

FIELD NOTES
STANDARD AND
EXTERIOR LINES

2605-2613

VOL. 232
1884

EXTERIORS.
VOL. 282.

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	108.	South "	T.	21 N.,	R.	102 W.
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	154.	South "	T.	41 N.,	R.	91 W.
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Book No. _____

FIELD-NOTES

OF

The Standard Lines of

Township _____

Range _____

West of the Sixth Principal Meridian, in Wyoming.

SURVEYED BY

R. M. Jones Deputy Surveyor,Under his contract of August 13 1884.Survey commenced Sept. 24 1884.Survey completed October 14 1884.

Platted by _____

188

Copied for Washington by _____

188

Copied for Register by _____

188

Transcribed by _____

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INDEXED
A. G.

2611

INDEX DIAGRAM OF

TOWNSHIP _____

RANGE _____

WEST OF THE SIXTH PRINCIPAL MERIDIAN.

6	5	4	3	2	1
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Field Notes of the Surveys
of the Standard Lines
of R. M. Jones Contract No. 225,
dated August 13, 1884—

The 8th Standard Parallel North
through Ranges 101 and 102 West.

The 12th Auxiliary Guide Meridian West
through Townships 30, 31 and 32 North.

13th Guide Meridian West through Town-
ships 29 and 30 North.

Surveyed by Robert M. Jones.
U. S. Deputy Surveyor.

Survey commenced September 24, 1884.
Survey completed October 14, 1884.

12th Auxiliary Guide Meridian West 273
between Ranges 100 and 101 W.
through Townships 30 N.

After a diligent search for the Cor. to
Tps. 30 and 31 N. Ranges 100 and 101 West,
I find no trace of line or corners.
I therefore start from the Cor. to Tps. 29
and 30 N. Ranges 100 and 101 W. to find
any starting point by retracing and re-meas-
uring North between Ranges 100 and 101
W. through Tps. 30 N.

After a careful search I find no trace
of corners or blazed line through timber.
I therefore return to the Cor. to Tps. 29 and
30 N. Rgs. 100 and 101 W. which is a granite
50 x 18 x 5 ins. properly marked, set firmly
in the ground with remains of pits set
in young willow brush. I renewed the
pits. Thence I run North on the
12th Auxiliary Guide Meridian West
between Ranges 100 and 101 W. through
Tps. 30 North.

North between Secs. 31 and 36
Variation 16° 30' East

- 2.00 Leave dense willow brush br. E and W.
3.00 Along W. slope of rocky point
8.20 Creek course S. W. 5 lbs. wide.

12th Auxiliary & mid. Meridian West
between Ranges 100 and 101 West
through Townships 30 North.

- 1000 Ascend S. E. slope of mountain spur elevation 12°
3100 Top of mountain spur bears N. E. and S. W.
3400 Descend N. W. slope of mountain spur depression 15°
3800 Depression 8°.
4000 Set a granite 15 x 8 x 4 ins. $\frac{2}{3}$ in
the ground for $\frac{1}{4}$ Sec. Cor. marked $\frac{1}{4}$ on W face, and
made mound of stone alongside.
5100 Ascend S. E. slope of mountain elevation 7°
5300 Enter timber.
7000 Elevation 5°.
8000 Set a granite 14 x 12 x 4 ins. $\frac{2}{3}$ in
the ground for Cor. to Secs. 25, 30, 31, 36 marked
with 1 notches on S and 5 notches on N edges
and raised a mound of stone alongside, from which
A pine, 12 ins, diam, bears S. 85° E
25 lks dist. marked C. 30 N. 100 W S. 31 B. T.
A pine, 16 ins, diam, bears N 5° W
60 lks dist. marked R. 101 W. S. 25 B. T.
A pine, 8 ins, diam, bears S 10° W.
40 lks dist. marked S. 36 B. T.
A pine, 12 ins, diam, bears N. 45° E
82 lks dist. marked S. 30 B. T.

The required addition for chaining on angle of slopes was applied.
Surface, mountainous 8000 che. Soil, rocky 2nd rate.
Vegetation, good grass Timber, Pine 27.00 che.
Undergrowth of pine, willow and aspen.

12th Auxiliary Guide Meridian West,
between Ranges 100 and 101 West,
through Township 30 North.

275

North between Secs. 25 and 30

Variation $16^{\circ}33'$ East

Ascend S. E. slope of mountain range elevation 9°

26.50 Elevation 20°

28.40 Elevation 10°

40.00 Set a granite $16 \times 11 \times 6$ ins. $\frac{2}{3}$ in
the ground for $\frac{1}{4}$ Sec. Cor. marked $\frac{1}{4}$ on W. face, and
raised a mound of stone alongside.

A pine 10 ins. diam, bears $N 45^{\circ} W$ 3100 dist marked. S. B. T.
No other trees in limits.

49.00 Top of mountain ridge bears W. near E end

50.50 Descend N. E. slope of mountain ridge depression 18°

54.00 Depression 5°

54.40 Wagon Road brs. E. and W.

61.00 Leave timber.

63.00 Ascend S. E. slope of mountain side elevation 7°

69.25 Indian Trail. N. $65^{\circ} E$. and S. $60^{\circ} W$.

75.00 Enter timber brs. E. and W.

80.51 Set a granite $22 \times 10 \times 4$ ins. $\frac{3}{4}$ in
the ground for Cor. to Secs. 19, 24, 25, 30 marked
with 2 notches on S. and 4 notches on N. edges
and raised a mound of stone alongside, from which

A pine, 12 ins, diam, bears N. $42^{\circ} E$.

50 lks dist. marked P. 30 N. R. 100 W. S. 19 B. T.

A pine, 14 ins, diam, bears S. $24^{\circ} W$

70 lks dist. marked R. 101 W. S. 25 B. T.

A pine, 8 ins, diam, bears N. $40^{\circ} W$.

63 lks dist. marked S. 24 B. T.

No other trees in limits.

The required addition for chaining on angle of slopes was applied.

12th Auxiliary Guide Meridian West
between Ranges 100 and 101 West,
through Townships 30 North.

Surface, mountainous 8000 chs. Soil, rocky 2nd rate.
Vegetation. good grass Timber, Pine 6700 chs.

North between Secs. 19 and 24.

Variation 16° 16' East

Ascend S. E. slope of mountain side elevation 8°

9.00 Elevation 18°

14.00 Elevation 10°

21.00 Descend N. E. slope of mountain side depression 6°

26.90 Creek course E., 10 chs. wide.

27.50 Ascend S slope of mountain spur elevation 15°

32.00 Top of mountain spur bears E^W and W.

33.00 Descend N. slope of mountain ridge depression 10°

36.70 Creek course S. E. 6 chs. wide. Enter marsh;
40.00 Set a granite 25 x 10 x 5 ins. $\frac{3}{4}$ in
the ground for $\frac{1}{4}$ Sec. Cor. marked $\frac{1}{2}$ on W. face, and
raised a mound of stone alongside, from which
A pine 8 ins, diam. bears S 16° W.

2 1/2 chs dist. marked
41.00 Leave marsh. Enter dead and fallen timber. S. B.T. No other trees

41.50 Ascend S. E. slope of peak elevation 10°

50.00 Along E. slope of peak.

58.00 Summit of peak br. W. about 900 chs.

74.00 Descend N. E. slope of mountain peak depression 10°

80.00 Set a granite 18 x 12 x 4 ins. $\frac{2}{3}$ in
the ground for Cor. to Secs. 13, 18, 19, 24 marked
with 3 notches on S. and 3 notches on N. edges
and raised a mound of stone alongside. No trees in limits.

The required addition for chaining on angle of slopes was applied.

12th Auxiliary Guide Meridian West.
between Ranges 100 and 101 West,
through Townships 30 North.

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Surface, mountainous 80.00 chs. Soil, rocky 2nd rate
Vegetation, good grass Timber, Pine 41.00 chs.
Dead and fallen timber and undergrowth 39.00 chs.

North between Secs. 13 and 18.

Variation 16° 20' East

Descend ~~in~~ slope of mountain peak, depression 12°.

22.70 Creek course S. E. 8 lks. wide.

33.00 Ascend S. W. slope of mountain ridge elevation 14°.

33.10 Creek course S. W. 3 lks. wide.

35.00 Enter dense undergrowth.

38.00 Ascend S. E. slope of mountain ridge elevation 8°.

40.00 Set a granite 30 x 15 x 7 ins. $\frac{3}{4}$ in
the ground for $\frac{1}{4}$ Sec. Cor marked $\frac{1}{4}$ on W. face and
raised a mound of stone alongside. No trees in limits.

70.00 Top of mountain ridge bears N. E. and S. W.

71.00 Descend N. W. slope of mountain ridge depression 8°.

80.00 Set a granite 20 x 12 x 5 ins. $\frac{3}{4}$ in
the ground for Cor. to Secs. 7, 12, 13, 18 marked
with 4 notches on S. and 2 notches on N. edges
and raised a mound of stone alongside, from which

A pine . . . 8 ins, diam. bears S. 20° E.

76 lks dist. marked C. 30 N. R. 100 S. 18 B. T.

A pine . . . 9 ins, diam. bears N. 26° W.

36 lks dist. marked R. 101 W. S. 12 B. T.

No other trees in limits.

The required addition for chaining on angle of slopes was applied.

12th Auxiliary Guide Meridian West,
between Ranges 100 and 101 West,
through Township 30 North.

Surface, mountainous 80.00 chs. Soil, rocky 2nd rate.
Vegetation, grass. Timber, Scattering pines
Dead and fallen timber and dense *Quercus* under-
growth. 45.00 chs.

At this point I test the latitude at noon, Sept. 24, 1884,
and find it correct as set forth on the latitude arc of my Transit.
Latitude $42^{\circ}34'30''$ N. Variation $16^{\circ}30'$ E.

Instrument used, Jones Patent Solar Transit, recently tested
and found to be in proper adjustment.

North between Secs. 7 and 12.

Variation $16^{\circ}30'$ East

	Descend. N.W. slope of mountain ridge	depression 10°
2.00	Descend. N.W. slope of canon	depression 30°
7.20	Bottom of canon near head drains W.	
8.00	Ascend S.W. slope of canon	elevation 20°
11.50	Top of canon wall bears N.E. and S.W.	
12.00	Along steep N. slope of mountain ridge. Enter timber.	
19.00	Descend N. slope of canon	depression 24°
37.00	Bottom of canon drains W.	
38.40	Ascend S. slope of canon	elevation 20°
40.00	Set a granite $14 \times 10 \times 7$ ins. $\frac{2}{3}$ in the ground for $\frac{1}{2}$ Sec. Cor. marked $\frac{1}{4}$ on W. face, and raised a mound of stone alongside. from which A pine 5 ins, diam. bears N. 33° E 57 lks dist. marked $\frac{1}{4}$ S. B.T.	

12th Auxiliary Guide Meridian West.
between Ranges 100 and 101 West.
through Township 30 N.

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A pine 12 ins, diam. bears S. 60° W.
80 lks dist. marked $\frac{1}{4}$ S. B. T.

52.00 Top of canyon wall bears E and W.
Ascend S.W. slope of mountain ridge elevation 10°.

57.50 Top of mountain ridge west end bears N.E.

58.00 Descend N.W. slope of mountain ridge depression 20°

66.00 Depression 10°.

80.00 Lake about 10.00 chs. W. of line contains
about 200 acres.

80.00 Set a granite 18 x 10 x 5 ins. $\frac{2}{3}$ in
the ground for Cor. to Secs. 1, 6, 7, 12 marked
with 5 notches on S and 1 notches on N. edges
and raised a mound of stone alongside, from which

A pine, 8 ins, diam. bears N. 15° W.
38 lks dist. marked P. 30 N. R. 101 W. S. 1 B. T.

A pine, 8 ins, diam. bears N. 40° E.
70 lks dist. marked R. 100 W. S. 6 B. T.

A pine, 10 ins, diam. bears S. 10° E.
19 lks dist. marked S. 7 B. T.

A pine, 6 ins, diam. bears S. 18° W.
63 lks dist. marked S. 12 B. T.

The required addition for chaining on angle of slopes was applied,

Surface, mountainous 80.00 chs. Soil, rocky 2nd rate.

Vegetation, good grass Timber, Pine and some aspen.

12th Auxiliary Guide Meridian West.
between Ranges 100 and 101 West.
through Township 30 North.

North between Secs. 1 and 6.

Variation $16^{\circ} 30'$ East

Descending \downarrow Slope of mountain ridge depression 12° .

6.15 Creek course E. 15 lks. wide (from lake)

6.75 Ascend \uparrow slope of ridge elevation 7° .

10.00 Top of ridge bears E. and W.

10.70 Descend \downarrow slope of ridge depression 5° .

15.00 Chain of small lakes. beaver dams and marshy grounds bet. N. E. and S. W.

17.00 Along E. slope mountain ridge.

40.00 Set a granite $16 \times 9 \times 5$ ins. $\frac{3}{8}$ in the ground for $\frac{1}{2}$ Sec. Cor. marked $\frac{1}{2}$ on W. face, and raised a mound of stone alongside, from which

A pin 12 ins, diam. bears East

36 lks dist. marked $\frac{1}{4}$ S. B. T.

A pin 8 ins, diam. bears S. 10° W.

40 lks dist. marked $\frac{1}{4}$ S. B. T.

53.25 Creek course E. 50 lks. wide.

54.00 Ascend \uparrow S. E. slope of mountain elevation 20°

73.00 Elevation 10°

80.00 Set a granite $20 \times 14 \times 14$ ins. $\frac{3}{4}$ in the ground for Cor. to $\frac{1}{2}$ Sec. 30 N. R. 100 W. marked with 6 notches on each edge and raised a mound of stone alongside, from which

A pin 5 ins, diam. bears S. 15° W.

68 lks dist. marked P. 30 N. R. 101 W. S. 1 B. T.

A pin 7 ins, diam. bears N. 18° E.

33 lks dist. marked P. 31 N. R. 100 W. S. 31 B. T.

A pin 12 ins, diam. bears N. 20° W.

100 lks dist. marked S. 36 B. T.

12th Auxiliary Guide Meridian West
between Ranges 100 and 101 West
through Township 30 North.

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No other trees in limits.

The required addition for chaining on angle of slopes was applied.

Surface, *mountainous 6000 chs.* Soil, *rocky 2nd rate.*

Vegetation, *good grass* Timber, *Pine and aspen.*

Dense undergrowth.

Sept. 24. 1884.

12th Auxiliary Guide Meridian West,
between Ranges 100 and 101 West,
through Townships 31 North -

North between Secs. 31 and 36.

Variation $16^{\circ}27'$ East

Ascending S. E. slope of mountain elevation 7°

20.00 Along E. slope of mountain.

37.00 Leave timber br. E. and W.

38.00 Ascend S. E. slope of mountain elevation 12°

40.00 Set a granite $16 \times 12 \times 9$ ins. $\frac{2}{3}$ in
the ground for $\frac{1}{4}$ Sec. Cor. marked $\frac{1}{4}$ on W. face, and
raised a mound of stone alongside.

46.00 Along E. slope of mountain.

47.00 Enter scattering pine timber and dead
and fallen timber and undergrowth.

49.00 Descend S. E. slope of mountain depression 14°

76.96 Creek, course E. 5 lks. wide.

77.00 Along E. slope of mountain ridge.

78.00 Leave timber.

80.00 Set a granite $24 \times 12 \times 10$ ins. $\frac{3}{4}$ in
the ground for Cor. to Secs. 25, 30, 31, 36 marked
with 1 notch on S and 3 notches on N. edges
and raised a mound of stone alongside, from which
A pine, 8 ins. diam. bears S. 5° E.
200 lks dist. marked P. 31 N. R. 100 W. S. 31 B. T.

No other trees in limits.

The required addition for chaining on angle of slopes was applied.

Surface, mountainous 8000 chs Soil, rocky, 2nd date

Vegetation, good grass Timber, Pine 68.00 chs.

Dead and fallen timber and undergrowth.

12th Auxiliary Guide Meridian West
between Ranges 100 and 101 West
through Townships 31 North.

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North between Secs. 25 and 30.

Variation 16° 30' East

Along E. slope of mountain ridge.

- 3.20 Creek course S. E. 5 lks. wide.
- 4.50 Ascend S. slope of mountain ridge elevation 12°.
- 13.00 Enter timber.
- 20.00 Top of mountain ridge bears E. and W.
- 23.00 Descend N. slope of mountain ridge depression 20°.
- 34.40 Creek course S. E. 4 lks. wide.
- 35.00 Ascend S. E. slope of mountain elevation 10°.
- 40.00 Set a granite 34 x 16 x 9 ins. $\frac{3}{4}$ in
the ground for $\frac{1}{4}$ Sec. Cor. marked $\frac{1}{4}$ on N. face, and
raised a mound of stone alongside, from which
- A pine . . . 10 ins, diam. bears N. 45° E.
20 lks dist. marked $\frac{1}{4}$ S. B. T.
- A pine . . . 8 ins, diam. bears N. 85° W.
7 lks dist. marked $\frac{1}{4}$ S. B. T.
- 45.00 Ascend S. slope of rocky point elevation 5°
- 58.00 Top of rocky point or summit of divide.
- 69.00 Descend N. slope of divide depression 15°.
- 80.00 Set a granite 24 x 24 x 4 ins. $\frac{3}{4}$ in
the ground for Cor. to Secs. 19, 24, 25, 30 marked
with 2 notches on S. and 4 notches on N. edges
and raised a mound of stone alongside, from which
- A pine . . . 8 ins, diam. bears N. 45° E.
40 lks dist. marked P. 31 N. R. 100 W. S. 19 B. T.
- A pine . . . 6 ins, diam. bears S. 55° E.
40 lks dist. marked S. 30 B. T.
- A pine . . . 8 ins, diam. bears S. 80° W.
100 lks dist. marked R. 101 N. S. 25 B. T.

12th Auxiliary Guide Meridian, West,
between Ranges 100 and 101 West
through Township 31 North.

A pine 8 ins, diam. bears N. 50° W.
130 lks dist. marked S. 24 B. T.

The required addition for chaining on angle of slopes was applied.
Surface, mountainous 80.00 chs Soll, 2nd rate.
Vegetation, good grass Timber, pine and aspen
67.00 chs.

North between Secs. 19 and 24.
Variation 16° 27' East

Descending N. slope of mountain depression 17°

14.00 Depression 12°

35.00 Ascend S. slope of mountain elevation 5°

40.00 Set a granite 20 x 20 x 14 ins. $\frac{3}{4}$ in
the ground for $\frac{1}{2}$ Sec. Cor. marked $\frac{1}{2}$ on W. face, and
raised a mound of stone alongside. from which

A pine 6 ins, diam. bears N. 80° W.
56 lks dist. marked $\frac{1}{4}$ S. B. T.

A pine 8 ins, diam. bears S. 30° E
90 lks dist. marked $\frac{1}{4}$ S. B. T.

46.00 Elevation 10°

80.00 Set a granite 10 x 10 x 8 ins. $\frac{2}{3}$ in
the ground for Cor. to Secs. 13, 18, 19, 24 marked
with 3 notches on S. and 3 notches on N. edges
and raised a mound of stone alongside. from which

A pine 10 ins, diam. bears N. 30° E
50 lks dist. marked C. 31 N. R. 100 W. S. ~~18~~¹⁵ B. T.

A pine 5 ins, diam. bears N. 62° W.
30 lks dist. marked R. 101 W. S. ~~13~~¹³ B. T.

12th Auxiliary Guide Meridian West
between Ranges 100 and 101 West,
through Township 31 North.

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A pine 7 ins, diam. bears S. 20° W.
70 lks dist. marked S. 24 B. T.
A pine 10 ins, diam. bears S. 30° E.
88 lks dist. marked S. 19 B. T.
Surface, mountainous 80.00 chs. Soil, 2nd rate.
Vegetation, good grass Timber, Pine & spruce 80.00 chs.
Pine and aspen undergrowth.
The required addition for chaining on angle of slopes was applied.

North between Secs. 13 and 18

Variation 16° 30' East

Ascending S. slope of mountain elevation 14°

16.00 Top of mountain bears E. and W.

24.00 Descend N. slope of mountain depression 18°

36.00 Depression 12°

40.00 Set a granite 16 x 12 x 7 ins. $\frac{2}{3}$ in
the ground for $\frac{1}{2}$ Sec. Cor. marked $\frac{1}{2}$ on W. face, and
raised a mound of stone alongside, from which

A pine 10 ins, diam. bears N. 50° E.

20 lks dist. marked $\frac{1}{4}$ S. B. T.

A pine 5 ins, diam. bears S. 28° E.

60 lks dist. marked $\frac{1}{4}$ S. B. T.

54.00 Depression 8°

63.00 Depression 5°

71.20 Creek, course E. 3 lks. wide.

72.00 Ascend S. W. slope of mountain ridge elevation 5°

80.00 Set a limestone 22 x 12 x 5 ins. $\frac{3}{4}$ in
the ground for Cor. to Secs. 7, 12, 13, 18 marked
with 4 notches on S. and 2 notches on W. edges
and raised a mound of stone alongside, from which

12th Auxiliary Guide Meridian West,
between Ranges 100 and 101 West,
through Township 31 North.

A pine, 6 ins, diam. bears N. 70° E.
66 lks dist. marked P. 31 N. R. 100 W. S. 7 B. T.

A pine, 10 ins, diam. bears N. 20° W.
91 lks dist. marked R. 101 W. S. 12 B. T.

A pine, 5 ins, diam. bears S. 57° E.
12 lks dist. marked S. 18 B. T.

A pine, 8 ins, diam. bears S. 33° W.
88 lks dist. marked S. 13 B. T.

The required addition for chaining on angle of slopes was applied.

Surface, mountainous 80.00 chs. Soil, 2nd rate.

Vegetation, good grass. Timber, Pine, spruce and
aspens 80.00 chs. Some undergrowth.

At this point I test the latitude at noon, Sept. 25, 1884,
and find it correct as set forth on the latitude arc of my Transit.

Latitude 42° 39' 40" N. Variation 16° 27' E.

Instrument used, Jones Patent Solar Transit, recently tested
and found to be in proper adjustment.

North between Secs. 7 and 12.

Variation 16° 27' East

Ascending S.W. slope of mountain ridge elevation 5°.

16.00 Elevation 8°.

40.50 Set a Limestone 16 x 14 x 6 ins. $\frac{2}{3}$ in
the ground for $\frac{1}{2}$ Sec. Cor. marked $\frac{1}{4}$ on W. face, and
raised a mound of stone alongside. No trees in limits.

42.00 Elevation 16°.

12th Auxiliary Guide Meridian West
between Ranges 100 and 101 West,
through Township 31 North.

287

55.00

Elevation 9°.

56.00

Scattering timber.

80.00

Set a limestone 18 x 14 x 5 ins. $\frac{2}{3}$ in
the ground for Cor. to Secs. 1, 6, 7, 12 marked
with 5 notches on S. and 1 notches on E. edges
and raised a mound of stone alongside, from which
A pine, 8 ins. diam. bears N. 22° W.
130 lks dist. marked C. 31 N. R. 101 W. S. 1 B. T.

No other trees in limits.

The required addition for chaining on angle of slopes was applied.
Surface, mountainous 80.00 chs. Soil, 2nd rate.

Vegetation, good grass Timber, scattering pine
and aspen.

North between Secs. 1 and 6.

Variation 16° 20' East

Ascending S. W. slope of mountain ridge elevation 5°.

40.00

Along W. slope of mountain at foot of rock
ledge bet. N. and S.

40.00

Set a limestone 24 x 9 x 5 ins. $\frac{3}{4}$ in
the ground for $\frac{1}{2}$ Sec. Cor. marked $\frac{1}{2}$ on W. face, and
raised a mound of stone alongside. No trees in limits.

63.00

Descend N. W. slope of mountain depression 5°.

70.00

Depression 12°.

80.00

Set a limestone 24 x 16 x 12 ins. $\frac{3}{4}$ in
the ground for Cor. to Twp. 31 & 32 N. R. 101 W. marked
with 6 notches on each edge
and raised a mound of stone alongside, from which

12th Auxiliary Guide Meridian West
between Ranges 100 and 101 West
through Township 31 North.

A pine 6 ins, diam. bears N. 65° E.
18 lks dist. marked P. 32 N. R. 100 W. S. 31 B. T.

A pine 10 ins, diam. bears S. 12° W.
7 lks dist. marked P. 31 N. R. 101 W. S. 1 B. T.

No other trees in limits.

The required addition for chaining on angle of slopes was applied.

Surface, mountainous 86.00 chs. Soil, 2nd rate.

Vegetation, good grass. Timber, Pine spruce and
aspen. Some undergrowth.

12th Auxiliary Guide Meridian West
between Ranges 100 and 101 West
through Township 32 N.

289

North between Secs. 31 and 36

Variation $16^{\circ}40'$ East

Descending N.W. slope of mountain ridge depression 10°

- 6.00 Enter dead and fallen timber.
- 31.00 Along W. slope of mountain ridge.
- 31.50 Leave dead and fallen timber.
- 40.00 Set a limestone $18 \times 12 \times 7$ ins. $\frac{2}{3}$ in
the ground for $\frac{1}{4}$ Sec. Cor. marked $\frac{1}{4}$ on W. face, and
raised a mound of stone alongside. No trees in limits.
- 42.00 Enter dense aspen brush br. E and W.
- 50.00 Descend N.W. slope of mountain ridge depression 18° .
- 59.00 Enter dense fallen timber.
- 62.00 Along W. slope.
- 76.40 Creek Branch Middle Fork course N.E. 12 lbs. under.
- 77.40 Leave dead and fallen timber.
- 78.50 Ascend S.E. slope of mountain elevation 20.
- 80.00 Set a limestone $28 \times 22 \times 5$ ins. $\frac{3}{4}$ in
the ground for Cor. to Secs. 25, 30, 31, 36 marked
with 1 notches on S and 5 notches on N edges
and raised a mound of stone alongside. No trees in limits.

The required addition for chaining on angle of slopes was applied.

Surface, mountainous 20.00 chs Soil, 2nd rate.

Vegetation, good grass. Timber, scattering pine
and aspen. undergrowth and dead
and fallen timber.

12th Auxiliary Guide Meridian West
between Ranges 100 and 101 West
through Township 32 North.

North between Secs. 25 and 30.

Variation $16^{\circ}30'$ East

Ascending $S. E.$ slope of mountain elevation 10'

10.00 Elevation 5'. Leave scattering timber.

34.00 Along $E.$ slope of mountain.

40.00 Set a limestone $16 \times 14 \times 4$ ins. $\frac{2}{3}$ in
the ground for $\frac{1}{2}$ Sec. Cor. marked $\frac{1}{2}$ on $N.$ face, and
raised a mound of stone alongside.

58.00 Ascend $S.$ slope of mountain elevation 10'

60.00 Enter scattering timber.

74.00 Top of mountain bears $N. E.$ and $S. W.$

80.00 Set a limestone $12 \times 12 \times 5$ ins. $\frac{2}{3}$ in
the ground for Cor. to Secs. 19, 24, 25, 30 marked
with 2 notches on $S.$ and 4 notches on $N.$ edges
and raised a mound of stone alongside, from which
A pine 6 ins, diam, bears $S. 20 W.$
80 lks dist. marked $P. 32 N. R. 101 W. S. 25 B. T.$

No other trees in limits.

The required addition for chaining on angle of slopes was applied.

Surface, mountainous, 80.00 cchs. Soil, 2nd rate.

Vegetation, good grass Timber, some scattering
pine and aspen. Undergrowth of same.

Sept. 25, 1884.

- 12th Auxiliary Guide Meridian West 291st
 • between Ranges 100 and 101 West
 through Township 32 North.

North between Secs. 19 and 24.

Variation 16° 30' East

- 3.80 Descend N.W. slope of canon depression 60°
- 14.00 Depression 34°
- 27.00 Depression 5°
- 40.00 Set a limestone 16 x 12 x 7 ins. $\frac{2}{3}$ in
 the ground for $\frac{1}{4}$ Sec. Cor. marked $\frac{1}{4}$ on W. face, and
 raised a mound of stone alongside, from which
- A pine . 5 ins, diam. bears N. 30° W. 70
 1ks dist. marked $\frac{1}{4}$ S. B. T.
- A pine . 6 ins, diam. bears S 56° E
 102 lks dist. marked $\frac{1}{4}$ S. B. T.
- 43.00 Descend N. slope of depression 18°
- 58.00 Depression 5°. Leave timber.
- 64.10 Middle Fork Popo Agie Course N. 60° E. 70 lks. wide.
- 70.34 Wagon Road N. 80° E. and S. 70° W.
- 74.00 Ascend S. slope of canon elevation 10°
- 80.00 Set a limestone 10 x 10 x 10 ins. $\frac{2}{3}$ in
 the ground for Cor. to Secs. 13, 18, 19, 24 marked
 with 3 notches on S. and 3 notches on N. edges
 and raised a mound of stone alongside.
- The required addition for chaining on angle of slopes was applied.
- Surface, mountainous 8000 ft. Soil, 2nd rate.
- Vegetation, good grass Timber, pine and aspen
 58.00 chs. Some undergrowth and
 fallen timber.

12th Auxiliary Guide Meridian West.
Between Range 100 and 101, West
through Townships 32 North.

North between Secs. 13th and 18.

Variation $16^{\circ} 36'$ East

Ascend S. E. slope of canon elevation 12°

5.00 Ascend S slope of canon elevation 70°

10.50 Elevation 14°

24.00 Elevation 10°

46.00 Set a limestone $16 \times 12 \times 10$ ins. $\frac{2}{3}$ in
the ground for $\frac{1}{2}$ Sec. Cor. marked $\frac{1}{2}$ on W. face, and
raised a mound of stone alongside.

48.00 Top of canon wall - bears E. and W.
54.00 Descend N. slope of mountain depression 20°

80.00 Set a limestone $24 \times 16 \times 16$ ins. $\frac{3}{4}$ in
the ground for Cor. to Secs. 7, 12, 13, 18 marked
with 4 notches on S and 2 notches on N edges
and raised a mound of stone alongside.

The required addition for chaining on angle of slopes was applied.
Surface mountainous 20.00 chs. Soil, 2nd rate.
Vegetation, good grass Timber, none.

12th Auxiliary Guide Meridian West,
between Ranges 100 and 101 West,
through Township 32 North. 21
293

North between Secs. 7 and 12.

Variation 16° 33' East

- 1.00 Creek - course E. 5 lbs. wide.
- 3.00 Ascend S. slope of mountain spur elevation 15°
- 34.00 Entered dead & fallen timber and dense undergrowth.
- 40.00 Set a limestone 16 x 10 x 6 ins. $\frac{2}{3}$ in
the ground for $\frac{1}{2}$ Sec. Cor. marked $\frac{1}{2}$ on W. face, and
raised a mound of stone alongside.
- 43.00 Top of mountain spur bears E. and W.
- 45.00 Descend N. E. slope of mountain spur depression 6°
- 49.00 Wagon Road bears E. & W.
- 50.00 Leave undergrowth and fallen timber.
- 79.10 Ascend rock ledge. Elevation 70°
- 79.90 Top of ledge bears E. and W.
- 80.00 Set a limestone 17 x 12 x 6 ins. $\frac{2}{3}$ in
the ground for Cor. to Secs. 1, 6, 7, 12 marked
with 5 notches on S and 1 notches on N. edges
and raised a mound of stone alongside.
- The required addition for chaining on angle of slopes was applied.
- Surface, mountainous rocks Soil, 2nd rate.
- Vegetation, good grass Timber, none.
- Dense pine undergrowth and dead
and fallen timber 15.00 obs.

12th Auxiliary Guide Meridian West
between Ranges 100 and 101 West
through Township 32 North.

North between Secs. 1 and 6.

Variation $16^{\circ} 36'$ East

Descending N.E. slope of mountain depression 8° .

5.00 Along E. slope of mountain.

28.50 Ascend S.E. slope of ridge elevation 5° .

29.10 Wagon Road brs. E and W.

35.00 Top of spur bears E. and W.

39.00 Wagon Road brs. E and W.

40.00 Set a limestone $24 \times 18 \times 14$ ins. $\frac{3}{4}$ in
the ground for $\frac{1}{4}$ Sec. Cor. marked $\frac{1}{4}$ on W. face, and
raised a mound of stone alongside.

61.00 Descend N. slope of mountain spur depression 20° .

75.00 Ascend S. slope of ridge elevation 5° .

77.00 Intersect 8th Standard Parallel North
958 lbs. E. of Standard Corner to
Secs. 31 and 32. T. 33 N. R. 100 W. which
is a limestone $22 \times 10 \times 3$ ins. marked S. E.
with 1 notch on W. edge and 5 notches
on E. edge and a mound of stone
alongside.

Set a limestone $24 \times 18 \times 4$ ins. $\frac{3}{4}$ in
the ground for Closing Corner to Twp. 32 N.
Range 100 and 101 W. marked C. C.
with 6 notches on S. E. and W.
edges and raised a mound of stone
alongside.

The required addition for chaining on angle of slopes was applied.

Surface, snow-belted 77.00 chs.
Soil, 2nd m. l.
Vegetation, good grass. Timber, none.

308 Guide Meridian West between Ranges 104th and 105th

West through Township 29 North.

From the Standard Cor to the 29 N R 6 104 & 105 W

which is a granite stone properly set and marked
North between Secs. 31 and 36.

Variation $16^{\circ} 36'$ East

Descending N.E. slope of table mountain depression 6° .

40.00 Set a granite $12 \times 8 \times 6$ ins. $\frac{2}{3}$ in
the ground for $\frac{1}{2}$ Sec. Cor. marked $\frac{1}{2}$ on N. face, and
raised a mound of stone alongside.

54.00 Leave N.E. slope, thence over broken surface.

80.00 Set a granite $20 \times 12 \times 6$ ins. $\frac{3}{4}$ in
the ground for Cor. to Secs. 25, 30, 31, 36 marked
with 1 notch on South and 5 notches on N.
edges, dug pits $18 \times 18 \times 12$ -ins. in each section, $5\frac{1}{2}$ -ft.
dist., and raised a mound of earth 2-ft. high, $4\frac{1}{2}$ -ft.
base alongside.

The required addition for chaining on angle of slopes was applied.

Surface, 54.00 mountainous. 26.00 broken Soil, 2nd rate.

Vegetation, grass & sage Timber, none.

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Ans

13th Grade Meridian between Ranges 104 and 105 West 309³⁷
through Township 29 North.

North between Secs. 25 and 30.

Variation 16' 30" East

40.50 Set a granite 14 x 12 x 3 ins. $\frac{2}{3}$ in
the ground for $\frac{1}{4}$ Sec. Cor. marked $\frac{1}{4}$ on *W.* face,
dug pits 18 x 18 x 12-ins. *N.* and *S.* of stone 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.

80.00 Set a granite 20 x 11 x 3 ins. $\frac{3}{4}$ in
the ground for Cor. to Secs. 19, 24, 25, 30 marked
with 2 notches on South and 4 notches on *North*
edges, dug pits 18 x 18 x 12-ins. in each section, 5 $\frac{1}{2}$ -ft.
dist., and raised a mound of earth 2-ft. high, 4 $\frac{1}{2}$ -ft.
base alongside.

Surface, *broken*

Soil, 2nd rate.

Vegetation, *Grass & sage* Timber, *none*.

310
73¹ Guide Meridian West between Ranges 104 and 105
West, through Townships 29 North.

North between Secs. 19 and 24.

Variation 16° 30' East

40.00 Set a granite 13 x 8 x 8 ins. $\frac{1}{3}$ in
the ground for $\frac{1}{4}$ Sec. Cor. marked $\frac{1}{4}$ on W. face,
dug pits 18 x 18 x 12-ins. N. and S. of stone 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.

46.00 Dry Wash course N 10° E. 50 lbs. wide.

80.00 Set a granite 18 x 14 x 3 ins. $\frac{2}{3}$ in
the ground for Cor. to Secs. 13, 18, 19, 24 marked
with - 3 notches on South and 3 notches on N.
edges, dug pits 18 x 18 x 12-ins. in each section, 5 $\frac{1}{2}$ -ft.
dist., and raised a mound of earth 2-ft. high, 4 $\frac{1}{2}$ -ft.
base alongside.

Surface, broken Soil, 2nd rate.

Vegetation, grass and say Timber, none.

West through Township 29 North.

North between Secs. 13th & 18.Variation $16^{\circ} 36'$ East

40.00

Set a granite $16 \times 10 \times 4$ ins. $\frac{3}{4}$ in the ground for $\frac{1}{4}$ Sec. Cor. marked $\frac{1}{4}$ on *W.* face, dug pits $18 \times 18 \times 12$ -ins. *N.* and *S.* of stone $5\frac{1}{2}$ -ft. dist., and raised a mound of earth $1\frac{1}{2}$ -ft. high, $3\frac{1}{2}$ -ft. base alongside.

80.00

Set a granite $25 \times 8 \times 6$ ins. $\frac{3}{4}$ in the ground for Cor. to Secs. 7, 12, 13, 18 marked with 4 notches on South and 2 notches on *N.* edges, dug pits $18 \times 18 \times 12$ -ins. in each section, $5\frac{1}{2}$ -ft. dist., and raised a mound of earth 2-ft. high, $4\frac{1}{2}$ -ft. base alongside. from which a granite boulder br. S. 15° W. 300 lbs. dist.

Surface, *barren*Soil, 2nd rate.Vegetation, *Grass & sage* Timber, *none*.

312
13th Guide Meridian West between Ranges 104 and
105 West, through Township 29 North.

North between Secs. 7 and 12.

Variation $16^{\circ} 30'$ East

40.00 Set a granite $12 \times 8 \times 8$ ins. $\frac{2}{3}$ in
the ground for $\frac{1}{4}$ Sec. Cor. marked $\frac{1}{4}$ on W face,
dug pits $18 \times 18 \times 12$ -ins. N. and S. of stone $5\frac{1}{2}$ -ft.
dist., and raised a mound of earth $1\frac{1}{2}$ -ft. high, $3\frac{1}{2}$ -ft.
base alongside.

56.20 Dry Gulch course N. W. 60 lbs. wide.

80.00 Set a granite $18 \times 12 \times 5$ ins. $\frac{2}{3}$ in
the ground for Cor. to Secs. 1, 6, 7, 12 marked
with 5 notches on South and 1 notch on N.
edges, dug pits $18 \times 18 \times 12$ -ins. in each section, $5\frac{1}{2}$ -ft.
dist., and raised a mound of earth 2-ft. high, $4\frac{1}{2}$ -ft.
base alongside.

Surface, broken.

Soil, 2nd rate.

Vegetation, grass & sage. Timber, none.

At this point I test the latitude at noon, Oct. 13, 1884,
and find it correct as set forth on the latitude arc of my Transit.
Latitude $42^{\circ} 30' 10''$ N. Variation $16^{\circ} 30'$ E.

Instrument used, Jones Patent Solar Transit, recently tested
and found to be in proper adjustment.

13th Guide Meridian West between Ranges 104 & 105 West through Township 29 North. 313

North between Secs. 1 and 6.

Variation $16^{\circ}30'$ East

32.00 Ascend S.W. slope of mountain elevation 6°

40.00 Set a granite $40 \times 20 \times 5$ ins. $\frac{3}{4}$ in the ground for $\frac{1}{4}$ Sec. Cor. marked $\frac{1}{4}$ on W face, and raised a mound of stone alongside.

80.00 Set a granite stone $16 \times 16 \times 7$ ins. $\frac{3}{4}$ in the ground, for Cor. to Tps. 29 & 30 N. R's 104 & 105 marked with 6 notches on each edge, and raised a mound of stone alongside. Pits impracticable.

The required addition for chaining on angle of slopes was applied.
Surface, mountainous & rocky. broken soil, 2nd rate.
Vegetation, grass & sage Timber, none.

314 Guide Meridian West between Ranges 104
and 105 West through Townships 30 North.

North between Secs. 31 and 36

Variation $16^{\circ}19'$ East

Ascending *W.* slope of mountain ridge elevation 5° .

40.00 Set a granite $15 \times 10 \times 8$ ins. $\frac{2}{3}$ in
the ground for $\frac{1}{4}$ Sec. Cor. marked $\frac{1}{4}$ on *W.* face,
dug pits $18 \times 18 \times 12$ -ins. *N.* and *S.* of stone $5\frac{1}{2}$ -ft.
dist., and raised a mound of earth $1\frac{1}{2}$ -ft. high, $3\frac{1}{2}$ -ft.
base alongside.

80.00 Set a granite $35 \times 14 \times 9$ ins. $\frac{3}{4}$ in
the ground for Cor. to Secs. 25, 30, 31, 36 marked
with 1 notches on *S.* and 5 notches on *N.* edges
and raised a mound of stone alongside.

The required addition for chaining on angle of slopes was applied.

Surface, mountainous 80.00 chs Soll, 2nd rate.

Vegetation, grass and sage Timber, none.

13th Guide Meridian West between Ranges 315
104 and 105 West through Township 30 North.

North between Secs. 25 and 30.

Variation $16^{\circ} 30'$ East

Ascending S. W. slope of mountain ridge elevation 8°

10.00 Top of mountain ridge bears N. W. and S. E.
24.00 descend N. E. slope of mountain depression 5°

40.00 Set a granite $16 \times 16 \times 7$ ins. $\frac{2}{3}$ in
the ground for $\frac{1}{4}$ Sec. Cor. marked $\frac{1}{4}$ on W. face, and
raised a mound of stone alongside.

53.00 Depression 8°

62.00 Along E. slope.

80.00 Set a granite $18 \times 14 \times 9$ ins. $\frac{2}{3}$ in
the ground for Cor. to Secs. 19, 24, 25, 30 marked
with 2 notches on S and 4 notches on N. edges
and raised a mound of stone alongside.

The required addition for chaining on angle of slopes was applied.

Surface, mountainous 80.00 chs. Soll, 2nd rate.

Vegetation, grass & sage Timber, none.

October 13th 1887

316 Guide Meridian West between Ranges 104
and 105 West through Townships 30 North.

North, between Secs. 19 and 24.

Variation $16^{\circ} 21'$ East

Ascending S.E. slope of mountain elevation 5°

13.60 Wagon Road br. N. E. and S. W.

40.00 Set a granite $20 \times 11 \times 11$ ins. $\frac{3}{4}$ in
the ground for $\frac{1}{4}$ Sec. Cor. marked $\frac{1}{4}$ on W. face,
dug pits $18 \times 18 \times 12$ -ins. N. and S. of stone $5\frac{1}{2}$ -ft.
dist., and raised a mound of earth $1\frac{1}{2}$ -ft. high, $3\frac{1}{2}$ -ft.
base alongside.

41.00 Elevation 10° .

48.00 Enter aspen grove, brush.

51.00 Leave aspen.

80.00 Set a granite $20 \times 8 \times 6$ ins. $\frac{3}{4}$ in
the ground for Cor. to Secs. 13, 18, 19, 24 marked
with 3 notches on S. and 3 notches on N. edges
and raised a mound of stone alongside.

The required addition for chaining on angle of slopes was applied.

Surface, mountainous 80.00 chs. Soil, 2nd rate.

Vegetation, grass and sage Timber, none.

3 chs. aspen brush.

13th Guide Meridian West between Ranges 104 and 317
-105 West through Township 30 North.

North between Secs. 13 and 18.
Variation $16^{\circ} 21'$ East

Ascend S.E. slope of mountain ridge elevation 10°

14.00 Top of mountain ridge bears N.E. and S.W.

~~19.00~~

19.00 Descend N.W. slope of canon depression 35°

25.50 Big Sandy, course S.W. 70 lbs. wide.

26.20 Ascend S.E. slope of canon elevation 35°

33.50 Top of canon wall bears N.E. and S.W.

34.00 Ascend S.E. slope of mountain elevation 6°

40.00 Set a granite $18 \times 16 \times 14$ ins. $\frac{2}{3}$ in
the ground for $\frac{1}{4}$ Sec. Cor. marked $\frac{1}{4}$ on W face,
dug pits $18 \times 18 \times 12$ -ins. N. and S. of stone $5\frac{1}{2}$ -ft.
dist., and raised a mound of earth $1\frac{1}{2}$ -ft. high, $3\frac{1}{2}$ -ft.
base alongside.

80.00 Set a granite $20 \times 8 \times 6$ ins. $\frac{3}{4}$ in
the ground for Cor. to Secs. 7, 12, 13, 18 marked
with 4 notches on S and 2 notches on N. edges
and raised a mound of stone alongside.

The required addition for chaining on angle of slopes was applied.

Surface, mountainous 80.00 chs. Soil, 2nd rate.

Vegetation, grass and sage timber, none.

Guide Meridian West between Ranges 104 and 105 West through Township 30 North.

North between Secs. 7 and 12.

Variation 16° 24' East

Ascending S.E. slope of mountain, elevation 6°.

40.00 Set a granite 19 x 15 x 5 ins. 3/4 in the ground for 1/4 Sec. Cor. marked 1/4 on N. face, and raised a mound of stone alongside.

64.00 Top of mountain bears N.E. and S.W.

69.00 Descend N.E. slope of mountain

80.00 Set a granite 12 x 10 x 9 ins. 2/3 in the ground for Cor. to Secs. 1, 6, 7, 12 marked with 5 notches on S and 1 notches on E edges and raised a mound of stone alongside.

The required addition for chaining on angle or slopes was applied. Surface, mountainous 80.00 etc. Soil, 2nd rate. Vegetation, grass 2nd. sq. Timber, none.

13th Guide Meridian West between Ranges 104⁴⁷ and 105 W. through Township 30 North. 319

North between Secs. 1 and 6.

Variation $16^{\circ}24'$ East

Ascend up S. E. slope of mountain elevation 8'

Scattering pine.

4000 Set a granite 12 x 8 x 5 ins. $\frac{3}{4}$ in the ground for $\frac{1}{4}$ Sec. Cor. marked $\frac{1}{4}$ on N. face, dug pits 18 x 13 x 12-ins. N. and S. of stone $5\frac{1}{2}$ -ft. dist., and raised a mound of earth $1\frac{1}{2}$ -ft. high, $3\frac{1}{2}$ -ft. base alongside. No trees in limits.

55.60 Creek course S. E. 3 lks. wide. *Conterdensu* pine

8000 Set a granite stone 18 x 14 x 5 ins., $\frac{2}{3}$ in the ground, for Cor. to Tps. 30 & 31 N. R's 104 & 105 W. marked with 6 notches on each edge, and raised a mound of stone alongside. Pits impracticable from which

- A pine 10 ins, diam, bears N. 85° E.
90 lks dist. marked P. 31 N. R. 104 W. S. 31 B. T.
- A pine 10 ins, diam, bears S. 80° E.
60 lks dist. marked P. 30 N. S. 6 B. T.
- A pine 8 ins, diam, bears S. 12° W.
115 lks dist. marked R. 105 W. S. 1 B. T.
- A pine 12 ins, diam, bears N. 45° W.
10 lks dist. marked S. 36 B. T.

Surface, mountainous 80.00 chs. Soil, 2nd rate.

Vegetation, grass and sage Timber, 55.60 chs. scattering pine. Pine brush and fallen timber!

24.40 chs. Dense pine timber and fallen timber.

At this point Alfred Heath and John } Oct. 14, 1884.
Winbaugh discontinued their labors as chainmen.

U. S. Surveyor General's Office,

Cheyenne, Wyoming.

Feb. 25 1885.

The foregoing Field Notes of the surveys of

the survey of the 8th Std Par N through
 Ranges 101 & 102 W. 12th Aux Guide W through
 Tps 30. 31 & 32 N. & 13th Guide Mer through
 Tps 29 & 30 N.

west of the Sixth Principal Meridian in the Territory of
 Wyoming, executed by

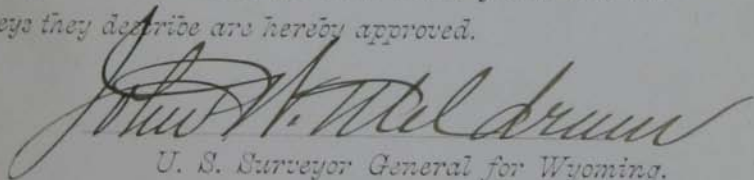
Robert M. Jones

Cont 225

U. S. Deputy Surveyor, under his contract dated

August 19th 1884 in the month

Sept. & Oct. 1884
 having been critically examined, the necessary corrections
 and explanations made, the said Field Notes and the
 surveys they describe are hereby approved.



U. S. Surveyor General for Wyoming.