

"A"
(2)

NORTH and WEST BOUNDARIES.

of

Ts. 29, N., Rs. 1, 2, 3 and 4, W.

by

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1692

BOOK 1692

4-671

FIELD NOTES

GENERAL LAND OFFICE.

1692

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BOOK 1692

1692

61.

North boundary of T. 29 N. R. 2 W.

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- 73.25 Ravine 75 ft. deep, course S.
75.00 Top of E. side of Ravine 30 ft. high bears N. 85
80.00 Set a limestone 16x8x6 ins., 5 ins.
in the ground (cannot set deeper)
and in mound of stone 10 ins. high,
for cor. of secs. 1, 2, 35 & 36,
marked with 5 notches on W.
and 1 notch on E. edges; and raise
a mound of stone 2 ft. base, 1 1/2 ft.
high W. of cor. Pits impracticable.
Land, mountainous
Soil, stony, 4th Rate.
Timber, scattering scrubby cedar.
Mountainous land covered with
dense buck & chic, undergrowth 80000 lbs.

N. 89° 57' E.

bet. secs. 1 & 36.

Over mountainous land, covered

62.
North boundary of T. 29 N. R. 2 W.

- | | | |
|-------|------|---|
| BOOK | 1692 | with dense brush and chis brush |
| 26.00 | | Second bears N. 75. |
| 40.00 | | Set a limestone 30x10x7 ins. 12 ins. in the ground (cannot set deeper) and in mound of stone 12 ins. high, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. $\frac{1}{4}$ E 1 on S. face; and raise a mound of stone 2 ft. base 1 $\frac{1}{2}$ ft. high N. of cor. Pit impracticable. |
| | | Sept. 1; at this cor. I set off $8^{\circ}15\frac{1}{2}'$ N. on the decl. arc, and at 12; M. l. m. t. Observe the sun on the meridian; the resulting lat. is $35^{\circ}54'37''$ N. ^{$35^{\circ}54'37''$} which is correct. |
| 46.00 | | Ravine 60 ft. below top course S. 20° W. ascend |
| 58.00 | | Drain, cross S. |
| 80.00 | | Top of soft. ascent bears |

43.

North boundary of T. 29 N. R. 2 W.

BOOK 1692

N. E. & S. W. to S.

The cor. of Tps. 29 & 30 N. R. 1 & 2
W.

Land, Mountainous.

Soil, stony & gravelly, 4th Rate.

No timber except a few scattering
scrubby cedars.

Mountainous land covered with
dense buck E. of this, undergrowth 30-50 lbs.

Sept. 1, 1900.

North boundary of T. 29 N. R. 2 W

BOOK 1692

Boundaries of T. 29 N. R. 2 W.

Latitudes, Departures & Closing errors.

Line designated	True Bearing	Distance chs.	Latitude		Departure	
			N.	S.	E.	W.
7 th Standard Parallel	N West	480.00				480.00
W. Bdy. T. 29 N. R. 2 W.	North	480.00	480.00			
N. Bdy. T. 29 N. R. 2 W.	N. 89° 57' E.	479.33	.42		479.33	
E. Bdy. T. 29 N. R. 2 W.	South	480.00		480.00		
Convergency						.52
Totals			480.42	480.00	479.85	480.00
			480.00			479.85
Error in Lat.			0.42	Error in Dep.		0.15

North boundary of T. 29 N. R. 2 W.

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The land in this township is rolling in the western and central parts, and extremely rough and mountainous in the eastern and northern parts where Cataract Canyon with numerous side canyons, breaks through at a depth of 500 ft. at the southeast corner, and gradually deepens to a depth of 1500 ft. where it leaves the township on the North boundary. There is no water in the township.

West boundary of T. 29 N. R. 3 W.

BOOK

1692

Sept. 3rd. 1900; At the Standard
Cor. of Tps. 29 N. R. 3 & 4 W. which
is a limestone 8x6x16 ins. above
ground, firmly set marked and
witnesses as described by
the surveyor general, I set
off $7^{\circ}36' N.$ on the decl. arc;
 ^{$35^{\circ}49'23''$}
 $35^{\circ}49'23''$ on the lat. arc; and at
 $8^h 08^m A.M.$ local, determined
a true meridian with the
solar!

The magnetic bearing of the
true meridian is $N. 14^{\circ}23' W.$

the angle thus determined reduced
by the table page 100 of the Manual
gives the mean mag. decl. $14^{\circ}21' E.$
From the standard corner already
described, I run by double fore
and back sights without farther

West boundary of T. 29 N. R. 3 W.

BOOK 1692

use of the solar.

North

bet. sec. 31 ^E & 36

Over Rolling land through
dense Chicx undergrowth.

0.35 Road bears E. & N.

30.00 Low Ridge bears E. & W.

40.00 Set a limestone 16x10x4 ins., 10
ins. in the ground for $\frac{1}{4}$ sec. cor.
marked $\frac{3}{4}$ on W. ^E of 31 on face;
dig pits 18x18x12 ins. N. & S. of
stone 3ft. dist; and raise a
mound of earth $3\frac{1}{2}$ ft. base, 1 1/2 ft.
high W. of cor.

80.00 Set a limestone 16x10x5 ins., 11 ins.
in the ground for cor. of sec. 25,
30, 31 & 36, marked with 1 notch
on S. and 5 notches on N. edges; dig
pits 18x18x12 ins. in each sec.

West boundary of T.29N.R.3W.

BOOK 1692

5 1/2 ft. diet; and raise a mound of
 earth 4 ft. base, 2 ft. high ^{W. of cor.}
 Land, Rolling.
 Soil, sandy, 2nd Rate.
 No timber.
 Land covered with dense undergrowth
 80.00 chs

North

bet. sec. 25 & 30.

Over Rolling land covered with
dense chios undergrowth.

- 7.00 Ascend gentle S. slope.
- 31.00 Low Ridge bears E. & W.
- 40.00 Set a limestone 18x10x4 ins, 12
 ins. in the ground for 1/4 sec. cor.
 marked $\frac{3}{4}$ on W. $\frac{1}{4}$ of 30 on E. faces;
 dig pits 18x18x12 ins, N. & S. of stone
 3 ft. diet; and raise a mound of

West boundary of T. 29 N. R. 3 W.

69.

BOOK 1692

earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.

- 47.00 Descend gently N. slope,
53.00 Foot descent of 20 ft. bears E. & W. thence
across E. end of flat bottom having outlet.
62.50 Leave bottom and ascend gradually
bears N.W. & S.E.
8000 Set a limestone $16 \times 16 \times 4$ ins., 11 ins.
in the ground for cor. of secs. 19, 24,
25, & 30, marked with 2 notches
on S. and 4 notches on N. edges; dig
pits $18 \times 18 \times 12$ ins., in each sec.,
 $5\frac{1}{2}$ ft. dist.; and raise a mound
of earth 4 ft. base, 2 ft. high W.
of cor.
Land Rolling.
Soil, sandy, 3rd Rate.
No timber.
Land covered with dense
undergrowth 8000 chs.

West boundary of T. 29 N. R. 3 W.

BOOK 1692 North

bet. sec. 19 ^E of 24

Over Rolling land covered with dense chie's undergrowth, gradually ascending S. slope.

40.00

Set a limestone 15 X 10 X 5 ins., 10 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. ^E of 19 on E. face; dig pits 18 X 18 X 12 ins. N. & S. of stone 3 ft. dist.; and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.

52.10

Road, bears N. 30° W. & S. 30° E.

54.00

Ridge 100 ft. above bottom, bears N. & S. E.

80.00

Set a limestone 14 X 8 X 6 ins., 10 ins. in the ground for cor. of sec. 13, 18, 19 & 24, marked with 3 molts on N. & S. edges; dig pits 18 X 18 X 12 ins. in each sec., $5\frac{1}{2}$ ft. dist.; and raise

West boundary of T. 29 N. R. 31 W.

BOOK 1692

a mound of earth 4 ft. base, 2 ft.
high w. of cor.

Land, Rolling.

Soil, sandy & gravelly, 3rd & 4th Rate.
No timber.

Land covered with dense chie
undergrowth 50,000 sh.

North

bet. sec. 13^E & 18.

Over Rolling land covered with
dense chie undergrowth.

- 3.00 Descend gentle N. Slope
- 12.00 Old Lake bed 40 ft. below top.
bears E. & W. Covers about 4 acres.
- 14.00 Ascend gentle S. Slope
- 32.00 Ridge 30 ft high bears E. & W. descend
- 40.00 Set a limestone 16 X 10 X 4 ins, 10 ins
in the ground for $\frac{1}{4}$ sec, cor, marked

West boundary of T. 29N. R. 3W.

BOOK 1692

$\frac{2}{7}$ on W. E of 18 on E. faces; dig pits
 18 x 18 x 12 ins. N. & S. of stone 3 ft.
 dist.; and raise a mound of earth
 3½ ft. base, 1½ ft. high W. of cor.

60.00 Ascend gentle S. slope

80.00 Set a limestone 18 x 14 x 4 ins., 12
 ins. in the ground for cor. of secs.
 7, 12, 13, & 18, marked with 4 notches
 on S. and 2 notches on N. edges; dig
 pits 18 x 18 x 12 ins., in each sec. 5½ ft.
 dist.; and raise a mound of
 earth 4 ft. base, 2 ft. high W. of cor.

Land Rolling.

Soil, sandy & stony, 3rd Rate.

No timber.

Land covered with dense
 Ohio undergrowth 80.00 chs.

West boundary of T. 29 N. R. 3 W

North

BOOK 1692

bet. sec. 7th & 12

Over Rolling land covered
with dense chioscunder growth.

10,000 Low Ridge bears NW. & S.E.

4000 Set a limestone 16x12x4 ins., 10
ins. in the ground for cor. con.
marked $\frac{1}{4}$ on W. $\frac{1}{2}$ on E. face;
dig pits 18x18x12 ins. N. & S. of stone
3 ft. dist.; and raise a mound of
earth 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high W. of cor.
Descend from cor. on gentle slope to NW.

8000 Set a limestone 16x12x4 ins., 11 ins.
in the ground for cor. of sec. 16, 7 &
12, marked with 5 notches on S.
and 1 notch on N. edges; dig pits
18x18x12 ins. in each sec., 5 $\frac{1}{2}$ ft.
dist.; and raise a mound of earth
4 ft. base, 2 ft. high W. of cor.

West boundary of T. 29 N. R. 3 W.

BOOK

1692

Land, Rolling

Soil sandy & stony 2nd Rate

No timber.

Land covered with dense

chic seedergrowth 80.00 chs.

North

bet. secs. 1 & 6.

Over Rolling land covered with dense chic seedergrowth.

480 Train, course N. 80° E, ascend gentle S. slope

3000 Top ascent of 40 ft. bears E. & W.

4000 Set a limestone 16 X 10 X 4 ins, 10 ins

in the ground for $\frac{1}{4}$ sec. cor., marked

$\frac{3}{4}$ on W. E of 6 on E. faces; dig pits

18 X 18 X 12 ins. N. & S. of stone 3 ft

dist.; on face a mound of earth

3 1/2 ft. base 1 1/2 ft. high W. of cor.

West boundary of T. 29 N. R. 3 W.

BOOK 1692

58.00 Drain, course N.W. Descend
Rocky slope bears N.E. + S.W.

77.00 Ravine at foot 90 ft. descent, course
N.E.

77.20 Road. bears N.E. + S.W.

80.00 Set a limestone 24 x 10 x 6 ins.,
in a mound of stone 20 ins. high,
(cannot set in ground on account of
bed rock 2 ins. below surface) for cor,
of Tps. 29 & 30 N., Rs 3 & 4 W, marked

T. 30 N. on N.E.

R. 3 W. on S.E.

T. 29 N. on S.W.

R. 4 W. on N.W. face, with
6 notches on each edge; and
raise a mound of stone 3 ft.
base, 2 1/2 ft. high S. of cor.

Pits impracticable.

Land, Rolling and Mountainous

West boundary of T. 29 N. R. 3 W.

BOOK

1692

Soil, sandy & stony 3rd & 4th Rets.

No timber.

Mountainous land or land

covered with dense chie's

undergrowth, 80,000 lbs.

Note, - The temp. T_p. Cor. used by
 Deputy J. C. Dobbin bears S. 20° W.
 3 lks. dist, and is therefore
 practically identical with the
 cor. as now established.

Sept. 3, 1900.

North boundary of T. 29 N. R. 3 W.

77.

BOOK 1692

Sept. 4; 1900; At the cor. of Tps.
29 & 30 N., Rs 2 & 3 W., which I
established Aug. 29, 1900, I set
off $7^{\circ}14'$ N. on its decl. arc, ^{35°}
 $54'37''$ on the lat. arc, and at
 7^h43^m a. m., ~~the~~ ~~line~~
a true meridian with the
solar.

Then I run

West

on a random line along the
N. Bdy. of the Tps., setting temp. $\frac{1}{4}$
sec. and sec. corr., at intervals
of 4000 ch.; and at 479.26 ch.
intersect the cor. of Tps. 29 & 30
N. R. 3 & 4 W., which I established
Sept. 3rd.

Therefore I run

East

North boundary of T. 29N. R. 3W

BOOK

1692

bet. sec. 6 ^E of 31.

- Over mountainous land covered with dense chie's undergrowth.
- 2.10 Road bears N.E. & S.W.
- 2.50 Ravine course N.E. ascend.
- 16.00 Ridge 50ft. high bears N.E. & S.W.
- 26.00 Ravine 30ft. deep. course N.E.
- 38.00 Top ascent of 60ft. bears N. & S.
- 39.26 Set a limestone 16x10x4 ins., 10 ins. in in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N.E. & S. faces; and raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor. Pit impracticable.
- 45.10 descent, bears N. & S.
- 67.00 Foot descent of 100ft. bears N. & S.
- 76.75 Rocky Ridge 40ft. high bears N. & S.
- 79.26 Set a limestone 18x8x6 ins., 12 ins. in the ground for cor. of sec. 5, 6, 31 & 32; marked with 1 north

North boundary of T. 29 N. R. 3 W ^{79.}

BOOK 1692

on W. and 5 notches on E. edges; and
raise a mound of stone 2 ft. base
 $1\frac{1}{2}$ ft. high, W. of cor. It is impracticable.
Land, mountainous & rolling
Soil, sandy & stony, 3^d & 4th Rate.
No timber.

*
79.76
Mountainous land or land
covered with dense chie
undergrowth *
Var. 13° 55'

East

bet. secs 5 & 32,

Over mountainous land covered
with dense chie undergrowth.
Descend from cor.

- 4.85 Ravine 50 ft. deep, course N. & S.
10.35 Ridge 50 ft. high, bears N. & S.
Descend over slope facing S. 20° E.
38.00 Descend slope facing E.

North boundary of T. 29 N. R. 3 W.

BOOK
40.00

1692

Set a limestone 16 X 12 X 5 ins.

10 ins. in the ground for $\frac{1}{4}$ sec.Cor. marked $\frac{1}{4}$ on N. 5 on S. face;~~and~~ mound of stone 2 ft.base, $1\frac{1}{2}$ ft. high N. of cor.

Pits impracticable.

60.00

Foot descent of 80 ft.; leave Pits.

land, thence across wide flat

bottom course N. 60° E.

80.00

Set a limestone 24 X 18 X 4 ins.,

18 ins. in the ground for cor. of

secs. 4, 5, 32, & 33, marked with

2 notches on W. and 4 notches on E.

edges; dig pit 18 X 18 X 12 ins. in

each sec. $5\frac{1}{2}$ ft. dist., and raise

mound of earth 4 ft. base, 2 ft.

high W. of cor.

Land rolling \searrow mountains,

Soil, sandy & stony, 3 d. & 2 ft. Pits.

North boundary of T. 29 N. R. 3 W.

BOOK 1692

No timber,

Mountainous land covered with dense undergrowth.

East

bet. sec. 4 E of 33.

Over level bottom land covered with dense chic undergrowth.

28.40 Leave bottom course N. and ascend rocky slope covered with scattering scrubby cedars

35.00 Road, bears N. 20° E. 45.20 m. Leave scattering cedars.

40.00 Sit a limestone 24 x 7 x 6 ins. 18 ins. in the ground for 1/2 sec. cor. marked 7/7 on N. E of 4 on S. face; dig pits 18 x 18 x 12 ins. E. & W. of stone 3 ft. dia; and raise mound of earth 3 1/2 ft. base, 1 1/2 ft. high

North boundary of T. 29 N. R. 3 W.

BOOK 1692

N. of cor.

- 51.90 Top of ascent of 100 ft. bears N. 78.
 60.00 Descend gentle E. slope.
 76.00 Edge of flat bottom course N.
 80.00 Set a limestone 18 X 12 X 12 ins.,
 12 ins. in the ground for cor. of sec.
 3, 4, 33 & 34, marked with 3 notches
 on E. & W. edges; 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 Rolling and Mountainous.

Soil, sandy & stony + the Rocks.

Scattering cedar timber.

Mountainous local or land

Covered with dense undergrowth 80000 lbs.

Sept. 4, at this cor. I set off

7° 03 1/2' N. on the decl. arc, and at

11h 59^m A. M., but, observe the

North boundary of T. 29 N. R. 3 W.

BOOK 1692

sun on the meridian; etc
 $35^{\circ} 54' 37''$
 resulting lat. is $35^{\circ} 54' 37''$ N.
 which is correct.

East

bet. secs. 3 and 34.

Over level bottom land covered
 with dense chic undergrowth

- 4.00 Leave bottom, and ascend
 gradual slope bears N. 45.
- 15.00 Low Ridge bears N. 45.
- 46.00 Set a limestone $16 \times 10 \times 6$ ins., 10
 ins. in the ground for $\frac{1}{4}$ sec. cor.
 marked $\frac{3}{4}$ on N. $\frac{1}{2}$ on S. faces; dig
 pits $18 \times 18 \times 10$ 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.
- 40.90 Road, bears N. 20° E. vs. 20° W.
- 48.50 Ascend gentle W. slope

62.00 Ridge 30ft. above $\frac{1}{4}$ cor. bears N. & S.

8000 Set a limestone 24x10x6 ins, 18
ins. in the ground for cor. of secs.
2, 3, 34 & 35, marked with 4
notches on W. and 2 notches on E.
edges; dig pits 18x18x12 ins, in
each sec. 5 $\frac{1}{2}$ ft. dist; and raise a
mound of earth 4 ft. base, 2 ft.
high, W. of cor.

Land, Rolling & level.

Soil sandy & stony 3rd Rate.

No timber.

Land covered with dense
chic undergrowth 8000 chs.

East

bet. secs. 2 ^{and} 35.

Over Rolling land covered with
dense chic undergrowth.

North boundary of T. 29 N. R. 3 W.

- 40.00 Set a limestone 15 X 10 X 8 ins.,
10 ins. in the ground for $\frac{1}{4}$ sec.
cor. marked $\frac{1}{4}$ on N. & 2 on E. face;
dig pits 18 X 18 X 12 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.
- 60.00 Second gradual E. slope.
- 80.00 Set a limestone 16 X 12 X 5 ins., 11
ins. in the ground for cor. of sec.
1, 2, 35, & 36, marked with 5
notches on W. and 1 notch on E.
edges; and raise a mound of
stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
Pits impracticable.
Land level and rolling.
Soil sandy & stony, 3rd & 4th Rate.
No timber.
Land covered with dense chis
undergrowth 8000 chs.

North boundary of T. 29 N. R. 3 W.

East

bet. sec. 1 ^E of 36.

- Over Rolling land covered with dense thick undergrowth
- 15.00 Low Ridge bears N. + S. Sec. 1 gradually.
- 40.00 Set a limestone 20x10x5 ins, 15 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. ^E of 1 on S. face; dig pits 18x18x12 ins, E. + W. of stone 3 ft. dist.; and raise a mound of earth 3 $\frac{1}{2}$ ft. base, $\frac{1}{2}$ ft. high N. of cor.
- 62.60 Descend limestone ledge 4 ft. high, bears N. + S. Enter scattering cedar timber
- 78.00 Ravine 40 ft. deep course N. + S. ascend
- 80.00 About 30 ft. above Ravine, The cor. of Tps. 29 + 30 N. R. 2 + 3 W. Land. Rolling and mountainous.

North boundary of T. 29 N. R. 3 W.

Soil, sandy & stony 3rd & 4th Rate.
 Timber, scattering mostly cedar,
 Mountainous land or steep
 covered with dense under-
 growth 80.00 ch.

Sept. 4, 1900.

Boundaries of T. 29 N. R. 3 W.

Latitudes, Departures, & Closing Errors.

Line Designated	True bearing	Distance	Latitude		Departure	
			N.	S.	E.	W.
7 th Standard Parallel N. West		480.00				480.00
W. Bay. T. 29 N. R. 3 W.	North	480.00	480.00			
N. Bay. T. 29 N. R. 3 W.	East	479.26			479.26	
E. Bay. T. 29 N. R. 3 W.	South	480.00		480.00		
Convergency					.52	
Totals			480.00	480.00	479.78	480.00 479.78
Error in Lat., nothing.				Error in Dep.	.22	

North boundary of T. 27 N. R. 3 W.

The land in this township is hilly and rolling with some mountainous land in the N. W. part. There is but little timber and that is an inferior scrubby cedar. The entire township is covered with a dense growth of Chic brush. There is no water in the township at any season of the year. The soil is generally stony and worthless. There is but little grass owing to the arid climate.

Sept. 4, 1900.

West boundary of T. 29N. R. 4W.

Sept. 4, 1900: at the standard
 cor. of Tps. 29N. Rs 4 & 5 W., which
 is a limestone 12x12x8 ins. above
 ground firmly set, marked and
 witnessed as described by the
 surveyor general, I observed
 Polaris at eastern elongation
 at 8^h 31^m P. M., true, and mark
 a point in the line thus deter-
 mined by a tack on a plug set
 firmly in the ground 500 ch
 N. of the cor.

Sept. 4, 1900.

Sept. 5th; at 8^h A. M. I lay off
 the azimuth of Polaris 130.7
 to the west and mark the true
 meridian thus determined by
 a tack on plug set firmly in the

ground 5.00 ch. N. of the cor.
The magnetic bearing of the
true meridian is $N. 15^{\circ} 11' W.$
which reduced by the table page
100 of the manual gives the mean
mag. decl. $15^{\circ} 08' E.$

From the standard cone already
described, I run by double
fore and back sights from the
Polaris meridian without
the use of the solar.

North,

bet. secs. 31 & 36.

Over Rolling land covered with
dense chis undergrowth.

- 7.00 Ridge 15 ft. high bears $E. 40^{\circ} W.$
9.00 Drain, course $E.$
12.00 Ridge 10 ft. high bears $N. W. 75^{\circ} E.$
29.00 Drain, 20 ft. below Ridge, course $S. E.$

West boundary of T. 29 N. R. 4 W.

- 40.00 Set a limestone $14 \times 14 \times 6$ ins.
10 ins. in the ground for $\frac{1}{2}$ sec. cor.
marked $\frac{1}{4}$ on W. E of 31 on E. face;
dig pits $18 \times 18 \times 12$ ins. N. & S. of stone
3 ft. dist.; and raise a mound
of earth $8\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high
W. of cor.
- 47.00 Ridge, 30 ft. high bears E. & W.
- 50.00 Drain, course, S.W. ascent.
- 55.00 Enter scattering scrubby cedars.
- 71.00 Ridge 40 ft. high bears E. & W.
Leaves scattering cedars.
- 80.00 Set a limestone $14 \times 10 \times 6$ ins., 10
ins. in the ground for cor. of sec.
25, 30, 31, & 36, marked with
1 notch on S. and 5 notches on E. edges;
dig pits $18 \times 18 \times 12$ ins. in each sec.,
 $5\frac{1}{2}$ ft. dist.; and raise a mound of
earth 4 ft. base, 2 ft. high, W. of cor.

West boundary of T. 29 N. R. 4 W.

Land, Rolling ^E Mountains

25.00 chs.

Soil, sandy & stony, 3rd & 4th R.

Timber, scattering cedar,

Land covered with dense undergrowth

80.00 chs.

North

bet. sec. 25 ^E 30

Over Rolling land covered with
dense chic undergrowth.

10.00 Drain, course S.W.

26.00 Ridge soft high beam N.W. & S.E.

70.00 **Set** a limestone 14 x 8 x 6 ins., 10 ins.
in the ground for $\frac{1}{4}$ sec. cor., marked
 $\frac{1}{4}$ on N. ^E 30 on E. face; dig pit 18 x 18 x
12 ins., N.W. of stone 8 ft. dist.; and
make a mound of earth $3\frac{1}{2}$ ft. base,
 $1\frac{1}{2}$ ft. high, W. of cor.

West boundary of T. 29 N. R. 4 W.

8000 Set a limestone $14 \times 10 \times 4$ ins.
 10 ins. in the ground for cor. of
 sec. 19, 24, 26, & 30, marked
 with 2 notches on S. side & 1 notch
 on N. edge; and raise a mound of
 stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
 Pit impracticable.

Land Rolling.

Soil, sandy & stony. 3rd Rate.

No timber.

Land covered with dense undergrowth
 8000 chs.

North

bet. sec. 19 & 24.

Over Rolling land covered with
 dense ch'd undergrowth.

16.00 Drain, course, N.E.

23.00 Low Ridge, bears E. & W.

West boundary of T. 29 N. R. 4 W.

40.00 Set a limestone $14 \times 8 \times 5$ ins., 10 ins.
in the ground for $\frac{1}{4}$ sec. cor.,
marked $\frac{1}{4}$ on W. Ed 19 on E. face; dig
pits $18 \times 18 \times 12$ ins., N. & S. of stone
3 ft. dist.; and raise a mound of
earth $5\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high W. of cor.

80.00 Set a limestone $14 \times 8 \times 6$ ins., 10 ins.
in the ground for cor. of sec. 13, 18,
19 & 24, marked with 3 notches
on N. & S. edges; dig pits $18 \times 18 \times 12$ ins.
in each sec. $5\frac{1}{2}$ ft. dist.; and raise
a mound of earth 4 ft. base, 2 ft.
high W. of cor.

Land, Rolling.

Soil, sandy & stony 3rd Rate.

No timber.

Land, covered with dense hick
undergrowth 8000 chs.

West boundary of T. 29 N. R. 5 W.

North

bet. sec. 13 & 15

Over Rolling land covered with
dense chis undergrowth.

17.00 Ridge, bears E. & W.

33.50 Road from Beligman to Supai
Indian Village, bears N. 10° E. & S. 10° W.41.00 Set a limestone 16 x 8 x 5 ins., 10 ins.
in the ground for $\frac{1}{4}$ sec. cor., marked
 $\frac{7}{4}$ on W. $\frac{E}{S}$ of 18 on E. face; dig pits,
18 x 18 x 12 ins., N. & S. of stone 3 ft. dist.;
and raise a mound of earth $\frac{3}{4}$ ft. base,
1 $\frac{1}{2}$ ft. high W. of cor.60.00 Train, course N. E. Descend over
mountainous land through scattering
cedar timber, bears N. W. & S. E.80.00 Set a limestone 18 x 10 x 8 ins., 12 ins.
in the ground for cor. of sec., $\frac{7}{2}$, 13,
& 15, marked with 4 moleke on S.

West boundary of T. 29 N. R. 4 W.

and 2 notches on N. edge; and
raise a mound of stone 2 ft
base $1\frac{1}{2}$ ft. high, W. of cor.

Pits impracticable.

Land Rolling & Mountains
2000 chs.

Soil, sandy & stony 3000 chs.

Timber, scattering scrubby cedar.

Land covered with dense
undergrowth 8000 chs.

North

between 7th & 12th.

Over Mountains land covered
with dense chin brush and
scattering scrubby cedar timber.

See and Rocky slope from cor.

1.00

Foot descent of 20 ft. below cor. and
80 ft. below top, bear N.W. or S.E.

West boundary of T. 29 N. R. 4 W.

- Thence across level bottom course S.E.
- 14.00 Leave scattering cedars, *N.W. 1/4 S.E.*
- 40.00 Set a limestone 16x12x4 ins., 10 ins.
in the ground for $\frac{1}{4}$ sec. cor., marked
 $\frac{1}{4}$ on W. & 7 on E. faces; dig pits
18x18x12 ins., N. 45. of stone 8 ft. dist.;
and raise mound of earth $3\frac{1}{2}$ ft.
base, $1\frac{1}{2}$ ft. high W. of cor.
- 50.00 Leave bottom and ascend rocky
slope bears *N.W. 1/4 S.E.*
- 61.60 Head of Ravine, course S.W.
- 70.00 Ridge 100 ft. high, bears E. & W.
- 80.00 Set a limestone 15x10x8 ins., 10 ins.
in the ground for cor. of secs. 1, 6, 7,
& 12, marked with 5 notches on S
and 1 notch on N. edge; dig pits
18x18x12 ins., in each sec., $5\frac{1}{2}$ ft.
dist.; and raise mound of earth
4 ft. base, 2 ft. high W. of cor.

West boundary of T. 29 N. R. 4 W.

Land, Rolling level & Mountainous 21,000 acs.

Soil, sandy & stony 2d & 4th Rate.

Timber, scattering cedar.

Land covered with dense chieo undergrowth 80,000 acs.

North

bet. sec. 1 & 6.

Over Rolling Land covered with dense chieo undergrowth

15.00 Ridge bears E. & W.

4000 Set a limestone 14 x 8 x 5 in., 10 in. in the ground for 4 sec. cor. marked $\frac{1}{4}$ on W. & 6 on E. edge; dig pits 18 x 18 x 12 in. N. & S. of stone, 3 ft. dist., and raise a mound of earth 3 $\frac{1}{2}$ ft. low, 1 $\frac{1}{2}$ ft. high, W. of cor.

West boundary of T. 29 N. R. 4 W.

8000 Set a limestone 20x16x12 ins,
15 ins. in the ground for cor.
of Tps. 29 & 30 N. R. 4 & 5 W.
marked

T. 30 N. on N.E.

R. 4 W. on S.E.

T. 29 N. on S.W.

R. 5 W. on N.W. faces; with
6 notches on each edge; dig
pits 24x24x12 ins.; on each
line, N.E. & W. 4 ft. and S. of stone
8 ft. dist.; and raise a mound
of earth 5 ft. base, 2½ ft. high
S. of cor.

Land, rolling.

Soil, sandy, 3rd Rate.

No timber.

Land, covered with dense undergrowth

8000 chs.

Sept. 5, 1900.

North boundary of T. 29 N. R. 4 W.

Sept. 6; At the cor. of Tps. 29 & 30
N. R. 3 & 4, W. which I established,

Sept. 3, 1910, I set off $6^{\circ} 30' N.$
on the decl. arc; $35^{\circ} 54' 37'' N$
the lat. arc; and at 7^h 32^m

A.M., ~~last~~, determine a true
meridian with the solar

Therefore I run

West,

on a random line along
the N. Bdy. of the Tps. setting
temp. $\frac{7}{4}$ sec. and sec. cor., at
intervals of 4000 chs.; and at
479.39 chs. intersect the cor. of
Tps. 29 & 30 N. R. 4 & 5 W. which
I established Sept. 6, 1900.

Therefore I run

East.

bet. cor. 6 & 31.

North boundary of T. 29 N. R. 4 W.

Over Rolling land covered
with dense chic undergrowth.

36.40 Road, from Seligman to Supai
Indian Village bears N. 10° E. 76 S. 10° W.

39.39 Set a limestone 12 X 7 X 6 ins., 8 ins.
in the ground for 4 sec. cor., marked
 $\frac{3}{4}$ on N. & E. on S. face; dig pits
18 X 18 X 12 ins., 6 X W. of stone off. dist.,
and raise a mound of earth 3½ ft.
base, 1½ ft. high, N. of cor.

70.00 Edge of wide flat bottom, course S.

79.39 Set a limestone 16 X 6 X 6 ins., 11 ins.
in the ground for cor. of sec. 56,
31, & 32, marked with 1 notch on W.
and 5 notches on E. edges; dig pits
18 X 18 X 12 ins., in each sec., 5½ ft. dist.,
and raise a mound of earth 4 ft. base,
2 ft. high, W. of cor.
Land, Rolling & Level.

North boundary of T. 29 N. R. 4 W

BOOK 1692

Soil, sandy, 3rd Rate.

Not timber.

Land covered with dense undergrowth, 79.39 acs.

East

bet. Secs. 5 & 32

Over level land covered with dense chieo undergrowth.

4.00 Leave bottom & ascend gradually.

36.00 Ridge, bears N. & S.

40.00 Set a limestone 14x12x4 ins, 10 ins. in the ground for 1/4 sec. cor. marked $\frac{2}{4}$ on N. and 5 on S. face; dig pits 18x18x12 ins, E. & W. of stone 3ft. dist.; and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high N. of cor.

68.00 Low Ridge bears N. & S.

North boundary of T. 29 N. R. 4 W.

BOOK 1692

73.00 - Locus, course S. E.

80.00 Set a limestone $16 \times 8 \times 6$ ins., $1/4$ in.
in the ground for cor. of secs.
45, 32, & 33, marked each 2 notches
on W. and 4 notches on E. edges; dig
pits $18 \times 18 \times 12$ ins. in each sec.,
 $3\frac{1}{2}$ ft. dist.; and raise a mound
of earth 4 ft. base, 2 ft. high
N. of cor.

Land Rolling.

Soil, stony & sandy, 3rd Rate.

No timber.

Land covered with dense
undergrowth 8,000 chs.

East

betw. secs. 4 & 33.

Over Rolling land, covered
with dense chics undergrowth

North boundary of T. 29 N. R. 4 W.

- | BOOK | 1692 |
|-------|---|
| 4.00 | S. side of Spur extends N. |
| 36.00 | Ridge, bears N. 45. |
| 40.00 | Set a limestone $14 \times 12 \times 4$ ins.
10 ins. in the ground for $\frac{1}{4}$ sec. cor.,
marked $\frac{7}{4}$ on N. & $\frac{4}{4}$ on S. faces;
dig pits $18 \times 18 \times 12$ 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. |
| 45.00 | Ridge, bears N. $\frac{2}{3}$ S. |
| 75.00 | Drain, source N. E. 40 ft. below ridge. |
| 80.00 | Set a limestone $16 \times 8 \times 6$ ins.,
11 ins. in the ground for cor. of
secs. 3, 4, 33 & 34, marked with
3 notches on E. & W. edges; dig
pits $18 \times 18 \times 12$ ins. in each sec.,
$5\frac{1}{2}$ ft. dist.; and raise a mound
of earth 4 ft. base; 2 ft. high
W. of cor. |

North boundary of T. 29N. R. 4W.

Land, Rolling, BOOK 1692

Soil, sandy & stony, 3rd & 4th Rate.

No timber.

Land covered with dense chick
undergrowth, 80,000 chs.

East

bet. sec. 3 & 34.

Over Rolling land, covered
with dense chick, undergrowth,

14.00 Low Ridge bears N. 75,

40.00 Set a limestone 14 X 12 X 4 ins.,
10 ins. in the ground for 1/4 sec. con.,
marked $\frac{7}{4}$ on N. E of 3 on S. face;
dig pits 18 X 18 X 12 ins. E. & W. of
stone 3 ft. dist.; and raise
mound of earth 3 1/2 ft. base 1 1/2 ft.
high N. of con.

45.00 Drain, course N. Thence over level land.

North boundary of T. 29 N. R. 4 W.

BOOK 1692

70.00 Arcued gradually bear N. + S.

80.00 Set a limestone 16 x 6 x 5 ins.,
11 ins. in the ground for cor. of
secs. 23, 24, & 35, marked with
knives on W. & 2 knives on E.
edges; dig pits 18 x 8 x 12 ins.
in each sec. 5 1/2 ft. dist.; and
raise a mound of earth 7 ft.
base, 2 ft. high W. of cor.

Land, Rolling.

Soil, sandy & stony 3rd Rate.

No timber.

Land covered with dense hick
undergrowth 80,000 lbs.

Sept. 6 at this cor. I set off
6° 25' N. on the decl. arc; and at
11 h 58.9^m A.M., Int., observed the
sun on the meridian; the resulting
lat. is $35^{\circ} 54' 37''$ which is correct.

North boundary of T. 29 N. R. 4 W.

East,

BOOK 1692

bet. sec. 2 & 35.

Over Rolling land covered with dense Chics undergrowth.

25.00

Drain, course S.W.

40.00

Set a limestone 18x8x4 ins, 12 ins. in the ground for $\frac{1}{4}$ sec. cor, marked $\frac{1}{4}$ on N. E, 2, on S. face; dig pit 4x12x12 ins. E. & W. of stone 3 ft. dist.; and raise a mound of earth 3x5 ft. base, $\frac{1}{2}$ ft. high N. of cor.

43.50

Drain, course N.E.

55.00

Ridge, bear N. 45.

80.00

Set a limestone 18x18x8 ins, 12 ins. in the ground for $\frac{7}{4}$ sec. cor, marked with 5 notches on W. and 1 notch on E. edge; dig pit 18x18x12 ins. in each sec, $5\frac{1}{2}$ ft. dist.; and raise a mound

North boundary of T. 29 N. R. 4 W.

BOOK 1692

of earth 4 ft. base, 2 ft. high,
W. of cor.

Land Rolling,

Soil, sandy & stony. 3 1/4 x 4 1/2 sec.

No timber,

Land covered with dense chic
undergrowth 80,000 chs.

East

bet. sec. 1 ^E of 36.

Over Rolling land covered
with dense chic undergrowth.

26.20 Road, bears N. 45.

40.00 Set a limestone 18 x 10 x 4 ins., 12
ins. in the ground for $\frac{1}{4}$ sec.
cor., marked $\frac{1}{4}$ on N. ^E of 1 on S
faces; dig pits 18 x 18 x 12 ins. E. & W
of stone 3 ft. dist., and raise mound
of earth 3 1/2 ft. base 1 1/2 ft. high N. of cor.

North boundary of T. 29 N. R. 4 W.

61.00 Drain course N.E.

70.00 Descend rocky slope bears N.E. 45° S. $1/2$

80.00 The cor. of Tps. 29 & 30 N. Rs.
3 & 4 W.

Land, Rolling & Mountainous, 10,000 chs.

Soil, sand & stony, 2^d & 4th Rate,
No timber.

Land covered with dense under
growth 8,000 chs.

Sept. 6, 1900.

North boundary of T. 29 N. R. 4 W.

BOOK 1692

Boundaries of T. 29 N. R. 4 W.

Latitudes, Departures, & Closing errors

Line Designated	True Bearing	Distance	Latitude		Departure	
			N.	S.	E.	W.
7 th Standard Parallel	W	480.00				480.00
W. Bdy. T. 29 N. R. 4 W.	North	480.00	480.00			
N. Bdy. T. 29 N. R. 4 W.	East	479.39			479.39	
E. Bdy. T. 29 N. R. 4 W.	South	480.00		480.00		
Convergency						.52
Totals			480.00	480.00	479.91	480.00 479.91
Error in Lat.	nothing				Error in Dep.	0.09

The land in this township is generally rolling and hilly. The soil is sandy and stony and produces little vegetation except the chico brush, an arid shrub which grows in abundance. There is no water in the township. The drainage

North boundary of T. 29 N. R. 4 W.

is mostly towards the south.
There is a little scattering scrubby
cedar timber in the North western
part of the township.

Carl R. Baudle,
U. S. Deputy Surveyor.

List of Names.

A List of the Names of the Individuals
employed by Carl R. Gaudle

U. S. Deputy Surveyor, to assist in running, meas-
uring and marking the lines and corners described
in the foregoing Field Notes of the survey of the
North East West boundaries of
Tps. 29 N. Rs. 1, 2, 3, & 4 W.

of the Gila and Salt River Base and Meridian, in
the Territory of Arizona, showing the respective
capacities in which they acted.

Marvin Gaudle Chainman.

J. M. Meredith Chainman.

..... Chainman.

..... Chainman.

Fred A. Byer ~~Chainman~~
..... ~~Chainman~~

W. C. Whittington ~~Chainman~~
..... ~~Chainman~~

Henry Norman Flagman.

Final Oath of Assistants.

We hereby certify that we assisted Carl
R. Gaudle U. S. Deputy Surveyor, in
 surveying all those parts or portions of the
North and West boundaries
of Tps. 29 N. Rs. 1, 2, 3, & 4 W.

of the Gila and Salt River Base and Meridian, in
 the Territory of Arizona, as 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.

Martin Gaudle Chainman.

J. M. Meredith Chainman.

Chainman.

Chainman.

Edward A. Byer Monument
 Man.

W. C. Whittington Monument
 Man.

Henry Morrison Flagman.

Sworn to and subscribed before me, this 25th

day of November, 1899, 1900

Henry T. Church

Notary Public.

My Commission expires June 1, 1901.

[SEAL.]

Final Oath of U. S. Deputy Surveyor.

I, *Carl R. Gaudle*,

U. S. Deputy Surveyor, do solemnly swear that in
pursuance of a contract received from *George*
Christ United States Surveyor-General for Ari-
zona, bearing date of the *thirteenth* day of

June 1900, I have well, faith-
fully, 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

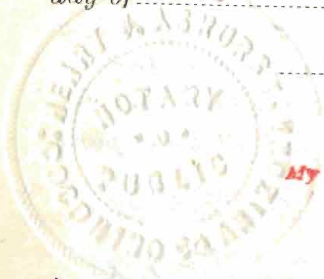
or portions of the *North and West*
boundaries of Tps. 29 N. R.
1, 2, 3, & 4 W.

of the Gila and Salt River Base and Meridian, in
the Territory of Arizona, as 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 surveys
have been established and perpetuated in strict
accordance with the Manual of printed instructions,
the special instructions of the United States Sur-
veyor-General for Arizona, and in the specific

manner described in the field notes, and that the foregoing are the true Field Notes of such survey; and should any fraud be detected I will suffer the penalty of perjury, under the provisions of an act of Congress approved August 8, 1846.

Carl R. Bauder
U. S. Deputy Surveyor.

Sworn to and subscribed before me this *27th*
day of *November*, 189*0*



Henry J. Ashurst
Notary Public

My Commission expires June 1, 1891.

Subscribed and sworn to
before me this 7th day of Dec, 190

M. L. Layton
Clerk of the Notary Court

