. 19 S. R. 23 E.

showing the respective capacities in which they acted:

Edgar M. Darnall, Chainman.

Santiago Vindiola, Chainman.

Guadalupe Pacheco, Moundman.

Moundman.

Allen A. Thompson, Axman.

Axman.

Manuel Vindiola, 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. 19 S. R. 23 E.

of the Gila and Salt River Base & meridian, Territory 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.

Edgar M. Darnall, Chainman.

Santiago Vindiola, Chainman.

Guadalupe Pacheco, Moundman.

Moundman.

Axman.

Allen A. Thompson, Axman.

Manuel Vindiola, Flagman.

Subscribed and sworn to before me this 25th

day of August, 1909

Jesse B. Wright, U. S. Deputy Surveyor.



108 (27)
BOOK 2175

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 fourth day of June, 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 Township 19 South Range 23 East

of the Gold & Salt meridian, in the Territory 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 30th day of August, 1909

W. C. McCarty
U.S. Commissioner



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Ariz. July 2, 1910.

The foregoing field notes of the survey of the subdivision lines of Twp 19 S. R. 23 E. Gila and Salt River Base and Meridian, Arizona

executed by Jesse B. Wright, U.S. Dep. Sur. under his contract No. 159, dated June 4, 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.