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Platted, Copied, Compared

Approved by Com^r

G. L. O. Sept 26. 1891

4-671

No. 664

FIELD NOTES

BOOK 664

GENERAL LAND OFFICE.

SUBDIVISION LINES

T. 6. S. R. 31. E.

CONTRACT No. 18.

Daniel Drummond.

August. 10/15. 1891.

664

1A

BOOK 664

(4-674.)

Township 6 South R. 31 East

6	5	4	3	48	2	24	1
					46		22
7	8	9	10	44	11	20	12
					42		18
18	17	16	15	40	14	16	13
					38		14
19	20	21	22	36	23	12	24
				56	34		10
30	29	28	27	54	26	8	25
				52	30		6
31	32	33	34	50	35	4	36

1. B

Subdivisions T. 6. S. R. 31. E.

Survey Commenced Aug.
10. 1891. with an
improved Gurley transit,
with solar attachment,
Preliminary to commencing
the subdivisions of this
township, I go to the
Cor. of Tps. 6 and 7, S. Rs.
31 and 32 East. which
is a post, 3 ft above
ground, 4 ins square and
having a mound of stones
around post, 2 ft high
and $4\frac{1}{2}$ ft. base, at this
Cor. I verify the adjust-
ments of my transit
Lat. $32^{\circ}51'$ North
Long. $109^{\circ}3'$ West

Subdivisions T. 6. S. R. 31. E.

I set my instrument over the Center of the Sp. Cor. and direct the telescope to Polaris. and at $10^h 1^m 12^s$ mean local time of eastern elongation. I find the magnetic bearing to be $N 11^{\circ} 0' W$.

N end of needle	$11^{\circ} 0' East$
Azimuth of Polaris	$1^{\circ} 31' East$
Variation	$12^{\circ} 31' East$

I now lay off the azimuth of the star $1^{\circ} 31'$ to the West, and drive a picket 5.00 chs. N of Cor. to mark true Meridian. Tested Solar apparatus, on meridian thus found, and find it correct.

3.

BOOK 664

Subdivisions T. 6, S. R. 31, E.

At 7 a.m. August 11, 1891
I place the transit on
the line established last
night.

From the Township Cor.
I run north on east
boundary Sec. 36.

Var. $12^{\circ} 31' E$

40.02 find $1/4$ Sec Cor.

80.03 find the Cor to
Secs. 25th and 36. on line

Thence I proceed to
Cor Secs. 35th and 36. a
boundary of T₆, recently
established by me

Subdivisions T. 6. S. R. 31. E.

ls Thence I run

North $0^{\circ}1'W$ bet Secs. 35 and 36.

Var. $12^{\circ}31'E$

5.10 Wash 25 lks wide Course S.W.

5.90 ascend ridge. Course S.W. + N.E.

9.30 Wash 20 lks Course S.W.

2.20 ascend Top of ridge Course S.W.

10.00 Set a lava stone $18 \times 10 \times 4$

ins. 12 ins in the ground

for $\frac{1}{4}$ Sec Cor. Marked

$\frac{1}{4}$ S on W. Side. And raised

a mound of stone $1\frac{1}{2}$ ft

high. $3\frac{1}{2}$ ft base alongside

It's impracticable

40.80 Wash 10 lks wide Course S.W.

48.10 ascend Top of ridge in S.W. direction

52.20 Wash 15 lks wide Course S.W.

53.40 Enter mesa

65.40 Wash 20 lks wide Course S.W.

5.

BOOK 664

Subdivisions T. 6 S. R. 31 E

chain's	
71.30	ascend Top of ridge Course NW.
78.35	Wash 40 lks wide Course SW.
80.00	Set a Quartzite Stone 24x6x5 ins. 18 ins in the ground. for Cor to Secs. 25, 26, 35 and 36. with 1 notch on S and East faces. and raised a mound of stone 2 ft high. 4 1/2 ft base alongside. Pits impracticke Land rolling Soil sandy 2 ^d rate No timber

Subdivisions T. 6 S. R. 31 E.

S $89^{\circ}59'E$ on a random
line bet Secs 25 and 36.

40.00 Set temporary $\frac{1}{4}$ sec Cor.

80.00 Intersect the east boundary
of the Sp. 3 lks S of the Cor.
to Secs 25, 30, 31 and 36.

which is a post. $4\frac{1}{2}$ ft
long, 4 ins square. Set in
a mound of stone. Marked
T. 6 S. Sec. 30 on N.E.

R. 32 E. S 31 on S.E.

R. 31 E. S 36 on S.W. and
S 25 on NW faces, with
5 notches on N and 1 notch
on S edges.

Thence I run

West on a true line
bet Secs 25 and 36.

Vd. $12^{\circ}30'E$

7.

BOOK 664

Subdivisions T. 6 S., R. 31. E.

- Chs.
39.10 Wash 20 lks wide Course S.W.
40.00 Set a limestone 16x9x5
ins. 11 ins in the ground
for $\frac{1}{4}$ sec Cor. Marked
 $\frac{1}{4}$ S on N face, and
raised a mound of stone
 $1\frac{1}{2}$ ft high, $3\frac{1}{2}$ ft base,
alongside. Pits impracticable
- 42.25 Enter mesa
- 57.10 Wash, 25 lks wide
- 75.00 ascend Top of ridge Course S
- 77.20 descend wash 40 lks wide ^{Co} S.W.,
- 78.00 ascend Top of ridge Course S.W.,
- 80.00 The Cor. to Secs 25, 26, 35 & 36
is Land relinquish
Soil sandy 2^d rate
No timber

Subdivisions T. 6. S. R. 31. E.

chs. N $0^{\circ} 1' W$ but Secs. 25th and 26,
Va. $12^{\circ} 30' E$

- 6.45 ascend Top of ridge Course S.W.
7.90 descend Wash 10 lks wide Course S.W.
7.80 ascend Top of ridge Course S.W.
8.15 descend Wash 10 lks wide Course W
22.10 ascend Top of ridge Course S.W.
28.10 descend Wash 10 lks wide " S.W.
35.10 ascend Top of ridge Course S.S.W
40.00 Set a limestone $16 \times 10 \times 4$
ins. 12 ins in the ground
for $\frac{1}{4}$ Sec. Cor. marked $\frac{1}{4}$
S on W face. And raised a
Mound of Stone $1\frac{1}{2}$ ft high
 $3\frac{1}{2}$ ft base along side
Pit's impracticable
57.20 Wash 15 lks wide Course S.W.
58.20 ascend. Top of ridge Course S.W.
65.60 descend Gulch 5 lks wide Course S.W.

9.

BOOK 664

Subdivisions T. 6 S. R. 31. E.

chains	
67.10	ascend Top of ridge Course S.W.
80.00	Set a limestone 20x8x4

ins. 15 ins in the ground
for Cor. to Secs. 23, 24, 25th and 26
with 2 notches on S, and
1 notch on E Edges. and
raised a mound of Stone
2 ft high. 4 1/2 ft base.
alongside. Pits impracticable

Land rolling

Soil sand & gravel. 2^d rate

No timber

Subdivisions T. 6. S. R. 31. E.

Chs. East on a random line
bet sees 24 and 25.

Va. $12^{\circ} 30' E$

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

79.82 Intersect east boundary of
Tf 7 lks S of Cor to sees.
19, 24, 25, and 30. which is
a post. 4 ins. square, marked
T. 6. S. Sec 19 on N.E.

R 32 E Sec 30 on S.E.

R 31 E Sec 25 on S.W. and

Sec 24 on N.W. faces, with
4 notches on N and 2 notches
on S. Edges. with mound
of stone around post
Thence I run

S $89^{\circ} 57' W$ on a true line
bet. sees 24 and 25

39.98 Set. a lava rock $16 \times 10 \times 4$

Subdivisions T. 6 S. R. 31 E

chains ins. 12 ins in the ground
for $\frac{1}{4}$ Sec. Cor. Marked
 $\frac{1}{4}$ S on N face. And raised
a mound of stone $1\frac{1}{2}$ ft
high $3\frac{1}{2}$ base. along side
Pits impracticable

43.75 ascend Top of ridge Course S.W.

47.90 descend Wash 12 lks wide Course S.W.

53.60 Ascend Top of ridge Course S.W.

63.76 descend Wash 15 lks wide Course S.W.

68.65 ascend Top of ridge Course S.W.

74.90 descend Wash 12 lks wide Course S.W.

77.60 ascend Top of ridge Course S.W.

79.82 The Cor to Secs. 23, 24, 25 and 26

Land broken.

Soil gravelly, 3^d rate

No timber.

Subdivisions T. 6. S. R. 31. E.

chs. No 1' W bet Secs. 23 and 24.

Va. 12° 31' E.

3.65 Wash. 20 lks wide Course S.W.

3.10 Ascend Top of ridge Course S.W.

3.00 descend, Enter bottom

35.40 Descend Wash 35 lks wide ^{Course} S.W.

40.00 Set a porphyry stone

20 x 10 x 4 ins. 15 ins in
the ground. for 1/4 sec. Cor.

Marked 1/4 S on W face.

and raised a mound of

stone 1 1/2 ft high 3 1/2 ft

base. Along side. Pits impracticable

48.10 ascend Top of ridge Course S.W.

62.10 Descend Wash 25 lks wide. S.W.

64.60 Ascend Top of ridge Course S.W.

69.20 Descend Wash 50 lks wide ^{Course} S.W.

77.10 Ascend Top of ridge Course S.W.

79.30 Descend Wash 10 lks wide " S.W.

13.

BOOK 664

Subdivisions T. 6. S. R. 31. E.

claims

80.00

Set a lava stone $24 \times 8 \times 4$
 ins. 18 ins in the ground
 for Cor to Secs. 13, 14, 23 & 24
 with 3 matches on S. and
 1 match on E edges, and
 raised a mound of stone
 2 ft. high, $4\frac{1}{2}$ ft. base
 alongside. Pits impracticable
 Land, broken and hilly
 Soil, gravelly 3^d rate
 No timber

August 11, 1891.

Subdivisions T. 6. S. R. 31. E.

chs. $N 89^{\circ} 57' E$ on a random line
bet. Secs. 13 and 24
Va. $12^{\circ} 30' E$.

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

8010 Intersect east boundary of
Sp at Cor. to Secs. 13, 18, 19 and 24
which is a post 4 in. square
Marked —

T. 6. S. Sec. 18 on N. E.

R. 32. E. Sec. 19 on S. E.

R. 31 E Sec 24 on S. W. and

Sec. 13 on N. W. faces, with
3 notches on N and S edges.
and Mand of Stone 2 ft
high around post.

Thence I run

$S 89^{\circ} 57' W$ on a true line
bet Secs 13 and 24.

Va. $12^{\circ} 30' E$.

Subdivisions T, G, S, R, 31, E.

Chains Ascend

- 11.90 Top of ridge Course S, W,
 23.00 Descend Wash 20 lks wide S, W,
 40.05 Set a Volcanic Stone
 20 x 8 x 4 ins. 15 ins
 in the ground. for $\frac{1}{4}$
 Sec. Cor. Marked $\frac{1}{4}$ S,
 on N face. and raised
 a mound of stone $1\frac{1}{2}$
 ft high $3\frac{1}{2}$ ft. base
 Alongside. Pits impracticable
 45.55 Wash 25 lks wide Course S, W,
 55.40 Ascend edge of Mesa
 56.90 Descend Wash 10 lks wide ³S, W,
 69.85 Ascend top of ridge Course S, W,
 75.10 Descend Wash 20 lks wide " S, W,
 80.10 The Cor to Secs 13, 14, 23 & 24
 Land, hilly
 Soil, gravel, 3^d rate
 No timber

Subdivisions T. 6, S. R. 31, E.

Ch. N $0^{\circ}1'W$ bet Secs. 13 and 14Ta. $12^{\circ}30'E$

9.80 Ascend. edge of mesa

5.85 Descend Wash 10 lks Course E. N. E.

10.00 Set a limestone $20 \times 8 \times 5$
 ins. 15 ins. in the ground
 for $\frac{1}{4}$ Sec Cor. marked
 $\frac{1}{4} S$ on W face. and raised
 a mound of stone $1\frac{1}{2}$ ft
 high. $3\frac{1}{2}$ ft. base. Alongside
 Pit's impracticable

7.60 Wash 30 lks wide Course S. W.

2.00 Ascend. into mesa

10.00 Set a lava stone $18 \times 6 \times 6$
 ins. 12 ins in the ground
 for Cor. to Secs. 11, 12, 13, and 14
 with 4 matches ^{on} S. and 1
 match on E faces. and
 raised a mound of stone

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BOOK 664

Subdivisions T. 6 S., R. 31. E.,

2 ft high $4\frac{1}{2}$ ft base
alongside. Pits impracticable

Land nearly level

Soil partly alluvial 2^d nat.

No timber

Subdivisions T. 6. S. R. 31. E.

chs. $N 89^{\circ} 57' E$ on a random line
bet. Secs. 12 and 13.

Va. $12^{\circ} 30' E$

40.00 Set temporary $\frac{1}{4}$ sec. Cor.

20.00 Intersect E. boundary of
Tp 7. lts. N of Cor. to Secs
7, 12, 13, and 18, which is
a porphyry rock $5 \times 9 \times 4$
ins above ground, with
2 notches on N. and
4 notches on S faces

Thence I run

West on a true line

bet. Secs 12 and 13,

10.00 Set a porphyry stone
 $16 \times 9 \times 4$ ins. 11 ins in
the ground. Marked $\frac{1}{4}$
S on N face, and raised
a mound of stone $1\frac{1}{2}$ ft

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BOOK 664

Subdivisions T. 6. S. R. 31. E.

High $3\frac{1}{2}$ ft base alongside
Pits impracticable

80.00 The Cor to Secs. 11, 12, 13, & 14.

Land level.

Soil, partly Alluvial 1st rate
No timber

Subdivisions J. C. S. R. 31, E.

chs. At $0^{\circ}1'W$ bet Secs 11^{and} 12.

Var. $12^{\circ}31'E$.

18.70 Descend Wash 35 lks wide Course SW

19.10 Ascend top of ridge Course S.W.

37.10 Descend Wash 12 lks wide Course S.W.

40.00 Set a limestone $16 \times 8 \times 5$ ins
12 ins in the ground, for
 $\frac{1}{4}$ Sec. Cor. marked $\frac{1}{4}$ S on
W. face. and raised a mound
of stone $1\frac{1}{2}$ ft high $3\frac{1}{2}$ ft
base, alongside. Pit impracticable.

51.70 Wash 26 lks wide Course S.W.

54.10 Ascend onto mesa

53.90 Descend Wash 100 lks wide Course W.

60.00 Set a Lava Stone $20 \times 10 \times 4$ ins
15 ins. in the ground, for
Cor. to Secs. 1, 2, 11 and 12.
Marked with 1 notch on N
and 5 notches on S faces, and

Subdivisions T. 6. S. R. 31. E.

raised a mound of stone
2 ft high. $4\frac{1}{2}$ ft. base
alongside. Pits impracticable
Land rolling.
Soil, alluvial. 2^d rate
No timber

Subdivisions T. 6. S. R. 31. E.

chs East on a random line
bet Secs 1^{and} 12.

Var. $12^{\circ}30'E$

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

80.12 Intersect E boundary of Sp.
at 10 lks N of Cor. to Secs.
1, 6, 7^{and} 12, which is a
porphyry rock $5 \times 8 \times 5$ ins.
above ground, marked with
1 notch on N. and 5 notches
on S faces. and mound of
stone $1\frac{1}{2}$ ft. high 2 ft base
alongside. Pits impracticable
Thence I run

$N 89^{\circ}56'W$ on a true line
bet Secs 1^{and} 12.

Var. $12^{\circ}30'E$.

4.60 Wash 10 lks wide Course S.W.

26.30 Wash 20 lks wide Course S.W.

Subdivisions T. 6. S. R. 31. E.

chains
40.06 Set a limestone 15 x 8 x 5
ins. 11 ins in the ground
for $\frac{1}{4}$ Sec. Cor. Marked $\frac{1}{4}$
S on N face, and raised a
Mound of Stone $1\frac{1}{2}$ ft high
 $3\frac{1}{2}$ ft base. Alongside
Pl'ts impracticable

64.90 Ascend onto mesa

66.80 Descend onto bottom

71.90 Wash 10 lks wide Course S. W.

80.12 The Cor. to Secs. 1, 2, 11 and 12,

Land, rolling

Soil alluvial 2^d rate

No timber

Subdivisions T. 6. S. R. 31. E.

chs. N $0^{\circ}1'W$. bet Secs. 1 and 2.Var. $12^{\circ}30'E$

37.15 Ascend. onto mesa

40.00 Set a porphyry stone
 $15 \times 10 \times 4$ ins. 11 ins. in
 the ground. for $\frac{1}{4}$ Sec Cor.
 Marked $\frac{1}{4}$ S on W face,
 and raised a mound of
 stone $1\frac{1}{2}$ ft high. $3\frac{1}{2}$ ft
 base alongside.

Pits impracticable.

49.65 Descend. Wash 65 lks wide Course S.W.

59.10 Ascend. onto mesa.

66.70 Descend. Wash 25 lks wide Course S.W.

79.40 Intersect the first standard
 parallel south at 5.40 chs.
 East of the Standard Cor.
 to Secs. 34 and 35 T. 6. S.
 R. 31. E. which is a post

Subdivisions T. 6. S., R. 31 E

4 ft long, 4 ins. Square
 Marked S. C., T. 5. S., R. 31 E
 on North. Sec. 35 on E,
 and Sec. 34 on W faces,
 with 2 notches on E,
 and 4 notches on W faces
 and mound of stone $1\frac{1}{2}$
 ft high, 2 ft base along-
 side.

At the aforesaid
 intersection of the 1st
 Standard parallel South
 I set a porphyry stone
 20 x 8 x 5 ins. 15 ins. in
 the ground. for Closing
 Cor. to Secs. 1 and 2,
 Marked C. C. on S,
 1 notch on E, and 5
 notches on W faces

Subdivisions T. 6. S. R. 31. E.

And raised a mound of
stone, 2 ft high 4 1/2 ft base
alongside. Pits impracticable
Land hilly and broken
Soil sandy and rocky, 3^d rate
No timber
August 12, 1891

27.

BOOK 664

Subdivisions T.6.S. R.31.E.

- chains
- From the Cor to Secs. 2, 3, 34^{and} 35. recently established by me. on the S boundary of the Sp.
- Thence I run
 N $0^{\circ} 1' W$ bet. Secs. 34^{and} 35.
 Var. $12^{\circ} 30' E$
 over mesa
- 820 Leave mesa and descend
- 11.90 Enter bottom
- 32.70 Leave bottom, ascend
- 37.90 Top of ridge Course E. & W.
- 40.00 Set a limestone $16 \times 10 \times 4$ ins. 11 ins. in the ground for $\frac{1}{4}$ Sec Cor. marked $\frac{1}{4}$ S on W face. and dug pits $18 \times 18 \times 12$ ins. N and S of stone $5\frac{1}{2}$ ft. dist. raised a mound of earth $1\frac{1}{2}$ ft.

Subdivisions T. 6. S. R. 31. E.

0.00	high. $3\frac{1}{2}$ ft. base. alongside
6.80	Leave bottom. ascend
7.90	Enter mesa. descend
5.80	Wash 10 lks wide Course West
6.90	Ascend. Top of ridge Course E. & W.
8.90	Descend. enter bottom
3.50	Wash 25 lks wide Course West
7.90	Leave bottom. ascend
1.00	Top of ridge Course W. S. W.
3.90	Enter bottom
4.70	Wash. 20 lks wide Course W.
0.00	Set a lava stone $20 \times 8 \times 4$ ins. 15 ins. in the ground for Cor. to Secs 26, 27, 34 & 35 marked with 2 notches on E. and 1 notch on S faces, and raised a mound of stone 2 ft high. $4\frac{1}{2}$ ft. base. along- side Pits impracticable

29.

BOOK 664

Subdivisions T6. S. R. 31. E.

Land nearly level
Soil sandy loam 2^d rate
No timber

Subdivisions T. 6. S. R. 31. E.

Chains S $89^{\circ}59'E$ on a random line
bet. Secs. 26^{and} 35.

Var. $12^{\circ}30'E$

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

80.00 Intersect N and S line. 3 lks
N of Cor. to Secs. 25, 26, 35^{and} 36

Thence I run

West, on a true line.

bet Secs. 26^{and} 35.

Var. $12^{\circ}30'E$

3.50 Wash 15 lks wide Course S.W.

4.30 Ascend Top of ridge Course S.W.

5.80 Descend Wash 10 lks wide Course S.W.

6.20 Ascend. Top of ridge Course S.W.

18.20 Descend Wash 16 lks wide Course S.W.

21.80 Ascend Top of ridge Course S.W.

38.10 Descend Wash 35 lks wide Course S.W.

40.00 Set a porphyry stone 16x8x5
ins. 12 ins. in the ground

Subdivisions T. 6. S. R. 31. E.

chs. for $\frac{1}{4}$ Sec Cor. Marked $\frac{1}{4}$ S.
 on N face. and raised a mound
 of Stone $1\frac{1}{2}$ ft. high, $3\frac{1}{2}$ ft.
 base, alongside. Pits impracticable
 Ascend

58.10 Top of ridge Course S.W. descend

65.10 Enter bottom

68.00 Leave bottom and ascend

70.15 Top of ridge Course S.W. descend

74.20 Enter bottom

80.00 The Cor. to Secs. 26. 27. 34th & 35

Land rolling

Soil. Sandy & rocky 2^d rate

No timber.

Subdivisions T. 6. S. R. 31. E.

Chains	N 0° 1' W bet Secs. 26 and 27 Var. 12° 30' E
20.60	Wash 10 lks wide. Course S.W.
22.70	Ascend onto mesa.
37.60	Descend Wash 20 lks wide Course S.W.
40.00	Set a limestone. 15 x 10 x 4 ins 11 ins. in the ground for. 1/4 Sec. Cor. Marked 1/4 S. on W face. and raised a mound of stone 1 1/2 ft high 3 1/2 ft. base along side Pits impracticable
48.80	Wash 125 lks wide Course S.W.
52.00	Wash 130 lks wide Course S.W.
56.60	Wash 15 lks wide Course S.W.
65.85	Ascend top of ridge Course S.W.
77.60	Descend Wash 20 lks wide Course S.W.
80.00	Set a lava rock 20 x 8 x 4 ins. 15 ins in the ground

Subdivisions I. G. S. R. 31 E.

For Cor. to Secs. 22, 23, 26^{and} 27
marked with 2 notches on
S and E faces. and raised a
mound of stone 2 ft high
4 1/2 ft base alongside
Pits impracticable
Land rolling
Soil. rocky 3^d rate
No timber.

Subdivisions T. 6. S. R. 31. E.

Chains	East on a random line bet Secs. 23 rd and 26.
	Var. $12^{\circ}31'E$
40.00	Set temporary $\frac{1}{4}$ Sec. Cor.
79.80	Intersect N Old S line 12 lks. S of Cor. to Secs. 23, 24, 25 th and 26.
	Thence I run
	S $89^{\circ}55'W$ on a true line bet. Secs. 23 rd and 26.
	Va. $12^{\circ}30'E$
4.40	Ascend ridge Course S.W.
10.55	Descend Wash 10 lks wide Course S.W.
0.40	Ascend entire mesa.
31.00	Descend entire bottom
6.80	Wash 35 lks wide Course S.W.
9.90	Set a porphyry stone 15x10x4 ins. 11 in in the ground for $\frac{1}{4}$ Sec. Cor. marked $\frac{1}{4}$ S on N face. And raised a

Subdivisions T. 6. S. R. 31. E.

chs. Mound of stones $1\frac{1}{2}$ ft high
 $3\frac{1}{2}$ ft base. Alongside
 Pits impracticable

45.60 Wash 120 lks wide Course S.W.

55.90 Leave bottom. and ascend

68.88 Top of ridge Course S.W. descend

72.90 Wash 20 lks wide Course S.W.

73.85 Ascend top of ridge Course S.W. ^{ascend}

74.90 Wash 15 lks wide Course S.W.

79.80 The Cor. to Secs 22. 23. 26 & 27

in Land rolling ^{to ground}

for Soil: sandy. 2^d ^{Adt}

No timber

Subdivisions T. 6. S. R. 31. E.

chains	N 0° 1' W lat Secs. 22 and 23, Ta. 12° 30. E.
9.00	Ascend top of ridge Course S.W.
17.90	Descend Wash. 10 lks wide Course S.W.
20.50	Ascend top of ridge Course S.W.
30.80	Descend into mesa.
31.80	" Wash 10 lks wide Course S.W.
32.60	Ascend into mesa.
35.50	Descend Wash 15 lks wide Course S.W.
38.20	Ascend top of ridge Course S.W.
40.00.	Set a Volcanic Stone 15 x 8 x 5 in 11 ins. in the ground for 1/4 Sec Cor. marked 1/4 S on W face. and raised a mound of Stone 1 1/2 ft. high 3 1/2 ft base. alongside. Pils impracticable
42.20	Ascend top higher ridge Course S.W.
49.00	Descend Wash 10 lks wide " S.W.
52.00	Ascend top of ridge Course S.W.

Subdivisions T. 6 S. R. 31 E.

chs.

58.70 Descend Wash 15 lks wide Course S.W.

69.10 Ascend top of ridge Course S.W.

70.20 Descend Wash 10 lks wide Course S.W.

72.90 Ascend top of ridge Course S.W.

74.00 Descend Wash 5 lks wide Course S.W.

80.00 Set a Volcanic Stone 24x10x6

ins. 18 ins. in the ground

for Cor. to Secs. 14, 15, 22nd and 23

Marked with 3 notches on S.

and 2 notches on E faces, and

raised a mound of Stone 2

ft high. 4 1/2 ft base alongside

Pits impracticable

Land, rolling and table.

Soil sandy 3^d rate

No timber

Subdivisions T. 6 S. R. 31 E.

- Chains N 89° 55' E on a random line
bet Secs. 14th and 23rd.
Var. 12° 30' E.
- 40.00 Set temporary 1/4 Sec. Cor.
79.90 Intersect N. and S. line 10 lks
N of Cor. to Secs. 13, 14, 23rd and 24th.
Thence I run
West, on a true line
bet Secs. 14th and 23rd
Va. 12° 30' E
- 2.60 wash 10 lks wide Course S E.
- 9.30 Ascend top of ridge Course S E and N W.
- 22.10 Descend wash 10 lks wide Course S W.
- 27.10 Ascend onto mesa
- 39.95 Set a lava stone 16 x 10 x 4 in
11 ins in the ground for 1/4
Sec. Cor. marked 1/4 S on N
face. and raised a mound
of stone 1 1/2 ft. high 3 1/2 ft

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Subdivisions T. 6. S. R. 31. E.

- chs. base. Alongside. Pits impracticable
 40.90 Descend Wash 10 lks wide Course S.W.
 42.00 Ascend top of ridge Course S.W.
 44.10 Descend Wash 15 lks wide Course S.W.
 51.10 Ascend top of ridge Course S.W.
 55.40 Descend Wash 10 lks wide Course S.W.
 62.20 Ascend top of ridge Course S.W.
 66.00 Descend Wash 10 lks wide Course S.W.
 79.90 The Cor to Recs. 14. 15. 22nd 23.

Land ralling

Soil sandy ^{and} rocky. 3^d rate

No timber

August 13, 1891.

Subdivisions T. 6, S. R. 31, E.

Chains $N 0^{\circ} 1' W$ bet Secs. 14 and 15.
Var. $12^{\circ} 30' E$

- 6.50 Wash 10 lks wide Course S.W.
 10.40 Ascend top of ridge Course S.W.
 19.20 Descend Wash 25 lks wide " S.W.
 32.10 Ascend top of ridge Course S.W.
 35.70 Descend Wash 20 lks wide " S.W.
 40.00 Set a porphyry Stone
 16x8x5 ins. 11 ins in the
 ground. for $\frac{1}{4}$ sec. Cor. marked
 $\frac{1}{4}$ S. on W face, and raised
 a mound of stone $1\frac{1}{2}$ ft high
 $3\frac{1}{2}$ ft base. alongside
 Pits impracticable
- 44.15 Wash 20 lks wide Course S.W.
 50.10 Ascend top of ridge " S.W.
 51.70 Descend Wash 10 lks wide " S.W.
 58.00 Ascend top of ridge Course S.W.
 62.10 Descend Wash 15 lks wide " S.W.

Subdivisions T. 6. S. R. 31. E.

- chs.
 68.60 Ascend top of ridge Course S.W.
 72.60 Descend Wash 10 lks wide " S.W.
 74.10 Ascend top of ridge " S.W.
 77.00 Descend Wash 90 lks wide " S.W.
 79.15 Ascend mesa.
 80.00 Set a limestone 20x8x4 ins

15 ins. in the ground. for
 Cor. to Secs. 10. 14 and 15.

Marked with 2 notches on E
 and 4 notches on S faces. and
 raised a mound of stone 2
 ft high. 4 1/2 ft. base along-
 side Pit's impracticable.

Land rolling and broken
 Soil rocky 3^d rate
 No timber

Subdivisions T. 6. S. R. 31. E.

chains	East on a random line bet Secs. 11 and 14. Var. $12^{\circ}31'E$
40.00	Set temporary $\frac{1}{4}$ Sec. Cor.
80.04	Intersect N and S line at Cor to Secs 11. 12. 13 and 14 Thence I run West on a true line bet Secs. 11 and 14. Va. $12^{\circ}30'E$ Over level mesa
40.02	Set a lava stone $20 \times 10 \times 4$ ins 15 ins in the ground for $\frac{1}{4}$ Sec. Cor. Marked $\frac{1}{4}$ on N face, and raised a mound of stone $1\frac{1}{2}$ ft high $3\frac{1}{2}$ ft. Base alongside. Pits impracticable
44.75	Descend Wash 10 lks wide Course S.W.
51.20	Ascend top of ridge " S.W.

Subdivisions T.C.S. R. 31 E.

- chus
 71.40 Descend Wash 25 lks wide Course S.W.
 74.35 Ascend top of ridge " S.W.
 75.80 Descend Wash 20^{ex} wide Course S.W.
 80.04 The Cor. to Secs. 10. 11. 13. and 14
 Land, partly level
 Soil, alluvial 2^d rate
 Timber, scattering Pine and Juniper

Subdivisions T. 6. S. R. 31. E.

chains	N $0^{\circ} 1' W$ bet Secs 10 and 11. Var. $12^{\circ} 31' E$
5.25	Precipice 70 ft high. descend
9.30	Wash 15 lks wide Course S.W. ascend
13.15	Top of ridge Course S.W. descend
18.70	Wash. 2 1/5 lks wide " S.W.
40.00	Set a limestone $22 \times 8 \times 4$ ins. 16 ins. in the ground for $1/4$ Sec. Cor. Marked $1/4$ S on W. face, and raised a mound of stone $1 1/2$ ft high. $3 1/2$ ft base. alongside Pit impracticable
42.40	enter mesa
56.80	Wash 1, 80 chs. wide Course S.W.
63.50	ascend top of ridge Course S.W.
70.10	Descend Wash 10 lks wide " S.W.
74.60	Ascend top of ridge " S.W.
80.00	Set. a Volcanic Stone $20 \times 10 \times 4$ ins. 15 ins in the ground

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Subdivisions T. 6. S. R. 31. E.

chain base alongside. Pits impracticable

Ascend

74.40 Top of ridge Course S. W.

80.00 The Cor to Secs. 2, 3, 10 and 11

24. Laid hills 10 in. in

the soil. rocky. 3^d rate

Timber, scattering pine

August. 14. 1891.

Subdivisions T. 6. S. R. 31. E.

Chains	N 0° 1' W but secs. 2 and 3. Va. 12° 30' E.
3.70	Wash 30 lks wide Course S.W.
27.90	Ascend top of ridge " S.W. descend
39.20	Wash. 50 lks wide " S.W.
40.00	Set a lava stone 18 x 9 x 6 ins. 12 ins. in the ground for 1/4 sec. Cor. marked 1/4 S on W face. And raised a mound of stone 1 1/2 ft high 3 1/2 ft base. Alongside Pits impracticable Ascend
51.00	Top of ridge Course S.W. descend
54.50	Wash. 20 lks wide " S.W. Ascend
67.30	Top of ridge " S.W. descend
76.40	Wash. 100 lks " Course S.W.
79.45	Intersect first Standard parallel South. And N line

Subdivisions T. 6. S. R. 31 E

of the Sp. at 5.42 Chains
 E of the Standard Cor. of
 Secs. 33 and 34. Sp. S. S. R. 31 E,
 which is a post. 4 ft long
 4 ins square. Marked S. C.
 T. 5. S. R. 31. E. on N. Sec. 33 on
 W. and Sec. 34 on E faces. with
 2 notches on E and ^{4 notches on} West faces.
 For closing Cor. to Secs. 2 and
 3. I set a limestone 20x8x4
 ins. 15 ins. in the ground
 for C. C. to Secs. 2 and 3.

Marked C. C. on S. 2 notches
 on E. and 4 notches on W faces
 and raised a mound of stone
 2 ft high. 4 1/2 ft. base along-
 side. Site impracticable
 Land hilly and broken
 Soil rocky. 3^d rate
 No timber

Subdivisions T. 6. S. R. 31 E.

Chains	From the Cor. to Secs. 3, 4, 33, and 34 recently established by me on the S. bdy of the Sp.
	From $N 0^{\circ} 2' W$ bet Secs. 33 & 34 Var. $12^{\circ} 31' E$ over level bottom
5.30	Leave bottom & ascend
6.50	Top of ridge Course E. & W.
7.45	Descend into bottom
37.00	Wash 15 lks wide Course S. W.
40.00	Set a limestone $16 \times 10 \times 4$ ins 12 ins. in the ground. for $\frac{1}{4}$ Sec. Cor. Marked $\frac{1}{4}$ on N. face. And raised a mound of stone $1\frac{1}{2}$ ft high $3\frac{1}{2}$ ft base alongside.
	Pit is impracticable
44.70	Leave bottom and ascend
50.60	Top of ridge Course S. W. descend

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Subdivisions T. 6. S. R. 31. E.

- chw
56.20 Wash. 10 lks wide Course SW. ^{and}
- 60.50 Enter mesa.
- 80.00 Set a limestone $20 \times 8 \times 5$ ins
15 ins in the ground. for
Cor. to Secs. 27, 28, 33, and 34
Marked 3 notches on E and
1 notch on S faces. and
raised a mound of stone
2 ft high. $4 \frac{1}{2}$ ft base
alongside. Pits impracticable
Land nearly level
Soil sandy loam 1st rate
No. Timber

Subdivisions T. 6. S. R. 31. E.

- Chains $S 89^{\circ} 59' E$ on a random line
bet. Secs. 27 and 34.
Va. $12^{\circ} 30' E$
- 40.00 Set. temporary $\frac{1}{4}$ Sec Cor.
- 80.20 Intersect N & S line 14 lks
N of Cor. to Secs. 26, 27, 34, and 35
Thence I run
 $N 89^{\circ} 53' W$ on a true line
bet Secs. 27 and 34.
Var. $12^{\circ} 31' E$
over level bottom
- 36.10 Leave bottom, ascend
- 40.10 Set. a limestone $18 \times 10 \times 3$ ins
12 ins in the ground for
 $\frac{1}{4}$ Sec. Cor. Marked $\frac{1}{4} S$
on N face. dug pits 18×18
 $\times 12$ ins. N and S of post $5\frac{1}{2}$
ft. dist. and raised a mound
of earth $1\frac{1}{2}$ ft high $3\frac{1}{2}$ ft base
alongside

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Subdivisions T. 6. S. R. 31 E.

chs

48.10

Entire mesa

80.20

The Cor to Secs. 27, 28, 33 and 34

Land. Nearly level

Soil. Sandy loam 1st rate

No timber

Subdivisions T. 6 S. R. 31 E.

Chains	At $0^{\circ}2'W$ bet. Secs 27 and 28. Var. $12^{\circ}30'E$.
	Over mesa, and descend
5.70	Enter bottom
5.90	Wash. 55 lks wide Course SW
20.40	Ascend Top of ridge " SW descend
24.10	Wash. 20 lks wide " SW ascend
31.00	Enter mesa
40.00	Set. a Sandstone $20 \times 10 \times 3$ ins, 15 ins in the ground for. $\frac{1}{4}$ Sec. Cor. Marked $\frac{1}{4}S$ on W face and raised a mound of stone $1\frac{1}{2}$ ft high $3\frac{1}{2}$ ft. base, alongside Pit's impracticable
43.05	Wash 10 lks wide Course SW
64.10	Wash 10 lks wide " SW
66.10	Ascend top of ridge " SW,
67.30	Descend Wash. 10 lks wide " SW,

55.

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Subdivisions T. 6. S. R. 31, E.

- chs.
 68.10 Ascend top of ridge Course S, W.
 72.20 Descend Wash 10 lks wide " S, W.
 75.00 Ascend Entire mesa
 78.20 Descend Wash 15 lks wide Course S, W.
 79.30 Ascend top of ridge Course S, W.
 80.00 Set a Sandstone 20x8x4 ins
 15 ins. in the ground. for
 Cor to Secs. 21, 22, 27 and 28.
 Marked with 2 notches on S
 and 3 notches on E faces,
 and raised a mound of
 stone 2 ft high, 4 1/2 ft base
 alongside. Pits impracticable.
 Land rolling
 Soil sandy 2^d rate
 No timber

Subdivisions T. C. S. R. 31 E.

0.00 $S 89^{\circ} 53' E$ on a random line
bet Secs. 22 and 27.

Var. $12^{\circ} 30' E$

0.30 Set tetrapozaruj $\frac{1}{4}$ Sec. Cor.

0.30 Intersect N and S line 10

0.50 lks S of Cor. to Secs. 22, and

0.70 23, 26 and 27. in " NW. corner

0.15 Thence I run

$N 89^{\circ} 57' W$ on a true line

bet. Secs. 22. and 27.

Var. $12^{\circ} 30' E$

1.70 Ascend top of ridge Course $S W$.

1.80 Descend Wash 20 l wide " $S W$

3.85 Ascend top of ridge Course S, W .

4.90 Descend Wash 10 lks wide ^{corner} $S W$.

0.15 Set a lava stone $23 \times 14 \times 5$

ins. 17 ins in the ground

for $\frac{1}{4}$ Sec Cor. Marked

$\frac{1}{4} S$ on N face. and

Subdivisions T. 6. S. R. 31. E.

- Chs. raised a mound of stone
 1 1/2 ft high 3 1/2 ft. base along
 side P.O.'s impracticable
- 43.30 top of ridge Course S.W.
 46.80 Descend Wash 10 lks wide " S.W.
 53.85 Ascend top of ridge Course S.W.
 66.40 Descend Wash, 12 lks wide " S.W.
 72.90 Ascend top of ridge " S.W.
 77.60 Descend Wash 10 lks wide " S.W.
 80.30 The Cor to Secs 21, 22,
 27, and 28.

Land, ralling
 Soil Sand & Gravel. 2^d rate
 No timber

August 15, 1891.

Notes Continued in Book 8.

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U. S. Surveyor-General's Office,

TUCSON, A. T., *Sept 18th* 1889

The foregoing Field Notes of the Surveys of
The Subdivisions lines of
T. 6 South, R. 31 East

..... Gila and Salt River Meridian
in *Arizona* executed by
Daniel Drummond

U. S. Deputy Surveyor, under his contract dated
May 29th 1891

having been critically examined, the necessary correc-
tions and explanations made, the said Field Notes and
the surveys they describe are hereby approved.

Myra C. Johnson
U. S. Surveyor-General
for the Territory of Arizona.