

Book M.

2203

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19

FIELD NOTES

(1)

OF THE SURVEY OF THE

2203

2203

Subdivisions of

Township No. 22 South,
Range No. 28 East

2203

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

Arizona

AS SURVEYED BY

Jacobs H. Curry

, United States Deputy Surveyor,

Under ~~his~~ ^{their} Contract No. *148*, dated *March 20*, 190*8*.

Survey commenced *September 20*, 190*8*.

Survey completed *October 6*, 190*8*.

2203

2203

2203

NAMES AND DUTIES OF ASSISTANTS.

Jim T. Kellis Chairman

Narvey N. Case

Thomas Jacobs Meundman

John C. Roberts Alkeman

BOOK 2203

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PRELIMINARY OATHS OF ASSISTANTS.

WE, Jim A. Kellis and Narvey N. Calk
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

the subdivisions of T 22.5 R 28 E

Jim A. Kellis, Chainman.
Narvey N. Calk, Chainman.

Subscribed and sworn to before me this 15
day of September, 1908



Francis Jacobs
Notary Public

WE, Thomas Jacobs and _____

do solemnly swear that we will well and truly perform the duties of moundman in the establishment of corners, according to the instructions given me to the best of my skill and ability, in the survey of

the subdivisions of T 22.5 R 28 E.

Thomas Jacobs, Moundman.
_____, Moundman.

Subscribed and sworn to before me this 15
day of September, 1908



Francis Jacobs
Notary Public

WE, Fred C Roberts and _____

do solemnly swear that we will well and truly perform the duties of axman in the establishment of corners and other duties, according to instructions given me to the best of my skill and ability, in the survey of

the subdivisions of T 22.5 R 28 E

Fred C Roberts, Axman.
_____, Axman.

Subscribed and sworn to before me this 15
day of September, 1908



Francis Jacobs
Notary Public

I, _____, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of _____

_____, Flagman.

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



Subdivisions of T 22 S., R 28 E.

Chains.

Survey commenced September 20, 1908, and executed with a Gurley light mountain transit, with solar attachment which was tested on a true meridian established by observation on Polaris Sept. 15, and 16, of which full data is given on page 1. Notes of resurvey of east boundary of this Tp.

Note; Owing to the fact that the E. bdy. of the Tp. is defective both in distance and alignment we begin at the cor. of secs. 35 and 36 on the S. bdy. of the Tp. and run a sectional guide meridian.

At 7h. 10m. a.m. l.m.t., we set off $31^{\circ}28' N.$ on the lat. arc; $1^{\circ}9' N.$ on the decl. arc; and determine a meridian with the solar, at the cor. of secs. 35 and 36 on the S. bdy. of the Tp. which is a stone firmly set, marked and witnessed as described by the Surveyor General.

Thence we run

N. bet. secs. 35 and 36.

Over level and hilly land.

4.60

Wire fence brs. E. and W.

Enter field: Calvin, claimant.

33.60

Wire fence brs. E. and W.

40.00

Set a limestone, 16 x 10 x 8 ins., 12 ins. in the ground, for $1/4$ sec. cor., marked $1/4$ on W. face.

Dig pits 18 x 18 x 12 ins. N. and S. of stone, 3 ft.

dist., and raise a mound of earth $3 1/2$ ft. base, $1 1/2$ ft. high. W. of cor.

44.32

Wire fence brs. E. and W.

Leave Calvin field and enter McDonald's field.

51.50

Gulch, 15 lks. wide, course SW.

65.00

Ascend.

72.00

Top of rocky knoll.

Decend.

77.10

Wire fence, brs. SE. and NW., 2 chs.; thence N.

Bottom of knoll.

80.00

Set a granite stone, 18 x 6 x 4 ins., 12 ins. in the ground, for cor. of secs. 25, 26, 35, and 36, marked with 1 notch on S. and E. edges.

Dig pits 18 x 18 x 12 ins. in each sec. $5 1/2$ ft. dist., and raise a mound of earth and stone 4 ft. base, 2 ft.

high W. of cor.

Land level and hilly.

Soil, 2nd rate.

No timber.

Level land,

68.00 chs.

Mountainous land,

12.00 chs.

North bet. secs. 25 and 26.

Over level land.

4.55

Wire fence brs. E. & W.

Leave McDonald's field.

29.70

Road brs. SE. and NW., and NE. and SW.

40.00

Set a tufa stone, 22 x 8 x 6 ins., 16 ins. in the ground, for $1/4$ sec. cor., marked $1/4$ on W. face.

Dig pits 18 x 18 x 12 ins. N. and S. of stone, 3 ft.

dist., and raise a mound of earth $3 1/2$ ft. base, $1 1/2$ ft. high, W. of cor.

2
24

Chains 80.00	<p>Set a tufa stone, 24 x 8 x 6 ins., 18 ins. in the ground, for cor. of secs. 23. 24. 25. and 26, marked with 2 notches on S. and 1 notch on E. edge; Dig pits 18 x 18 x 12 ins., in each sec. 5 1/2 ft. dist. and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, W. of cor. Land, level Soil, 2nd rate. No timber.</p>
30.00 40.00 41.00 48.25 53.00 64.00 80.00	<p>North bet. secs. 23 and 24. Over land covered with dense undergrowth. Ascend. in Set a tufa stone, 24 x 18 x 10 ins., 18 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face. Raise a mound of stone, 2 1/2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable. Ridge brs. N. 20° E. and S. 20° W. Decend. A juniper tree (a conspicuous land mark) brs. E. 20 1/4 sec. dist. Bottom of ridge. Road, brs. NE. and SW. Set a tufa stone, 16 x 14 x 12 ins. 12 ins. in the ground, for cor. of secs. 13. 14. 23. and 24, marked with 3 notches on S. and 1 notch on E. edge. Dig pits 18 x 18 x 12 ins. in each sec. 5 1/2 ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, W. of cor. Land, level, mountainous and open. Soil, 3rd rate. No timber. Land covered with dense undergrowth, 30.00 chs. Land mountainous, 23.00 chs. Land, level and open, 27.00 chs.</p>
30.00 40.00 80.00	<p>North bet. secs. 13 and 14. Over rolling land. Ascend gradually. Set a malpais stone, 18 x 10 x 5 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face. Dig pits 18 x 18 x 12 ins., N. and S. of stone 3 ft. dist. and raise a mound of earth and stone, 3 1/2 ft. base, 1 1/2 ft. high, W. of cor. Set a sandstone, 20 x 10 x 6 ins., 15 ins. in the ground, for cor. of secs. 11. 12. 13. and 14, marked with 4 notches on S. and 1 notch on E. edge. Dig pits 18 x 18 x 12 ins., in each sec. 5 1/2 ft. dist., and raise a mound of earth and stone, 4 ft. base, 2 ft. high, W. of cor. Land, level and rolling. Soil, 2nd and 3rd rate. No timber.</p>
	<p>September 21; At 7h. a. m. l.m.t., we set off 31° 31' N. on the lat. arc; 0° 45' N. on the decl. arc; and determine a meridian with the solar, at the cor. of secs. 11. 12. 13. and 14.</p>

Subdivisions of T 22 S., R. 28 E.

Chains.

- Thence we run
North bet. secs. 11 and 12.
Over broken and level land.
- 4.00 Low ridge, brs. E. and W.
Decend.
- 18.15 Wash, 30 lks. wide, course S. 60° W.
Ascend gradually.
- 40.00 Set a sandstone, 16 x 12 x 6 ins., 12 ins. in the
ground, for 1/4 sec. cor., marked 1/4 on W. face,
Dig pits 18 x 18 x 12 ins., N. and S. of stone, 3 ft.
dist., and raise a mound of earth and stone, 3 1/2 ft.
base, 1 1/2 ft. high, W. of cor.
- 46.50 Wash, 20 lks. wide, course SW.
- 69.50 Decend.
- 71.00 Gulch, 40 lks. wide, course W.
Ascend.
- 80.00 Set a volcanic stone, 24 x 8 x 6 ins., 18 ins. in the
ground, for cor. of secs. 1. 2. 11 and 12, marked with
5 notches on S. and 1 notch on E. edge, and raise a
mound of stone, 4 ft. base, 2 ft. high, W. of cor.
Pits impracticable.
Land, broken and level.
Soil, 2nd and 3rd rate.
No timber.
-
- North bet. secs. 1 and 2.
Over broken and mountainous land.
- 12.00 Gulch, 15 lks. wide, course S. 25° W.
Ascend.
- 37.00 Ridge, brs. E. and W.
Decend.
- 40.00 Set a malpais stone, 24 x 10 x 6 ins., 18 ins. in the
ground, for 1/4 sec. cor., marked 1/4 on W. face, and
raise a mound of stone, 2 1/2 ft. base, 1 1/2 ft. high,
W. of cor. Pits impracticable.
- 44.10 Gulch, 30 lks. wide, course SW.
Ascend.
- 46.00 Ridge, brs. NE. and SW.
- 51.50 Decend.
Gulch 20 lks. wide, course S. 30° W.
Ascend.
- 63.00 Ridge, brs. NE. and SW.
Decend.
- 69.30 Gulch, 20 lks. wide, course SW.
Ascend.
- 71.50 Ridge, brs. NE. and SW.
Decend.
- 74.30 Gulch, 25 lks. wide, course SW.
Ascend.
- 80.00 Ridge, brs. E. and W.
Decend.
- 83.95 Intersect N. bdy. of Tp., 2.16 chs. W. of the cor. of
secs. 1. 2. 35 and 36, which is a stone set, marked and
witnessed, as described by the Surveyor General.
Set a volcanic stone, 24 x 8 x 6 ins., 18 ins. in the
ground, for closing cor. of secs. 1 and 2, marked C C
on S; with 1 groove on E. and 5 grooves on W. face.
Raise a mound of stone, 4 ft. base, 2 ft. high, S. of
cor.
Pits impracticable.
This closing cor. is on the S. edge of gulch, 20 lks.
wide, course S. 60 W.

Subdivisions of T 22 S., R 28 E.

Chains	Land, broken. Soil, 3rd. rate. No timber. Mountainous land, 83.95 chs. Connecting line, mountainous land, 2.16 chs.
40.00	From the cor. of secs. 25, 26, 35 and 36 we run East on a random line, bet. secs. 25 and 36. Set temp. 1/4 sec. cor..
80.18	Intersect E. bdy. of Tp. 26 lks. S. of the cor. of secs. 25, 30, 31 and 36, recently established by us. Thence we run S. 89°49' W. on a true line, bet. secs. 25 and 36 Over hilly and level land.
23.85	Road, brs. NE. and SW. Ascend.
27.62	Intersect line 1 - 4, Tufa Plain Mining and Stone quarry claim, patented; survey No 1669, at a point N. 33°19' W. 7.81 chs. from cor. No 1 a post set, marked and witnessed, as described by the surveyor general. We set a tufa stone, 30 x 18 x 12 ins., 24 ins. in the ground, for closing cor., marked with C C on E; T P M S Q. 1669 on W. and 1 groove on S. faces, and raise a mound of stone, 2 1/2 ft. base, 1 1/2 ft. high, E. of stone. Pits impracticable.
40.18	The point for the 1/4 cor. falls within the patented claim.
42.00	Ridge, brs. NE. and SW. Descend.
51.54	Intersect line 2 - 3, survey No 1669. at a point N. 33° 19' W., 20.94 chs. from cor. No 2; a post set, marked and witnessed as described by the surveyor general. We set a tufa stone, 24 x 16 x 10 ins., 18 ins. in the ground, for closing cor., marked C C on W; T P M S Q. 1669 on E; with 1 groove on S. face, and raise a mound of stone 2 1/2 ft. base, 1 1/2 ft. high W. of cor. Pits impracticable.
67.06	U. S. M. M. No 1669 brs. N. 71°30' E., 14.82 chs.
67.10	Wire fence brs. N. and S.
67.85	Telegraph line, brs. N. and S. El Paso & Southwestern Railway track, brs. S. 1°45' E. and N. 1°45' W.
68.35	Wire fence brs. N. and S.
70.10	Road, brs. N. and S.
73.40	Wire fence brs. N. and S. Enter McDonald's field.
80.18	The cor. of secs. 25, 26, 35 and 36. Land, mountainous, hilly and level. Soil, 2nd and 3rd rate. No timber. Level land, 41.18 chs. Mountainous land, 39.00 chs. Connecting line, mountainous and covered with dense underbrush, 43.57 chs.
40.00	North 89°49' E. on a random line, bet. secs. 24 and 25. Set temp. 1/4 sec. cor.
80.00	Intersect E. bdy. of Tp. at 8 lks. S. of the cor. of secs. 19, 24, 25 and 30, recently established by us. Thence we run S. 89°46' W. on a true line, bet. secs. 24 and 25.

Subdivisions of T 22 S., R 28 E.

Chains.	Through dense undergrowth. Descend.
30.00	Ascend.
38.00	Ridge brs. N. and S. Descend.
40.00	Set a malpais stone, 20 x 10 x 6 ins., 15 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face. Dig pits 18 x 18 x 12 ins. E. and W. of stone, 3 ft. dist., and raise a mound of earth and stone 4 ft. base, 2 ft. high, N. of cor.
46.50	Gulch, 1 ch. wide, 15 ft. deep, course S.
51.00	Road, brs. N. and S.
80.00	The cor. of secs. 23. 24. 25 and 26. Land, level and rolling. Soil 2nd and 3rd rate. No timber. Land covered with dense undergrowth, 50.00 chs. Land, rolling, 30.00 chs.

September 21, 1908.

	September 22; At 7h. 15m. a. m. 1.m.t., we set off 31' 30"N. on the lat. arc; 0°22' N. on the decl. arc; and determine a meridian with the solar, at the cor. of secs. 23. 24. 25. and 26. Thence we run N. 89°46' E. on a true line, bet. secs. 13 and 24. Over rolling land.
40.00	Set a tufa stone, 18 x 8 x 6 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face. Dig pits 18 x 18 x 12 ins. E. and 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.
43.50	Road, brs. N. and S. in wash.
79.94	Intersect E. bdy. of Tp. 140 lks. S. of the cor. of secs. 13. 18. 19. and 24. recently established by us where we, Set a malpais stone, 16 x 10 x 8 ins., 12 ins. in the ground, for closing cor. of secs. 13 and 24, marked C C on W; with 3 grooves on N. and S. faces, and raise a mound of stone, 4 ft. base, 2 ft. high, W. of cor. Pits impracticable. Land, rolling and level. Soil, 2nd and 3rd rate. No timber.

38.15	N. 89°46' E. on a true line, bet. secs. 12 and 13. Wash, 20 lks. wide, course SW.
40.00	Set a tufa stone, 22 x 12 x 8 ins., 16 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone 3 ft. base, 2 ft. high, N. of cor. Pits impracticable.
80.76	Intersect E. bdy. of Tp. 209 lks. S. of the cor. of secs. 7. 12. 13 and 18, recently established by us, where we Set a tufa stone, 18 x 10 x 6 ins. 12 ins. in the ground, for closing cor. of secs. 12 and 13, marked C C on W. with 4 grooves on S. and 2 grooves on N. face. Dig pits 24 x 18 x 12 ins. crosswise on each line, N. and S. 3 ft., and W. 7 ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, W. of cor.

28

Subdivisions of T 22 S., R 28 E.

Chains.	<p>Land, rolling and level. Soil, 2nd and 3rd rate. No timber. No timber.</p>
8.50	<p>N. 89°46' E. on a true line, bet. secs. 1 and 12. Over broken land. Gulch, 15 lks. wide, course SE. Ascend.</p>
10.00	<p>Ridge, brs. NE. and SW. Descend.</p>
11.75	<p>Gulch, 20 lks. wide, course S. Ascend.</p>
14.00	<p>Ridge, brs. N. and S. Descend.</p>
15.85	<p>Gulch, 30 lks. wide, course S. Ascend.</p>
28.00	Ridge, brs. N. and S.
39.50	Gulch, 40 lks. wide, course S. 30° W.
40.00	<p>Set a malpais stone, 24 x 10 x 6 ins., 18 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor. Pits impracticable.</p>
48.00	<p>Gulch, 20 lks. wide, course S. Ascend.</p>
60.00	<p>Ridge, brs. NE. and SW. Descend.</p>
67.00	Gulch, 15 lks. wide, course S. 15° W.
80.00	<p>Gulch, 25 lks. wide, course S. Ascend.</p>
82.28	<p>Intersect E. bdy. of Tp. 32⁷ chs. S. of the cor. of secs. 1, 6, 7 and 12, which is a stone firmly set, marked and witnessed as described by the Surveyor General, where we Set a granite stone, 16 x 10 x 6 ins., 11 ins. in the ground, for closing cor. of secs. 1 and 12, marked C C on W. with 5 grooves on S. and 1 groove on N. face. Dig pits 24 x 18 x 12 ins., crosswise on each line, N. and S. 3 ft., and W. of stone 7 ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, W. of cor. Land, broken and mountainous. Soil, 3rd rate. No timber. Broken and mountainous land, 82.28 chs. Connecting line, " " 3.27 chs.</p>
September 22, 1908.	
26.00	<p>September 23; At 7h. 15m. a. m. 1.m.t., we set off 31° 28' N. on the lat. arc; 0° 0' on the decl. arc; and determine a meridian with the solar, at the cor. of secs. 34 and 35, on the S. bdy. of the Tp. as de- scribed by the Surveyor General. Thence we run N. 0° 1' W. bet. secs. 34 and 35. Over mountainous land. Ascend very steep mountain.</p>
40.00	<p>Top of high mountain, 700 ft. above cor., brs. E. and W. Descend very abruptly. Set a trachite stone, 20 x 12 x 8 ins., 15 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone, 3 ft. base, 2 ft. high., W. of cor. Pits impracticable.</p>

Subdivisions of T 22 S., R 28 E.

Chains.	
54.50	Gulch, 25 lks. wide, course NW. Ascend.
71.00	Ridge, slopes NW. Descent very steep.
80.00	Bedrock, slopes N. We cut a cross at cor. point, for cor. of secs. 26. 27. 34 and 35, marked with 1 groove on S. and 2 grooves on E. of cross. An oak, 8 ins. in diam. brs. N. $77\ 1/2^\circ$ E., 21 lks. dist., marked T 22 S R 28 E S 26 B T. An oak, 6 ins. in diam. brs. S. $48\ 3/4^\circ$ W., 35 lks. dist. marked T 22 S R 28 E S 34 B T. An oak, 20 ins. in diam. brs. N. $10\ 1/4^\circ$ W., 225 lks dist. marked T 22 S R 28 E S 27 B T. No other tree available. Raise a mound of stone 4 ft. base, 2 ft. high, W. of cor. Pits impracticable. Land very mountainous. Soil, 4th rate. Timber, scattering oak, north end of line. 80.00 chs. Mountainous land, exceptionally difficult to survey. At this cor. at noon I set off $0^\circ 8' S$ on the decl. arc and observe the sun on the meridian; the resulting lat. is $31^\circ 29' N$.
40.00	East on a random line, bet. secs. 26 and 35. Set a temp. $1/4$ sec. cor.
80.18	Intersect N. and S. line at cor. of secs. 25. 26. 35 and 36, recently established by us. Thence we run West on a true line bet. secs. 26 and 35. Over mountainous land. Wire fence brs. N. and S. Leave McDonald's field.
1.15	
24.00	Ascend steep mountain.
27.00	School house, brs. N. 2 chs.
40.09	Set a granite stone, 24 x 12 x 8 ins., 18 ins. in the ground, for $1/4$ sec. cor., marked $1/4$ on N. face, and raise a mound of stone, 3ft. base, 2ft. high, N. of cor. Pits impracticable.
47.80	Bottom of perpendicular bluff, 100 ft. high, brs. N. and S. Ascend.
51.00	Ridge, brs. N. and S.
52.00	Descend over bluffs.
59.75	Head of gulch, course NE. Ascend over bluffs.
68.50	Top of ascent, on N. slope of steep mountain. Descend abruptly.
79.70	Descend rock bluff, 8 ft. high.
80.18	The cor. of secs. 26, 27, 34 and 35. Land rolling and very mountainous. Soil, 2nd and 4th rate. Timber, scattering oak, on W. $1/2$ of mile . Mountainous land, exceptionally difficult to survey. 56.18 chs.
	N. $0^\circ 1'$ W. bet. secs. 26 and 27. Over very mountainous land. Descent very steep.
3.00	Gulch 20 lks. wide, course W. Ascend.
9.00	Ascend very abruptly.
30.00	Top of mountain, brs. N. and S. Descend along E. slope.
40.00	Set a granite stone, 18 x 10 x 6 ins., 12 ins. in the

Subdivisions of T 22 S., R 28 E.

Chains.	<p>ground, for 1/4 sec. cor., marked 1/4 on W. face, from which</p> <p>An oak, 16 ins. in diam. brs. N. 56 1/2° E. 120 lks. dist., marked 1/4 S. 26 B T.</p> <p>An oak, 10 ins. in diam. brs. S. 31° W., 143 lks. dist., marked 1/4 S 27 B T.</p> <p>Ascend along W. slope of mountain.</p> <p>Top of trachite bluff, 10 ft. high, brs. S. 10° E., N. 10° W., facing W.</p> <p>We cut a cross at cor. point, for cor. of secs. 22, 23, 26 and 27, and cut 2 grooves S. and E. of cross.</p> <p>Raise a mound of stone, 4ft. base, 2ft. high, W. of cor.</p> <p>Pits impracticable.</p> <p>Land very mountainous.</p> <p>Soil, 3rd rate.</p> <p>Timber, scattering oak.</p> <p>Mountainous land, exceptionally difficult to survey,</p> <p style="text-align: right;">80.00 chs.</p> <p style="text-align: center;">September 23, 1908.</p>
56.00 80.00	<p>September 24; At 8h.a.m. 1.m.t., we set off 31° 30' N on the lat. arc; 0° 26' S on the decl. arc; and determine a meridian with the solar, at the cor. of secs. 22, 23, 26 and 27, recently established by us.</p> <p>Thence we run East on a random line, bet. secs. 23 and 26.</p> <p>Set temp. 1/4 sec. cor.</p> <p>Intersect N. and S. line, 44 lks. S. of the cor. of secs. 23, 24, 25 and 26. Thence we run S. 89° 41' W. on a true line, bet. secs. 23 and 26.</p> <p>Over mountainous and rolling land.</p> <p>Gulch, 20 lks. wide, course S.</p> <p>Road brs. N. and S.</p> <p>Set a granite stone, 20 x 10 x 5 ins., 15 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face.</p> <p>Dig pits 18 x 18 x 12 ins. E. and W. of stone, 3ft. dist. and raise a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.</p> <p>Ascend gradually.</p> <p>Ascend steep mountain.</p> <p>Ascend rocky bluff 75 ft. high</p> <p>High mountain, brs. N. and S.</p> <p>Descend over bluffs.</p> <p>The cor. of secs. 22, 23, 26 and 27.</p> <p>Land, mountainous and rolling.</p> <p>Soil, 2nd and 4th rate.</p> <p>No timber.</p> <p>Mountainous land, exceptionally difficult to survey,</p> <p style="text-align: right;">20.00 chs.</p>
40.00 79.62 21.90 29.85 39.81 60.00 63.00 77.00 79.62	<p>N. 0° 1' W. bet. secs. 22 and 23.</p> <p>Over rock bluff, along W. summit of mountain.</p> <p>Descend steep mountain, N. end.</p> <p>Wash, 15 lks. wide, course E. Ascend.</p> <p>Set tufa stone, 20 x 12 x 6 ins., 15 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face.</p> <p>Raise a mound of stone, 3ft. base, 2ft. high, W. of cor.</p> <p>Pits impracticable.</p> <p>Tufa stone quarry.</p> <p>Descend.</p>
7.50 39.75 40.00 45.00 50.00	

Subdivisions of T 22 S., R 28 E.

Chains.	
80.00	Set a sandstone, 18 x 8 x 6 ins., 12 ins. in the ground, for cor. of secs. 14, 15, 22, and 23, marked with 3 notches on S. and 2 notches on E. edge, Dig pits 18 x 18 x 12 ins., in each sec., 5 1/2 ft. dist., and raise a mound of earth 4 ft. base, 2ft. high, W. of cor. Land mountainous. Soil, 2nd and 3rd rate. No timber. Mountainous land, exceptionally difficult to survey, 80.00 chs.
40.00	N. 89°41' E. on a random line, bet. secs. 14 and 23. Set temp. 1/4 sec. cor.
79.80	Intersect N. and S. line, 18 lks. N. of the cor. of secs. 13, 14, 23 and 24. Thence we run S. 89°49' W. on a true line, bet. secs. 14 and 23. Over broken land.
25.50	Wash, 20 lks. wide, course S.
39.90	Set a tufa stone, 18 x 12 x 8 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face. Dig pits 18 x 18 x 12 ins. E and W. of stone 3ft. dist., and raise a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high. N. of cor.
41.15	Road, brs. N. and S.
52.00	Road, brs. NE. and SW.
71.00	Road, brs. SE. and NW.
78.00	Road, brs. SE. and NW.
79.80	The cor. of secs. 14, 15, 22 and 23. Land broken. Soil, 3rd rate. No timber.
	September 24, 1908.
	September 25; At 7h.a.m. l.m.t., we set off 31° 31' N. on the lat. arc; 0° 48' S. on the decl. arc; and determine a meridian with the solar, at the cor. of secs. 14, 15, 22 and 23, recently established by us. Thence we run N. 0° 1' W. bet. secs. 14 and 15. Over broken land.
2.00	Road, brs. S. 60° E. and N. 60° W.
5.25	Road, brs. SE. and NW.
16.00	Road, brs. SE. and NW.
30.00	Descend over large rocks.
33.00	Same road, brs. NE. and SW.
38.50	Gulch, course NW. Ascend.
39.15	Road, brs. SE. and NW.
40.00	Set a tufa stone, 24 x 10 x 5 ins. 18 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone 3ft. base, 2ft. high, W. of cor. Pits impracticable.
44.00	Tufa quarry, brs. N. 60° W., 125 lks. dist.,
44.00	Ridge, brs. E. and W. Descend.
47.00	Bottom. Tufa quarry 2 chs. W.
80.00	Set a tufa stone, 20 x 10 x 4 ins., 15 ins. in the ground, for cor. of secs. 10, 11, 14 and 15, marked with 4 notches on S. and 2 notches on E. edge, Dig pits 18 x 18 x 12 ins. in each sec. 5 1/2 ft. dist., and raise a mound of earth, 4ft. base, 2ft. high, W. of cor. Land, rolling and broken. Soil, 3rd rate. No timber.

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Subdivisions of T 22 S., R 28 E.

<p>Chains. 40.00 79.94</p> <p>39.97</p> <p>45.00 60.00 64.00 79.94</p>	<p>N. 89°49' E. on a random line, bet. secs. 11 and 14. Set temp. 1/4 sec. cor. Intersect N. and S. line, 16 lks. N. of the cor. of secs. 11, 12, 13 and 14. Thence we run S. 89°56' W. on a true line, bet. secs. 11 and 14. Over rolling land. Set a tufa stone, 16 x 10 x 6 ins., 11 ins. in the ground for 1/4 sec. cor., marked 1/4 on N. face. Dig pits 18 x 18 x 12 ins., E. and W. of stone, 3ft. dist., and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, N. of cor. <small>DRY WASH, Course S.E.</small> Ascend. Ridge, brs. N. and S. Descend. The cor. of secs. 10, 11, 14 and 15. Land, rolling. Soil, 3rd rate. No timber.</p>
<p>12.00 25.00 40.00</p> <p>42.00 50.00 54.00 70.00 80.00</p>	<p>N. 0°1' W. bet. secs. 10 and 11. Over broken land. Ascend rocky hill. Top of ascent, E. slope of ridge, brs. NW. Descend. Set a tufa stone, 18 x 10 x 5 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face. Dig pits 18 x 18 x 12 ins. N. and S. of stone 3ft. dist., and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, W. of cor. Ascend along E. slope of hill. Descend. Bottom of hill. Ascend. Ridge, brs. E. and W. Set a tufa stone, 18 x 6 x 4 ins., 12 ins. in the ground, for cor. of secs. 2, 3, 10 and 11, marked with 5 notches on S. and 2 notches on E. edge, and raise a mound of stone, 4ft. base, 2ft. high, W. of cor. Pits impracticable. Land, broken. Soil, 3rd rate. No timber. Mountainous land, 80.00 chs. September 25, 1908.</p>
<p>40.00 79.96</p> <p>7.00 39.98</p> <p>42.00 48.00 57.80 66.50 79.96</p>	<p>September 26; At 7h. 10m. a.m. 1.m.t. We set off 31°32' N. on the lat. arc; 1°11' S. on the decl. arc; and determine a meridian with the solar, at the cor. of secs. 2, 3, 10 and 11. Thence we run N. 89°56' E. on a random line, bet. secs. 2 and 11. Set temp. 1/4 sec. cor., Intersect N. and S. line, 4 lks. N. of the cor. of secs. 1, 2, 11 and 12. Thence we run S. 89°58' W. on a true line bet. secs. 2 and 11. Over broken land. Descend. Wash, 20 lks. wide, course SW. Ascend. Set a tufa stone, 28 x 8 x 5 ins., 21 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone, 3ft. base 2ft. high, N. of cor. Pits impracticable. Descend. Dry wash, course S. ascend. Road, brs. N. and S. Ridge, brs. N. and S. Descend. The cor. of secs. 2, 3, 10 and 11. Land, broken.</p>

Subdivisions of T 22 S., R 28 E.

Chains.	Soil 3d rate, No timber. Mountainous land, 79.96 chs.
15.80 40.00 40.75 56.00 68.60 83.76	N. 0° 1' W. bet. secs. 2 and 3, Over rolling and broken land, Descend. Gulch, 20 lks. wide, course W. Set a tufa stone, 15 x 8 x 5 ins., 10 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone 3 ft. base, 2 ft. high, W. of cor. Pits impracticable. Wash, 150 lks. wide, course S.W. Wash, 20 lks. wide, course S.W. Gulch, 40 lks. wide, course S.W. Intersect N. bdy. of Tp. 170 lks. W. of the cor. of secs. 2, 3, 34 and 35, which is a malpais stone 6 x 8 x 8 ins. above ground, firmly set, marked and witnessed, as described by the Surveyor General. Set a tufa stone, 24 x 10 x 8 ins., 18 ins. in the ground, for closing cor. of secs. 2 and 3, marked C C on S., with 2 grooves on E. and 4 grooves on W. face, dug pits 24 x 12 x 8 ins., crosswise on each line, E. and W. 3 ft. and S. of stone 7 ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high, S. of cor. Land broken and rolling. Soil 3d rate. No timber. September 26, 1908.
40.00 67.00 68.00 80.00	September 27; at 8h, a.m., l.m.t., we set off 31° 28' N. on the lat; 1° 36 1/2' S. on the decl. arc, and determine a meridian Mkd. as desc. by S. G. with the solar at the cor. of secs. 33 and 34. on S. bdy., N. 0° 1' W. bet. secs. 33 and 34. Over rolling land. set a tufa stone, 16 x 12 x 5 ins., 11 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, dig pits 18x18x 12 ins. N. and S. of stone, 3 ft. dist., and raise a mound of earth and stone 3 1/2 ft. base, 1 1/2 ft. high, W. of cor. Wash, 40 lks. wide, course SW. Ascend steep mountain. Set a tufa stone, 24 x 8 x 5 ins. 18 ins. in the ground, for cor. of secs. 27, 28, 33 and 34, marked with 1 notch on S., and 3 notches on E. edge, and raise a mound of stone 4 ft. base, 2 ft. high, W. of cor. pits impracticable. Land mountainous and rolling. Soil 3d rate. No timber. Mountainous, land, 80.00 chs.
40.00 80.38 4.20 40.19 51.00	East, on a random line, bet. secs. 27 and 34. set temp. 1/4 sec. cor. Intersect N. and S. line, 7 lks. S. of cor. of secs. 26, 27, 34 and 35, thence we run, S. 89° 57' W., on a true line, bet. secs. 27 and 34. Over mountainous and rolling land. Descend steep mountain. Gulch, 30 lks. wide, course S. 60° W. Set a tufa stone 20 x 10 x 7 ins. 15 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor. Pits impractic- able. Gulch, 30 lks. wide, course SW. Ascend very abruptly.

Township 22 S., R. 28 E.

Chains

75.00	Mountain ridge, bears N. and S. Descend abruptly.
80.38	The cor. of secs. 27, 28, 33 and 34. Land mountainous and rolling. Soil 2d and 3d rate. No timber. Mountainous land, exceptionally difficult to survey, 33.00 chs.
15.00	N.0°1'W. bet. secs. 27 and 28. Over broken land, along W. slope of high mountain. Descend along N. end of mountain.
40.00	Set a tufa stone, 18 x 12 x 4 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone 3 ft. base, 2 ft. high, W. of cor. Pits impracticable.
41.30	Gulch, 40 lks. wide, course S.75°W., Ascend.
79.50	Descend.
80.00	Set a granite stone, 20 x 8 x 4 ins., 15 ins. in the ground, for cor. of secs. 21, 22, 27 and 28, marked with 2 notches on S. and 3 notches on E. edge, and raise a mound of stone 4 ft. base, 3 ft. high W. of cor. Pits impracticable. Land mountainous and broken. Soil 2d and 3d rate. No timber. Mountainous land, 80.00 chs.
40.00	N.89°57'E., on a random line, bet. secs. 22 and 27. Set temp. 1/4 sec. cor.
80.14	Intersect N. and S. line, 12 lks. N. of the cor. of secs. 22, 23, 26 and 27, thence we run, N.89°58'W., on a true line, bet. secs. 22 and 27. Over mountainous land, descend steep mountain.
17.15	Gulch, 30 lks. wide, course S. Ascend.
34.50	Top of mountain, bears SE, and NW., descend.
40.07	Set a tufa stone, 18 x 12 x 5 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone 3 ft. base, 2 ft. high, N. of cor. Pits impracticable.
64.90	Descend steep mountain. Gulch, 20 lks. wide, course SW. Ascend.
71.00	Ridge, bears N. and S. Descend.
79.00	Gulch, 20 lks. wide, course S. Ascend bluff.
79.25	Ridge, bears N. and S. Descend.
79.80	Gulch, 6 lks. wide, course S.20°E. Ascend.
80.14	The cor. of secs. 21, 22, 27 and 28. Land mountainous and broken. Soil 2d and 4th rate. No timber. Mountainous land, 80.14 chs. September 27, 1908.

Subdivisions of T 22 S., R 28 E.

Chains.	
	<p>September 28; At 7h 15m, a.m. l.m.t., we set off $31^{\circ}30'N$. on the lat. arc; $1^{\circ}58'S$ on the decl. arc; and determine a meridian with the solar, at the cor. of secs. 21.22. 27 and 28, recently established by us.</p> <p>Thence we run N. $0^{\circ}1' W$. bet. secs. 21 and 22. Over broken land. Descend. .60 Gulch, 5 lks. wide, course S $10^{\circ}E$. Ascend. 3.25 Ridge, brs. SE and NW. Descend. 8.00 Gulch, 15 lks. wide, course S. $10^{\circ}E$. Ascend. 40.00 Set a tufa stone, 18 x 10 x 8 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, and raise a mound of stone, $2\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. 66.20 Mountain ledge brs. SE and NW. Descend. 80.00 Set a tufa stone, 26 x 8 x 6 ins., 18 ins. in the ground, for cor. of secs. 15.16.21 and 22, marked 22 S. on NE; 28E. on SE.; with 3 notches on S. and E. edges. Raise a mound of stone 4 ft. base, 2ft. high, W. of cor. Pits impracticable. Land, Mountainous. Soil, 3rd rate. No timber. Mountainous land, 80.00 chs.</p>
	<p>September 28; At the above cor. we set off $2^{\circ}04' S$. on the decl. arc; and at noon, observe the sun on the meridian; the resulting lat. is $31^{\circ}31'N$.</p>
40.00	S. $89^{\circ}58' E$ on a random line, bet. secs. 15 and 22.
80.10	Set temp. $\frac{1}{4}$ sec. cor. Intersect N and S. line, 30 lks. N. of the cor. of secs. 14.15.22 and 23. Thence we run N. $89^{\circ}45' W$. on a true line, bet. secs. 15 and 22. Over rolling land.
40.05	Set a tufa stone, 18 x 10 x 7 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone, $2\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
57.45	Gulch, course N.W.
59.95	Road, brs N. and S.
77.40	Gulch, 25 lks. wide, course N $20^{\circ}W$.
80.10	The cor, of secs, 15.16.21 and 22. Land, rolling. Soil, 2nd and 3rd rate. No timber.
.85	N. $0^{\circ}1' W$. bet. secs. 15 and 16. Over rolling land. Descend.
32.00	Gulch. 10 lks. wide, course N.W.
36.15	Dry gulch, 20 lks. wide, course N. $15^{\circ}W$.
39.00	Road, brs. E and W.
40.00	Wash, 30 lks. wide, course W. Set a tufa stone, 24 x 8 x 6 ins., 18 ins. in the

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Chains. ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, from which
 A mesquite, 4 ins. in diam. brs. N. 38° E., 153 lks. dist.,
 marked $\frac{1}{4}$ S 15 B T. No other tree available.
 Dig pits 18 x 18 x 12 ins., N and S. of stone, 3ft.
 dist., and raise a mound of earth and stone. $3\frac{1}{2}$ ft. base,
 $1\frac{1}{2}$ ft. high, W. of cor.
 43.00 Ascend.
 68.00 Descend.
 75.30 Gulch, 30 lks. wide, course SW.
 Ascend.
 78.50 Ridge, brs. NE and SW.
 Descend.
 80.00 Rock in place, 6 x 6 x 2 ft. above ground; we cut a
 cross on W. end, for cor. of secs. 9.10.15 and 16, and
 cut 4 grooves on S. and 3 grooves on E. of cross; from
 which
 An oak, 24 ins. in diam. brs. S. 22° E., 250 lks. dist.,
 marked T 22 S R 28 E S 15 B T.
 An oak, 30 ins. in diam. brs. S. $84\frac{1}{2}^{\circ}$ W., 105 lks. dist.,
 marked T 22 S R 28 E S 16 B T.
 An oak, 18 ins. in diam. brs. N. 38° W., 27 lks. dist.,
 marked T 22 S R 28 E S 9 B T.
 No other tree available. Raise mound of stone 14ft.
 base, 2ft. high, W of cor. Pits impracticable.
 Land, rolling.
 Soil, 2nd and 3rd rate.
 Timber, oak and mesquite.

40.00 S. $89^{\circ} 45'$ E. on a random line, bet. secs. 10 and 15.
 Set temp. $\frac{1}{4}$ sec. cor.
 80.46 Intersect N and S. line, 7 lks. S. of the cor. of secs.
 10.11.14 and 15.
 Thence we run
 N. $89^{\circ} 48'$ W. on a true line, bet. secs. 10 and 15.
 Over broken and mountainous land.
 31.95 Ascend.
 31.95 Top of mountain, brs. SE and NW. Descend.
 40.23 Set a tufa stone, 18 x 12 x 8 ins., 12 ins. in the
 ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face.
 Dig pits 18 x 18 x 12 ins. E and W. of stone, 3ft. dist.,
 and raise a mound of earth. $2\frac{1}{2}$ ft. base. $1\frac{1}{2}$ ft. high,
 N. of cor.
 57.50 Gulch, 20 lks. wide, course SW.
 Along SW slope.
 Descending.
 76.20 Gulch, 30 lks. wide, course SW
 Ascend.
 79.00 Ridge, brs. NE and SW.
 Descend.
 80.46 The cor. of secs. 9.10.15 and 16.
 Land, mountainous
 Soil, 3rd and 4th rate.
 No timber.
 Mountainous land, 80.46 chs.

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,10 N. $0^{\circ} 1'$ W. bet. secs. 9 and 10.
 Over broken and mountainous land.
 Gulch, 15 lks. wide, course S. 30° W.
 Ascend.
 28.30 Gulch, 30 lks. wide, course S. 20° E.
 Ascend steep rocky mountain.

Subdivisions of T 22S., R 28 E.

Chains.

40.00

Set a malpais stone, 8 x 10 x 5 ins., 4 ins. in the ground, to bedrock, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face and build a mound of stone, around it. Raise a mound of stone 3ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.

53.50

Ridge, brs. E. and W.
Descend abruptly.

78.50

Gulch, 20 lks. wide, course S.75° W.

80.00

Set a trachite stone, 18 x 10 x 6 ins. 12 ins. in the ground, for cor. of secs. 3.4.9 and 10, marked with 5 notches on S and 3 notches on E. edge.

Dig pits 18 x 18 x 12 ins., in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base, 2ft. high. W. of cor.

Land, mountainous.

Soil, 4th rate.

No timber.

Mountainous land,

80.00 chs.

September 29; At 10h. a.m. l.m.t., we set off $31^{\circ} 32' N.$ on the lat. arc; $2^{\circ} 26' S.$ on the decl. arc; and determine a meridian with the solar, at the cor. of secs. 3.4.9 and 10; thence we run

S. $89^{\circ} 48' E.$ on a random line bet. secs. 3 and 10.

40.00

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

80.06

Intersect N. and S. line; $18\frac{1}{2}$ lks. of cor. of secs. 2.3.10 and 11.

Thence we run

N. $89^{\circ} 56' W.$ on a true line bet. secs. 3 and 10.

Over rolling land.

Descend.

22.00

Ascend porphyry ridge.

27.00

Top of ridge, brs. N. and S.

Descend.

32.15

Gulch, 20 lks. wide, course SW.

40.03

Set a tufa stone, 16 x 10 x 6 ins., 11 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face.

Dig pits, 18 x 18 x 12 ins. E and W. of stone, 3ft. dist. and raise a mound of earth and stone, 3ft. base 2ft. high. N. of cor.

80.06

The cor. of secs. 3.4.9 and 10.

Land, rolling.

Soil, 2nd and 3rd rate.

No timber.

N. $0^{\circ} 1' W$ bet. secs. 3 and 4.

Over rolling land.

14.00

Wash. 25 lks. wide, course SW.

40.00

Set a trachite stone, 16 x 10 x 6 ins., 11 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face.

Dig pits 18 x 18 x 12 ins., N. and S. of stone, 3ft. dist., and raise a mound of earth and stone. $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high. W. of cor.

55.00

Ascend.

74.00

Ridge, brs. E and W.

Descend.

78.00

Gulch, 10 lks. wide, course SW.

Ascend.

84.22

Ridge, brs. NE and SW.

Intersect N. bdy. of Tp. 168 lks. W. of the cor. of

Subdivisions of T 22S., R 28 E.

Chains.

secs. 3.4.33 and 34, which is a stone, 10 x 8 x 6 ins. above ground, firmly set and properly marked and witnessed as described by the surveyor general.
 Set a limestone 18 x 12 x 6 ins., 12 ins. in the ground for closing cor. of secs. 3 and 4, marked C C on S; with 3 grooves on E. and W. faces, and raise a mound of stone 4ft. base, 2ft. high, S. of cor. Pits impracticable.
 Land, rolling.
 Soil, 3rd rate.
 No timber.

September 29. 1908.

September 30; At 7h. a.m. l.m.t., we set off $31^{\circ}28'N$ on the lat. arc; $2^{\circ}44'S$ on the decl. arc; and determine a meridian with the solar, at the cor. of secs. 28.29.32 and 33. on the S. bdy. of the Tp. as described by the Surveyor General.

Thence we run
 N. $0^{\circ}2'W$. bet. secs. 32 and 33.

Over rolling land.

40.00

Set a granite stone, 24 x 10 x 6 ins., 18 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face.

Raise a mound of stone. 3 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.

43.50

Wash. 30 lks. wide, course SW.

80.00

Set a granite stone, 18 x 10 x 5 ins. 12 ins. in the ground, for cor. of secs. 28.29.32 and 33, marked with 1 notch on S. and 4 notches on E. edge, and raise a mound of stone 4ft. base, 2ft. high, W. of cor.

Pits impracticable.

Land, rolling.

Soil, rocky and 3rd rate.

No timber.

East on a random line bet. secs. 28 and 33.

40.00

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

79.88

Intersect N. and S. line, 5 lks. N. of the cor. of secs. 27.28.33 and 34.

Thence we run

N. $89^{\circ}58'W$. on a true line bet. secs. 28 and 33.

Over rolling and mountainous land.

11.00

Descend steep mountain.

21.40

Tufa quarry.

Ascend.

22.90

Rocky knoll brs. N. and S.

39.94

Set a granite stone 20 x 8 x 6 ins. 15 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face.

Dig pits 18 x 18 x 12 ins., E and W. of stone 3ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high. N. of cor.

Descend.

46.70

Wash, 30 lks. wide, course S $60^{\circ}W$.

79.88

The cor of secs. 28.29 32 and 33.

Land, rolling and very mountainous.

Soil, 3rd and 4th rate.

No timber.

At this cor. at noon I set off $2^{\circ}51'S$ on the decl. arc and observe the sun on the meridian; the resulting lat. is $31^{\circ}29'N$.

Chains.	Mountainous land, Very mountainous land, exceptionally difficult to survey,	35.00 chs. 12.00 chs.
8.00 20.00 40.00 44.50 80.00	N.0°2'W., bet. secs. 28 and 29. Over mountainous land. Ascend. Ascend steep mountain. Top of ascent on W. slope of ridge. Descend. Set a granite stone, 18 x 12 x 6 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone, 3 ft. base, 2 ft. high W. of cor., pits impracticable. Gulch, 50 lks. wide, course S.60°W. Ascend steep mountain. Cor falls on steep west slope of mountain. We cut a cross at cor. point, on granite bedrock for cor. of secs. 20, 21, 28 and 29, and cut 2 grooves on S., and 4 grooves on E. of cross, and raise a mound of stone 4.ft base, 3 ft. high, W. of cor, pits imprac- ticable. Land mountainous. Soil rocky, 4th rate. No timber. Mountainous land,	80.00 chs. September 30, 1908.
40.00 80.14 25.00 40.07 54.80 72.00 80.14	October 1; At 7 ^h , a.m., l.m.t., we set off 31°30'N on the lat. arc: 3°7'S. on the decl. arc, and determine a meridian with the solar, at the cor. of secs. 20,21, 28 and 29, and run thence S.89°58'E., on a random line bet. secs. 21 and 28. Set temp. 1/4 sec. cor. Intersect N. and S. line, 38 lks. S. of the cor. of secs. 21, 22, 27 and 28, thence we run S.89°46' W. on a true line, bet. secs. 21 and 28. Over very mountainous land. Ascend. Top of high mountain ridge, bears N. and S. Descend. Set a sandstone, 16 x 10 x 6 ins., 11 ins. in the fround, for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor. Pits impracticable. Gulch, 30 lks. wide, course S. Ascend, abruptly. Top of high mountain ridge, bears N. and S. Descend very abruptly. The cor. of secs. 20, 21, 28 and 29. Land very mountainous, Soil rocky, 4th rate. No timber. Very mountainous land, exceptionally difficult to survey,	80.14 chs.
23.00 30.00	N.0°2' W., bet. secs. 20 and 21. Over very mountainous land. Ascend over very rough ground, along W. slope of mountain Top of mountain, bears N. 20 E. Descend. Along west slope.	

Chains.

- 40.00 Set a granite stone, 18 x 10 x 6 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone, 3 ft. base, 2 ft. high W. of cor., pits impracticable.
- 67.00 Gulch, 20 lks. wide, course W.
Ascend over rocky bluffs.
- 74.00 Ridge, bears S.20° E. and N.20° W.
- 76.00 Descend over rock bluffs.
- 80.00 Set a granite stone, 20 x 10 x 5 ins., 15 ins. in the ground, for cor. of secs. 16, 17, 20 and 21, marked with 3 notches on S., and 4 notches on E. edge, and raise a mound of stone 4 ft. base, 3 ft. high, W. of cor., pits impracticable.
Land very mountainous.
Soil 4th rate.
No timber.
Very mountainous land, exceptionally difficult to survey, 80.00 chs.
October 1, 1908.

- October 2; At 8h, a.m., l.m.t., we set off 31° 31' on the lat. arc; 3° 33' S. on the decl. arc, and determine a meridian with the solar, at the cor. of secs. 16, 17, 20 and 21, and run thence
N.89° 46' E. on a random line bet. secs. 16 and 21.
- 40.00 Set temp. 1/4 sec. cor.
- 80.20 Intersect N. and S. line, 16 lks. N. of the cor. of secs. 15, 16, 21 and 22, thence we run
S.89° 53' W., on a true line, bet. secs. 16 and 21.
Over very mountainous land.
Ascend.
- 30.00 Mountain ridge, bears S.E. and N.W.
Descend steep mountain.
- 40.10 Set a tufa stone, 18 x 8 x 6 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone; 3 ft. base, 2 ft. high, W. of cor.
Pits impracticable.
- 43.00 Gulch, 25 lks. wide, course N.75° W.
Ascend N, end of steep mountain ridge.
- 50.00 Descend.
- 65.00 Gulch, 25 lks. wide, course N.20° W.
Ascend very steep mountain.
- 80.20 The cor. of secs. 16, 17, 20 and 21.
Land very mountainous.
Soil 4th rate.
No timber.
Very mountainous land, exceptionally difficult to survey, 80.20 chs.

- N.0° 2' W., bet. secs. 16 and 17.
Over very mountainous land.
Descend steep mountain.
- 27.00 Gulch, 30 lks. wide, course S.70 W. Ascend.
- 30.00 Road brs. SW. and NE.
- 33.75 Wire fence, bears E. and W.
Enter pasture, J. Gardiner, owner.
- 40.00 Set a malpais stone 24 x 20 x 8 ins., 6 ins. in the ground, to bedrock, and build a mound of stone.

Subdivisions of T 22 S., R 28 E.

Chains. around it, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, and raise a mound of stone, 3ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.

51.00 Ridge brs. E. and W.
Descend abruptly.
Leave pasture.

71.00 Bottom brs. E and W.

72.20 Road, brs. E. and W.

72.44 Wire fence, brs. E and W.
Enter pasture. Cattle Co; owner.

80.00 Set a granite stone 18 x 8 x 5 ins., 12 ins. in the ground, for cor. of secs. 8.9.16 and 17, marked with 4 notches on S. and E. edges. Dig pits 18 x 18 x 12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth and stone, 4ft. base, 2ft. high, W. of cor.
Land very mountainous.
Soil, 3rd and 4th rate.
No timber.
Mountainous land, 80.00 chs.

40.00 N. $89^{\circ} 53'$ E. on a random line, bet. secs. 9 and 16.
Set temp. $\frac{1}{4}$ sec. cor.

80.00 Intersect N. and S. line, 16 lks. N. of the cor. of 9.10.15 and 16.
Thence we run
West on a true line, bet. secs. 9 and 16.
Over broken and mountainous land.

.10 Gulch 15 lks. wide, course S. 30° W. Ascend.

.20 Top of bank.

16.75 Gulch, 20 lks. wide, course S.

22.00 Ridge, slopes S.
Descend.

25.85 Wire fence brs. N. and S. Cattle Co; owner.
Enter pasture.

26.50 Gulch, 20 lks. wide, course S.

30.00 Gulch, 20 lks. wide, course S.

40.00 Set a limestone, 18 x 10 x 6 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ in N. face, and raise a mound of stone 3ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
Pits impracticable.

68.00 Gulch, course NW.

80.00 The cor. of secs. 8.9.16 and 17.
Land, broken and mountainous.
Soil, 2nd and 3rd rate.
No timber.
Land covered with dense undergrowth, 34.00 chs.
October 2, 1908.

October 3; At 8h.a.m. l.m.t., we set off $31^{\circ} 32'$ N on the lat. arc; $3^{\circ} 56\frac{1}{2}'$ S. on the decl. arc; and determine a meridian with the solar, at the cor. of secs. 8.9.16 and 17, recently established by us.

Thence we run
N. $0^{\circ} 2'$ W. bet. secs. 8 and 9, over broken and mts. land.

4.00 Gulch, course W.

37.40 Dry gulch, 50 lks wide, course SW.

40.00 Point for $\frac{1}{4}$ cor. falls in wash.

42.50 Leave wash.

42.70 Set a tufa stone, 18 x 6 x 5 ins., 12 ins in the ground for witness cor. to $\frac{1}{4}$ sec. cor., marked W C $\frac{1}{4}$ on W. face, and raise a mound of stone, 3ft. base, 2ft. high W. of cor. Pits impracticable.
Ascend mountaino abruptly.

50.00 Ascend mountain very abruptly.

67.00 Summit of butte 600 ft. above cor.
Descend very abruptly.

80.00 Set a tufa stone, 18 x 10 x 5 ins., 12 ins. in the ground, for cor. of secs. 4.5.8 and 9, marked with

Subdivisions of T 22S., R 28 E.

Chains.

5 notches on S. and 4 notches on E. edge.
 Raise a mound of stone 4ft. base, 2ft. high, W. of cor.
 Pits impracticable.
 Land, broken and mountainous.
 Soil, 2nd and 3rd rate.
 No timber.
 Mountainous land, 43.00 chs.
 Mountainous land, exceptionally
 difficult to survey, 37.00 chs.

40.00
 80.06

East on a random line bet. secs. 4 and 9.
 Set temp. $\frac{1}{4}$ sec. cor.
 Intersect N. and S. line, 23 lks. N. of the cor. of secs.
 2.3.9 and 10.

1.50
 4.00
 11.80
 40.03

Thence we run
 N. 89° 50' W. on a true line, bet. secs. 4 and 9.
 Over broken and mountainous land.
 Wash, 30 lks. wide, course SW.
 Wash, 25 lks. wide, course SW.
 Wash, 50 lks. wide, course S. 30° W.
 Set a malpais stone, 20 x 14 x 6 ins., 15 ins. in the
 ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face,
 Dig pits 18 x 18 x 12 ins., E and W. of stone, 3ft. dist.,
 and raise a mound of earth 3ft. base, 1 $\frac{1}{2}$ ft. high, N.
 of cor.

54.40
 60.00
 70.00
 80.06

Wire fence brs. NE and SW.
 Enter pasture.
 Ascend.
 Ridge brs. NE. and SW.
 Descend.
 The cor. of secs. 4.5.8 and 9.
 Land, broken and mountainous.
 Soil, 2nd and 3rd rate.
 No timber.
 Mountainous land, 80.06 chs.

15.93
 25.00
 40.00
 80.00
 83.75

N. 0° 2' W. bet. secs. 4 and 5.
 Over broken and mountainous land.
 Descend.
 Wire fence brs. SE and SW.
 Leave pasture.
 Bottom.
 Set a tufa stone, 20 x 10 x 8 ins. 15 ins. in the
 ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face.
 Dig pits. 18 x 18 x 12 ins., N and S. of stone, 3ft. dist.,
 and raise a mound of earth 2 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, W.
 of cor.
 Wash, 25 lks. wide, course SW.
 Ascend.
 Intersect N. bdy. of Tp., 163 lks. W. of the cor. of
 secs. 4.5.32 and 33, which is a stone, firmly set,
 and properly marked and witnessed, as described by the
 surveyor general. We build a mound of stone around
 the cor. stone to protect it from the wash.
 Set a lime stone 20 x 12 x 6 ins. 15 ins. in the
 ground, for capping cor. of secs. 4 and 5, marked C C
 on S; with 4 grooves on E and 2 grooves on W. face,
 Dig pits 12 x 18 x 12 ins. crosswise on each line, E
 and W. 3ft., and S. of stone 2 ft. dist., and

Subdivisions of T 22.S., R 28 E.

Chains..

raise a mound of earth and stone, 4ft. base, 2ft. high, S. of cor.
Land, hilly.
Soil 3rd rate.
No timber.
Mountainous land, 25.00 chs.

October 3, 1908.

October 4; At 7h.10m.a.m./1.m.t., we set off $31^{\circ}28'N$. on the lat. arc; $4^{\circ}17'S$ on the decl. arc; and determine a meridian with the solar, at the cor. of secs. 29.30.31 and 32 on the S. bdy. of the T. & Wit. as desc. by the S.G. Thence we run

N. $0^{\circ}2'W$. bet. secs. 31 and 32.

Over rolling and mountainous land.

6.00

Wash, 50 lks. wide, course SW.

Ascend rocky hill.

15.00

Top of E. slope of bluff brs. N.

32.00

North end of bluff.

Descend.

40.00

Set a trachite stone, 20 x 10 x 4 ins., 15 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, and raise a mound of stone, $2\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.

70.00

Tufa quarry, 5 chs. E.

80.00

Set a tufa stone, 18 x 12 x 6 ins., 12 ins. in the ground, for cor. of secs. 29.30.31 and 32, marked with 1 notch on S. and 5 notches on E. edge.

Dig pits, 18 x 18 x 12 ins. in each sec., $5\frac{1}{2}$ ft. dist., and raise a mound of earth and stone, 4ft. base, 2ft. high, W. of cor.

Land, rolling and mountainous.

Soil, rocky and 3rd rate.

No timber.

Mountainous land,

40.00 chs.

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

40.00

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

79.96

Intersect N. and S. line, 8 lks. S. of the cor. of secs. 28.29. 32 and 33.

Thence we run

S. $89^{\circ}57'W$. on a true line, bet. secs. 29 and 32.

Over rolling land.

39.98

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

79.96

The cor. of secs. 29.30.31 and 32.

Land, rolling.

Soil, rocky and 3rd rate.

No timber.

West on a true line, bet. secs. 30 and 31.

Over rolling land.

Descend gradually.

40.00

Set a tufa stone, 20 x 8 x 6 ins., 15 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and

Subdivisions of T 22 S., R 28 E.

<p>Chains. 40.30 80.00 93.56</p>	<p>raise a mound of stone, 2½ ft. base, 1½ ft. high, N. of cor. Pits impracticable. Road, brs. N. and S. Wash, 1 ch. wide, course SW. Intersect W. bdy. of Tp., 6.38 chs. S. of the cor. of secs. 25.30.31 and 36, which is a stone, firmly set, marked and witnessed, as described by the surveyor general. Set a tufa stone, 24 x 10 x 6 ins., 18 ins. in the ground, for Closing cor. of secs. 30 and 31, marked C C on E; with 1 groove on S. and 5 grooves on N. face. Dig pits, 24 x 18 x 12 ins., crosswise on each line, N. and S., 3ft., and E. of stone, 7ft. dist; and raise a mound of earth and stone, 4ft. base, 2ft. high, E. of cor. Land, rolling. Soil, 2nd and 3rd rate. No timber. At this cor. at noon I set off 4°24'S. on the decl. arc and observe the sun on the meridian; the resulting lat. is 31°29'N.</p>
<p>40.00 57.50 65.00 80.00</p>	<p>N. 0 2' W. bet. secs. 29 and 30. Over rolling land. Set a tufa stone, 22 x 10 x 8 ins., 14 ins. in the ground, for ¼ sec. cor., marked ¼ on W. face, and raise a mound of stone, 2½ ft. base, 1½ ft. high, W. of cor. Pits impracticable. Wash, 50 lks. wide, course S. 60° W. Wash, 1 ch. wide. course SW. Set a tufa stone, 18 x 8 x 6 ins., 12 ins. in the ground, for cor. of secs. 19.20.29 and 30, marked with 2 notches on S. and 5 notches on E. edge. Dig pits, 18 x 18 x 12 ins. in each sec. 5½ ft. dist., and raise a mound of earth and stone, 4ft. base, 2ft. high, W. of cor. Land, rolling. Soil, 3rd rate. No timber.</p>
<p>40.00 80.10 40.05 43.00 80.10</p>	<p>October 4, 1908. October 5; At 8h. a.m. l.m.t., we set off 31° 30' N. on the lat. arc; 4° 42' S. on the decl. arc; and determine a meridian with the solar, at the cor. of secs. 19.20.29 and 30, recently established by us. Thence we run N. 89° 57' E on a random line, bet. secs. 20 and 29 Set temp. ¼ sec. cor. Intersect N. and S. line, 10 lks. S. of the cor. of secs. 20.21.28 and 29. Thence we run S. 89° 53' W. on a true line, bet. secs. 20 and 29. Over rolling and mountainous land. Descend. Set a tufa stone, 24 x 10 x 8 ins., 18 ins. in the ground, for ¼ sec. cor. marked ¼ on N. face. Dig pits, 18 x 18 x 12 ins., E and W. of stone, 3ft. dist., and raise a mound of earth and stone, 3½ ft. base, 1½ ft. high, N. of cor. Gulch. 20 lks. wide, course SW. Descend over rolling land. The cor. of secs. 19.20.29 and 30. Land, mountainous and rolling. Soil, 3rd and 4th rate. No timber. No timber, Mountainous land, rolling.</p>

Subdivisions of T. 22 S., R. 28 E.

Chains.

Mountainous land, exceptionally difficult to survey,
37.00 chs.

- West on a true line, bet. secs. 19 and 30.
Over rolling and broken land.
- 40.00 Set a malpais stone, 24 x 6 x 4 ins., 18 ins. in the ground, for 1/4 sec. cor., marked 1/4 on the N. face. Dig pits 18 x 18 x 12 ins., E. and 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.
- 50.50 Road, brs. N. and S.
- 53.00 Wash, 25 lks. wide, course S. 75°W.
- 59.75 Wash, 35 lks. wide, course SW.
Ascend.
- 70.00 Ridge, brs. SE. and NW.
Descend.
- 93.53 Intersect W. bdy. of Tp. 6.76 chs. S. of cor. of secs. 19, 24, 25 and 30, which is a stone 8 x 6 x 6 ins. above ground, firmly set, marked with 2 notches on S. and 4 notches on N. edge, with pits in each sec. and mound of earth W. of cor.
Set a tufa stone, 24 x 10 x 6 ins., 18 ins. in the ground, for closing cor. of secs. 19 and 30, marked C C on E, with 2 grooves on S. and 4 grooves on N. face. Dig pits, 24 x 18 x 12 ins. crosswise of each line, N. and S. 3 ft. and E. of stone, 7 ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, E. of cor.
Land, rolling and broken.
Soil, 3rd rate.
No timber.
- N. 0° 2' W. bet. secs. 19 and 20.
Over rolling land.
- 25.50 Wash, 20 lks. wide, course SW.
- 33.80 Road, brs. NE. and SW.
- 40.00 Set a sandstone, 18 x 12 x 4 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face. Dig pits, 18 x 18 x 12 ins. N. and S. of stone 3 ft. dist., and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.
- 61.00 Wash, 30 lks. wide, course SW.
Ascend.
- 80.00 Set a tufa stone, 20 x 12 x 6 ins., 15 ins. in the ground, for cor. of secs. 17, 18, 19, and 20, marked with 3 notches on S. and 5 notches on E. edge. Dig pits, 18 x 18 x 12 ins. in each sec. 5 1/2 ft. dist., and raise a mound of earth and stone, 4 ft. base, 2 ft. high, W. of cor.
Land, rolling.
Soil, rocky and 3rd rate.
No timber.
- 40.00 N. 89° 53' E. on a random line, bet. secs. 17 and 20. Set temp. 1/4 sec. cor.
- 80.14 Intersect N. and S. line, 36 lks. N. of the cor. of secs. 16, 17, 20 and 21.
Thence we run
N. 89° 52' W. bet. secs. 17 and 20. on true line.

Subdivisions of T. 22 S., R. 28 E.

Chains.	Over rolling and broken land. Ascend abruptly.
5.50	Top of mountain, brs. N. and S. Descend side of high mountain.
31.75	Gulch, 50 lks. wide, course SW.
36.10	Road, brs. NE. and SW.
40.07	Set a tufa stone, 18 x 12 x 3 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor. Pits impracticable.
53.65	Gulch, 20 lks. wide, course S. Ascend.
59.00	Tufa ridge, brs. N. and S. Descend.
64.60	Wash, 30 lks. wide, course S. 30° W. Ascend gradually.
80.14	The cor. of secs. 17, 18, 19, and 20. Land, rolling. Soil, 3rd rate. No timber.
	Mountainous land, 48.39 chs.
	Mountainous land, exceptionally difficult to survey, 31.75 chs.
	West on a true line, bet. secs. 18 and 19. Over rolling land.
25.00	Wash, 30 lks. wide, course S. 30° W.
35.00	Descend.
40.00	Set a limestone, 20 x 6 x 6 ins., 15 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face, and raise a mound of stone 3 ft. base, 2 ft. high, N. of cor. Pits impracticable.
56.15	Road, brs. N. and S.
66.00	Road, brs. SE. and NW.
92.84	Intersect W. bdy. of Tp. 6.55 chs. S. of cor. of secs. 13, 18, 19 and 24 which is a stone, 10 x 8 x 6 ins. above ground, firmly set, marked with 3 notches on N. and S. edges, with pits in each sec. and mound of earth W. of cor. Set a tufa stone, 16 x 10 x 6 ins., 11 ins. in the ground, for closing cor. of secs. 18 and 19, marked C C on E. with 3 grooves on N. and S. faces. Dig pits, 24 x 18 x 12 ins., crosswise on each line, N. and S. 3 ft. and E. of stone 7 ft. dist., and raise a mound of earth and stone 4 ft. base, 2 ft. high, E. of cor. Land rolling. Soil 2d rate. No timber.
	N. of 2' W. bet. secs. 17 and 18. Over rolling land.
40.00	Set a malpais stone, 16 x 10 x 8 ins. 11 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone 3 ft. base, 2 ft. high, W. of cor. Pits impracticable.
45.00	Wash, 3 lks. wide, course SW., Ascend mountain.
65.00	Ridge, bears SE. and NW., Descend.
72.00	Wash, 20 lks. wide, course NE. Ascend E. slope of high mountain.
80.00	Set trachite stone, 20 x 8 x 6 ins. 15 ins. in the ground, for cor. of secs. 7, 8, 17 and 18, marked with 4 notches on S. and 5 notches on E. edge, and raise

Subdivisions of T 22 S., R 28 E.

Chains.

a mound of stone, 4ft. base, 3ft. high, W. of cor.
 Pits impracticable.
 Land, rolling and mountainous.
 Soil, 3rd and 4th rate.
 No timber.
 Mountainous land, 35.00 chs.

October 5, 1908.

October 6 ; At 8 h.a.m. 1.m.t., we set off 31° 32' N on the lat. arc; 5° 05' S on the decl. arc; and determine a meridian with the solar. at the cor. of secs. 7.8.17 and 18, recently established by us.

Thence we run

S. 89° 52' E. on a random line. bet. secs. 8 and 17.

40.00

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

30.08

Intersect N. and S. line, 14 lks. S. of the cor. of secs. 8.9.16 and 17.

Thence we run

N. 89° 58' W. on a true line, bet. secs. 8 and 17.

23.75

Over rolling and mountainous land.

Wire fence brs. SE and NW.

26.20

Leave pasture. Cattle Co; owner.

Road, brs. SE and NW.

31.70

Ascend northerly slope. Wire fence, brs. SE and NW. Charles Gardiner, owner.

40.04

Set a tufa stone, 18 x 12 x 6 ins., 16 ins. in the ground, to bedrock, for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face, and build a mound of stone around it.

Raise a mound of stone, 3ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.

63.50

Gulch, 20 lks, wide, course N.

Ascend steep rocky mountain.

80.08

The cor. of secs. 7.8.17 and 18.

Land, rolling and mountainous.

Soil, 3rd and 4th rate.

No timber.

Mountainous land, 16.58 chs.

West on a true line, bet. secs. 7 and 18.

Over rolling and mountainous land.

Ascend very abruptly.

11.00

Top of butte.

Descend very abruptly.

34.00

Bottom of butte.

40.09

Set a tufa stone, 18 x 12 x 6 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face.

Dig pits 18 x 18 x 12 ins., E. and W. of stone, 3ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$ ft. base 1 $\frac{1}{2}$ ft. high, N. of cor.

The $\frac{1}{4}$ cor. falls 500 ft. below top of butte.

55.07

Road, brs. N and S.

58.50

Road, brs. N. and S.

80.00

Wash, 1 ch. wide, course S.

85.50

Road, brs. NE and SW.

93.23

Intersect W. bdy., 8.50 chs. S. of the cor. of secs.

7.12.13 and 18, which is a stone, firmly set. marked and witnessed, as described by the surveyor general.

Set a granite stone, 24 x 12 x 8 ins., 18 ins. in the ground, for closing cor. of secs. 7 and 18, marked C C on E; with 4 grooves on S. and 2 grooves on N.

face.

Dig pits 24 x 18 x 12 ins., crosswise on each line,

Subdivisions of T 22S., R 28 E.

Chains.	<p>3ft., and E. of stone 7ft. dist., and raise a mound of earth and stone, 4ft. base, 2ft. high, E. of cor. Land, mountainous and rolling. Soil, 3rd and 4th rate. No timber. Very mountainous land, exceptionally difficult to survey, 40.00 chs. At this cor. at noon I set off $5^{\circ}10'S$, on the decl. arc and observe the sun on the meridian; the resulting lat is $31^{\circ}32'N$.</p>
3.00	N. $0^{\circ}2' W$. bet. secs. 7 and 8.
15.00	Over mountainous and rolling land, Ascend along E. slope of high mountain.
25.00	Descend steep mountain.
35.00	Wire fence, brs. E and W. C. Gardiner, owner.
39.90	Wash, 50 lks. wide, course W.
40.00	Road, brs. E and W.
	Road, brs. SE and NW.
	Set a tufa stone, 24 x 10 x 6 ins., 18 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face.
	Dig one pit 18 x 18 x 12 ins., N. of stone, 3ft. dist., and raise a mound of earth and stone, 3ft. base, $1\frac{1}{2}$ ft. high, W. of cor. We omit S. pit because of road.
40.85	Wire fence, brs. SE and NW. Cattle Co; owner. Enter pasture.
70.00	Wash, 50 lks. wide, course S. $20^{\circ}W$.
78.78	Wire fence brs. N $20^{\circ}E$ and S. $20^{\circ}W$. Leave pasture.
80.00	Set a tufa stone, 18 x 10 x 5 ins., 12 ins. in the ground, for cor. of secs. 5.6.7 and 8, marked with 5 notches on S and E. edges, and raise a mound of stone, 4ft. base, 2ft. high, W. of cor. Pits impracticable. Land, mountainous, level and rolling. Soil, 3rd and 4th rate. No timber. Very mountainous land, exceptionally difficult to survey, 25.00 chs.
40.00	S. $89^{\circ}58' E$. on a random line, bet. secs. 5 and 8.
80.06	Set temp. $\frac{1}{4}$ sec. cor. Intersect N and S. line, at cor. of secs. 4.5.8 and 9.
	Thence we run
	N. $89^{\circ}58' W$. on a true line, bet. secs. 5 and 8.
	Over mountainous land. Ascend.
7.00	Ridge, slopes N. descend.
29.00	Set a trachite stone, 20 x 10 x 6 ins., 15 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone 3ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
40.03	Wash, 50 lks. wide, course S. $20^{\circ}W$.
77.00	Leave pasture. Cattle Co; owner.
79.42	Wire fence brs. N $20^{\circ}E$ and S. $20^{\circ}W$.
79.42	The cor. of secs. 5.6.7 and 8.
80.06	Land, mountainous. Soil, 3rd rate. No timber. Mountainous land, 80.06 chs.

Chains.
 West on a true line, bet. secs. 6 and 7.
 Over rolling land.
 Ascend.
 5.00 Ridge, brs. NE and SW.
 Descend.
 22.50 Road, brs. N. and S.
 40.00 Set a sandstone, 20 x 10 x 8 ins., 15 ins. in the ground,
 for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a
 mound of stone, 3 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
 Pits impracticable.
 40.50 Road, brs. N. and S.
 64.00 Road, brs. SE and NW.
 92.87 Intersect W. bdy. of Tp., 9.28 chs. S. of the cor. of
 Secs. 1, 6, 7 and 12, which is a stone, firmly set,
 marked and witnessed, as described by the surveyor
 general.
 Set a tufa stone, 28 x 10 x 5 ins., 21 ins. in the
 ground, for closing cor. of secs. 6 and 7, marked C C
 on E; with 5 grooves on S. and 1 groove on N. face.
 Dig pits 24 x 18 x 12 ins., crosswise on each line,
 N. and S. 3 ft., and E. of stone, 7 ft. dist., and
 raise a mound of earth and stone, 4 ft. base, 2 ft.
 high, E. of cor.
 Land, rolling.
 Soil, 3rd rate.
 No timber.

 N. $0^{\circ} 2'$ W. bet. secs. 5 and 6, on a true line.
 Over rolling land.
 15.00 Ridge brs. NE and SW, descend.
 33.00 Wash 30 lks. wide, course SW. Ascend.
 40.00 Set a granite stone 20 x 10 x 6 ins., 15 ins. in the
 ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W face, and raise
 a mound of stone 3 ft. base 2 ft. high W. of cor.
 Pits impracticable.
 83.20 Intersect N. Bdy. of Tp., 127 lks. W. of the cor. of
 Secs. 5, 6, 31 and 32 mkd. & wit. as desc. by the S.G.
 We set a limestone 20 x 8 x 5 ins., 16 ins. in the
 ground for closing cor. of Secs. 5 and 6, marked C.C.
 on S. with 5 grooves on E. and 1 groove on W. faces,
 and raise a mound of stone 3 ft. base, 2 ft. high, S.
 of corner. Pits impracticable.
 Land rolling.
 Soil, 3rd rate.
 No timber.

October 6, 1908.

 Settlers on T. 22 S., R. 28 E.
 Stellard's House brs. N. 20° E. from $\frac{1}{4}$ cor. bet. secs.
 15 and 22, and N. $36\frac{1}{4}^{\circ}$ W. from the cor. of Secs.
 14, 15, 22 and 23.
 W.T. Benge's House brs. S. 44° W. from the cor. of Secs.
 9, 10, 15 and 16, and S. 25° E. from the $\frac{1}{4}$ cor. bet.
 Secs. 9 and 16.
 C. A. Gardiner's House brs. S. 25° E. 24 chs. from the
 $\frac{1}{4}$ cor. bet. Secs. 7 and 8.
 Buster Gardiner's House brs. N. $24\frac{1}{4}^{\circ}$ E. 21 chs. from
 the $\frac{1}{4}$ cor. bet. Secs. 23 & 26.
 J. J. Choat's House brs. S. 45° E. 18 chs. from the cor.
 of Secs. 23, 24, 25 and 26.
 Jewell's House brs. N. $48\frac{1}{4}^{\circ}$ E. 43 chs. from the Cor. of
 Secs. 25, 26, 35 and 36.
 Harvey Cryor's House brs. N. 64° W. 25 chs. from the cor.
 of Secs. 25, 26, 35 and 36.
 Buck Porter's House brs. N. 45° W. 33 chs. from the cor.
 of Secs. 25, 26, 35 and 36.
 Richard Calvin's House brs. S. 74° W. 10 chs. from the $\frac{1}{4}$
 Cor. bet. Secs. 35 and 36.
 L. M. McDonald's House brs. S. 46° E. 11 chs. from the
 cor. of Secs. 25, 26, 35 and 36.

General Description.

This Township is mostly level and rolling land, Secs. 7, 15, 16, 17, 23, 24, 25, 26, 35 and part of 36 contains level and fertile land, which grows a fair crop of native hay, which is cut by the settlers. The soil of the remaining portion of the township is mountainous and hilly, although it has a fair growth of grass.

There is one tufa stone quarry, patented, on secs. 25 and 36, upon which there were about 15 men engaged in taking out tufa rock for shipment to the smelters at Douglas. There are a number of other tufa quarries opened up on the township.

Abundant water is obtained from wells at a depth of from 30 to 50 ft.

Mud Springs is on Sec. 16.

The El Paso and Southwestern Railroad runs through Secs. 25 and 36.

There are a few oak trees scattered over the mountainous portion of the township.

There is one settler each on Secs. 8, 15, 16, 23, 35 and 36, and two each on Secs. 25 and 26.

A cattle Co., the name of which we were unable to learn has a portion of Secs. 4, 5, 7, 8, 9, 16 and 17 under fence. **Note:** Markings on original cors. along the E & W bdrs. were changed to refer to the proper secs. when necessary.

Francis R. Jacobs
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 Jacobs Hurry
....., 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 the
.....

Subdivisions of J. 22. S. R. 28. E.

showing the respective capacities in which they acted:

Jim A. Kellis....., Chainman.

Narvey H. Case....., Chainman.

Thomas Jacobs....., Moundman.

Fred C. Roberts....., Moundman.

....., Axman.

....., Axman.

....., Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Jacobs Hurry
....., United States Deputy Surveyor, in surveying all

those parts or portions of the Subdivisions of J 22 S R 28 E,
.....

..... of the Salt and

Salt River Basins 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

Jim A. Kellis....., Chainman.

Narvey H. Case....., Chainman.

Thomas Jacobs....., Moundman.

Fred C. Roberts....., Moundman.

....., Axman.

....., Axman.

....., Flagman.

Subscribed and sworn to before me this 6

day of October, 1908

Francis Jacobs
Notary Public



FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Francis B Jacobs United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Frank E Ingalls United States Surveyor General for Arizona, bearing date of the 20 day of March, 1908, 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 Township 2 N. South Range 2 E. East

of the Sils and Salt River Base and 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.

Francis B Jacobs
United States Deputy Surveyor.

Subscribed by said Francis B Jacobs, and sworn to before me }
this 28th day of July, 1900

~~My commission expires February 15, 1912.~~
SEAL

H. S. L. Couple
Notary Public

APPROVAL.

Frank Ingalls
U. S. SURVEYOR GENERAL & D. A.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix Ariz Nov. 7 - 1900-1910.

The foregoing field notes of the survey of the subdivision lines of Twp. 24 N. R. 28 E. of the Sils and Salt River Base and Meridian, Arizona

executed by Francis B Jacobs and David J Curry under his contract No. 148, dated March 20, 1908, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Frank 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.