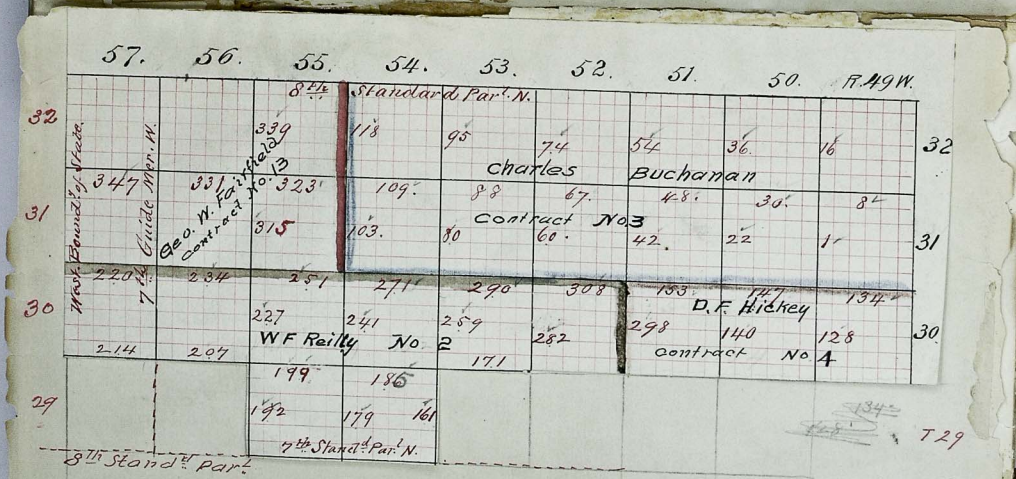
General Land Office • Original Field Notes

Book Number

279

The images in this file are photographs of the notes of the original surveys of the State of Nebraska on file in the Office of the Nebraska State Surveyor located in Lincoln, Nebraska.

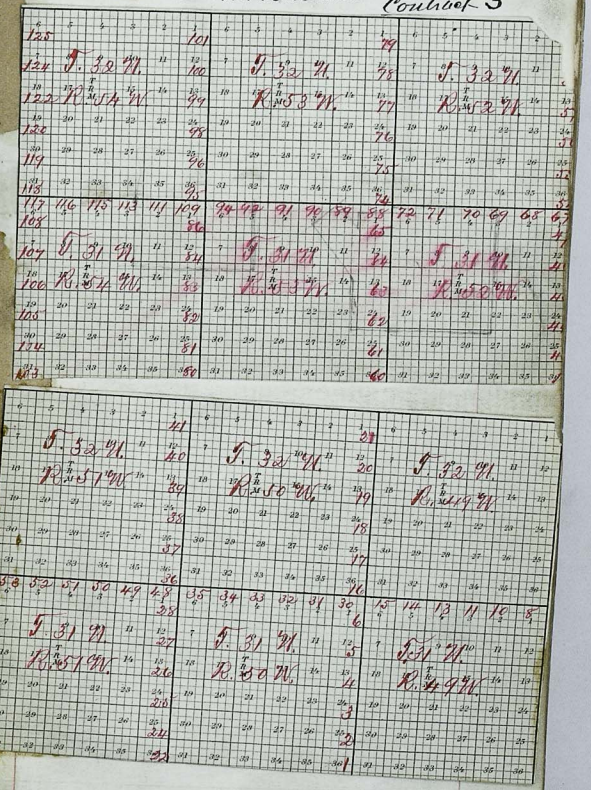
The original surveys in Nebraska began in the mid 1850's and were completed in the mid 1880's. The Nebraska office of the Surveyor General was closed June 30, 1886.



Index for T 30 – R's 49. 50. 51 see page 127

Index diagram (d)

Charles Buchanan's Contract 3



Survey made with Burt's Patent Improved Solar Compass, nearly new, and in first rate order. Made by W. & L. E. Gurley of Troy N. Y. in 1880.

Before proceeding further with the exteriors of this Tp., I made a change of 3 minutes in the latitude arc of my solar compass by subtracting same from the reading previously given, and at noon verified and corrected same by observation on the sun. I also further tested instrument by reversing.

E. B. T. 31 N. R. 50 W. 6th P. M.

Chains.	
	From the Cor. to Tps. 30 & 31 N. Rs. 49 & 50 W., I run,
	North on a true line between sections 31 & 36.
	Va. 15° 20′ East.
40.00	Set a post 3 ft. long, 3 ins. diam.
40.00	12 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of post 5½ ft. dist., and raised a mound of earth 1½ ft.
70.00	high, 3½ ft. base around post.
70.00	Descend.
71.00	
71.00	Enter Pine timber, bears N. E. & S. W.
75.00	
75.00	Leave Pine timber, bears E. & W.
80.00	
80.00	Set a post 4 ft. long, 4 ins. square,
	12 ins. in the ground, for Cor. to Secs. 25, 30, 31 & 36, marked T. 31 N., S. 30 on N. E., R. 49 W., S. 31 on S. E., S. 36 on S. W and S. 25 on N. W. faces, with 1 notch on S. and 5 notches on N. edges; dug pits, 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high, 4½ ft. base around post.
	Land rolling.
	Soil 1st rate
	Vegetation Bunchgrass.
	Timber of Pine.

E. B. T. 31 N. R. 50 W. 6th P. M.

Chains.

North on a true line between sections 25 and 30.

Va. 15° 15' East.

10.00 Cross Ravine, Course. N. E. and ascend.

40.00 **Set a post 3 ft. long, 3 ins. diam.**
12 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of post 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base around post.

56.00 Cross Ravine, Course. N. W. and enter Pine timber, bears E. and W.

62.00 Cross Ravine, Course. W.

70.00 Top of Spur, bears E. and W. and descend.

80.00 **Set a post 4 ft. long, 4 ins. square,**
12 ins. in the ground, for Cor. to Secs. 19, 24, 25 & 30, marked T. 31 N, S. 19 on N. E., R 49 W, S. 30 on S. E., S. 25 on S. W and S. 24 on N. W. faces, with 2 notches on S. and 4 notches on W. edges; dug pits, 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high, 4½ ft. base around post.

from which

A Pine 20 ins. diam. bears W. 70° S., 25 lks. dist. marked T. 31 N, R. 49 W, S., 19 B. T.

E. B. T. 31 N. R. 50 W. 6th P. M.

Chains.

Land mountainous
Soil 3rd rate.
Timber of Pine
Vegetation Bunch grass.

North on a true line between sections 19 and 24.

Va. 15° 15' East.

5.00 Cross Ravine, Course. N. W.

30.00 Cross Ravine, Course. N. W. and ascend.

38.00 Top of Ridge, bears E. and W. and descend.

40.00 Set a post 3 ft. long, 3 ins. diam.
12 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of post 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base around post.

51.00 Cross Canon, lks. wide, Course W. and ascend.

61.00 Top of Ridge, bears E. and W. and descend.

76.00 Lean Pine timber, bears E. and W.

80.00 Set a post 4 ft. long, 4 ins. square,
12 ins. in the ground, for Cor. to Secs. 13, 18, 19 & 24, marked T. 31 N, S. 18 on N. E., R. 49 W, S. 19 on S. E., S. 24 on S. W and S. 13 on N. W. faces,

E. B. T. 31 N. R. 50 W. 6th P. M.

Chains.

with 3 notches on N. and S. edges, dug pits, 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high, 4½ ft. base around post.

Land mountainous
Soil 2nd rate.
Timber of Pine.
Vegetation of Bunchgrass.

North on a true line between sections 13 and 18.
Va. 15° 15' East.

Descend.

40.00 Set a post 3 ft. long, 3 ins. diam.
12 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of post 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base around post.

57.00 Top of N. W. slope and descend.

80.00 Set a Sand stone 18 x 12 x 6 ins. 12 ins. in the ground for Cor. to Secs. 7, 12, 13 and 18, marked with 4 notch es on S. and 2 notches on N. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high 4½ ft. base.

E. B. T. 31 N. R. 50 W. 6th P. M.

Chains.

Land mountainous
Soil 3rd rate.
Timber of Pine.
Vegetation of Bunchgrass.

North on a true line between sections 7 and 12.
Va. 15° 15' East.

10.00 Cross Ravine, Course. N. E. at foot of W. slope of Ridge and ascend.

25.00 Top of Spur, bears N. E. and S. W. and descend.

40.00 Set a post 3 ft. long, 3 ins. diam.
12 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of post 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base around post.

41.00 Cross Ravine, Course. N. E. and ascend.

55.00 Top of Ridge, bears N. E. and S. W. and descend.

72.00 Cross Trunk Butte Creek, 15 lks. wide, Course N. W. and ascend.

80.00 Set a post 4 ft. long, 4 ins. square,
12 ins. in the ground, for Cor. to Secs. 1, 6, 7 & 12, marked T. 31 N., S. 6, on N. E., R. 49 W., S. 7 on S. E., S. 12 on S. W. and S. 1 on N. W. faces,

E. B. T. 31 N. R. 50 W. 6th P. M.

Chains.

with 5 notch es on S. and 1 notch on N. edges; dug pits, 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high, 4½ ft. base around post.

Land mountainous

Soil 3rd rate.

Timber of

Vegetation of Bunchgrass.

North on a true line between sections 1 and 6,

Va. 15° 15' East.

40.00 Set a post 3 ft. long, 3 ins. diam. 12 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of post 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base around post.

80.00 Set a post, 4½ ft. long, 4 ins. square, 12 ins. in the ground, for Cor. to Tps. 31 and 32 N, R's 49 and 50 W, marked T. 32 N, S. 31 on N. E. R. 49 W S. 6 on S. E. T. 31 N, S. 1 on S. W. and R. 50 W, S. 36 on N. W. faces, with 6 nothes on each edge, dug pits 24 x 18 x 12 ins., lengthwise on each line, N. S. E. and W. of post, 6 ft. dist. and raised a mound of earth 2½ ft. high, 5 ft. base around post.

E. B. T. 31 N. R. 50 W. 6th P. M.

Chains.

ft. high, 5 ft. base around post.

Land rolling.

Soil 3rd rate.

Vegetation of Bunchgrass.

May 10th 1882.

N. B. T. 31 N. R. 49 W. 6th P. M.

Chains.

Before proceeding further with the exteriors of this Tp., I made a change of 5 minutes in the latitude arc of my solar compass by adding same to the reading previously given, and at noon verified and corrected same by observation on the sun. I also further tested instrument by reversing.

I took the latitude and found it to be 42° 41' N.,

From the Cor. to Tps. 31 & 32 N., Rs. 49 . & 50 W.,

I run East. on a random line on N. B. of Tp.

Va. 15° 15' East.

I set temporary corners at every half mile, and at 6 miles 2.00 chs. I arrive at a point 100 lks. South of Cor. to Tps, 31 & 32 N., Rs. 48 & 49 W. from which corner I run S. 89° 53' W. on a true line between sections 1 & 36,

Va. 15° 10' East.

Enter heavy Pine timber.

39.00 Head of Ravine, Course S. and ascend

40.00 Set a Sand stone 16 x 14 x 8 ins., 11 ins. in the ground, for ¼ Sec. Cor., marked ¼ on N. face, dug pits, 18 x 18 x 12 ins., N. and S. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.

N. B. T. 31 N. R. 49 W. 6th P. M.

Chains.

43.00 Cross Ravine, Course. S. E. and ascend.

55.00 Top of Spur, bears N. W. and S. E. and descend.

74.00 Cross Ravine, Course. S. E.

80.00 Set a post 4 ft. long, 4 ins. square, 12 ins. in the ground, for Cor. to Secs. 1, 2, 35 & 36, marked T. 32 N., S. 36, on N. E., R 49 W., S. 1 on S. E., S. 2 on S. W and S. 35 on N. W. faces, with 5 notches on W. and 1 notch on E. edges; dug pits, 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high, 4½ ft. base around post.

from which

A Pine 16 ins. diam. bears S. 50° E., 83 lks. dist.
Marked T. 31 N., R. 49 W., S. 2 B. T.

Land mountainous

Soil 3rd rate.

Timber of Pine.

Vegetation of Bunchgrass.

M. B. T. 31 N. R. 49 W. 6th P. M.

Chains.

S. 89° 53' W. on a true line between sections 2 and 35.

Va. 15° 00' East.

17.50 Cross Ravine, Course. S. E. and ascend.

23.00 Lean Pine timber bears S. E. on N. W.

25.00 Top of Divide, bears N. and S. and descend.

27.00 Enter Pine timber, bears S. E. on N. W.

35.00 Head of Ravine, Course N. W. and ascend

38.00 Lean Pine timber, bears S. E. on N. W.

40.00 Set a post 3 ft. long, 3 ins. diam. 12 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. on N. face, dug pits, 18 x 18 x 12 ins., N. and S. of post 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base around post.

58.00 Top of Spur, bears N. and S. and descend.

73.00 Head of Ravine, Course N. W. and ascend

Pine timber along Ravine on ascent.

80.00 Set a post 4 ft. long, 4 ins. square, 12 ins. in the ground, for Cor. to Secs. 2, 3, 34 & 35, marked T. 32 N., S. 35, on N. E., R. 49 W., S. 2 on S. E., S. 3 on S. W. and S. 34 on N. W. faces, with 4 notches on W. and 2 notches on E. edges; dug pits, 18 x 18 x 12 ins. in each Sec., 5½ ft. dist.,

M. B. T. 31 N. R. 49 W. 6th P. M.

Chains.

and raised a mound of earth 2 ft. high, 4½ ft. base around post.

Land mountainous
Soil 3rd rate.
Timber of Pine.
Vegetation of Bunchgrass.

S. 89° 53' W. on a true line between sections 3 & 34.

Va. 14° 45' East.

3.00 Enter Pine timber, bears N. and S.

4.00 Cross Ravine, Course. N. W. and ascend.

10.00 Top of Spur, bears N. and S. and descend.

17.00 Cross Canon, 1½ wide, Course N. and ascend.

25.00 Top of Divide, bears N. and S. ~~and~~

40.00 Set a post 3 ft. long, 3 ins. diam. 12 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. on N. face, dug pits, 18 x 18 x 12 ins., N. and S. of post 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base around post.

45.00 Descend.

50.00 Bottom of Ridge, bears N. and S.

M. B. T. 31 N. R. 49 W. 6th P. M.

Chains.

68.00 Descend North west slope of Bluffs.

75.00 Leave heavy growth of Pine timber, bears N. and S.

80.00 **Set a post 4 ft. long, 4 ins. square,**
12 ins. in the ground, for Cor. to Secs. 3, 4, 33 & 34, marked T. 32 N, S. 34 on N. E., R 49 W, S. 3 on S. E., S 4 on S. W and S. 33 on N. W. face, with 3 notches on W and 3 notches on E. edges; dug pits, 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high, 4½ ft. base around post.

Land mountainous
Soil 3rd rate.
Timber of Pine.
Vegetation of Bunchgrass.

M. B. T. 31 N. R. 49 W. 6th P. M.

Chains.

S. 89° 53' W. on a true line between sections 4 & 33.

Va. 14° 45' East.

9.50 Cross Ravine, Course. N. W.

17.50 Cross Ravine, Course. N. E.

30.00 Leave scattering Pine timber.

39.00 Ascend. E. slope of Clay Butte.

40.00 **Set a post 3 ft. long, 3 ins. diam.**
12 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. on N. face, dug pits, 18 x 18 x 12 ins., N. and S. of post 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base around post.

56.00 Top of Clay Butte and descend.

70.00 Enter rolling prairie, bears N. & S.

80.00 **Set a post 4 ft. long, 4 ins. square,**
12 ins. in the ground, for Cor. to Secs. 4, 5, 32 & 33, marked T. 32 N, S. 33 on N. E., R 49 W, S. 4 on S. E., S 5 on S. W and S. 32 on N. W. face, with 2 notches on W and 4 notches on E. edges; dug pits, 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high, 4½ ft. base around post.
Land mountainous. Timber of Pine.
Soil 3rd rate
Vegetation Bunchgrass.

M. B. T. 31 N. R. 49 W. 6th P. M.

Chains.

S. 89° 53' W. on a true line between sections 5 and 32.

Va. 15° 00' East.

23.00 Cross Dead horse Creek, 10 lks. wide, Course W. and ascend.

40.00 Set a S and stone 14 x 10 x 4 ins., 9 ins. in the ground, for ¼ Sec. Cor., marked ¼ on N. face, dug pits, 18 x 18 x 12 ins., N. and E. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.

43.00 Cross Road, bears, N. E. and S. W.

80.00 Set a post 4 ft. long, 4 ins. square, 12 ins. in the ground, for Cor. to Secs. 5, 6, 31 & 32, marked T. 32 N., S. 32, on N. E., R. 49 W., S. 5 on S. E., S. 6 on S. W. and S. 31 on N. W. faces, with 1 notch on N. and 5 notches on E. edges; dug pits, 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high, 4½ ft. base around post.

Land rolling.

Soil 3rd rate

Vegetation of Bunchgrass.

M. B. T. 31 N. R. 49 W. 6th P. M.

Chains.

S. 89° 53' W. on a true line between sections 6 and 31.

Va. 15° 15' East.

10.00 Cross Ravine, Course. N. W.

16.00 Cross Ravine, Course. N. E.

40.00 Set a post 3 ft. long, 3 ins. diam. 12 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. on N. face, dug pits, 18 x 18 x 12 ins., N. and S. of post 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base around post.

48.00 Cross Ravine, Course. N.

68.00 Cross Ravine, Course. N. E.

82.00 The Cor. to Tps. 31 & 32 N. Rs. 49 & 50 W.

Land rolling.

Soil 3rd rate

Vegetation of Bunchgrass.

May 11th 1882.

E. B. T. 32 N. R. 50 W. 6th P. M.

Chains.

North on a true line between sections 31 and 36.

Va. 15° 15' East.

20.00 Dry Cross Creek, 1½ wide, Course N. E.

40.00 Set a post 3 ft. long, 3 ins. diam.
12 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. on N. face, dug pits, 18 x 18 x 12 ins., E. and W. of post 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base around post.

44.00 Dry Cross Creek, 1½ wide, Course N. W.

52.00 Cross Ravine, Course. N.

66.00 Cross Ravine, Course. N. W.

80.00 Set a post 4 ft. long, 4 ins. square,
12 ins. in the ground, for Cor. to Secs. 25, 30, 31 & 36, marked T. 32 N, S. 30 on N. E., R. 49 W, S. 31 on S. E., S. 36 on S. W and S. 25 on N. W. faces, with 1 notch on S. and 5 notches on N. edges; dug pits, 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high, 4½ ft. base around post.

Land rolling.

Soil 3rd rate

Vegetation of Bunchgrass.

E. B. T. 32 N. R. 50 W. 6th P. M.

Chains.

North on a true line between sections 25 and 30

Va. 15° 15' East.

37.00 Cross Ravine, Course. N. E.

40.00 Set a post 3 ft. long, 3 ins. diam.
12 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. on N. face, dug pits, 18 x 18 x 12 ins., E. and W. of post 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base around post.

54.00 Dry Cross Creek, 1½ wide, Course N. W.

64.00 Dry Cross Creek, 1½ wide, Course N. E.

80.00 Set a post 4 ft. long, 4 ins. square,
12 ins. in the ground, for Cor. to Secs. 19, 24, 25 & 30, marked T. 32 N, S. 19 on N. E., R. 49 W, S. 30 on S. E., S. 25 on S. W and S. 24 on N. W. faces, with 2 notches on S. and 4 notches on N. edges; dug pits, 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high, 4½ ft. base around post.

Land rolling.

Soil 3rd rate

Vegetation of Bunchgrass.

Timber of Cottonwood.

E. B. T. 32 N. R. 50 W. 6th P. M.

Chains.

North on a true line between sections 19 and 24.

Va. 18° 15' East.

40.00 Set a post 3 ft. long, 3 ins. diam.
12 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. on N. face, dug pits, 18 x 18 x 12 ins., E. and W. of post 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base around post.

60.00 Cross Creek, ~~1 ks. wide,~~ Course N. W.

80.00 Set a post 4 ft. long, 4 ins. square,
12 ins. in the ground, for Cor. to Secs. 13, 18, 19 & 24, marked T. 32 N, S. 18, on N. E., R 49 W, S. 19 on S. E., S. 24 on S. W. and S. 13 on N. W. faces, with 3 notches on S. and 3 notches on W. edges; dug pits, 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high, 4½ ft. base around post.
Land rolling.

Soil 3rd rate

Vegetation of Bunchgrass.

E. B. T. 32 N. R. 50 W. 6th P. M.

Chains.

North on a true line between sections 13 and 18.

Va. 18° 15' East.

40.00 Set a post 3 ft. long, 3 ins. diam.
12 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. on N. face, dug pits, 18 x 18 x 12 ins., E. and W. of post 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base around post.

80.00 Set a post 4 ft. long, 4 ins. square,
12 ins. in the ground, for Cor. to Secs. 7, 12, 13 & 18, marked T. 32 N, S. 7, on N. E., R 49 W, S. 18 on S. E., S. 13 on S. W. and S. 12 on N. W. faces, with 11 notches on S. and 2 notches on W. edges; dug pits, 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high, 4½ ft. base around post.
Land rolling.

Soil 3rd rate

Vegetation of Bunchgrass.

E. B. T. 32 N. R. 50 W. 6th P. M.

Chains.

North on a true line between sections 7 and 12.

Va. 15° 15' East.

13.00 Pine Ridge and Fort Robinson telegraph line, bears E. and W.

15.00 Wagon road, from Pine Ridge Agency to Fort Robinson, bears E. and W.

40.00 Set a post 3 ft. long, 3 ins. diam.
12 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of post 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base around post.

80.00 Set a post 4 ft. long, 4 ins. square,
12 ins. in the ground, for Cor. to Secs. 1, 6, 7 and 12, marked T. 32 N, S. 6, on N. E., R. 49 W, S. 7 on S. E.. S. 12 on S. W. and S. 1 on N. W. faces, with 5 notches on S. and 1 notch on N. edges; dug pits, 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high, 4½ ft. base around post.

Land rolling.
Soil 3rd rate
Vegetation of Bunchgrass.

E. B. T. 32 N. R. 50 W. 6th P. M.

North on a true line between sections 1 and 6.

Va. 15° 15' East.

0.00 Set a post 3 ft. long, 3 ins. diam.
12 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of post 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base around post.

8.60 Intersect the 8th Standard Parallel North at a point 1.62 chs. East. of the Standard Cor. to Secs. 31 and 32. T. 33 N., R. 49 W. at which point I.
Set a post, 4 ft. long, 4 ins. square, 12 ins. in the ground, for Closing Cor. to Tps. 32 N. and Rs. 49 & 50 W. marked C. C. T. 32 N. on S., R. 49 W. on S. 6 E. R. 50 W. and S. 1 on W. faces, with 6 notches on ~~and notch~~ on each faces, dug pits 18 x 18 x 12 ins. S., E. & W. of post, 5½ ft. dist. and raised a mound of earth 2 ft. high, 4½ ft. base around post.

Land rolling.
Soil 2nd rate
Vegetation of Bunchgrass.

I carefully examined the adjustments of my solar compass to-day, particularly the latitude and reversing apparatus, and found them correct.

May 12th 1882

E. B. T. 31 N. R. 51 W. 6th P. M.

Chains.	
	Before proceeding further with the exteriors of this Tp., I made a change of 5 minutes in the latitude arc of my solar compass by subtracting same from the reading previously given, and at noon verified and corrected same by observation on the sun. I also further tested instrument by reversing.
	From the Cor. to Tps. 30 & 31 N. Rs. 50 & 51 W, I run,
	North on a true line between sections 31 and 36.
	Va. 15° 45' East.
20.00	Lean rolling prairie and enter Pine timber, bears S. W. and N. E.
26.00	Cross Ravine, Course. N. W.
40.00	Set a post 3 ft. long, 3 ins. diam. 12 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of post 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base around post.
45.00	Ascend. along S. E. slope of Ridge, bears N. and W.
68.00	Perpendicular Cliff, 175 ft. high, bears N. and S.
76.00	Foot of Spur, bears E. and W. and

E. B. T. 31 N. R. 51 W. 6th P. M.

Chains.	
	Cross Ash Creek, 10 lks. wide, Course N. W.
80.00	A Pine 10 ins. diam. which I marked T. 31 N, S. 30, on N. E. R. 50 W. S. 31 on S. E. S. 36, on S. W. and S. 25 on N. W. faces, with 1 notch on S. and 5 notches on W. edges, dug pits 18 x 18 x 12 ins. in each sec. 5½ ft. dist. and raised a mound of earth around tree, for cor. to secs. 25, 30, 31 and 36.
	Land mountainous 35.00 chs. and 45.00 chs. Rolling.
	Soil 3rd rate.
	Timber of Pine.
	Vegetation of Bunchgrass.

E. B. T. 31 N. R. 51 W. 6th P. M.

Chains.

North on a true line between sections 25 and 30.

Va. 15° 45' East.

Ascend.

5.00 Top of Spur, bears E. and W.

8.00 Descend.

18.00 Cross Ravine, Course. N. W. and ascend.

29.00 Top of Spur, bears E. and N. E. and descend.

34.00 Cross Canon, ~~1½ wide~~, Course N. and ascend.

40.00 Set a post 3 ft. long, 3 ins. diam. 12 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of post 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base around post.

50.00 Top of Spur, bears E. and N. E. and descend.

80.00 Set a post 4 ft. long, 4 ins. square, 12 ins. in the ground, for Cor. to Secs. 19, 24, 25 & 30, marked T. 31 N., S. 19, on N. E., R 50 W., S. 30 on S. E., S. 25 on S. W and S. 24 on N. W. faces, with 2 notches on S. and 4 notches on N. edges; dug pits, 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high, 4½ ft. base around post.

E. B. T. 31 N. R. 51 W. 6th P. M.

Chains.

Land mountainous
Soil 3rd rate.
Timber of Pine.
Vegetation of Bunchgrass.

North on a true line between sections 19 and 24.

Va. 15° 45' East.

6.00 Cross Ravine, Course. N. W.

22.00 Cross Ravine, Course. N. W.

30.00 Cross Ravine, Course. N. and ascend.

36.00 Top of Spur, bears N. and S. ~~and descend.~~

40.00 Set a post 3 ft. long, 3 ins. diam. 12 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of post 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base around post.

51.00 Descend. Spur, bears N. and S.

62.00 Cross Ravine, Course. N. W.

64.00 Descend. N. slope.

75.00 Cross Ravine, Course. N. and ascend. Ridge, bears E. and W.

E. B. T. 31 N. R. 5 W. 6th P. M.

Chains.	
80.00	Set a post 4 ft. long, 4 ins. square, 12 ins. in the ground, for Cor. to Secs. 13, 18, 19 & 24, marked T. 31 N, S. 18, on N. E., R. 5 W, S. 19 on S. E., S. 24 on S. W. and S. 13 on N. W. face, with 3 notches on S. and 3 notches on W. edges; dug pits, 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high, 4½ ft. base around post.
	Land mountainous
	Soil 3rd rate.
	Timber of Pine.
	Vegetation of Bunchgrass.
	North on a true line between sections 13 and 18.
	Va. 15° 45' East.
8.00	Top of Ridge, bears N. and S. and descend.
15.00	Large Pine timber bears E. and W.
110.00	Set a post 3 ft. long, 3 ins. diam. 12 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of post 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base around post.

E. B. T. 31 N. R. 5 W. 6th P. M.

Chains.	
80.00	Set a post 4 ft. long, 4 ins. square, 12 ins. in the ground, for Cor. to Secs. 7, 12, 13 & 18, marked T. 31 N, S. 7, on N. E., R. 5 W, S. 18 on S. E., S. 13 on S. W. and S. 12 on N. W. face, with 4 notches on S. and 2 notches on W. edges; dug pits, 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high, 4½ ft. base around post.
	Land Rolling.
	Soil 3rd rate.
	Timber of Pine.
	Vegetation of Bunchgrass.
	North on a true line between sections 7 and 12.
	Va. 15° 45' East.
110.00	Set a post 3 ft. long, 3 ins. diam. 12 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of post 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base around post.
65.00	Cross Ravine, Course. N. W.
80.00	Set a post 4 ft. long, 4 ins. square, 12 ins. in the ground, for Cor. to Secs. 1, 6, 7 & 12, marked T. 31 N, S. 6, on N. E., R. 5 W. S. 7

E. B. T. 31 N. R. 51 W. 6th P. M.

Chains. Chains.

on S. E. S. 12 on S. W and S. 1 on N. W. faces, with 5 notch es on S. and 1 notch on E. edges; dug pits, 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high, 4½ ft. base around post.

Land rolling.

Soil 3rd rate

Vegetation of Bunchgrass.

North on a true line between sections 1 and 6.

Va. 18° 45′ East.

3	19.00	Cross Ravine, Course. N. E.
	27.00	Cross Ravine, Course. N. E.
	40.00	Set a post 3 ft. long, 3 ins. diam. 12 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. on N. face, dug pits, 18 x 18 x 12 ins., E. and W. of post 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base around post.
	80.00	Set a post, 4½ ft. long, 4 ins. square, 12 ins. in the ground, for Cor. to Tps. 31 and 32 N, R's 50 and 51 W, marked T. 32 N, S. 31 on N. E. R. 50 W S. 6 on S. E. T. 31 N, S. 1 on S. W. and R. 51 W S. 36 on N. W. faces, with 6 nothes on each edge, dug pits

E. B. T. 31 N. R. 51 W. 6th P. M.

Chains.

24 x 18 x 12 ins., lengthwise on each line, N. S. E. and W. of post, 6 ft. dist. and raised a mound of earth 2½ ft. high, 5 ft. base around post.

Land rolling.

Soil 3rd rate

Vegetation of Bunchgrass.

May 13th 1882.

N. B. T. 31 N. R. 50 W. 6th P. M.

Chains.

Before proceeding further with the exteriors of this Tp., I made a change of 5 minutes in the latitude arc of my solar compass by adding same to the reading previously given, and at noon verified and corrected same by observation on the sun. I also further tested instrument by reversing.

From the Cor. to Tps. 31 & 32 N., Rs. 50 . & 51 W., I run East on a random line on N. B. of Tp.

Va. 15° 45' East.

I set temporary corners at every half mile, and at 6 miles 2.45 chs. I arrive at a point 20 lks. South of Cor. to Tps, 31 & 32 N., Rs. 49 & 50 W., from which corner I run S. 89° 59' W. on a true line between sections 1 & 36.

Va. 15° 15' East.

37.00 Cross Trunk Bulle Creek, 15 lks. wide, Course N.

40.00 Set a post 3 ft. long, 3 ins. diam.
12 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. on N. face, dug pits, 18 x 18 x 12 ins., N. and S. of post 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base around post.

61.00 Cross Ravine, Course. N. W.

N. B. T. 31 N. R. 50 W. 6th P. M.

Chains.

80.00 Set a post 4 ft. long, 4 ins. square,
12 ins. in the ground, for Cor. to Secs. 1, 2, 35 & 36, marked T. 32 N. S. 36, on N. E., R 50 W, S. 1 on S. E., S. 2 on S. W and S. 35 on N. W. faces, with 5 notches on N and 1 notch on E. edges; dug pits, 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high, 4½ ft. base around post.

Land rolling.
Soil 3rd rate
Vegetation of Bunchgrass.

S. 89° 59' W. on a true line between sections 2 and 35.

Va. 15° 20' East.

40.00 Set a post 3 ft. long, 3 ins. diam.
12 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. on N. face, dug pits, 18 x 18 x 12 ins., N. and S. of post 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base around post.

62.00 Cross Dry Creek, ~~lks. wide~~, Course N. E.

80.00 Set a post 4 ft. long, 4 ins. square,
12 ins. in the ground, for Cor. to Secs. 2, 3, 34 & 35, marked T. 32 N. S. 35, on N. E., R. 50 W, S. 2

M. B. T. 31 N. R. 50 W. 6th P. M.

Chains.	
	on S. E. S. 3 on S. W and S. 34 on N. W. face, with 4 notch 80 on W. and 2 notch 20 on E. edges; dug pits, 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high, 4½ ft. base around post.
	Land rolling.
	Soil 3rd rate
	Vegetation of Bunchgrass and Sagebrush.
	S. 89°59' W. on a true line between sections 3 and 34.
	Va. 15°45' East.
40.00	Set a post 3 ft. long, 3 ins. diam. 12 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. on W. face, dug pits, 18 x 18 x 12 ins., W. and S. of post 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base around post.
46.00	Cross East Creek, 1 lks. wide, Course W.
78.00	Cross Indian Creek, 20 lks. wide, Course W.
80.00	Set a post 4 ft. long, 4 ins. square, 12 ins. in the ground, for Cor. to Secs. 3, 4, 33 & 34, marked T. 32 N., S. 34, on N. E., R. 50 W., S. 3 on S. E. S. 4 on S. W. and S. 33 on N. W. face, with 3 notch 80 on W. and 3 notch 20 on E. edges;

M. B. T. 31 N. R. 50 W. 6th P. M.

Chains.	
	dug pits, 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high, 4½ ft. base around post.
	Land rolling.
	Soil 2nd rate
	Vegetation of Bunchgrass.
	S. 89°59' W. on a true line between sections 4 and 33.
	Va. 15°50' East.
18.00	Ascend. Ridge, bears N. and S.
36.00	Top of Ridge, bears N. and S. and descend.
40.00	Set a post 3 ft. long, 3 ins. diam. 12 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. on N. face, dug pits, 18 x 18 x 12 ins., N. and S. of post 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base around post.
45.00	Foot of Ridge, bears N. and S.
71.00	Cross Spring Creek, 2 lks. wide, Course N.
80.00	Set a post 4 ft. long, 4 ins. square, 12 ins. in the ground, for Cor. to Secs. 4, 5, 32 & 33, marked T. 32 N., S. 33, on N. E., R. 50 W., S. 4 on S. E. S. 5 on S. W. and S. 32 on N. W. face,

Chains.

with 2 notches on W and 4 notches on E. edges; dug pits, 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high, 4½ ft. base around post.

Land rolling.

Soil 2nd rate

Vegetation of Bunchgrass.

S. 89° 59' W. on a true line between sections 5 and 32.

Va. 15° 40' East.

40.00 Set a post 3 ft. long, 3 ins. diam.

12 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. on W. face, dug pits, 18 x 18 x 12 ins., W. and S. of post 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base around post.

41.50 Cross Road, bears, N. W. and S. E.

59.50 Cross Creek, 6 lks. wide, Course N. W.

80.00 Set a post 4 ft. long, 4 ins. square,

12 ins. in the ground, for Cor. to Secs. 5, 6, 31 & 32, marked T. 32 N. S. 32, on N. E., R. 50 W., S. 6 on S. E., S. 6 on S. W. and S. 31 on N. W. faces, with 1 notch on N and 5 notches on E. edges; dug pits, 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high, 4½ ft. base around post.

Chains.

Land rolling.

Soil 2nd rate

Vegetation of Bunchgrass.

S. 89° 59' W. on a true line between sections 6 and 31.

Va. 15° 45' East.

1.50 Cross Road, bears, N. and S.

40.00 Set a post 3 ft. long, 3 ins. diam.

12 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. on W. face, dug pits, 18 x 18 x 12 ins., W. and S. of post 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base around post.

75.00 Cross Creek, lks. wide, Course N. W.

82.45 The Cor. to Tps. 31 & 32 N. Rs. 50 & 51 W.

Land rolling.

Soil 2nd rate

Vegetation of Bunchgrass.

E. B. T. 32 N. R. 51 W. 6th P. M.

Chains.	
	North on a true line between sections 31 and 36.
	Va. 15° 45' East.
34.00	Cross Road, bears, E. and W.
37.00	Cross Creek, lks. wide, Course N. E.
40.00	Set a post 3 ft. long, 3 ins. diam. 12 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of post 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base around post.
43.00	Cross Creek, lks. wide, Course N. W.
80.00	Set a post 4 ft. long, 4 ins. square, 12 ins. in the ground, for Cor. to Secs. 25, 30, 31 & 36, marked T. 32 N, S. 30 on N. E., R. 50 W, S. 31 on S. E., S. 36 on S. W. and S. 25 on N. W. faces, with 1 notch on S. and 3 notches on W. edges; dug pits, 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high, 4½ ft. base around post.
	Land rolling.
	Soil 2nd rate
	Vegetation of Bunchgrass.

E. B. T. 32 N. R. 51 W. 6th P. M.

Chains.	
	North on a true line between sections 25 and 30.
	Va. 15° 45' East.
7.50	Cross Road, bears, E. and W.
40.00	Set a post 3 ft. long, 3 ins. diam. 12 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of post 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base around post.
53.00	Telegraph line from Fort Robinson to Pine Ridge Agency, bears E. and W.
67.50	Cross Russell's wire fence, bears S. E. and N. W.
79.95	Cross Russell's wire fence, bears S. W. and N. E.
80.00	Set a post 4 ft. long, 4 ins. square, 12 ins. in the ground, for Cor. to Secs. 19, 24, 25 & 30, marked T. 32 N, S. 19 on N. E., R. 50 W, S. 30 on S. E., S. 25 on S. W. and S. 24 on N. W. faces, with 2 notches on S. and 4 notches on W. edges; dug pits, 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high, 4½ ft. base around post.
	Land rolling.
	Soil 2nd rate
	Vegetation of Bunchgrass.

E. B. T. 32 N. R. 51 W. 6th P. M.

Chains.

North on a true line between sections 19 and 24.

Va. 15°45' East.

2.50 Cross road, from Fort Robinson to Pine Ridge Agency, course N.E. and S.W.

24.00 Cross Ash Creek, 5 lks. wide, Course N.W.

30.00 Cross East Ash Creek, 5 lks. wide, Course N.E.

32.00 Cross East Ash Creek, 5 lks. wide, Course N.W.

40.00 Set a post 3 ft. long, 3 ins. diam.
12 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of post 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base around post.

53.00 Cross East Ash Creek, 10 lks. wide, Course N.E.

58.00 Cross East Ash Creek, 5 lks. wide, Course N.W.

80.00 Set a post 4 ft. long, 4 ins. square,
12 ins. in the ground, for Cor. to Secs. 13, 18, 19 & 24, marked T. 32 N, S. 18, on N. E., R. 50 W, S. 19 on S. E., S. 24 on S. W. and S. 13 on N. W. faces, with 3 notches on S. and 3 notches on W. edges; dug pits, 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high, 4½ ft. base around post.

E. B. T. 32 N. R. 51 W. 6th P. M.

Chains.

Land rolling.
Soil 2nd rate
Vegetation of Bunchgrass.

North on a true line between sections 13 and 18.

Va. 15°45' East.

7.00 Cross Ravine, Course. N.W.

40.00 Set a post 3 ft. long, 3 ins. diam.
12 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of post 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base around post.

80.00 Set a post 4 ft. long, 4 ins. square,
12 ins. in the ground, for Cor. to Secs. 7, 12, 13 & 18, marked T. 32 N, S. 7, on N. E., R. 50 W, S. 18 on S. E., S. 13 on S. W. and S. 12 on N. W. faces, with 4 notches on S. and 2 notches on E. edges; dug pits, 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high, 4½ ft. base around post.

Land rolling.
Soil 2nd rate
Vegetation of Bunchgrass.

E. B. T. 32 N. R. 51 W. 6th P. M.

Chains.

North on a true line between sections 7 and 12

Va. 15° 45' East.

40.00 Set a post 3 ft. long, 3 ins. diam.
12 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of post 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base around post.

60.50 Cross ash Creek, 20 lks. wide, Course N. E.

80.00 Set a post 4 ft. long, 4 ins. square,
12 ins. in the ground, for Cor. to Secs. 1, 6, 7 & 12, marked T. 32 N., S. 6, on N. E., R. 50 W., S. 7 on S. E., S. 12 on S. W. and S. 1 on N. W. faces, with 5 notches on S. and 1 notch on ~~W~~ edges; dug pits, 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high, 4½ ft. base around post.
Land rolling.
Soil 2nd rate
Vegetation of Bunchgrass.

E. B. T. 32 N. R. 51 W. 6th P. M.

Chains.

North on a true line between sections 1 and 6.

Va. 15° 45' East.

13.50 Cross ash Creek, 5 lks. wide, Course N. W.

21.50 Cross ash Creek, 10 lks. wide, Course N. E.

34.00 Cross White River, 130 lks. wide, Course N. E.

40.00 Set a post 3 ft. long, 3 ins. diam.
12 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of post 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base around post.

80.73 Intersect the 8th Standard Parallel North at a point 0.09 chs. East. of the Standard Cor. to Secs. 31 and 32. T. 33 N. R. 50 W. at which point I.
Set a post, 4 ft. long, 4 ins. square, 12 ins. in the ground, for Closing Cor. to Tps. 32 N. Rs. 50 & 51 W., ~~and~~ marked
C. C. T. 32 N. on E. R. 50 ~~W~~ S. 6, on E. ~~S.~~ R. 51 W. ~~on~~ ~~and~~ S. 1 on W. faces, with 6 notches ~~on~~ S. E. & W. edges, ~~and~~ ~~notch~~ ~~on~~ ~~faces~~, dug pits 18 x 18 x 12 ins. S., E. & W. of post, 5½ ft. dist. and raised a mound of earth 2 ft. high, 4½ ft. base around post.

Land rolling.
Soil 2nd rate
Vegetation of Bunchgrass. May 15th 1882.

E. B. T. 31 N. R. 52 W. 6th P. M.

Chains.

Before proceeding further with the exteriors of this Tp. I made a change of 5 minutes in the latitude arc of my solar compass by subtracting same from the reading previously given, and at noon verified and corrected same by observation on the sun. I also further tested instrument by reversing.

From the Cor. to Tps. 30 & 31 N., Rs. 51 & 52 W., I run

North on a true line between sections 31 and 36.

Va. 15° 40' East.

40.00 Set a Sand stone 14 x 12 x 4 ins., 9 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.

80.00 Set a Sand stone 20 x 16 x 4 ins. 15 ins. in the ground for Cor. to Secs. 25, 30, 31 & 36, marked with 1 notch on S. and 5 notches on N. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high 4½ ft. base.

Land rolling.

Soil 2nd rate

Vegetation of Bunchgrass.

E. B. T. 31 N. R. 52 W. 6th P. M.

Chains.

North on a true line between sections 25 and 30

Va. 15° 45' East.

28.00 Cross Road, bears, E. and W.

35.00 Cross Ravine, Course. N. W.

40.00 Set a post 3 ft. long, 3 ins. diam. 12 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of post 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base around post.

About 10.00 chs. N. 50° W. from this point, is a spring of water, running out of a solid ledge of rock.

80.00 Set a Sand stone 18 x 16 x 3 ins. 12 ins. in the ground for Cor. to Secs. 19, 24, 25 & 30, marked with 2 notches on S. and 4 notches on W. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high 4½ ft. base.

Land rolling.

Soil 2nd rate

Vegetation of Bunchgrass.

E. B. T. 31 N. R. 52 W. 6th P. M.

Chains.

North on a true line between sections 19 and 24.

Va. 15° 45' East.

26.00 Cross Road, bears, E. and W.

40.00 Set a Sand stone 14 x 12 x 3 ins., 9 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.

63.00 Cross Road, bears, S. E. and N. W.

67.00 Cross Road, bears, S. E. and N. W.

80.00 Set a Sand stone 32 x 16 x 6 ins. 24 ins. in the ground for Cor. to Secs. 13, 18, 19 & 24, marked with 3 notches on S. and 3 notches on E. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high 4½ ft. base.

Land rolling.

Soil 2nd rate

Vegetation of Bunchgrass.

B. T. 31 N. R. 52 W. 6th P. M.

North on a true line between sections 13 and 18.

Va. 15° 45' East.

7.00

00 Cross fence to hay meadow, bears E. and W.

19.00

00 Marshy slough, 1.00 ch. wide. Head of Little White Clay Creek, runs N. W.

40.00

00 Set a Sand stone 14 x 12 x 6 ins., 9 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.

42.00

00 Cross meadow fence, bears S. E. and N. W.

54.00

00 Cross Road, bears, S. E. and N. W.

80.00

00 Set a Sand stone 26 x 16 x 6 ins. 20 ins. in the ground for Cor. to Secs. 7, 12, 13 & 18, marked with 4 notches on S. and 2 notches on W. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high 4½ ft. base.

Land rolling.

Soil 2nd rate

Vegetation of Bunchgrass.

E. B. T. 31 N. R. 52 W. 6th P. M.

Chains.

North on a true line between sections 7 and 12

Va. 15° 45' East.

1.00 Cross Road, bears, S. W. and N. E.

2.00 Cross Square Creek, 15 lks. wide, Course N. W.

13.00 Cross road from Fort Robinson to Pine Ridge agency, course E. and W.

15.00 Telegraph line from Fort Robinson to Pine Ridge agency, course E. and W.

40.00 Set a Sand stone 16 x 12 x 4 ins., 11 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits, 18 x 18 x 12 ins., W. and E. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.

80.00 Set a Sand stone 24 x 12 x 6 ins. 18 ins. in the ground for Cor. to Secs. 1, 6, 7 & 12, marked with 5 notches on S. and 1 notch on N. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high 4½ ft. base.

Land rolling.

Soil 2nd rate

Vegetation of Bunchgrass.

E. B. T. 31 N. R. 52 W. 6th P. M.

ains.

North on a true line between sections 1 and 6.

Va. 15° 45' East.

40.00 Set a Sand stone 16 x 14 x 3 ins., 11 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.

80.00 Set a Sand stone 24 x 20 x 10 ins. 18 ins. in the ground, for Cor. to Tps. 31 and 32 N. R's 51 and 52 W., marked with 6 notches on each edge, dug pits, 24 x 18 x 12 ins. lengthwise on each line, N. S. E. and W. of stone, 6 ft. dist., and raised a mound of earth 2½ ft. high, 5 ft. base.

Land rolling.

Soil 2nd rate

Vegetation of Bunchgrass.

May 16th 1882.

M. B. T. 31 N. R. 5 W. 6th P. M.

Chains.

Before proceeding further with the exteriors of this Tp., I made a change of 5 minutes in the latitude arc of my solar compass by adding same to the reading previously given, and at noon verified and corrected same by observation on the sun. I also further tested instrument by reversing.

From the Cor. to Tps. 31 & 32 N, Rs. 5 1 . & 5 2 W

I run East on a random line on N B. of Tp.

Va. 15° 45' East

I set temporary corners at every half mile, and at 5 miles 79.00 chs. I arrive at a point 140 lks. South of Cor. to Tps. 31 & 32 N, Rs. 5 0 & 5 1 W. from which corner I run S. 89° 50' W. on a true line between sections 1 & 36

Va. 15° 45' East

40.00 **Set a post 3 ft. long, 3 ins. diam.**
12 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. on N. face, dug pits, 18 x 18 x 12 ins., N. and S. of post 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base around post.

80.00 **Set a post 4 ft. long, 4 ins. square,**
12 ins. in the ground, for Cor. to Secs. 1, 2, 35 & 36, marked T. 32 N, S. 36 , on N. E., R. 5 1 W, S. 1 on S. E., S. 2 on S. W. and S. 35 on N. W. face,

M. B. T. 31 N. R. 5 W. 6th P. M.

Chains.

with 5 notches on W and 1 notch on E. edges; dug pits, 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high, 4½ ft. base around post.
Land rolling.
Soil 2nd rate
Vegetation of Bunchgrass.

S. 89° 50' W. on a true line between sections 2 and 35.

Va. 15° 45' East.

7.50 West Ash
Cross Creek, 10 lks. wide, Course N. E.

40.00 **Set a post 3 ft. long, 3 ins. diam.**
12 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. on N. face, dug pits, 18 x 18 x 12 ins., N. and S. of post 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base around post.

44.50 Russel's Meadow fence, Bears N. and S.

80.00 **Set a post 4 ft. long, 4 ins. square,**
12 ins. in the ground, for Cor. to Secs. 2, 3, 34 & 35, marked T. 32 N, S. 35 , on N. E., R. 5 1 W, S. 2 on S. E., S. 3 on S. W. and S. 34 on N. W. face, with 4 notches on W and 2 notches on E. edges; dug pits, 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high, 4½ ft. base around post.

M. B. T. 31 N. R. 51 W. 6th P. M.

Chains.	
	Land rolling.
	Soil 2nd *rate*
	Vegetation of Bunchgrass.
	S. 89° 50' W. on a true line between sections 3 and 34.
	Va. 15° 30'
27.00	Cross Ravine, Course. N. W.
40.00	**Set a post 3 ft. long, 3 ins. diam.** 12 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. on N. face, dug pits, 18 x 18 x 12 ins., N. and S. of post 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base around post.
41.00	Cross Road, bears, S. W. and N. E.
55.00	Telegraph line from Fort Robinson to Pine ridge agency, bears S. W. and N. E.
80.00	**Set a post 4 ft. long, 4 ins. square,** 12 ins. in the ground, for Cor. to Secs. 3, 4, 33 & 34, marked T. 32 N, S. 34, on N. E., R. 51 W, S. 3 on S. E., S. 4 on S. W. and S. 33 on N. W. faces, with 3 notches on N. and 3 notches on E. edges; dug pits, 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high, 4½ ft. base around post.

M. B. T. 31 N. R. 51 W. 6th P. M.

Chains.	
	Land rolling.
	Soil 2nd *rate*
	Vegetation of Bunchgrass.
	S. 89° 50' W. on a true line between sections 4 and 33.
	Va. 15° 40' East.
40.00	**Set a** Sand stone 14 x 12 x 6 ins., 9 ins. in the ground, for ¼ Sec. Cor., marked ¼ on N. face, dug pits, 18 x 18 x 12 ins., N. and S. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
61.00	Cross road from Fort Robinson to Pine Ridge agency, bears S. W. and N. E.
80.00	**Set a post 4 ft. long, 4 ins. square,** 12 ins. in the ground, for Cor. to Secs. 4, 5, 32 & 33, marked T. 32 N, S. 33, on N. E., R. 51 W, S. 4 on S. E., S. 5 on S. W. and S. 32 on N. W. faces, with 2 notches on N. and 4 notches on E. edges; dug pits, 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high, 4½ ft. base around post.
	Land rolling.
	Soil 2nd *rate*
	Vegetation of Bunchgrass.

M. B. T. 31 N. R. 51 W. 6th P. M.

Chains.	
	S. 89° 50' W. on a true line between sections 5 and 32. Va. 18° 30'
40.00	Set a post 3 ft. long, 3 ins. diam. 12 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. on W. face, dug pits, 18 x 18 x 12 ins., W. and S. of post 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base around post.
77.50	Cross Ravine, Course. W.
80.00	Set a post 4 ft. long, 4 ins. square, 12 ins. in the ground, for Cor. to Secs. 5, 6, 31 & 32, marked T. 32 N., S. 32, on N. E., R. 51 W., S. 5 on S. E., S. 6 on S. W. and S. 31 on N. W. faces, with 1 notch on N. and 5 notches on E. edges; dug pits, 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high, 4½ ft. base around post.
	Land rolling. Soil 2nd rate Vegetation of Bunchgrass.

M. B. T. 31 N. R. 51 W. 6th P. M.

Chains.	
	S. 89° 50' W. on a true line between sections 6 and 31 Va. 18° 40' East.
40.00	Set a Sand stone 16 x 12 x 4 ins., 11 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits, 18 x 18 x 12 ins., W. and S. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
42.50	Cross North Creek, 4 lks. wide, Course W.
67.00	Cross Road, bears, W. and S.
79.00	The Cor. to Tps. 31 & 32 N. Rs. 51 & 52 W.
	Land rolling. Soil 2nd rate Vegetation of Bunchgrass. May 17th 1882.

E. B. T. 32 N. R. 52 W. 6th P. M.

Chains.	
	North on a true line between sections 31 and 36.
	Va. 15° 45' East.
25.00	Cross Road, bears, S. E. and N. W.
40.00	Set a Sand stone 16 x 12 x 4 ins., 11 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
80.00	Set a Sand stone 20 x 10 x 4 ins. 15 ins. in the ground for Cor. to Secs. 25, 30, 31 and 36, marked with 1 notch on S. and 5 notches on W. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high 4½ ft. base.
	Land rolling.
	Soil 2nd rate
	Vegetation of Bunchgrass.

E. B. T. 32 N. R. 52 W. 6th P. M.

Chains.	
	North on a true line between sections 25 and 30.
	Va. 15° 45' East.
19.00	South side of marshy basin.
25.00	Water, 1.00 ch. wide in basin.
32.00	North side of marshy basin.
40.00	Set a post 3 ft. long, 3 ins. diam. 12 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of post 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base around post.
70.00	Cross Trail, bears N. E. and S. W.
80.00	Set a Sand stone 24 x 10 x 6 ins. 18 ins. in the ground for Cor. to Secs. 19, 24, 25 & 30, marked with 2 notches on S. and 4 notches on W. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high 4½ ft. base.
	Land rolling.
	Soil 2nd rate
	Vegetation of Bunchgrass.

E. B. T. 32 N. R. 52 W. 6th P. M.

Chains.

North on a true line between sections 19 and 24.

Va. 15° 45' East.

37.00 Cross White River, 130 lks. wide, Course N. E.

40.00 Set a Sand stone 14 x 12 x 4 ins., 9 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.

80.00 Set a Sand stone 24 x 10 x 6 ins. 18 ins. in the ground for Cor. to Secs. 13, 18, 19 & 24, marked with 3 notches on S. and 3 notches on N. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high 4½ ft. base.

Land rolling.

Soil 2nd rate

Vegetation of Bunchgrass.

E. B. T. 32 N. R. 52 W. 6th P. M.

Chains.

North on a true line between sections 13 and 18.

Va. 15° 45' East.

40.00 Set a Sand stone 14 x 14 x 6 ins., 9 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.

80.00 Set a Sand stone 20 x 8 x 6 ins. 15 ins. in the ground for Cor. to Secs. 7, 12, 13 & 18, marked with 4 notches on S. and 2 notches on N. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high 4½ ft. base.

Land rolling.

Soil 2nd rate

Vegetation of Bunchgrass.

E. B. T. 32 N. R. 52 W. 6th P. M.

Chains.

North on a true line between sections 7 and 12.

Va. 18° 45' East.

40.00 Set a Sand stone 16 x 14 x 6 ins., 11 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.

66.00 Cross Little Cottonwood Creek, 15 lks. wide, Course S. E.

80.00 Set a Sand stone 30 x 10 x 6 ins. 22 ins. in the ground for Cor. to Secs. 1, 6, 7 & 12, marked with 5 notches on S. and 1 notch on W. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high 4½ ft. base.

Land rolling.

Soil 2nd rate

Vegetation of Bunchgrass.

E. B. T. 32 N. R. 52 W. 6th P. M.

Chains.

North on a true line between sections 1 and 6.

Va. 18° 45' East.

40.00 Set a Sand stone 14 x 12 x 6 ins., 9 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.

81.00 Intersect the 8th Standard Parallel North at a point 50 chs. East of the Standard Cor. to Secs. 31 and 32. T. 33 N. R. 52 W. at which point I.

Set a Sand stone 16 x 10 x 4 ins. 11 ins. in the ground, for Closing cor. to Tps. 32 N., R's 51 and 52 W., marked C. C. with 6 notches on S., E. & W. edges, dug pits 24 x 18 x 12 ins. crosswise on each line, S., E. & W. of stone 6 ft. dist. and raised a mound of earth, 2½ ft. high, 5 ft. base.

Land rolling.

Soil 2nd rate

Vegetation of Bunchgrass.

I carefully examined the adjustments of my solar compass to-day, particularly the latitude and reversing apparatus, and found them correct.

May 18th 1882.

E. B. T. 31 N. R. 53 W. 6th P. M.

Chains.

Before proceeding further with the exterior of this Tp., I made a change of 5 minutes in the latitude arc of my solar compass by subtracting same from the reading previously given, and at noon verified and corrected same by observation on the sun. I also further tested instrument by reversing.

From the Cor. to Tps. 30 & 31 N. Rs. 52 & 53 W, I run,

North on a true line between sections 31 and 36.

Va. 15° 35' East.

27.00 Cross Ravine, Course. N. W.

40.00 Set a Sandstone 16 x 8 x 4 ins., 11 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.

54.00 Cross Road, bears, N. E. and S. W.

73.00 Cross Road, bears, N. E. and S. W.

80.00 Set a Sandstone 30 x 10 x 6 ins. 22 ins. in the ground for Cor. to Secs. 25, 30, 31 & 36, marked with 1 notch on S. and 5 notches on N. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high 4½ ft. base.

E. B. T. 31 N. R. 53 W. 6th P. M.

Chains.

Land rolling.
Soil 2nd rate
Vegetation of Bunchgrass.

North on a true line between sections 25 and 30.

Va. 15° 40' East.

40.00 Set a Sandstone 20 x 12 x 4 ins., 15 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.

67.83 Intersect S. boundary of Ft. Robinson Military Reservation, 30.98 chs. West of Cor. No. 41 and

Set a post, 4 ft. long, 4 ins. square, 12 ins. in the ground, for Closing Cor. to Secs. 25 and 30 marked C. C. T. 31 N. R. 53 W., on S. S. 30 on E. and S. 25 on W faces, with 6 notches on each edges, dug pits 18 x 18 x 12 ins. S. E. & W. of post, 5½ ft. dist. and raised a mound of earth 2 ft. high, 4½ ft. base around post.

69.00 Cross Creek, 5 lks. wide, Course N. E.

E. B. T. 31 N. R. 53 W. 6th P. M.

Chains.

80.00 Set a Sand stone 18 x 10 x 4 ins. 12 ins. in the ground for Cor. to Secs. 19, 24, 25 & 30, marked with 2 notches on S. and 4 notches on W. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high 4½ ft. base.
Land rolling.
Soil 2nd rate
Vegetation of Bunchgrass.

North on a true line between sections 19 and 24
Va. 15° 11' East.

40.00 Set a Sand stone 18 x 10 x 4 ins., 12 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.

64.00 Cross White River, 125 lks. wide, Course N. E.

79.00 Ascend bank, from White River to valley.

80.00 Set a Sand stone 20 x 14 x 8 ins. 15 ins. in the ground for Cor. to Secs. 13, 18, 19 and 24, marked with 3 notches on S. and 3 notches on W. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high 4½ ft. base.

E. B. T. 31 N. R. 53 W. 6th P. M.

Chains.

Land rolling.
Soil 2nd rate
Vegetation of Bunchgrass.

North on a true line between sections 13 and 18.
Va. 15° 45' East.

18.50 Cross road from Fort Robinson to Fort Laramie, course N. E. and S. W.

40.00 Set a Sand stone 14 x 8 x 4 ins., 9 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.

68.00 Cross Road, bears, E. and W.

78.50 Cross Cochier Creek, 5 lks. wide, Course S. E.

80.00 Set a Sand stone 24 x 18 x 6 ins. 18 ins. in the ground for Cor. to Secs. 7, 12, 13 and 18, marked with 4 notches on S. and 2 notches on W. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high 4½ ft. base.
Land rolling.
Soil 2nd rate
Vegetation of Bunchgrass.

E. B. T. 31 N. R. 53 W. 6th P. M.

Chains.	
	North on a true line between sections 7 and 12.
	Va. 15°45' East.
.70	Crossing irrigating ditch, 5 lks. wide, Course S.E.
10.00	Telegraph line from Fort Robinson to Hat Creek, bears N.W. and S.E.
11.50	Cross road from Fort Robinson to Hat Creek, course N.W. and S.E.
40.00	Set a Sand stone 14 x 14 x 3 ins., 9 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
80.00	Set a Sand stone 24 x 12 x 4 ins., 18 ins. in the ground for Cor. to Secs. 1, 6, 7 and 12, marked with 5 notches on S. and 1 notch on N. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high 4½ ft. base.
	Land rolling.
	Soil 2nd rate
	Vegetation of Bunchgrass.

E. B. T. 31 N. R. 53 W. 6th P. M.

Chains.	
	North on a true line between sections 1 and 6.
	Va. 15°45' East.
2.50	Cross Road, bears, N.W. and S.E.
35.00	Cross Road, bears, N.W. and S.E. and ascend. Bluffs, bear E. and W.
38.00	Enter timber, bears E. and W.
40.00	Set a Sand stone 16 x 14 x 12 ins., 11 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
	from which
	A Pine 4 ins. diam. bears N. 87° W., 3 lks. dist. marked ¼ S. B. T.
	A Pine 5 ins. diam. bears N. 60° E., 5 lks. dist. marked ¼ S. B. T.
58.40	Intersect North boundary of Fort Robinson Military Reservation at a point 83.90 chs. W. of Post No. 21, and
	Set a Sand stone 16 x 14 x 8 ins. 11 ins. in the ground for Closing Cor. to Secs. 1 and 6 on N. & W. R. on W. Side, marked C. C. with 6 notches on E. and 6 notches on W. edges, dug pits 18 x 18 x 12 ins. E. E., and W. of

E. B. T. 31 N. R. 53 W. 6th P. M.

Chains.

stone, 5½ ft. dist., and raised a mound of earth 2 ft. high, 4½ ft. base.

68.00 Top of Bluffs, bear E. and W. and descend.

80.00 Set a Sand stone 20 x 12 x 6 ins. 15 ins. in the ground, for Cor. to Tps. 31 and 32 N. R's 52 and 53 W., marked with 6 notches on each edge, dug pits, 24 x 18 x 12 ins. lengthwise on each line, N. S. E. and W. of stone, 6 ft. dist., and raised a mound of earth 2½ ft. high, 5 ft. base.

Land mountainous

Soil Bad rate.

Timber of Pine.

Vegetation of Vagelmash and Bunchgrass

May 19th 1882.

M. B. T. 31 N. R. 52 W. 6th P. M.

Chains.

Before proceeding further with the exteriors of this Tp., I made a change of 5 minutes in the latitude arc of my solar compass by adding same to the reading previously given, and at noon verified and corrected same by observation on the sun. I also further tested instrument by reversing.

From the Cor. to Tps. 31 & 32 N., Rs. 52 & 53 W., I run East. on a random line on M. B. of Tp.

Va. 15° 45' East.

I set temporary corners at every half mile, and at 5 miles 77.55 chs. I arrive at a point 264 lks. South of Cor. to Tps, 31 & 32 N., Rs. 51 & 52 W. from which corner I run S. 89° 41' W. on a true line between sections 1 & 36.

Va. 15° 45' East.

40.00 Set a post 3 ft. long, 3 ins. diam. 12 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. on M. face, dug pits, 18 x 18 x 12 ins., N. and S. of post 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base around post.

66.00 Cross Creek, 5 lks. wide, Course N. W.

80.00 Set a post 4 ft. long, 4 ins. square, 12 ins. in the ground, for Cor. to Secs. 1, 2, 35 & 36, marked T. 32 N. S. 36, on N. E., R. 52 W. S. 1

Chains.

on S. E. S. 2 on S. W and S. 35 on N. W. faces, with 5 notches on W and 1 notch on E. edges; dug pits, 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high, 4½ ft. base around post.

Land rolling.

Soil 2nd rate

Vegetation of Bunchgrass.

S. 89° 41' W. on a true line between sections 2 and 35.

Va. 15° 45' East

11.00 Cross Wash, 100 lks. wide, Course N.

27.50 Cross Little White Clay Creek, 10 lks. wide, Course W.

40.00 Set a Sandstone 18 x 12 x 4 ins., 12 ins. in the ground, for ¼ Sec. Cor., marked ¼ on N. face, dug pits, 18 x 18 x 12 ins., N. and S. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.

58.50 Cross Road, bears, N. E. and S. W.

80.00 Set a Sandstone 22 x 16 x 4 ins. 16 ins. in the ground for Cor. to Secs. 2, 3, 34 and 35 marked with 4 notches on W and 2 notches on E. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high 4½ ft. base.

ins.

Land rolling.

Soil 2nd rate

Vegetation of Bunchgrass.

S. 89° 41' W. on a true line between sections 3 and 34.

Va. 15° 45' East.

8.00 Enter river bottom, bears N. W. and S. E.

10.00 Set a Sandstone 14 x 12 x 6 ins., 9 ins. in the ground, for ¼ Sec. Cor., marked ¼ on N. face, dug pits, 18 x 18 x 12 ins., N. and S. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.

1.50 Cross White River, 160 lks. wide, Course N. E.

2.50 Cross Bright road from Sidney to Black Hills, course N. and S.

10.00 Set a Sandstone 20 x 12 x 4 ins. 15 ins. in the ground for Cor. to Secs. 3, 4, 33 and 34, marked with 3 notches on W and 3 notches on E. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high 4½ ft. base.

Land rolling.

Soil 2nd rate

Vegetation of Bunchgrass.

M. B. T. 31 N. R. 52 W. 6th P. M.

Chai Chains.

S. 89° 41' W. on a true line between sections 4 and 33

Va. 16° 41'

29.25 Cross stage road from Sidney to Black Hills, bears N. and S.

40.00 Set a Sandstone 14 x 12 x 3 ins., 93.00 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. 5.00 face, dug pits, 18 x 18 x 12 ins., N. and S. of stone 5.30 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.

68.90 Cross Road, bears, N. W. and S. E. 0.00

80.00 Set a Sandstone 20 x 14 x 5 ins. 15 ins. in the ground for Cor. to Secs. 4, 5, 32 and 33, marked with 2 notches on W. and 4 notches on E. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised mound of earth 2 ft. high 4½ ft. base.

Land level.

Soil 2nd rate

Vegetation of Bunchgrass.

M. B. T. 31 N. R. 52 W. 6th P. M.

ns.

S. 89° 41' W. on a true line between sections 5 and 32.

Va. 16° 50'

Ascend E. slope of Bluffs and enter timber bears N. and S.

93.00 Top of Spur, bears N. and S. and descend.

5.00 Cross Ravine, Course. N. W. and ascend.

5.30 Top of Ridge, bears N. and S.

7.00 Descend. W. slope of Ridge.

0.00 Set a post 3 ft. long, 3 ins. diam. 12 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. on N. face, dug pits, 18 x 18 x 12 ins., N. and S. of post 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base around post.

1.50 Cross Ravine, Course. N. and ascend.

0.00 Top of Spur, bears N. and S. and descend.

5.00 Cross Ravine, Course. N. E. and ascend.

1.00 Top of Divide, bears N. W. and S. E.

7.00 Descend.

0.00 Set a post 4 ft. long, 4 ins. square, 12 ins. in the ground, for Cor. to Secs. 5, 6, 31 and 32, marked T. 32 N. S. 32. on N. E., R. 52 W., S. 5 on S. E., S. 6 on S. W. and S. 31 on N. W. faces,

M. B. T. 31 N. R. 52 W. 6th P. M.

Chains.

with 1 notch on N. and 5 notches on E. edges; dug pits, 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high, 4½ ft. base around post.

Land mountainous

Soil 3rd rate.

Timber of Pine,

Vegetation of Bunchgrass and Sagebrush.

S. 87° 41' W. on a true line between sections 6 & 31.

Va. 15° 50'

2.00 Cross Canon, 1ks. wide, Course M. E. and ascend.

10.00 Top of Ridge, bears M. E. and S. W. and descend.

18.00 Cross Ravine, Course. M.

20.00 Cross Wash, 100 1ks. wide, Course M. and ascend.

25.00 Top of Ridge, bears M. and S. and descend.

30.00 Cross Canon, ~~1ks. wide~~, Course M. E. and ascend.

36.00 Top of Ridge, bears M. E. and S. W. and descend.

40.00 Set a Sawn stone 16 x 8 x 4 ins., 11 ins. in the ground, for ¼ Sec. Cor., marked ¼ on N. face, dug pits, 18 x 18 x 12 ins., M. and S. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 4½ ft. base.

M. B. T. 31 N. R. 52 W. 6th P. M.

ins.

from which

A Pine 26 ins. diam. bears N. 85° W., 15 1ks. dist. marked ¼ S. B. T.

46.00 Cross Canon, ~~1ks. wide~~, Course M. W. and ascend.

54.00 Top of Spur, bears M. and S. and descend.

60.00 Cross Canon, ~~1ks. wide~~, Course M. and ascend.

72.15 Cross Road, bears, M. and S.

77.55 The Cor. to Tps. 31 & 32 N. Rs. 52 & 53 W.

Land mountainous

Soil 3rd rate.

Timber of Pine.

Vegetation of Bunchgrass.

E. B. T. 32 N. R. 53 W. 6th P. M.

Chains.	
	North on a true line between sections 31 and 36.
	Va. 15° 45' East
11.00	Foot of Ridge, bears N. W. and S. E.
22.00	Cross Road, bears, N. W. and S. E.
23.00	Descend. Bluffs, bear E. and W.
40.00	Set a Sand stone 15 x 9 x 5 ins., 10 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
	from which
	A Pine 11 ins. diam. bears S. 50° W, 30 lks. marked ¼ S. B. T.
41.00	Cross Ravine, Course. N. E.
48.00	Lean Pine timber, bears E. and W.
71.00	Cross Ravine, Course. N. E.
80.00	Set a Sand stone 20 x 8 x 5 ins. 15 ins. in the ground for Cor. to Secs. 25, 30, 31 and 36, marked with 1 notch on S. and 5 notches on N. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high 4½ ft. base.

E. B. T. 32 N. R. 53 W. 6th P. M.

Chains.	
	Land Rolling.
	Soil 2nd rate.
	Timber of Pine.
	Vegetation of Bunchgrass.
	North on a true line between sections 25 and 30.
	Va. 15° 45' East.
	Enter rolling prairie.
27.00	Cross Road, bears, E. and W.
37.00	Cross Creek, 10 lks. wide, Course N. E. and ascend.
40.00	Set a Sand stone 20 x 10 x 5 ins., 15 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
50.00	Top of Bluffs, bears E. and W.
80.00	Set a Sand stone 22 x 10 x 8 ins. 16 ins. in the ground for Cor. to Secs. 19, 24, 25 and 30, marked with 2 notches on S. and 4 notches on N. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high 4½ ft. base.
	Land rolling.
	Soil 2nd rate
	Vegetation of Bunchgrass.

E. B. T. 32 N. R. 53 W. 6th P. M.

Chains.

North on a true line between sections 19 and 24.

Va. 15° 40' East

Our rolling prairie.

40.00 Set a Sand stone 20 x 6 x 5 ins., 38.00 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.

79.00 Cross Road, bears, N. E. and S. W. 52.00

80.00 Set a Sand stone 20 x 14 x 4 ins. 15 ins. in 80.00 the ground for Cor. to Secs. 13, 18, 19 and 24, marked with 3 notches on S. and 3 notches on W. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high 4½ ft. base.

Land rolling.

Soil 2nd rate

Vegetation of Bunchgrass.

E. B. T. 32 N. R. 53 W. 6th P. M.

Chains.

North on a true line between sections 13 and 18.

Va. 15° 40' East.

Cross Creek, 8 lks. wide, Course W. 70° E.

Set a Sand stone 14 x 10 x 4 ins., 9 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.

Little Cottonwoods

Cross Creek, 15 lks. wide, Course E.

Set a Sand stone 16 x 16 x 6 ins. 11 ins. in the ground for Cor. to Secs. 7, 12, 13 and 18, marked with 4 notches on S. and 2 notches on W. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high 4½ ft. base.

Land rolling.

Soil 2nd rate

Vegetation of Bunchgrass.

Chains.

North on a true line between sections 7 and 12.

Va. 15° 48' East.

40.00 Set a Sand stone 16 x 10 x 3 ins., 11 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.

80.00 Set a Sand stone 18 x 10 x 3 ins. 12 ins. in the ground for Cor. to Secs. 1, 6, 7 and 12, marked with 5 notches on S. and 1 notch on W. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high 4½ ft. base.

Land rolling.

Soil 2nd rate

Vegetation of Bunchgrass.

Chains.

North on a true line between sections 1 and 6.

Va. 15° 48' East.

14.00 Cross Wash, 100 lks. wide, Course E.

40.00 Set a Sand stone 12 x 10 x 6 ins., 8 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.

70.00 Cross Wash, 80 lks. wide, Course E.

82.80 Intersect the 8th Standard Parallel North at a point 3.74 chs. East. of the Witness Cor. to Standard Cor. to Secs. 31 and 32. T. 33 N. R. 58 W. at which point I.

Set a Sand stone 20 x 10 x 3 ins. 15 ins. in the ground, for Closing cor. to Tps. 32 N., R's 58 and 59 W., marked C. C. with 6 notches on S., E. & W. edges, dug pits 24 x 18 x 12 ins. crosswise on each line, S., E. & W. of stone 6 ft. dist. and rdised a mound of earth, 2½ ft. high, 5 ft. base.

Land rolling and broken.

Soil 3rd rate

Vegetation of Bunchgrass.

May 20th 1882.

E. B. T. 31 N. R. 54 W. 6th P. M.

Chains.	
	Before proceeding ~~further~~ with the exteriors of this Tp., I made a change of 5 minutes in the latitude arc of my solar compass by subtracting same from the reading previously given, and at noon verified and corrected same by observation on the sun. I also further tested instrument by reversing.
	From the Cor. to Tps. 30 & 31 N. Rs. 53 & 54 W., I run,
	North on a true line between sections 31 and 36.
	Va. 15° 40' East.
40.00	Set a Sand stone 20 x 8 x 6 ins., 15 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
50.00	Cross Road, bears, S. E. and N. W.
57.00	Cross Ravine, Course. S. E. and ascend.
	Enter timber, bears S. E. and N. W.
80.00	Set a Sand stone 18 x 12 x 4 ins. 12 ins. in the ground for Cor. to Secs. 25, 30, 31 and 36, marked with 1 notch on S. and 5 notches on N. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high 4½ ft. base.

E. B. T. 31 N. R. 54 W. 6th P. M.

Chains.	
	23.00 chs. Land, mountainous and 57.00 chains Rolling. Soil 3rd rate. Timber of Pine. Vegetation of Bunchgrass.
	North on a true line between sections 25 and 30.
	Va. 15° 40' East.
36.00	Top of Divide, bears S. E. and N. W. and descend.
40.00	A Pine 12 ins. diam. which I marked ¼ S. on W. face, for ¼ sec. cor., dug pits, 18 x 18 x 12 ins. E. and W. of tree, 5½ ft. dist. and raised a mound of earth around tree.
41.00	Cross Ravine, Course. N.
54.00	Cross Ravine, Course. S. W. and ascend.
74.00	Leave Pine timber, bears E. and W.
80.00	Set a Sand stone 24 x 10 x 8 ins. 18 ins. in the ground for Cor. to Secs. 19, 24, 25 and 30, marked with 2 notches on S. and 4 notches on N. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high 4½ ft. base.

E. B. T. 31 N. R. 54 W. 6th P. M.

Chains.

Land mountainous
Soil 3rd rate.
Timber of Pine.
Vegetation of Bunchgrass.

North on a true line between sections 19 and 24.
Va. 15° 40' East.

40.00 Set a Sand stone 16 x 12 x 3 ins., 11 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.

80.00 Set a Sand stone 16 x 8 x 6 ins. 11 ins. in the ground for Cor. to Secs. 13, 18, 19 and 24, marked with 3 notches on S. and 3 notches on E. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high 4½ ft. base.

Land rolling.
Soil 2nd rate
Vegetation of Bunchgrass.

E. B. T. 31 N. R. 54 W. 6th P. M.

Chains.

North on a true line between sections 13 and 18.
Va. 15° 40' East.

5.00 Descend, W. W. Slope.

40.00 Set a Sand stone 12 x 10 x 6 ins., 8 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.

45.00 Descend. W. Slope, bears E. and W.

50.00 Enter Pine timber, bears E. and W.

63.63 Intersect S. B. of Fort Robinson Wood reservation, 46.90 chs. W. of Post No. 18 and

Set a post, 4 ft. long, 4 ins. square, 12 ins. in the ground, for Closing Cor. to Secs. 13 and 18 marked C. C. M. S. W. T. R. on S. side ~~with notch on and notch on faces~~, dug pits 18 x 18 x 12 ins. S., E., and W. of post, 5½ ft. dist. and raised a mound of earth 2 ft. high, 4½ ft. base around post.

80.00 Set a Sand stone 34 x 12 x 8 ins. 18 ins. 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. Pits impracticable.

E. B. T. 31 N. R. 54 W. 6th P. M.

Chains.

from which

A Pine 10 ins. diam. bears N. 85° E., 28 lks. dist.
marked T. 31 N., R. 53 W., S., 7 B. T.

A Pine 10 ins. diam. bears S. 40° W., 25 lks. dist.
marked T. 31 N., R. 54 W., S., 13 B. T.

A Pine 4 ins. diam. bears S. 42° E., 30 lks. dist.
marked T. 31 N., R. 53 W., S., 18 B. T.

Land mountainous
Soil 3rd rate.
Timber of Pine.
Vegetation of Bunchgrass.

North on a true line between sections 7 and 12.
Va. 15° 40' East.

26.50 Cross Ravine, Course. N. W. and ascend.

40.00 Set a Sand stone 16 x 10 x 4 ins., 11 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.

45.00 Top of Divide, bears E. and W. and descend.

E. B. T. 31 N. R. 54 W. 6th P. M.

Chains.

54.00 Cross Ravine, Course. W. and ascend.

59.00 Top of Ridge, bears N. and S. and descend.

74.00 Foot of Ridge, bears E. and W.

80.00 Set a Sand stone 20 x 16 x 3 ins. 15 ins. in the ground for Cor. to Secs. 1, 6, 7 and 12, marked with 5 notches on S. and 1 notch on W. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high 4½ ft. base.

from which

A Pine 26 ins. diam. bears N. 10½° E., 67 lks. dist.
marked T. 31 N., R. 53 W., S., 6 B. T.

A Pine 24 ins. diam. bears N. 75° W., 40 lks. dist.
marked T. 31 N., R. 54 W., S., 1 B. T.

Land mountainous
Soil 3rd rate.
Timber of Pine.
Vegetation of Bunchgrass.

E. B. T. 31 N. R. 54 W. 6th P. M.

Chains.

North on a true line between sections 1 and 6.

Va. 15° 40' East.

4.00 Cross N. branch of Soldier Creek, 10 lks. wide, Course N. E.

15.00 Cross Road, bears, N. E. and S. W.

33.00 Cross Creek, lks. wide, Course S. E.

40.00 Set a Sand stone 16 x 14 x 4 ins., 11 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.

50.00 Ascend. Spur, bears S. W. and N. E.

80.00 Set a Sand stone 20 x 12 x 8 ins. 15 ins. in the ground, for Cor. to Tps. 31 and 32 N., R's 53 and 54 W., marked with 6 notches on each edge, and raised a mound of stone. Pits impracticable.

from which

A Pine 18 ins. diam. bears S. 25° W., 128 lks. dist. marked T. 31 N., R. 54 W., S., 1 B. T.

A Pine 8 ins. diam. bears S. 61° W., 34 lks. dist. marked T. 31 N., R. 54 W., S., 1 B. T.

A Pine 6 ins. diam. bears W. 20 lks. dist. marked T. 32 N. R. 54 W., S., 36 B. T.

E. B. T. 31 N. R. 54 W. 6th P. M.

Chains.

A Pine 24 ins. diam. bears N. 27 W., 124 lks. dist. marked T. 32 N. R. 54 W., S., 36 B. T.

Land Rolling.

Soil 3rd rate.

Timber of Pine

Vegetation of Bunchgrass.

May 22nd 1882.

M. B. T. 31 N. R. 53 W. 6th P. M.

Chains.	
	Before proceeding further with the exteriors of this Tp., I made a change of 5 minutes in the latitude arc of my solar compass by adding same to the reading previously given, and at noon verified and corrected same by observation on the sun. I also further tested instrument by reversing.
	From the Cor. to Tps. 31 & 32 N., Rs. 53 & 54 W., I run East. on a random line on W. B. of Tp. Va. 15° 40' East.
	I set temporary corners at every half mile, and at 6 miles 2.50 chs. I arrive at a point 220 lks. South of Cor. to Tps. 31 & 32 N., Rs. 52 & 53 W. from which corner I run S. 89° 44' W. on a true line between sections 1 & 36, Va. 15° 45' East.
	Ascend
39.50	Top of Divide, bears N. and S.
	~~Cross Ravine, Course.~~ ~~and ascend.~~
40.00	Set a Sand stone 14 x 12 x 4 ins., 9 ins. in the ground, for ¼ Sec. Cor., marked ¼ on N. face, dug pits, 18 x 18 x 12 ins., N. and S. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
48.00	Descend.

M. B. T. 31 N. R. 53 W. 6th P. M.

Chains.	
75.00	Cross Ravine, Course. S. and ascend.
80.00	Set a Sand stone 16 x 14 x 6 ins. 11 ins. in the ground for Cor. to Secs. 1, 2, 35 & 36, marked with 5 notches on W. and 1 notch on E. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high 4½ ft. base.
	Land mountainous. Timber of Pine.
	Soil 3rd rate
	Vegetation of Bunchgrass.
	S. 89° 44' W. on a true line between sections 2 and 35. Va. 15° 40' East.
19.00	Top of Spur, bears N. and S. and descend.
40.00	Set a Sand stone 18 x 16 x 6 ins., 12 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits, 18 x 18 x 12 ins., N. and S. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
65.00	Bottom of drain, course S. This point bears N. 20 lks. dist. from Post No. 27 of Military Reservation. ascend
66.00	Leave pine timber, bears N. and S.

M. B. T. 31 N. R. 53 W. 6th P. M.

Chains.	
80.00	Set a post 4 ft. long, 4 ins. square, 12 ins. in the ground, for Cor. to Secs. 2, 3, 34 and 35, marked T. 32 N., S. 35, on N. E., R. 53 W., S. 2 on S. E., S. 3 on S. W. and S. 34 on N. W. faces, with 4 notches on N. and 2 notches on E. edges; dug pits, 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high, 4½ ft. base around post.
	Land mountainous Soil 3rd rate. Timber of Pine. Vegetation of Bunchgrass.
	S. 89° 44' W. on a true line between sections 3 and 34. Va. 18° 40' E.
5.00	Cross Ravine, Course. S. and ascend.
19.00	Top of Spur, bears N. and S. and descend.
34.00	Enter rolling prairie, bears N. and S.
40.00	Set a Sand stone 16 x 8 x 4 ins., 11 ins. in the ground, for ¼ Sec. Cor., marked ¼ on N. face, dug pits, 18 x 18 x 12 ins., N. and S. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.

M. B. T. 31 N. R. 53 W. 6th P. M.

Chains.	
80.00	Set a Sand stone 24 x 20 x 6 ins. 18 ins. in the ground for Cor. to Secs. 3, 4, 33 & 34, marked with 3 notches on N. and 3 notches on E. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high 4½ ft. base.
	Land rolling. Soil 3rd rate Vegetation of Bunchgrass.
	S. 89° 44' W. on a true line between sections 4 and 33. Va. 18° 45' East.
16.00	Cross Ravine, Course. S. E.
35.00	Cross Ravine, Course. S.
40.00	Set a Sand stone 16 x 10 x 4 ins., 11 ins. in the ground, for ¼ Sec. Cor., marked ¼ on N. face, dug pits, 18 x 18 x 12 ins., N. and S. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
58.00	Telegraph line from Hat Creek to Fort Robinson, bears S. E. and N. W.
80.00	Set a Sand stone 20 x 16 x 6 ins. 15 ins. in the ground for Cor. to Secs. 4, 5, 32 & 33, marked with 2 notches on N. and 4 notches on E. edges, dug pits

M. B. T. 31 N. R. 53 W. 6th P. M.

Chains.

18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high 4½ ft. base.

Land rolling.

Soil 3rd rate

Vegetation of Bunchgrass.

S. 89° 44' W. on a true line between sections 5 and 32.

Va. 15° 45' E.

16.00 Cross Road, from Fort Robinson to Hat Creek, course S. E. and N. W.

27.50 Cross Soldier Creek, 10 lks. wide, Course S. E.

39.51 Intersect E. B. of Fort Robinson Wood and Timber reservation, 153 lks N. of Post No. 28 and

Set a post, 4 ft. long, 4 ins. square, 12 ins. in the ground, for Closing Cor. to Secs. 5 and 32 marked C. C. N. S. W. T. R. on E. side, ~~faces, with notch on and notch on~~ faces, dug pits 18 x 18 x 12 ins. N., S. & E. of post, 5½ ft. dist. and raised a mound of earth 2 ft. high, 4½ ft. base around post.

M. B. T. 31 N. R. 53 W. 6th P. M.

Chains.

40.00 Set a Sand stone 16 x 14 x 6 ins., 11 ins. in the ground, for ¼ Sec. Cor., marked ¼ on N. face, dug pits, 18 x 18 x 12 ins., N. and S. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.

43.00 Ascend.

46.00 Enter Pine timber, bears N. and S.

62.00 Cross Ravine, Course. N. and ascend.

70.00 Top of Ridge, bears N. and S. and descend.

80.00 Set a Sand stone 24 x 12 x 6 ins. 18 ins. in the ground for Cor. to Secs. 5, 6, 31 and 32, marked with 1 notch on N. and 5 notches on E. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high 4½ ft. base.

Land 37.00 chs mountainous and 43.00 lks level.

Soil 3rd rate.

Timber of Pine.

Vegetation of Bunchgrass.

W. B. T. 31 N. R. 53 W. 6th P. M.

Chains.	
	S. 89° 44' W. on a true line between sections 6 and 31.
	Va. 15° 44'
40.00	A Pine 24 ins. diam. which I marked ¼ S. on W. face, for ¼ sec. cor., dug pits, 18 x 18 x 12 ins. W. and S. of tree, 5½ ft. dist. and raised a mound of earth around tree.
82.50	The Cor. to Tps. 31 & 32 N. Rs. 53 & 54 W.
	Land Rolling.
	Soil 3rd rate.
	Timber of Pine.
	Vegetation of Bunchgrass.
	May 23rd 1882.

E. B. T. 32 N. R. 54 W. 6th P. M.

Chains.	
	North on a true line between sections 31 and 36.
	Va. 15° 44' East.
	Ascend.
9.00	Top of Divide, bears N. W. & S. E. and descend.
30.00	Cross Ravine, Course. E. and ascend.
40.00	A Pine 20 ins. diam. which I marked ¼ S. on W. face, for ¼ sec. cor., dug pits, 18 x 18 x 12 ins. E. and W. of tree, 5½ ft. dist. and raised a mound of earth around tree.
	from which
	A Pine 8 ins. diam. bears S. 30° E., 25 lks. dist. marked ¼ S. B. T.
55.00	Top of Ridge, bears E. and W. and descend.
79.00	Cross Ravine, Course. N. E.
80.00	Set a Sandstone 20 x 16 x 6 ins. 15 ins. in the ground for Cor. to Secs. 25, 30, 31 & 36, marked with 1 notch on S. and 5 notches on W. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high 4½ ft. base.
	from which
	A Pine 20 ins. diam. bears S. 80° W., 70 lks. dist. marked T. 32 N., R. 54 W., S., 36 B. T.

Chains.	
	Land mountainous
	Soil 3rd rate.
	Timber of Pine,
	Vegetation of Bunchgrass.
	North on a true line between sections 25 and 30.
	Va. 15° 45' E
5.00	Foot of N. Slope.
11.00	Cross Road, from Fort Robinson to Hat Creek, course N. W. and S. E.
12.00	Cross Soldier Creek, ~~Hes. wide~~, Course S. E.
14.50	Telegraph line, from Fort Robinson to Hat Creek, course E. and W.
16.00	Ascend.
40.00	Set a Sand stone 14 x 6 x 6 ins., 9 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
60.00	Top of Spur, bears and descend.
67.00	Leave Fort Robinson Wood and Timber Reservation, Course E. and W. at a

Chains.	
	point 65 lks. W. of post No. 33 and
	Set a post, 4 ft. long, 4 ins. square, 12 ins. in the ground, for Closing Cor. to Secs. 25 and 30 marked C. C. U. S. W. S. R. on S. side,
	dug pits 18 x 18 x 12 ins. S. E. & W. of post, 5½ ft. dist. and raised a mound of earth 2 ft. high, 4½ ft. base around post.
80.00	Set a Sand stone 18 x 14 x 10 ins. 12 ins. in the ground for Cor. to Secs. 19, 24, 25 & 30, marked with 2 notches on S. and 4 notches on W. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high 4½ ft. base.
	Land 67.00 Chs mountainous, Balance level,
	Soil 3rd rate.
	Timber of Pine,
	Vegetation of Bunchgrass.

E. B. T. 32 N. R. 54 W. 6th P. M.

Chains.	
	North on a true line between sections 19 and 24.
	Va. 15° 45' East.
28.00	Cross Ravine, Course. S. E. and ascend.
40.00	Set a Sand stone 18 x 12 x 6 ins., 12 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
50.00	Top of Ridge, bears S. E. and N. W.
53.00	Lean Pine timber bears N. W. and S. E.
80.00	Set a Sand stone 26 x 12 x 10 ins. 19 ins. in the ground for Cor. to Secs. 13, 18, 19 and 24, marked with 3 notches on S. and 3 notches on N. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high 4½ ft. base.
	Land 2200 acs mountainous and 58.00 acs rolling.
	Soil 3rd rate.
	Timber of Pine.
	Vegetation of Bunchgrass.

E. B. T. 32 N. R. 54 W. 6th P. M.

Chains.	
	North on a true line between sections 13 and 18.
	Va. 15° 45' East.
10.00	Descend.
30.00	Exeter Pine timber, bears E. and W.
40.00	Set a Sand stone 12 x 12 x 6 ins., 8 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
55.00	Cross Ravine, Course. N. E. and ascend.
80.00	Set a Sand stone 20 x 16 x 8 ins. 15 ins. in the ground for Cor. to Secs. 7, 12, 13 & 18, marked with 4 notches on S. and 2 notches on N. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high 4½ ft. base.
	A Pine 20 ins. diam. bears N. 80° E., 30 lks. dist. from which marked T. 32 N., R. 55 W., S., 7 B. T.
	A Pine 24 ins. diam. bears N. 45° W., 30 lks. dist. marked T. 32 N., R. 54 W., S., 12 B. T.
	Land Rolling.
	Soil 3rd rate.
	Timber of Pine.
	Vegetation of Bunchgrass.

Chains.

North on a true line between sections 7 and 12.

Va. 15° 45' East.

20.00 Top of Ridge, bears E. and W. and descend.

36.00 Leave Pine timber, bears E. and W.

40.00 Set a Sand stone 16 x 12 x 3 ins., 11 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.

76.00 Cross Little Cottonwood Creek, 10 lks. wide, Course N. E.

80.00 Set a post 4 ft. long, 4 ins. square, 12 ins. in the ground, for Cor. to Secs. 1, 6, 7 & 12, marked T. 32 N. S. 6 on N. E., R 53 W, S. 7 on S. E., S. 12 on S. W. and S. 1 on N. W. faces, with 5 notches on S. and 1 notch on W. edges; dug pits, 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high, 4½ ft. base around post.

from which

A Pine 20 ins. diam. bears N. 45° W., 103 lks. dist. marked T. 32 N, R. 54, S., 1 B. T.

An Elm 6 ins. diam. bears S. 40° W., 66 lks. dist. marked T. 32 N, R. 54 W, S., 12 B. T.

Chains.

Land Rolling.
Soil 3rd rate.
Timber of Pine,
Vegetation of Bunchgrass.

North on a true line between sections 1 and 6.

Va. 15° 45' East.

26.00 Cross N. Fork of Little Cottonwood Creek, 5 lks. wide, Course S. E. and ascend.

40.00 Set a Sand stone 14 x 12 x 6 ins., 9 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.

60.00 Enter Pine timber, bears E. and W.

83.00 Intersect the 8th Standard Parallel North at a point 2.25 chs. East of the Standard Cor. to Secs. 31 and 32, T. 33 N. R. 53 W. at which point I.

Set a Sand stone 24 x 20 x 6 ins. 18 ins. in the ground, for Closing Cor. to Tps. 32 N., R's 53 and 54 W., marked C. C. with 6 notches on cl. E. & W. edges, and raised a mound of stone, Pits impracticable,

E. B. T. 32 N. R. 54 W. 6th P. M.

Chains.

Land Rolling and level,
Soil 3rd rate.
Timber of Pine.
Vegetation of Bunchgrass.

I carefully examined the adjustments of my solar compass to-day, particularly the latitude and reversing apparatus, and found them correct.

May 24th 1882.

N. B. T. 31 N. R. 54 W. 6th P. M.

Chains.

Before proceeding ~~further~~ with the exteriors of this Tp., I made a change of 5 minutes in the latitude arc of my solar compass by subtracting same from the reading previously given, and at noon verified and corrected same by observation on the sun. I also further tested instrument by reversing.

From the Cor. to Tps. 30 & 31 N. Rs. 54 & 55 W. I run,

North on a true line between sections 31 and 36.

Va. 15° 30′ East.

Descend.

28.00 Cross Ravine, Course. E. and ascend.

35.00 Top of Ridge, bears E. and W. and descend.

40.00 Set a Sand stone 14 x 10 x 5 ins., 9 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.

57.00 Foot of Ridge, bears E. and W.

57.50 Cross White River 12 lks. wide, Course E.

58.50 Cross road from Fort Robinson to Fort Laramie, bears E. and W.

W. B. T. 31 N. R. 54 W. 6th P. M.

Chains.	
80.00	Set a Sand stone 32 x 14 x 8 ins. 24 ins. in the ground for Cor. to Secs. 25, 30, 31 & 36 marked with 1 notch on S. and 5 notches on W. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high 4½ ft. base.
	Land mountainous 57.00 lks and 23.00 lks level.
	Soil 3rd rate.
	Timber of Pine.
	Vegetation of Bunchgrass.
	North on a true line between sections 25 and 30. Va. 15° 30' East.
25.00	Ascend. Divide, Bears E. and W.
40.00	Set a Sand stone 18 x 10 x 6 ins., 12 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
47.00	Top of Divide, Bears E. and W.
80.00	Set a Sand stone 20 x 8 x 8 ins. 15 ins. in the ground for Cor. to Secs. 19, 24, 25 & 30, marked with 2 notches on S. and 4 notches on W. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high 4½ ft. base.

W. B. T. 31 N. R. 54 W. 6th P. M.

Chains.	
	Land rolling. 28.00 lks and 52.00 lks mountainous.
	Soil 2nd rate
	Vegetation of Bunchgrass.
	North on a true line between sections 19 & 24, Va. 15° 30' East.
34.50	Cross Gulch, 30 lks. wide, Course S. E.
40.00	Set a Sand stone 15 x 12 x 10 ins., 12 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
80.00	Set a Sand stone 20 x 12 x 4 ins. 15 ins. in the ground for Cor. to Secs. 13, 18, 19 & 24, marked with 3 notches on S. and 3 notches on W. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high 4½ ft. base.
	Land rolling.
	Soil 2nd rate
	Vegetation of Bunchgrass.

W. B. T. 31 N. R. 54 W. 6th P. M.

Chains.	
	North on a true line between sections 13 and 18.
	Va. 18° 30' East.
40.00	Set a Sand stone 12 x 10 x 6 ins., 8 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
45.50	Cross Gulch, 50 lks. wide, Course N. W.
80.00	Set a Sand stone 20 x 10 x 6 ins. 15 ins. in the ground for Cor. to Secs. 7, 12, 13 & 18, marked with 1 notches on S. and 2 notches on N. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high 4½ ft. base.
	Land rolling.
	Soil 2nd rate
	Vegetation of Bunchgrass.

W. B. T. 31 N. R. 54 W. 6th P. M.

Chains.	
	North on a true line between sections 7 and 12.
	Va. 18° 30' East.
40.00	Set a Sand stone 16 x 12 x 3 ins., 11 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
80.00	Set a Sand stone 20 x 10 x 4 ins. 15 ins. in the ground for Cor. to Secs. 1, 6, 7 and 12, marked with 5 notches on S. and 1 notch on N. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high 4½ ft. base.
	Land rolling.
	Soil 2nd rate
	Vegetation of Bunchgrass

W. B. T. 31 N. R. 54 W. 6th P. M.

Chains.	
	North on a true line between sections 1 and 6.
	Va. 15° 30' East.
40.00	Set a Sand stone 12 x 10 x 8 ins., 8 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
41.00	Cross Gulch, 20 lks. wide, Course N. E.
46.00	Cross Gulch, 35 lks. wide, Course S. E.
80.00	Set a Sand stone 40 x 24 x 8 ins. 30 ins. in the ground, for Cor. to Tps. 31 and 32 N. R's 54 and 55 W., marked with 6 notches on each edge, dug pits, 24 x 18 x 12 ins. lengthwise on each line, N. S. E. and W. of stone, 6 ft. dist., and raised a mound of earth 2½ ft. high, 5 ft. base.
	Land rolling.
	Soil 2nd rate
	Vegetation of Bunchgrass.
	May 25th 1882.

W. B. T. 31 N. R. 54 W. 6th P. M.

Chains.	
	Before proceeding further with the exteriors of this Tp., I made a change of 5 minutes in the latitude arc of my solar compass by adding same to the reading previously given, and at noon verified and corrected same by observation on the sun. I also further tested instrument by reversing.
	From the Cor. to Tps. 31 & 32 N., Rs. 54 & 55 W. I run East. on a random line on N. B. of Tp.
	Va. 15° 30' East.
	I set temporary corners at every half mile, and at 6 miles 105 chs. I arrive at a point 240 lks. North of Cor. to Tps. 31 & 32 N. Rs. 53 & 54 W. from which corner I run N. 89° 43' W. on a true line between sections 1 & 36
	Va. 15° 40' East.
4.00	Cross Ravine, Course. S. and ascend.
8.00	Top of Spur, bears N. and S. and descend.
17.00	Cross Canon, ~~lks. wide~~, Course S. and ascend.
20.00	Top of Spur, bears N. and S. and descend.
38.00	Cross Ravine, Course. S.
40.00	Set a Sand stone 14 x 12 x 10 ins., 9 ins. in the ground, for ¼ Sec. Cor., marked ¼ on N. face, dug pits, 18 x 18 x 12 ins. N. and S. of stone

Chains.	
	5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base. from which
	A Pine 10 ins. diam. bears E. 14 lks. dist.
	marked ¼ S. B. T.
	A Pine 14 ins. diam. bears W. 31 lks. dist.
	marked ¼ S. B. T.
43.00	Top of Ridge, bears N. and S. and descend.
51.00	Cross Ravine, Course. S.
55.00	Top of Ridge, bears N. and S. and descend.
62.00	Cross Canon, lks. wide, Course S. W. and ascend.
67.00	Cross Ravine, Course. S.
69.50	Top of Spur, bears N. and S. and descend.
80.00	Set a Sand stone 16 x 12 x 4 ins. 11 ins. in the ground for Cor. to Secs. 1, 2, 35 & 36, marked with 5 notches on W. and 1 notch on E. edges and raised a mound of stone. Pits impracticable. from which
	A Pine 8 ins. diam. bears N. 80° E., 16 lks. dist.
	marked T. 32 N, R. 54 W, S., 36 B. T.
	A Pine 20 ins. diam. bears N. 45° W, 20 lks. dist.
	marked T. 32 N, R. 54 W, S., 35 B. T.

Chains.	
	A Pine 20 ins. diam. bears S. 60° W, 62 lks. dist.
	marked T. 31 N, R. 54 W, S., 2 B. T.
	A Pine 10 ins. diam. bears S. 20° E, 60 lks. dist.
	marked T. 31 N, R. 54 W, S., 1 B. T.
	Land mountainous
	Soil 3d rate.
	Timber of Pine.
	Vegetation of Bunchgrass.
	N. 89° 43' W. on a true line between sections 2 & 35.
	Va. 15° 30' East.
	Descend.
40.00	Set a Sand stone 20 x 10 x 6 ins., 15 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, and raised a mound of stone. Pits impracticable. from which
	A Pine 3 ins. diam. bears W, 30 lks. dist.
	marked ¼ S. B. T.
	A Pine 24 ins. diam. bears S. 65° E., 50 lks. dist.
	marked ¼ S. B. T.

M. B. T. 31 N. R. 54 W. 6th P. M.

Chains.	
60.00	Cross Ravine, Course. S. E.
78.00	Cross Ravine, Course. S. E.
80.00	**Set a** Sand **stone** 24 **x** 18 **x** 8 **ins.** 18 **ins. in the ground for Cor. to Secs.** 2, 3, 34 & 35, **marked with** 4 **notches on N. and** 2 **notches on E. edges and raised a mound of stone. Pits impracticable.**
	from which
	A Pine 10 ins. diam. bears S. 85° W, 22 lks. dist.
	marked T. 31 N, R. 54 W, S., 3 B. T.
	A Pine 12 ins. diam. bears N. 40° W, 60 lks. dist.
	marked T. 32 N, R. 54 W, S., 34 B. T.
	A Pine 20 ins. diam. bears S. 60° E, 42 lks. dist.
	marked T. 31 N, R. 54 W, S., 2 B. T.
	A Pine 18 ins. diam. bears N. 72° E, 70 lks. dist.
	marked T. 32 N, R. 54 W, S., 35 B. T.
	Land Rolling.
	Soil 2nd **rate.**
	Timber of Pine.
	Vegetation of Bunchgrass.

M. B. T. 31 N. R. 54 W. 6th P. M.

Chains.	
	N. 87° 45' W. on a true line between sections 3 and 34.
	Va. 15° 30' East.
6.00	Cross Ravine, Course. S. E.
14.00	Cross Ravine, Course. S. E.
21.50	Cross Ravine, Course. S. E. and ascend.
24.80	Leave Fort Robinson Wood and Timber Reservation, at a point 7.69 chs. N. of Post No. 9 and
	Set a Sand **stone** 14 x 10 x 4 **ins.** 9 **ins. in the ground for Closing Cor. to Secs.** 3 **and** 34 **marked C. C.** M. R. on W. side **with notch on E. and notch on W. edges and raised a mound of stone. Pits impracticable.**
40.00	Set a Sand stone 26 x 8 x 5 ins., 19 ins. in the ground, for ¼ Sec. Cor., marked ¼ on N. face, dug pits, 18 x 18 x 12 ins., N. and S. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
55.00	Top of Ridge, bears N. W. and S. E. and descend.
80.00	**Set a** Sand **stone** 42 x 10 x 6 **ins.** 30 **ins. in the ground for Cor. to Secs.** 3, 4, 33 & 34, **marked with** 3 **notches on N. and** 3 **notches on E. edges and raised a mound of stone. Pits impracticable.**

M. B. T. 31 N. R. 54 W. 6th P. M.

Chains.

from which

A Pine 8 ins. diam. bears S. 45° E., 45 lks. dist.
marked T. 31 N., R. 54 W., S., 3 B. T.

A Pine 4 ins. diam. bears N. 45° E., 24 lks. dist.
marked T. 32 N., R. 54 W., S., 34 B. T.

A Pine 14 ins. diam. bears N. 40° W., 108 lks. dist.
marked T. 32 N., R. 54 W., S., 33 B. T.

A Pine 20 ins. diam. bears S. 44° W., 85 lks. dist.
marked T. 31 N. R. 54 W., S., 4 B. T.

Land mountainous
Soil 3rd rate.
Timber of Pine.
Vegetation of Bunchgrass.

M. B. T. 31 N. R. 54 W. 6th P. M.

Chains.

N. 89° 45' W. on a true line between sections 4 & 33.
Va. 15° 30' East.

33.00 Cross Ravine, Course. N. E.

40.00 Set a Sand stone 16 x 14 x 8 ins., 11 ins. in the ground, for ¼ Sec. Cor., marked ¼ on N. face, dug pits, 18 x 18 x 12 ins., N. and S. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.

52.00 Leave Pine timber, bears N. and S.

80.00 Set a Sand stone 18 x 10 x 8 ins. 12 ins. in the ground for Cor. to Secs. 4, 5, 32 & 33, marked with 2 notches on N. and 4 notches on E. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high 4½ ft. base.

Land Rolling.
Soil 2nd rate.
Timber of Pine.
Vegetation of Bunchgrass.

M. B. T. 31 N. R. 54 W. 6th P. M.

Chains.

N. 89° 45' W. on a true line between sections 5 and 32.

Va. 15° 30' E.

40.00 Set a Sand stone 20 x 16 x 4 ins., 15 ins. in the ground, for ¼ Sec. Cor., marked ¼ on N. face, dug pits, 18 x 18 x 12 ins., N. and S. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.

67.00 Cross Gulch, 80 lks. wide, Course S. E.

80.00 Set a Sand stone 20 x 14 x 3 ins. 15 ins. in the ground for Cor. to Secs. 5, 6, 31 and 32 marked with 1 notch on N. and 5 notches on E. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high 4½ ft. base.

Land rolling.

Soil 3rd rate

Vegetation of Bunchgrass.

M. B. T. 31 N. R. 54 W. 6th P. M.

Chains.

N. 89° 45' W. on a true line between sections 6 and 31.

Va. 15° 40' E. Dist.

40.00 Set a Sand stone 20 x 14 x 3 ins., 15 ins. in the ground, for ¼ Sec. Cor., marked ¼ on N. face, dug pits, 18 x 18 x 12 ins., N. and S. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.

44.00 Cross Gulch, 50 lks. wide, Course S. E.

63.00 Cross Gulch, 20 lks. wide, Course S. E.

72.00 Cross Gulch, 30 lks. wide, Course S. E.

81.05 The Cor. to Tps. 31 & 32 N. Rs. 54 & 55 W.

Land Rolling.

Soil 2nd rate.

Timber of Pine.

Vegetation of Bunchgrass.

May 26th 1882.

W. B. T. 32 N. R. 54 W. 6th P. M.

Ch Chains.

North on a true line between sections 31 and 36.

Va. 15° 30' East

40.00 Set a Sand stone 18 x 10 x 3 ins., 12 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.

80.00 Set a Sand stone 18 x 12 x 3 ins. 12 ins. in the ground for Cor. to Secs. 25, 30, 31 & 36, marked with 1 notch on S. and 5 notches on W. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high 4½ ft. base.

Land rolling.

Soil 2nd rate

Vegetation of Bunchgrass.

W. B. T. 32 N. R. 54 W. 6th P. M.

ains.

North on a true line between sections 25 and 30.

Va. 15° 30' East.

6.53 Cross Ravine, Course. N. W.

23.00 Cross Ravine, Course. W. and ascend.

40.00 Set a Sand stone 16 x 8 x 8 ins., 11 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.

42.00 Cross Canon, ~~lks. wide~~, Course W. and ascend.

54.00 Cross Ravine, Course. W.

80.00 Set a Sand stone 24 x 20 x 14 ins. 18 ins. in the ground for Cor. to Secs. 19, 24, 25 & 30, marked with 2 notches on S. and 4 notches on W. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high 4½ ft. base.

Land 57.00 chs mountainous and 23.00 E. Rolling.

Soil 3rd rate.

Timber of Pine.

Vegetation of Bunchgrass.

W. B. T. 32 N. R. 54 W. 6th P. M.

Chains.	
	North on a true line between sections 19 & 24.
	Va. 15° 30' East.
20.00	Top of Ridge, bears N. W. & S. E. and descend.
	Enter Pine timber.
40.00	Set a Sand stone 18 x 10 x 8 ins., 12 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
	from which
	A Pine 6 ins. diam. bears S. 70° W, 29 lks. dist.
	marked ¼ S. B. T.
	A Pine 10 ins. diam. bears N. 5° E, 56 lks. dist.
	marked ¼ S. B. T.
53.00	Head of Ravine, Course N. E. and ascend
70.00	Top of Bluff, bears N. E. & S. W.
80.00	Set a Sand stone 14 x 12 x 6 ins. 9 ins. in the ground for Cor. to Secs. 13, 18, 19 & 24, marked with 3 notches on S. and 3 notches on W. edges and raised a mound of stone. Pits impracticable.
	from which

W. B. T. 32 N. R. 54 W. 6th P. M.

Chains.	
	A Pine 20 ins. diam. bears S. 12° E., 96 lks. dist.
	marked T. 32 N, R. 54, S., 19 B. T.
	A Pine 22 ins. diam. bears N. 80° E, 135 lks. dist.
	marked T. 32 N, R. 54 W, S., 18 B. T.
	A Pine 6 ins. diam. bears N. 25° W, 73 lks. dist.
	marked T. 32 N, R. 55 W, S., 13 B. T.
	A Pine ins. diam. bears lks. dist.
	marked T. R. , S., B. T.
	Land mountainous
	Soil 3rd rate.
	Timber of Pine.
	Vegetation of Bunchgrass.

W. B. T. 32 N. R. 54 W. 6th P. M.

Chains.	
	North on a true line between sections 13 and 18. Va. 15° 30' East.
16.00	Descend. N. E. slope.
40.00	Set a Sand stone 14 x 12 x 8 ins., 9 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
	from which
	A Pine 24 ins. diam. bears S. 45° E., 14 lks. dist. marked ¼ S. B. T.
	A Pine 10 ins. diam. bears S. 40° W., 20 lks. dist. marked ¼ S. B. T.
42.00	Descend. steep N. slope.
75.00	Foot of mountain, bears N. W. and S. E.
80.00	Set a Sand stone 20 x 10 x 8 ins. 15 ins. 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. Pits impracticable.
	from which
	A Pine 8 ins. diam. bears S. 45° E., 25 lks. dist. marked T. 32 N, R. 54 W, S., 18 B. T.

W. B. T. 32 N. R. 54 W. 6th P. M.

Chains.	
	A Pine 28 ins. diam. bears N. 35° E., 69 lks. dist. marked T. 32 N, R. 54 W, S., 7 B. T.
	A Pine 32 ins. diam. bears N. 8° W., 58 lks. dist. marked T. 32 N, R. 55 W, S., 12 B. T.
	A Cottonwood 8 ins. diam. bears S. 50° W., 84 lks. dist. marked T. 32 N, R. 55 W, S., 13 B. T.
	Land 59.00 chs. mountainous and 21.00 chs. level.
	Soil 2nd rate.
	Timber of Pine.
	Vegetation of Bunchgrass.

W. B. T. 32 N. R. 54 W. 6th P. M.

Chains.

North on a true line between sections 7 and 12.

Va. 15° 30' East.

8.50 Cross Creek, 30 lks. wide, Course S. E. and Leave Pine timber, bears E. and W.

10.00 Set a Sand stone 16 x 12 x 3 ins., 11 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.

80.00 **Set a** Sand **stone** 30 x 20 x 6 **ins.** 20 ins. in the ground for Cor. to Secs. 1, 6, 7 & 12, marked with 5 notches on S. and 1 notch on W. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high 4½ ft. base.

Land rolling.

Soil Good

rate

Vegetation of Bunch grass.

W. B. T. 32 N. R. 54 W. 6th P. M.

Chains.

North on a true line between sections 1 and 6.

Va. 15° 30' East.

8.00 Cross Creek, 40 lks. wide, Course N. W.

12.50 Cross Creek, 10 lks. wide, Course N. E.

14.00 Cross road from Fort Robinson to Hat Creek, bears N. W. and S. E.

17.50 Telegraph line from Hat Creek to Fort Robinson, course N. W. & S. E.

24.50 Cross Creek, 50 lks. wide, Course N. W.

40.00 Set a Sand stone 14 x 12 x 3 ins., 9 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.

81.70 Intersect the 8th Standard Parallel North at a point 7.57 chs. East. of the Standard Cor. to Secs. 31 and 32, T. 33 N., R. 54 W. at which point I.

Set a Sand stone 17 x 10 x 6 ins. 11 ins. in the ground, for Closing cor. to Tps. 32 N., R's 54 and 55 W., marked C. C., with 6 notches on S, E & W edges, dug pits 24 x 18 x 12 ins. crosswise on each line, S, E. & W. of stone 6 ft. dist. and raised a mound of earth, 2½ ft. high, 5 ft. base.

N.B. T.32 N. R.54 W. 6th P. M.

Chains.

Land rolling.

Soil 2nd *rate*

Vegetation of Bunchgrass and Sagebrush.

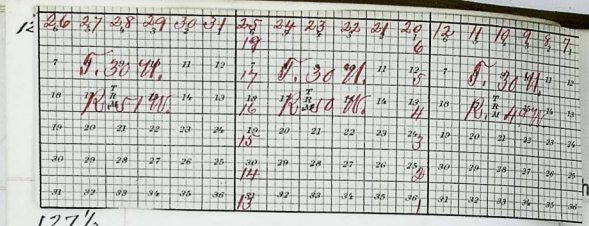
I carefully examined the adjustments of my solar compass to-day, particularly the latitude and reversing apparatus, and found them correct.

May 27th 1882.

U. S. Surveyor General's Office
Plattsmouth, Neb. Feb. 5th 1883.

The foregoing Field Notes of the Survey of the Exterior Lines of Tps. 31 and 32 North, Ranges 49, 50, 51, 52, 53 and 54 West of the Principal Base and Meridian in the State of Nebraska executed by Charles Buchanan U. S. Deputy Surv., under his contract No. 3 dated Nov. 11, 1881, in the month of May, 1882, having been critically examined, the necessary corrections and explanations made, the said Field Notes and the surveys they describe are hereby approved.

Geo. S. Smith
U. S. Surveyor General.



127½

The instrument I used, was made by W. & L. E. Gurley, of Troy, N. Y. in 1879.

On the 10th day of Nov. 1881, by permission, I carefully compared my instrument with the true meridian at Cheyenne, Wyoming, that being nearer my work than the one at Plattsmouth and found it to be correct.

On the 20th day of Mar. 1882, I set my instrument at the Cor. to Tps. 29 & 30 N., Rs. 49 & 50 W. and carefully examined it in all its adjustments and found it correct, I took the latitude and found it to be 42° 31' N. and proceeded to survey as follows:

E. B. T. 30 N. R. 50 W. 6th P. M.

hains.

From the Cor. to Tps. 29 & 30 N. Rs. 49 & 50 W. I run,

North on a true line between sections 31 & 36

Va. 15° 20' East.

Descend.

8.50 Cross Gulch, 10 lks. wide, Course N. E. and ascend.

25.00 Top of Spur, bears N. E. & S. W. and descend.

40.00 Set a Sand stone 19 x 10 x 6 ins., 15 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.

41.50 Cross Gulch, 15 lks. wide, Course N. E. and ascend.

60.00 Cross Gulch, 10 lks. wide, Course N. 80° E

72.00 Top of Spur, bears N. E. & S. W. and descend.

78.50 Cross Gulch, 10 lks. wide, Course N. E. and ascend.

80.00 Set a Sand stone 20 x 15 x 9 ins. 15 ins. in the ground for Cor. to Secs. 30, 31, 25 & 36 marked with 1 notch on S. and 5 notches on N. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high 4½ ft. base.

E. 18. T. 30 N. R. 50 W. 6th P. M.

Chains.

Land mountainous.
Soil 3rd rate
Vegetation Sagebrush & Bunchgrass

North on a true line between sections 25 & 30
Va. 15° 10' East.

Ascend.

8.00 Top of Spur, bears N. E. & S. W. and descend.
15.00 Cross Gulch, 5 lks. wide, Course S. W. and ascend.
21.00 Top of Spur, bears N. E. & S. W. and descend.
38.50 Cross Gulch, 5 lks. wide, Course S. W. and ascend.
40.00 Set a Sand stone 14 x 12 x 8 ins., 10 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
47.00 Top of Spur, bears N. E. & S. W. and descend.
59.00 Cross Gulch, 10 lks. wide, Course S. W. and ascend.
80.00 Set a Sand stone 20 x 14 x 8 ins. 15 ins. in the ground for Cor. to Secs. 24. 25. 19 & 30 marked with 2 notches on S. and 4 notches on N. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high 4½ ft. base.

E. 18. T. 30 N. R. 50 W. 6th P. M.

Chains.

Land mountainous.
Soil 3rd rate
Vegetation Sagebrush & Bunchgrass

North on a true line between sections 19 & 24
Va. 15° 35' East.

Ascend.

30.00 Top of Spur, bears E. & W. and descend.
40.00 Set a Sand stone 18 x 6 x 6 ins., 12 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
43.00 Cross Gulch, 10 lks. wide, Course N. 70° E. and ascend.
58.00 Top of Spur, bears N. E. & S. W. and descend.
69.50 Cross Gulch, 10 lks. wide, Course N. E. and ascend.
77.80 Top of Spur, bears N. E. & S. W. and descend.
80.00 Set a Sand stone 23 x 15 x 11 ins. 18 ins. in the ground for Cor. to Secs. 18, 19, 13 & 24 marked with 3 notches on S. and 3 notches on N. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high 4½ ft. base.

E. 12 T. 30 N. R. 50 W. 6th P. M.

Chains.

Land mountainous.
Soil 3rd " rate
Vegetation Bunchgrass & Sagebrush.

North on a true line between sections 13 & 18
Va. 15° 20' East.

Descend.

17.00 Cross Gulch, 5 lks. wide, Course East and ascend.
23.00 Top of Spur, bears E. & W. and descend.
31.25 Cross Gulch, 8 lks. wide, Course S. 75° E. and ascend.
38.00 Top of Spur, bears N. 75° W. & S. 75° E. and descend.
40.00 Set a Sand stone 12 x 10 x 9 ins., 8 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
51.10 Cross Gulch, 10 lks. wide, Course S. E. and ascend.
60.50 Top of Spur, bears S. E. & N. W. and descend.
73.60 Cross Gulch, 5 lks. wide, Course S. W. and ascend.
80.00 Set a Sand stone 17 x 13 x 10 ins. 12 ins. in the ground for Cor. to Secs. 7, 12, 13 & 18 marked with 4 notches on S. and 2 notches on A. edges, dug pits

E. 12 T. 30 N. R. 50 W. 6th P. M.

Chains.

18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high 4½ ft. base.

Land mountainous.
Soil 3rd " rate
Vegetation Bunchgrass & Sagebrush.

North on a true line between sections 7 & 12.
Va. 15° 15' East.

Ascend.

10.00 Top of Spur, bears S. E. & N. W. and descend.
40.00 Set a Sand stone 19 x 15 x 8 ins., 14 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, and raised a mound of stone. Pits impracticable.
57.60 Cross Gulch, 20 lks. wide, Course S. E. and ascend.

Over rolling land.

80.00 Set a Sand stone 11 x 9 x 7 ins. 8 ins. in the ground for Cor. to Secs. 6, 7, 1 & 12 marked with 5 notches on S. and 1 notches on A. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high 4½ ft. base.

E. 13. T. 30 N. R. 50 W. 6th P. M.

Chains.

Land mountainous.
Soil 3rd rate
Vegetation Sagebrush & Bunchgrass

North on a true line between sections 1 & 6
Va. 15° 30' East.

Over rolling land.

40.00 Set a Sand stone 14 x 10 x 7 ins., 10 ins. in the ground, for ¼ Sec. Cor., marked ¼ on N. face, dug pits, 18 x 18 x 12 ins., E. and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.

41.62 Cross Gulch, 15 lks. wide, Course S. E.

80.00 Set a Sand stone 23 x 19 x 13 ins. 18 ins. in the ground, for Cor. to Tps. 30 and 31 N. R's 49 and 50 W., marked with 6 notches on each edge, dug pits, 24 x 18 x 12 ins. lengthwise on each line, N. S. E. and W. of stone, 6 ft. dist., and raised a mound of earth 2½ ft. high, 5 ft. base.

Land rolling.
Soil 3rd & 3rd rate
Vegetation Bunchgrass - Sagebrush.

March 20th 1882.

N. 12. T. 30 N. R. 49 W. 6th P. M.

Chains.

Before proceeding further with the exteriors of this Tp., I made a change of 5 minutes in the latitude arc of my solar compass by adding same to the reading previously given, and at noon verified and corrected same by observation on the sun. I also further tested instrument by reversing.

From the Cor. to Tps. 30 & 31 N. Rs. 49 & 50 W.
I run East. on a random line on N. B. of Tp.
Va. 15° 30' East.

I set temporary corners at every half mile, and at 5 miles 79.25 chs. I arrive at a point 140 lks. South of Cor. to Tps. 30 & 31 N. Rs. 48 & 49 W. from which corner I run S 89° 50' W. on a true line between sections 1 & 36
Va. 15° 20' East.

Over rolling land.

40.00 Set a Sand stone 12 x 8 x 6 ins., 8 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits, 18 x 18 x 12 ins., W. and S. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.

80.00 Set a Sand stone 16 x 11 x 7 ins. 11 ins. in the ground for Cor. to Secs. 1, 2, 35 & 36, marked with 5 notches on W. and 1 notch on E. edges and raised a mound of stone. Pits impracticable.

M. B. T. 30 N. R. 47 W. 6th P. M.

Chains.

Land rolling.
Soil 3rd rate
Vegetation of Bunchgrass and Sagebrush.

S. 89° 58' W. on a true line between sections 2 & 35
Va. 15° 15' East.

Ascend.

31.00 Top of Spur, bears N. & S. and descend.

40.00 Set a Sand stone 11 x 10 x 8 ins., 7 ins. in the ground, for ¼ Sec. Cor., marked ¼ on M. face, dug pits, 18 x 18 x 12 ins., M. and S. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.

53.75 Cross Gulch, 10 lks. wide, Course N. 20° W. and ascend.

80.00 Set a Sand stone 16 x 11 x 7 ins. 11 ins. in the ground for Cor. to Secs. 2, 3, 34 and 35, marked with 4 notches on N. and 2 notches on E. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high 4½ ft. base.
Land hilly
Soil 3rd rate
Vegetation of Bunchgrass and Sagebrush.

M. B. T. 30 N. R. 49 W. 6th P. M.

Chains.

S. 89° 58' W. on a true line between sections 3 & 34
Va. 15° 00' East.

Ascend.

34.20 Top of Spur, bears N. W. & S. E. and descend.

40.00 Set a post 3 ft. long, 3 ins. diam.
12 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. on M. face, dug pits, 18 x 18 x 12 ins., M. and S. of post 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base around post.

80.00 Set a post 4 ft. long, 4 ins. square,
12 ins. in the ground, for Cor. to Secs. 3, 4, 33 and 34, marked T. 31 N. S. 34 on N. E., R. 49 W. S. 3 on S. E., T. 30 N. 4 on S. W. and S. 33 on N. W. face, with 3 notches on W. and 3 notches on E. edges; dug pits, 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high, 4½ ft. base around post.
Land mountainous.
Soil 3rd rate
Vegetation of Bunchgrass and Sagebrush.

M. B. T. 31 N. R. 47 W. 6th P. M.

Chains.

S. 87° 50' W. on a true line between sections 4 + 33

Va. 15° 00' East.

Over rolling land.

40.00 Set a post 3 ft. long, 3 ins. diam. 12 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. on W. face, dug pits, 18 x 18 x 12 ins., W. and S. of post 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base around post.

80.00 Set a Sand stone 9 x 8 x 6 ins. 6 ins. in the ground for Cor. to Secs. 4, 5, 32 & 33, marked with 2 notches on W. and 4 notches on E. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high 4½ ft. base.

Land rolling.

Soil 3rd rate

Vegetation of Bunchgrass & Sagebrush.

M. B. T. 30 N. R. 47 W. 6th P. M.

Chains.

S. 84° 50' W. on a true line between sections 5 + 32.

Va. 15° 00' East.

Over rolling land.

40.00 Set a Sand stone 16 x 11 x 9 ins., 11 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits, 18 x 18 x 12 ins., W. and S. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.

80.00 Set a Sand stone 11 x 8 x 7 ins. 7 ins. in the ground for Cor. to Secs. 5, 6, 31 & 32, marked with 1 notch on W. and 5 notches on E. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high 4½ ft. base.

Land rolling.

Soil 3rd rate

Vegetation of Bunchgrass & Sagebrush

M. R. T. 30 N. R. 49 W. 6th P. M.

Chains.

S. 89° 50' W. on a true line between sections 6 and 31.

Va. 15° 00' East.

Over rolling land.

40.00 Set a Sand stone 12 x 9 x 6 ins., 8 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits, 18 x 18 x 12 ins., N. and S. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.

79.25 The Cor. to Tps. 30 & 31 N. Rs. 49 & 50 W.

Land rolling.

Soil 3rd rate

Vegetation of Bunchgrass and Sagebrush.

March 21st 1882.

N. 33. T. 30 N. R. 50 W. 6th P. M.

Chains.

Before proceeding further with the exteriors of this Tp., I made a change of 5 minutes in the latitude arc of my solar compass by subtracting same from the reading previously given, and at noon verified and corrected same by observation on the sun. I also further tested instrument by reversing.

From the Cor. to Tps. 29 & 30 N. Rs. 50 & 51 W., I run,

North on a true line between sections 31 and 36.

Va. 15° 30' East.

Ascend.

40.00 Set a Sand stone 11 x 9 x 8 ins., 7 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.

66.00 Top of Hill bears N. E. and S. W. and descend

80.00 Set a post 4 ft. long, 4 ins. square, 12 ins. in the ground, for Cor. to Secs. 25, 30, 31 & 36, marked T. 30 N. S. 30, on N. E., R. 50 W., S. 31 on S. E., R. 51 W. S. 36 on S. W. and S. 25 on N. W. faces, with 1 notch on S. and 5 notch es on W. edges; dug pits, 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high, 4½ ft. base around post.

W. B. T. 30 N. R. 50 W. 6th P. M.

Chains.

Land hilly
Soil 3rd rate
Vegetation of Bunchgrass and Sagebrush.

North on a true line between sections 25 and 30.

Va. 15° 25' East.

Ascend.

40.00 Set a Sand stone 12 x 9 x 8 ins., 8 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.

58.00 Top of Hill bears N. W. and S. E. and descend.

80.00 Set a Sand stone 11 x 10 x 8 ins. 7 ins. in the ground for Cor. to Secs. 19, 24, 25 & 30, marked with 2 notches on S. and 4 notches on N. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high 4½ ft. base. from which A Pine 10 ins. diam. bears N. 50° W., 185 lks. dist. marked T. 30 N. R. 51 W. S. 24 B. T.

Land hilly
Soil 3rd rate
Vegetation of Bunchgrass and Sagebrush.
Timber of Pine.

W. B. T. 30 N. R. 50 W. 6th P. M.

Chains.

North on a true line between sections 19 and 24.

Va. 15° 20' East.

Descend.

4.00 Cross Gulch, 30 lks. wide, Course E. and ascend.

25.00 Top of Hill bears N. W. and S. E. and descend.

30.00 Cross Gulch, 20 lks. wide, Course N. E. and ascend.

33.00 Top of Spur, bears E. and W. and descend.

39.40 Cross Gulch, 60 lks. wide, Course S. 60° E. and ascend.

40.00 Set a Sand stone 12 x 10 x 8 ins., 8 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.

78.00 Top of Hill bears N. 50° E. and S. 50° W. and descend.

80.00 Set a Sand stone 12 x 8 x 6 ins. 8 ins. in the ground for Cor. to Secs. 13, 18, 19 and 24, marked with 3 notches on S. and 3 notches on N. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high 4½ ft. base.

Land mountainous.
Soil 3rd rate
Vegetation of Bunchgrass and Sagebrush

W. B. T. 30 N. R. 50 W. 6th P. M.

Chains.

North on a true line between sections 13 and 18.

Va. 15° 45' East.

Descend.

8.00 Cross Gulch, 30 lks. wide, Course S. 30° E. and ascend.

40.00 Set a Sand stone 11 x 9 x 6 ins., 7 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.

from which

A Pine 12 ins. diam. bears S. 20° W., 63 lks. dist. marked ¼ S. B. T.

60.00 Top of Hill bears N. W. and S. E. and descend.

80.00 A Pine 20 ins. diam. which I marked T. 30 N. S. 7, on N. E. R. 50 W. S. 18 on S. E. S. 13 (S. 51 W.), on S. W. and S. 12 on N. W. faces, with 4 notch es on S. and 1 notch on N edges, dug pits 18 x 18 x 12 ins. in each sec. 5½ ft. dist. and raised a mound of earth around tree, for cor. to secs. 7, 12, 13 and 18,

from which

A Pine 24 ins. diam. bears S. 40° E., 8 lks. dist. marked T. 30 N R. 50 W, S., 18 B. T.

W. B. T. 30 N. R. 50 W. 6th P. M.

Chains.

Land Hilly
Soil poor rate.
Timber of Pine.
Vegetation of Bunchgrass and Sagebrush.

North on a true line between sections 7 and 12.

Va. 15° 58' East.

Descend.

1.00 Cross Gulch, 40 lks. wide, Course E. and ascend.

7.00 Top of Hill bears N. E. and S. W. and descend.

10.00 Cross Gulch, 30 lks. wide, Course N. 80° E. and ascend.

22.00 Top of Spur, bears W. W. and S. E. and descend.

29.00 Cross Gulch, 200 lks. wide, Course S. 20° E. and ascend.

40.00 Set a Sand stone 11 x 9 x 6 ins., 7 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.

47.00 Top of Spur, bears W. W. and S. E. and descend.

49.00 Cross Gulch, 20 lks. wide, Course S. 30° W. and ascend.

80.00 Top of Hill bears N. 60° W. and S. 60° E. and

W. B. T. 30 N. R. 50 W. 6th P. M.

Chains.

Set a Sand stone 20 x 16 x 11 ins. 15 ins. in the ground for Cor. to Secs. 1, 6, 7 and 12, marked with 5 notches on S. and 1 notch on W. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high 4½ ft. base.

from which

A Pine 16 ins. diam. bears N. 10° W., 70 lks. dist. marked T. 30 N. R. 51 W., S., 1 B. T.

Land mountainous

Soil 3rd rate.

Timber of Pine.

Vegetation of Bunchgrass and Sagebrush.

W. B. T. 30 N. R. 50 W. 6th P. M.

Chains.

North on a true line between sections 1 and 6.

Va. 15° 50' East.

Descend.

10.00 Cross Gulch, 20 lks. wide, Course N. 80° E. and ascend.

40.00 Set a Sand stone 11 x 9 x 6 ins., 7 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.

80.00 Set a Sand stone 16 x 11 x 7 ins. 11 ins. in the ground, for Cor. to Tps. 30 and 31 N. R's 50 and 51 W., marked with 6 notches on each edge, dug pits, 24 x 18 x 12 ins. lengthwise on each line, N. S. E. and W. of stone, 6 ft. dist., and raised a mound of earth 2½ ft. high, 5 ft. base.

Land Hilly

Soil 3rd rate.

Timber of Pine.

Vegetation of Bunchgrass and Sagebrush.

March 22nd 1882.

N. B. T. 30 N. R. 50 W. 6th P. M.

Chains.

Before proceeding further with the exteriors of this Tp., I made a change of 5 minutes in the latitude arc of my solar compass by adding same to the reading previously given, and at noon verified and corrected same by observation on the sun. I also further tested instrument by reversing. Thus

From the Cor. to Tps. 30 & 31 N Rs. 50 . & 51 W.

I run East. on a random line on N B. of Tp.

Va. 15° 40' East.

I set temporary corners at every half mile, and at 6 miles 1.16 chs. I arrive at a point 171 lks. South of Cor. to Tps, 30 & 31 N. Rs. 49 & 50 W. from which corner I run S. 89° 48' W on a true line between sections 1 & 36

Va. 15° 30' East.

Ascend.

26.40 Top of Spur, bears N. E. & S. W. and descend.

40.00 Set a Sand stone 18 x 11 x 7 ins., 12 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits, 18 x 18 x 12 ins., W. and S. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.

61.10 Cross Gulch, 10 lks. wide, Course N. E. and ascend.

80.00 Set a Sand stone 17 x 8 x 6 ins. 11 ins. in

N. B. T. 30 N. R. 50 W. 6th P. M.

Chains.

the ground for Cor. to Secs. 1, 2, 35 & 36, marked with 5 notch on W. and 1 notch on E. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high 4½ ft. base.

Land mountainous.

Soil 3rd rate

Vegetation of Bunchgrass & Sagebrush.

S. 89° 48' W on a true line between sections 2 & 35

Va. 15° 35' East.

Ascend.

40.00 Set a Sand stone 16 x 11 x 8 ins., 11 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits, 18 x 18 x 12 ins., W. and S. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.

52.00 Top of Spur, bears N. & S. and descend.

80.00 Set a Sand stone 15 x 6 x 4 ins. 10 ins. in the ground for Cor. to Secs. 2, 3, 34 & 35, marked with 4 notches on W. and 2 notches on E. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high 4½ ft. base.

M. B. T. 30 N. R. 50 W. 6th P. M.

Chains.

Land Hilly
Soil 3rd rate
Vegetation of Bunchgrass and Sagebrush.

S. 89° 48' W. on a true line between sections 3 & 34
Va. 15° 35' E.

Descend.

40.00 Set a Sand stone 16 x 11 x 7 ins., 11 ins. in the ground, for ¼ Sec. Cor., marked ¼ on M. face, dug pits, 18 x 18 x 12 ins., M. and S. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.

43.00 Cross Gulch, 15 lks. wide, Course N. 10 W. and ascend.

80.00 Set a post 4 ft. long, 4 ins. square, 12 ins. in the ground, for Cor. to Secs. 3, 4, 33 & 34, marked T. 31 N. S. 34 on N. E., R. 50 W., S. 3 on S. E., T. 30 N. S. 4 on S. W. and S. 33 on N. W. faces, with 3 notches on W. and 3 notches on E. edges; dug pits, 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high, 4½ ft. base around post.

Land Hilly
Soil 3rd rate
Vegetation of Bunchgrass and Sagebrush.

M. B. T. 30 N. R. 50 W. 6th P. M.

Chains.

S. 89° 48' W. on a true line between sections 4 & 33
Va. 15° 40' East.

Ascend.

12.30 Top of Spur, bears N. & S. and descend.

40.00 Set a Sand stone 16 x 7 x 5 ins., 11 ins. in the ground, for ¼ Sec. Cor., marked ¼ on M. face, dug pits, 18 x 18 x 12 ins., M. and S. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.

59.63 Cross Gulch, 10 lks. wide, Course N. E. and ascend.

80.00 Set a post 4 ft. long, 4 ins. square, 12 ins. in the ground, for Cor. to Secs. 4, 5, 32 and 33, marked T. 31 N. S. 33 on N. E., R. 50 W., S. 4 on S. E., T. 30 N. S. 5 on S. W. and S. 31 on N. W. faces, with 2 notches on W. and 4 notches on E. edges; dug pits, 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high, 4½ ft. base around post.

Land Hilly
Soil 3rd rate
Vegetation of Bunchgrass and Sagebrush.

M. B. T. 30 N. R. 50 W. 6th P. M.

Chains.	
	S. 89° 48' W. on a true line between sections 5 & 32
	Va. 15° 45' E.
	Ascend.
23.00	Top of Spur, bears N. & S. and descend.
40.00	Set a post 3 ft. long, 3 ins. diam. 12 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. on W. face, dug pits, 18 x 18 x 12 ins., W. and S. of post 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base around post.
64.30	Cross Gulch, 12 lks. wide, Course North and ascend.
80.00	Set a post 4 ft. long, 4 ins. square, 12 ins. in the ground, for Cor. to Secs. 5, 6, 31 & 32 marked T. 31 N. S. 32, on N. E., R 50 W, S. 5 on S. E. T. 30 N. S. 6 on S. W. and S. 31 on N. W. faces, with / notch on W and 5 notches on E. edges; dug pits, 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high, 4½ ft. base around post.
	Land: Hilly
	Soil 3rd rate
	Vegetation of Bunchgrass & Sagebrush.

M. B. T. 30 N. R. 50 W. 6th P. M.

Chains.	
	S. 89° 46' W. on a true line between sections 6 & 31.
	Va. 15° 40' East.
	Ascend.
11.00	Top of Spur, bears N. & S. and descend.
37.45	Cross Gulch, 12 lks. wide, Course North and ascend.
40.00	Set a Sand stone 18 x 11 x 9 ins., 12 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, and raised a mound of stone. Pits impracticable.
81.16	The Cor. to Tps. 30 & 31 N. Rs. 50 & 51 W.
	Land mountainous.
	Soil 3rd rate
	Vegetation of Bunchgrass & Sagebrush.
	March 23rd 1882.

M. B. T. 30 N. R. 51 W. 6th P. M.

Chains.	
	From the Cor. to Tps. 30 & 31 N., Rs. 50 & 51 W.
	I run West. on a random line on M. B. of Tp.
	Va. 15° 40' East.
	I set temporary corners at every half mile, and at 6 miles
	1.39 chs. I arrive at a point 93 lks. North of Cor. to Tps.
	30 & 31 N., Rs. 51 & 52 W. from which corner I run
	N. 89° 53' E. on a true line between sections 6 & 31.
	Va. 15° 40' East.
	Ascend.
2.59	Cross Road, bears, N. 20° E. and S. 20° W.
31.29	Top of Hill bears N. and S. and descend.
41.29	Set a Sand stone 12 x 11 x 6 ins., 8 ins. in the ground, for ¼ Sec. Cor., marked ¼ on M. face, dug pits, 18 x 18 x 12 ins., M. and S. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
51.29	Cross Gulch, 15 lks. wide, Course N. 10° E. and ascend.
73.29	Top of Spur, bears N. and S. and descend.
80.39	Cross Gulch, 10 lks. wide, Course N. 10° E. and ascend.
81.39	Set a Sand stone 9 x 8 x 7 ins. 6 ins. in the ground for Cor. to Secs. 5, 6, 31 and 32, marked with 1 notch on W. and 5 notches on E. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high 4½ ft. base.

M. B. T. 30 N. R. 51 W. 6th P. M.

Chains.	
	Land mountainous.
	Soil 3rd rate
	Vegetation of Bunchgrass and Sagebrush.
	N. 89° 53' E. on a true line between sections 5 and 32.
	Va. 15° 40' East.
	Ascend.
8.00	Top of Hill bears N. and S. and descend.
13.00	Cross Creek, 7 lks. wide, Course N. 40° W. and ascend.
30.00	Top of Hill bears N. and S. and descend.
38.00	Cross Creek, 8 lks. wide, Course S. 70° W. and ascend.
40.00	Set a Sand stone 9 x 8 x 7 ins., 6 ins. in the ground, for ¼ Sec. Cor., marked ¼ on M. face, dug pits, 18 x 18 x 12 ins., M. and S. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
47.00	Cross Creek, 10 lks. wide, Course N. 50° W. and ascend.
80.00	Set a Sand stone 11 x 9 x 6 ins. 7 ins. in the ground for Cor. to Secs. 4, 5, 32 and 33, marked with 2 notches on W. and 4 notches on E. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high 4½ ft. base.

M. B. T. 30 N. R. 51 W. 6th P. M.

Chains.	
	Land mountainous.
	Soil 3rd rate
	Vegetation of Bunchgrass and Sagebrush.
	N. 89° 53' E. on a true line between sections 4 and 33.
	Va. 15° 35' East.
	Descend.
10.00	Cross Gulch, 20 lks. wide, Course S. E., and ascend.
40.00	**Set a** Sand stone 12 x 8 x 6 ins., 8 ins. in the ground, for ¼ Sec. Cor., marked ¼ on M. face, dug pits, 18 x 18 x 12 ins., M. and S. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
46.00	Top of Hill bears M. and S. and descend.
54.00	Cross Gulch, 20 lks. wide, Course N. 10° E., and ascend.
72.00	Top of Hill bears M. and S. and descend.
79.60	Cross Gulch, 20 lks. wide, Course N., and ascend.
80.00	**Set a** Sand stone 12 x 8 x 6 ins. 8 ins. in the ground for Cor. to Secs. 3, 4, 33 and 34, marked with 3 notches on W and 3 notches on E. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high 4½ ft. base.

M. B. T. 30 N. R. 51 W. 6th P. M.

Chains.	
	Land mountainous.
	Soil 3rd rate
	Vegetation of Bunchgrass and Sagebrush.
	N. 89° 53' E. on a true line between sections 3 and 34.
	Va. 15° 30' East.
	Ascend.
4.00	Top of Hill bears M. and S. and descend.
33.00	Cross Canon, 250 lks. wide, Course N. 20° W. and ascend.
40.00	**Set a** Sand stone 11 x 10 x 8 ins., 7 ins. in the ground, for ¼ Sec. Cor., marked ¼ on M. face, dug pits, 18 x 18 x 12 ins., M. and S. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
58.00	Top of Hill bears N. 20° E. and S. 20° W. and descend.
74.00	Cross Gulch, 20 lks. wide, Course N., and ascend.
80.00	**Set a** Sand stone 14 x 12 x 11 ins. 9 ins. in the ground for Cor. to Secs. 2, 3, 34 and 35, marked with 4 notches on W and 2 notches on E. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high 4½ ft. base.

M. B. T. 30 N. R. 51 W. 6th P. M.

Chains.

Land mountainous.
Soil 3rd rate
Vegetation of Bunchgrass and Sagebrush.

N. 89° 53' E. on a true line between sections 2 and 35.
Va. 15° 40' East.

Ascend.

10.00 Top of Hill bears N. E. and S. W. and descend.

30.00 Cross Gulch, 30 lks. wide, Course N. 20° E. and ascend.

40.00 Set a Sand stone 12 x 11 x 9 ins., 8 ins. in the ground, for ¼ Sec. Cor., marked ¼ on N. face, dug pits, 18 x 18 x 12 ins., N. and S. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.

60.00 Top of Hill bears N. and S. and descend.

70.00 Cross Gulch, 20 lks. wide, Course N. 20° W. and ascend.

80.00 Set a Sand stone 11 x 9 x 8 ins. 7 ins. in the ground for Cor. to Secs. 1, 2, 35 and 36, marked with 5 notches on N and 1 notch on E. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high 4½ ft. base.

M. B. T. 30 N. R. 51 W. 6th P. M.

Chains.

Land mountainous. Timber of Pine.
Soil 3rd rate
Vegetation of Bunchgrass and Sagebrush.

N. 87° 53' E. on a true line between sections 1 and 36.
Va. 15° 45' East.

Ascend.

20.00 Top of Hill bears N. and S. and descend.

27.00 Cross Gulch, 30 lks. wide, Course S. and ascend.

40.00 Set a Sand stone 12 x 9 x 8 ins., 8 ins. in the ground, for ¼ Sec. Cor., marked ¼ on N. face, dug pits, 18 x 18 x 12 ins., N. and S. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base. on

Top of Hill bears N. and S. and descend.

59.00 Cross Gulch, 30 lks. wide, Course N. and ascend.

68.00 Top of Hill bears N. and S. and descend.

77.00 Cross Gulch, 20 lks. wide, Course N. and ascend.

80.00 The Cor. to Tps. 30 & 31 N. Rs. 50 & 51 W.
Land mountainous
Soil 3rd rate.
Timber of Pine.
Vegetation of Bunchgrass and Sagebrush.

M. B. T. 30 N. R. 51 W. 6th P. M.

Chains.

I carefully examined the adjustments of my solar compass to-day, particularly the latitude and reversing apparatus, and found them correct.

March 24th 1882.

T. N. R. W. 6th P. M.

Chains.

U. S. Surveyor General's Office
Plattsmouth Neb. Dec. 18th 1883

The foregoing Field Notes of the Survey of the Exterior Lines of Tps. No. 30 North, of Ranges Nos 49, 50 & 51 West, of the Principal Base & Meridian in the State of Nebraska executed by W. F. Hickey, U. S. Deputy Surveyor, under his contract No. 4, dated Nov. 10th 1881, in the month of March 1882, having been critically examined, the necessary corrections & explanations made, the said Field Notes & the Surveys they describe are hereby approved.

Geo. S. Smith
Surveyor General.

160 ½
Title Page

Field Notes
of
Exterior Lines
of
Townships 29 North
of
Ranges 53.54.55 & 56 West.
and
Townships 30 north
of
Ranges 52.53.54.55.56 & 57 West.

By
W. F. Reilly Deputy Surveyor
under Contract No 2
Dated September 22 1881

Survey made with Burt's Patent Improved Solar Compass, nearly new, and in first rate order. Made by W. & L. E. Gurley of Troy, N. Y. in 1881. On the 20th day of October 1881 by permission I carefully compared my instrument with the true Meridian at Cheyenne, Wyoming, that being nearer my work than the one at Plattsmouth and found it to be correct, with the exception of a small, index error in the declination arc which I corrected by loosening the screws that held the vernier plate to same and sliding the vernier and then proceeded to the Standard Cor. to Tps. 29 N. Rs. 53 & 54 W. I took the latitude and found it to be 42° 26' North.

W. B. T. 29 N. R. 53 W. 6th. P. M.

Chains.

From the Standard Cor. to Tps. 29 N. Rs. 53 & 54 W. which is a mound and pits with post in E. pit, I run North on a true line between sections 31 & 36.

Va. 16° East.

Descend.

5.50 Cross Wash, 30 lks. wide, course S. 37° E. and ascend.

18.50 Top of Spur, bears E. & W. and descend.

22.00 Cross Wash, 75 lks. wide, course S. 30° E. and ascend.

27.50 Top of Spur, bears N. W. & S. E. and descend.

35.00 Cross Wash, 30 lks. wide, course S. 30° E. and ascend.

39.50 Top of Spur, bears S. E. & N. W. and descend.

40.00 Set a sand stone 14 x 16 x 6 ins., 10 ins. in the ground. For 1/4 Sec. Cor., marked on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of stone 5 1/2 ft. diag. and raised a mound of earth 1 1/2 ft. high, 3 1/2 ft. base.

W. B. T. 29 N. R. 53 W. 6th. P. M.

Chains.

44.00 Cross Wash, 60 lks. wide, Course S. 45° E. and ascend.

56.00 Top of Spur, bears N. 20° W. & S. 20° E. and descend.

76.00 Cross Wash, 100 lks. wide, Course S. 80° E. and ascend.

80.00 Set a sand stone 14 x 10 x 4 ins. 10 ins. in the ground for Cor. to Secs. 30-31-25-36 marked with 1 notch on S. and 5 notches on W. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high, 4½ ft. base.

Land mountainous.

Soil 3d. rate.

Vegetation Bunchgrass.

North, on a true line between sections 25-30. Va. 16° East.

Descend.

6.98 Cross Wash, 30 lks. wide, Course S. 40° E.

37.80 Cross Wash, 35 lks. wide, Course S. 33° E.

W. B. T. 29 N. R. 53 W. 6th. P. M.

Chains.

and ascend.

40.00 Set a sand stone 14 x 8 x 7 ins. 10 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits 18 x 18 x 12 ins. E. and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.

45.00 Top of Ridge, bears S. E. & N. W. and descend.

48.20 Cross Gulch, 20 lks. wide, Course S. 60° E. and ascend.

53.30 Top of Spur, bears N. 50° W. & S. 50° E. and descend.

61.53 Cross Gulch, 35 lks. wide, Course S. 30° E. and ascend.

65.00 Top of Spur, bears N. 40° W. & S. 40° E. and descend.

71.00 Cross Gulch, 37 lks. wide, Course South and ascend.

75.30 Top of Spur, bears N. W. & S. E. and descend.

80.00 Set a sand stone 14 x 6 x 8 ins. 5 ins. in the ground for Cor. to Secs. 24-25-19-30 marked with 2 notches on S. and 4 notches

W. B. T. 29 N. R. 53 W. 6th. P. M.

Chains.

on N. edges, dug pits 18 x 18 x 12 ins. in each sec., 5½ ft. dist., and raised a mound of earth 2 ft. high 4½ ft. base.
Land mountainous.
Soil 3d. rate.
Vegetation Bunchgrass.

North on a true line between sections 19 24.
Va. 15° 25' East.

Ascend.

.75 Top of Ridge, bears N. 50° W. & S. 50° E. and descend.
6.15 Cross Wash, 60 lks. wide, Course S. 35° E. and ascend.
9.70 Top of Spur, bears S. E. & N. W. and descend.
24.50 Cross Gulch, 30 lks. wide, Course S. 20° E. and ascend.
35.80 Top of Spur, bears N. 25° W. & S. 25° E. and descend.
40.00 Set a sand stone 11 x 9 x 5 ins., 8 ins. in the ground, for 1/4 Sec. Cor., marked 1/4 on

W. B. T. 29 N. R. 53 W. 6th. P. M.

Chains.

W. face, dug pits, 18 x 18 x 12 ins., E. and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 5½ ft. base.
54.00 Cross Wash, 65 lks. wide, Course S. 43° W. and ascend.
59.00 Top of Spur, bears N. W. & S. E. and descend.
61.00 Enter Flat bears N. W. & S. E.
73.00 Leave Flat bears N. W. & S. E. and ascend.
80.00 Set a sand stone 12 x 8 x 6 ins. 8 ins. in the ground for Cor. to Secs. 18 19 13 24 marked with 3 notches on S. and 3 notches on N. edges, dug pits 18 x 18 x 12 ins. in each sec., 5½ ft. dist., and raised a mound of earth 2 ft. high, 4½ ft. base.
Land mountainous.
Soil 3d. rate.
Vegetation Bunchgrass.

W. B. T. 29 N. R. 53 W. 6th. P. M.

Chains.

North, on a true line, between sections 13-18.
Va. 16° East.

Over rolling land.

40.00 Set a sand stone 10 x 8 x 5 ins., 6 ins. in the ground, for 1/4 Sec. Cor., marked 1/4 on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.

44.25 Cross Wash, 100 lks. wide, Course S. 50° E. and ascend.

70.50 Top of bluff bears E. & W. and descend.

80.00 Set a sand stone 12 x 7 x 7 ins., 8 ins. in the ground for Cor. to Secs. 12-13-7-18 marked with 4 notches on S. and 2 notches on N. edges, dug pits 18 x 18 x 12 ins. in each Sec., 3½ ft. dist., and raised a mound of earth 2 ft. high 4½ ft. base.

Land rolling.

Soil 2d. & 3d. rate.

Vegetation Bunchgrass.

W. B. T. 29 N. R. 53 W. 6th. P. M.

Chains.

North, on a true line, between sections 7-12.
Va. 16° 30' East.

Descend.

22.10 Cross Gulch, 25 lks. wide, Course S. 60° E. and ascend.

31.40 Top of Spur, bears N. W. & S. E. and descend.

40.00 Set a sand stone 12 x 5 x 6 ins., 8 ins. in the ground, for 1/4 Sec. Cor., marked 1/4 on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.

53.00 Cross Gulch, 90 lks. wide, Course S. 50° E. and ascend.

68.00 Top of Spur, bears S. 40° E. & N. 40° W. and descend.

77.20 Cross Gulch, 200 lks. wide, Course S. 30° E. and ascend.

80.00 Set a sand stone 20 x 10 x 7 ins., 15 ins. in the ground for Cor. to Secs. 6-7-1-12 marked with 5 notches on S. and 1 notch on N. edges, dug pits 18 x 18 x 12 ins. in

W. B. T. 29 N. R. 53 W. 6th. P. M.

Chains.

each sec., 5½ ft. dist., and raised a mound of earth 2 ft. high, 4½ ft. base.

Land mountainous.

Soil 3d. rate.

Vegetation Bunchgrass.

North on a true line between sections 1-6.

Va. 16° 30' East.

Descend.

23.00 Cross Gulch, 30 lks. wide, Course S. 30° E. and ascend.

37.50 Top of Spur, bears E. & W. and descend.

40.00 Set a sand stone 10 x 8 x 5 ins., 6 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.

41.00 Enter Flat bears E. & W.

51.00 Leave Flat bears E. & W. and ascend.

61.00 Top of Spur, bears E. & W. and descend.

W. B. T. 29 N. R. 53 W. 6th. P. M.

Chains.

69.80 Cross Wash, 50 lks. wide, Course S. 70° E. and ascend.

80.00 Set a sand stone 14 x 12 x 8 ins. 11 ins. in the ground, for Cor. to Tps. 29 and 30 N. R's 53 and 54 W., marked with 6 notches on each edges, dug pits, 24 x 18 x 12 ins. lengthwise in each line, N. S. E. and W. of stone, 6 ft. dist., and raised a mound of earth 5 ft. high, 8 ft. base.

Land mountainous.

Soil 3d. rate.

Vegetation Bunchgrass.

Oct. 24. 1881.

N. B. T. 29 N. R. 53 W. 6th P. M.

Chains.

Before proceeding further with the duties of this Tp., I made a change of 5 minutes in the latitude arc of my solar compass by adding same to the reading previously given, and afternoon verified and corrected same by observation on the sun. I also further tested instrument by reversing. I found the latitude to be 42° 31' N.

Thence

From the Cor. to Tps. 29 & 30 N., Rs. 53 & 54 W. I run East on a random line in N. B. of Tp.

Va. 16° East.

Set temporary corners at every half mile, and at 6 miles 0.70 chs. I arrive at a point 30 lks. South of Cor. to Tps. 29 & 30 N. Rs. 52 & 53 W. which is a mound and pits with post in C. Sit, from which corner, I run

S. 89° 55' W. on a true line between sections 1 & 36,

N. B. T. 29 N. R. 53 W. 6th P. M.

Chains.

Va. 15° 51' East.

Descend.

3.50 Cross low Sag and ascend.

27.00 Top of Ridge, bears N. W. & S. E. and descend.

40.00 Set a sand stone 12 x 5 x 6 ins., 5 ins. in the ground. Cor. of Sec. Cor., marked ¼ on N. face, dug pits, 18 x 18 x 12 ins., N. and S. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.

51.50 Cross Road, bears N. 50° E. & S. 50° W.

56.00 Cross Road, bears N. & S.

80.00 Set a sand stone 18 x 6 x 12 ins. 12 ins. in the ground for Cor. to Secs. 1-2-35-36 marked with 5 notches on W. and 1 notch on E. sides and raised a mound of stones.

Pits impracticable.

Land mountainous.

Soil 3d. rate.

Vegetation Bunchgrass.

N. B. T. 29 N. R. 53 W. 6th. P. M.

Chains.

S. 89° 55' W. on a true line between sections 2-35.
Va. 15° 40' East.

15.00 Ascend.
33.00 Enter timber bears N. W. & S. E.
33.79 A Pine 8 ins. diam.
40.00 Set a sand stone 14x9x6 ins., 11 ins. in the ground, for 1/4 Sec. Cor., marked 1/4 on W. face, and raised a mound of stone. Pits impracticable.
43.00 Cross Gulch, 20 lks. wide, Course S. 50 E. and ascend.
46.00 Leave timber bears N. W. & S. E.
60.00 Top of Ridge, bears N. 10° W. & S. 10° E. and descend.
80.00 Set a sand stone 16x14x12 ins. 11 ins. in the ground for Cor. to Secs. 2-3-34-35 marked with 4 notches on W. and 2 notches on E. edge, dug pits 18x18x12 ins. on each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high, 4½ ft. base.
Land mountainous.

N. B. T. 29 N. R. 53 W. 6th. P. M.

Chains.

Hill 3d. rate.
Timber and undergrowth of Pine and Bunch grass.

S. 89° 55' W. on a true line between sections 3-34.
Va. 15° 35' East.

Descend.
24.40 Cross Gulch, 20 lks. wide, Course S. 25° W. and ascend.
28.00 Top of hill bears N. & S. and descend.
31.90 Cross Gulch, 30 lks. wide, Course South and ascend.
46.00 Set a sand stone 14x9x5 ins., 8 ins. in the ground, for 1/4 Sec. Cor., marked 1/4 on W. face, dug pits, 18x18x12 ins., N. and S. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
70.00 Top of hill bears N. & S. and descend.
80.00 Set a sand stone 12x9x6 ins. 8 ins. in the ground for Cor. to Secs. 3-4-33-34

N. B. T. 29 N. R. 53 W. 6th. P. M.

Chains.

marked with 3 notches on W. and 3 notches on E. edges, dug pits 18 x 18 x 12 ins. in each sec., 5½ ft. dist., and raised a mound of earth 2 ft. high, 1½ ft. base.

Land mountainous.

Soil 3d. rate.

Vegetation Bunchgrass.

S. 89° 58' W. on a true line between sections 4-33

Va. 15° 35' East.

Descend.

22.00 Enter timber bears N. W. & S. E.

26.40 Cross Gulch, 1 links. wide, Course S. 25° W. and ascend.

33.00 Top of hill bears N. & S. and descend.

36.00 Cross Gulch, 100 lks. wide, Course S. 30° E. and ascend.

40.00 Set a post 3 ft. long, 3 ins. diam. 12 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. on W. face, dug pits 18 x 18 x 12 ins., W. and S. of post 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base around post from which bears

A Pine 6 ins. diam. bears S. 35° W. 16 lks. dist. marked ¼ S. B. T.

40.50 Leave timber bears N. W. & S. E.

65.00 Top of Spur, bears N. & S. and descend.

80.00 Set a sand stone 18 x 18 x 9 ins. 12 ins. in the ground for Cor. to Secs. 4-5-32-33 marked with 2 notches on W. and 4 notches on E. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high, 1½ ft. base.

Land mountainous.

Soil 3d. rate.

Timber and undergrowth of Pine and Bunchgrass.

S. 89° 58' W. on a true line between sections 5-32.

Va. 15° 12' East.

N. B. T. 29 N. R. 53 W. 6th. P. M.

Chains.

T. 29 N. R. 53 W. 6th. P. M.

Chains.

Descend.

5.30 Cross Gulch, 15 lks. wide, Course S. 35° E.
and ascend.

25.00 Top of Ridge, bears N. 15° W. & S. 15° E.
and descend.

32.59 Cross Road, bears N. 10° W. & S. 10° E.

40.00 Set a sand stone 14 x 14 x 6 ins., 18 ins. in the ground, for 1/4 Sec. Cor., marked 1/4 on W. face, dug pits, 18 x 18 x 12 ins., N. and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high 3½ ft. base.

70.61 Cross Gulch, 30 lks. wide, Course S. 10 E.
and ascend.

76.00 Top of hill bears N. & S. and descend.

80.00 Set a sand stone 20 x 15 x 9 ins. 15 ins. in the ground for Cor. to Secs. 5-6-31-32 marked with 1 notch on N. and 5 notches on E. edge, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high, 1½ ft. base.

Land mountainous.

T. 29 N. R. 53 W. 6th. P. M.

Chains.

Soil 3d. rate.
Vegetation Bunchgrass.

S. 89° 55' W. on a true line between sections 6-31.
Va. 15° 30' East.

Descend.

21.00 Enter Flat bears N.W. & S.E.

40.00 Set a sand stone 16 x 14 x 9 ins., 18 ins. in the ground, for 1/4 Sec. Cor., marked 1/4 on W. face, dug pits, 18 x 18 x 12 ins., N. and S. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.

54.00 Leave Flat bears N.W. & S.E.

70.34 Cross Wash, 30 lks. wide, Course S. 30 E.
and ascend.

80.70 The Cor. to Tps. 29 & 30 N. Rs. 53 & 54 W.

Land rolling.
Soil 2d. rate.
Vegetation Bunchgrass.

Oct. 25-1881.

W. B. T. 29 N. R. 54 W. 6th. P. M.

Chains.

Before proceeding to run the exteriors of this Tp., I made a change of 5 minutes in the latitude arc of my solar compass by subtracting same from the reading previously given, and at noon verified and corrected same by observation on the Sun. I also further tested instrument by reversing. Thence

From the Standard Cor. to Tps. 29 N. Rs. 54 & 55 W. which is a limestone 20 x 8 x 3 in. earth I run

North on a true line between sections 31 & 36.

Va. 16° East.

Ascend.

19.00 Top of Ridge, bears E. & W. and descend.

40.00 Set a sand stone 10 x 9 x 8 ins., 6 ins. in the ground, for 1/4 Sec. Cor., marked 1/4 on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of stone 5 1/2 ft. dist., and raised a mound of earth 1 1/2 ft. high, 3 1/2 ft. base.

W. B. T. 29 N. R. 54 W. 6th. P. M.

Chains.

68.00 Cross Gulch, 40 lks. wide, Course S. 60° W. and ascend.

80.00 Set a sand stone 14 x 10 x 5 ins. 10 ins. in the ground for Cor. to Secs. 30-31-25-36 marked with 1 notch on S. and 5 notches on W. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5 1/2 ft. dist., and raised a mound of earth 2 ft. high, 4 1/2 ft. base.

Land mountainous.

Soil 3d. rate.

Vegetation Bunchgrass.

North on a true line between sections 25-30.

Va. 16° East.

Ascend.

4.50 Top of Ridge, bears E. & W. and descend.

10.20 Cross Gulch, 40 lks. wide, Course S. 30° W. and ascend.

19.00 Top of Spur, bears N. 20° W. & S. 20° E. and descend.

26.00 Cross Gulch, 30 lks. wide, Course East and ascend.

W. B. T. 29 N. R. 54 W. 6th. P. M.

Chains.

37.50 Top of Spur, bears E. & W. and descend.
40.00 Set a sand stone 14x8x5 ins., 6 ins. in the ground, for 1/4 Sec. Cor., marked 1/4 on W. face, dug pits, 14x18x12 ins., E. and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
149.00 Top of Ridge, bears E. & W. and descend.
61.00 Cross Gulch, 20 lks. wide, Course S. 40 W. and ascend.
80.00 Set a sand stone 14x8x8 ins. 10 ins. in the ground for Cor. to Secs. 24-25-19-30 marked with 2 notches on S. and 4 notches on W. edges, dug pits 18x18x12 ins. in each sec., 5½ ft. dist., and raised a mound of earth 2½ ft. high, 4½ ft. base.
Land mountainous.
Soil 3d. rate.
Vegetation Bunchgrass.

North on a true line between sections 19-24.
Va. 16° East.

W. B. T. 29 N. R. 54 W. 6th. P. M.

Chains.

Descend.
16.50 Cross Gulch, 20 lks. wide, Course S. 65° E. and ascend.
46.00 Set a sand stone 14x12x9 ins., 10 ins. in the ground, for 1/4 Sec. Cor., marked 1/4 on W. face, dug pits, 15x15x12 ins., E. and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
57.00 Top of Ridge, bears E. & W. and descend.
80.00 Set a sand stone 16x14x8 ins. 10 ins. in the ground for Cor. to Secs. 18-19-13-24 marked with 3 notches on S. and 3 notches on W. edges, dug pits 18x18x12 ins. in each sec., 5½ ft. dist., and raised a mound of earth 2½ ft. high, 4½ ft. base.
Land mountainous.
Soil 3d. rate.
Vegetation Bunchgrass.

North on a true line between sections 13-18.
Va. 16° 9' East.

W. B. T. 29 N. R. 54 W. 6th. P. M.

Chains.

Descend gradually over rolling land.

110.00 Set a sand stone 14 x 9 x 7 ins., 10 ins. in the ground, for 1/4 Sec. Cor., marked 1/4 on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.

119.00 Cross Gulch, 20 lks. wide, Course East.

69.00 Cross Gulch, 30 lks. wide, Course N. 70° E.

80.00 Set a sand stone 17 x 9 x 7 ins. 12 ins. in the ground for Cor. to Secs. 12-13-7-18 marked with 4 notches on S. and 2 notches on N. edges, dug pits 18 x 18 x 12 ins. in each sec., 5½ ft. dist., and raised a mound of earth 2 ft. high, 4½ ft. base.

Land rolling.

Soil 3d. rate.

Vegetation Bunchgrass.

W. B. T. 29 N. R. 54 W. 6th. P. M.

Chains.

North in a true line between sections 7-12.

Va. 16° 6' East.

114.14 Cross Gulch, 30 lks. wide, Course S. 70° E. and ascend.

51.00 Top of Ridge, bears E. & W. and descend.

40.00 Set a sand stone 15 x 11 x 6 ins., 12 ins. in the ground, for 1/4 Sec. Cor., marked 1/4 on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base in the Sag and ascend.

60.00 Top of Spur, bears E. & W. and descend.

80.00 Set a sand stone 12 x 12 x 8 ins. 8 ins. in the ground for Cor. to Secs. 6-7-1-12 marked with 5 notches on S. and 1 notch on W. edges, dug pits 18 x 18 x 12 ins. in each sec., 5½ ft. dist., and raised a mound of earth 2 ft. high 4½ ft. base.

Land mountainous.

Soil 3d. rate.

Vegetation Bunchgrass.

W. B. T. 29 N. R. 54 W. 6th. P. M.

Chains.

North, on a true line between sections 1-6.
Va. 16° East.

Descend.

5.90 Cross Gulch, 20 lks. wide, Course East.
17.25 Cross Gulch, 24 lks. wide, Course East.
40.00 Set a sand stone 14 x 12 x 6 ins., 16 ins. in the ground, for 1/4 Sec. Cor., marked 1/4 on W. face, dug pits, 18 x 16 x 12 ins., E. and W. of stone 3½ ft. dist. and raised a mound of earth 1½ ft. high, 3½ ft. base.
69.50 Cross Gulch, 12 lks. wide, Course S. 34° E.
80.00 Set a lime stone 14 x 14 x 12 ins. 16 ins. in the ground for Cor. to Tps. 29 and 30 N. Rs. 54 and 55 W., marked with 6 notches on each edge, dug pits, 24 x 16 x 12 ins. lengthwise in each line, N. S. E. and W. of stone, 6 ft. dist., and raised a mound of earth 2½ ft. high, 5 ft. base.

Land rolling. Soil 2d. rate.
Vegetation Bunchgrass. Oct. 26-1881.

W. B. T. 29 N. R. 54 W. 6th. P. M.

Chains

Before proceeding further with the extension of this Tp., I made a change of 5 minutes in the latitude arc of my solar compass by adding same to the reading previously given, and as now verified and corrected same by observation on the sun. I also further tested instrument by reversing. From the Cor. to Tps. 29 & 30 N., Rs. 54 & 55 W. Run East on a random line on N. B. of Tp.
Va. 16° East.

Set temporary corners at every half mile, and at 5 miles 78.74 chs. I arrive at a point 156 lks. South of Cor. to Tps. 29 & 30 N. Rs. 53 & 54 W. from which corner, I run S. 89° 47' W. on a true line between sections 1 & 36.
Va. 16° East.

Ascend.

S. B. T. 29 N. R. 54 W. 6th. P. M.

Chains.	
16.00	Top of Ridge, bears N. & S. and descend.
40.00	Set a sand stone 9x9x4 ins., 6 ins. in the ground, for 1/4 Sec. Cor., marked 1/4 on N. face, dug pits, 18x18x12 ins., N. and S. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
44.54	Cross Gulch, 10 lks. wide, Course S. 20° E. and ascend.
52.00	Top of Ridge, bears N. & S. and descend.
68.42	Cross Gulch, 8 lks. wide, Course S. 30° E. and ascend.
80.00	Set a sand stone 14x12x5 ins., 10 ins. in the ground for Cor. to Sec. 1-2-35-36 marked with 5 notches on W. and 1 notch on E. edges, dug pits 18x18x12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high 4½ ft. base.
	Land mountainous.
	Soil 3d. rate.
	Vegetation Bunchgrass.

S. B. T. 29 N. R. 54 W. 6th. P. M.

Chains.	
	S. 89° 47' W. on a true line between sections 2-35.
	No. 16° 9' East.
	Cor. rolling land.
12.45	Cross Road, bears N. 20° E. & S. 20° W.
29.00	Cross Gulch, 30 lks. wide, Course South
40.00	Set a sand stone 14x9x5 ins., 10 ins. in the ground, for 1/4 Sec. Cor., marked 1/4 on W. face, dug pits, 18x18x12 ins., N. and S. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
45.40	Cross Gulch, 20 lks. wide, Course S. 30° E.
80.00	Set a line stone 14x12x4 ins., 10 ins. in the ground for Cor. to Sec. 2-3-34-35 marked with 4 notches on W. and 2 notches on E. edges, dug pits 18x18x12 ins. in each Sec., 5½ ft. dist., and raised a mound of Earth 2 ft. high 4½ ft. base.
	Land rolling.
	Soil 2d. rate.
	Vegetation Bunchgrass.

T. 29 N. R. 54 W. 6th. P. M.

Chains.	
	S. 89° 47' W. on a true line between sections 3-34.
	Va. 16° 30' East.
	Over rolling ground.
40.00	Set a sand stone 11 x 9 x 6 ins., 8 ins. in the ground, for 1/4 Sec. Cor., marked 1/4 on W. face, dug pits, 18 x 18 x 12 ins. N. and S. of stone 5 1/2 ft. dist., and raised a mound of earth 1 1/2 ft. high, 3 1/2 ft. base.
59.50	Cross Gulch, 10 lks. wide, Course S. 40° E.
75.10	Cross Gulch, 12 lks. wide, Course S. 60° E.
80.00	Set a sand stone 13 x 5 x 5 ins. 5 ins. in the ground for Cor. to Secs. 3-4-33-34 marked with 3 notches on W. and 3 notches on E. edges, dug pits 18 x 18 x 12 ins. in each sec., 5 1/2 ft. dist., and raised a mound of earth 2 ft. high 1 1/2 ft. base.
	Land rolling.
	Soil 2d. & 3d. rate.
	Vegetation Bunchgrass.

T. 29 N. R. 54 W. 6th. P. M.

Chains.		
	S. 89° 47' W. on a true line between sections	4.33.
	Va. 16° 30' East.	
	Over rolling ground.	
2.20	Cross Gulch, 8 lks. wide, Course S. 60° E. and ascend.	
35.00	Top of Ridge, bears W. 1 f. and descend.	
40.00	Set a sand stone 16 x 14 x 6 ins. 10 ins. in the ground, for 1/4 Sec. Cor., marked 1/4 on W. face, dug pits, 18 x 18 x 12 ins., N. and S. of stone 5 1/2 ft. dist., and raised a mound of earth 1 1/2 ft. high, 3 1/2 ft. base.	
54.00	Cross Gulch, 10 lks. wide, Course South and ascend.	
78.40	Top of Ridge, bears W. 1 f. and descend.	
80.00	Set a sand stone 12 x 10 x 6 ins. 6 ins. in the ground for Cor. to Secs. 4-5-32-33 marked with 2 notches on W. and 4 notches on E. edges, dug pits 18 x 18 x 12 ins. in each sec., 5 1/2 ft. dist., and raised a mound of earth 2 ft. high, 1 1/2 ft. base.	
	Land mountainous. Soil 2nd. rate. Vegetation Bunchgrass.	

N. B. T. 29 N. R. 54 W. 6th. P. M.

Chains.

S. 89° 47' W. on a true line between sections 5-32.
Va. 16° 24' East.

Descend.

40.00 Set a sand stone 14 x 8 x 6 ins., 12 ins. in the ground, for 1/4 Sec. Cor., marked 1/4 on W. face, dug pits, 18 x 18 x 12 ins., W. and S. of stone 5 1/2 ft. dist., and raised a mound of earth 1 1/2 ft. high, 3 1/2 ft. base.

53.20 Cross Gulch, 8 lks. wide, Course South. Ascend.

56.00 Top of Spur, bears N. 10° W. & S. 10° E. and descend.

80.00 Set a sandstone 10 x 8 x 8 ins. 6 ins. in the ground for Cor. to Secs. 5-6-31-32 marked with 1 notch on W. and 5 notches on E. edges, dug pits 18 x 18 x 12 ins. in each sec., 5 1/2 ft. dist., and raised a mound of earth 2 ft. high, 4 1/2 ft. base.

Land mountainous.

Soil 3d. rate.

Vegetation Bunchgrass.

N. B. T. 29 N. R. 54 W. 6th. P. M.

Chains.

S. 89° 47' W. on a true line between sections 6-31.
Va. 16° 18' East.

Over rolling land.

26.15 Cross Gulch, 15 lks. wide, Course S. 45° E.

40.00 Set a sand stone 14 x 8 x 8 ins., 6 ins. in the ground, for 1/4 Sec. Cor., marked 1/4 on W. face, dug pits, 18 x 18 x 12 ins., W. and S. of stone 5 1/2 ft. dist., and raised a mound of earth 1 1/2 ft. high, 3 1/2 ft. base.

57.20 Cross Gulch, 15 lks. wide, Course South.

78.54 The Cor. to Tps. 29 & 30 N. R. 54 & 55 W.

Land rolling.

Soil 2d. & 3d. rate.

Vegetation Bunchgrass.

Oct. 27 1881.

W. B. T. 29 N. R. 55 W. 6th. P. M.

Chains.

Before proceeding further with the exterior of this Tp. I made a change of 5 minutes in the latitude arc of my solar compass by subtracting same from the reading previously given, and at noon verified and corrected same by observation on the sun. I also further tested instrument by reversing. Thence from the standard Cor. to Tps. 29 N. Rs. 55 & 56 W. which is a lime stone 14 x 6 & 2 ins. in earth. Drun

North on a true line between sections 31 & 36.
Va. 15° 30' East.

Descend.

15.00 Enter Valley, bears N. W. & S. E.
16.00 Set a sand stone 11 x 9 & 6 ins., 1 ins. in the ground, for 1/4 Sec. Cor., marked 1/4 on W. face, dug pits, 18 x 18 & 12 ins., E. and W. of stone 3 1/2 ft. dist., and raised a mound of earth 1 1/2 ft. high, 3 1/2 ft. base.
41.30 Cross Running Water Creek, 40 lks. wide,

W. B. T. 29 N. R. 55 W. 6th. P. M.

Chains.

Course East.

71.50 Cross Road, bears S. 55° E. & N. 75° W.
80.00 Set a sand stone 21 x 11 x 6 & 15 ins. in the ground for 1/4 Sec. Cor. 30-31-25-36 marked with 1 notch on S. and 5 notches in N. edges, dug pits 17 x 11 & 12 ins. in each, S. Cor., 5 1/2 ft. dist., and raised a mound of earth 2 ft. high, 4 1/2 ft. base.

Land level.
Soil 2d. rate.
Vegetation Bunchgrass.

North on a true line between sections 25-30.
Va. 15° 30' East.

Over level land.

10.00 Leave Valley, bears E. & W. and ascend.
17.50 Top of Spur, bears S. W. & N. E. and descend.
39.00 Cross Wash, 2 to 4 lks. wide, Course S. 20° W. and ascend.
40.00 Set a sand stone 10 x 10 & 8 ins., 6 ins. in the ground, for 1/4 Sec. Cor., marked

W. B. T. 29 N. R. 55 W. 6th. P. M.

Chains.

1/4 on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of stone 5 1/2 ft. dist., and raised a mound of earth 1 1/2 ft. high, 3 1/2 ft. base.

46.00 Top of Spur, bears N.W. & S.E. and descend.

51.00 Cross Gulch, 8 lks. wide, Course S.E. and ascend.

68.00 Top of Spur, bears S.E. & N.W. and descend.

79.00 Cross low Sag and ascend.

80.00 Set a lime stone 12 x 12 x 10 ins. 8 ins. in the ground for Cor. to Secs. 24-25-19-30 marked with 2 notches on S. and 4 notches on N. edges, dug pits 18 x 18 x 12 ins. in each sec., 5 1/2 ft. dist., and raised a mound of earth 2 ft. high 4 1/2 ft. base.

Land mountainous.

Soil 3d. rate.

Vegetation Bunchgrass.

North on a true line between sections 19-24.

Va. 15° 45' East.

Ascend.

W. B. T. 29 N. R. 55 W. 6th. P. M.

Chains.

10.00 Top of hill bears E. & W. and descend.

40.00 Set a sand stone 10 x 8 x 8 ins., 6 ins. in the ground, for 1/4 Sec. Cor., marked 1/4 on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of stone 5 1/2 ft. dist., and raised a mound of earth 1 1/2 ft. high, 3 1/2 ft. base.

80.00 Set a sand stone 15 x 4 x 5 ins. 10 ins. in the ground for Cor. to Secs. 18-19-13-24 marked with 3 notches on S. and 3 notches on N. edges, dug pits, 18 x 18 x 12 ins. in each sec., 5 1/2 ft. dist., and raised a mound of earth 2 ft. high, 4 1/2 ft. base.

Land hilly.

Soil 2d. rate.

Vegetation Bunchgrass.

North on a true line between sections 13-18.

Va. 15° 45' East

Over rolling ground.

5.00 To base of Hill bears N.W. & S.E. and ascend gradually.

W. B. T. 29 N. R. 55 W. 6th. P. M.

Chains.	
15.00	Top of hill bears N. W. & E. and descend.
40.00	Set a sand stone 14 x 12 x 6 ins., 11 ins. in the ground, for 1/4 Sec. Cor., marked 1/4 on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 5½ ft. base.
78.00	Cross Gulch 20 lks. wide, Course N. 76° W. and ascend.
77.00	Top of Spur, bears E. & W. and descend.
80.00	Set a sand stone 24 x 12 x 12 ins. 18 ins. in the ground for Cor. to Secs. 12-13-7-18 marked with 4 notches on S. and 2 notches on N. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 3 ft. high 4½ ft. base.
	Land hilly.
	Soil 2d. & 3d. rate.
	Vegetation Bunchgrass.
	North on a true line between sections 7-12 Va. 15° 30' East.

W. B. T. 29 N. R. 55 W. 6th. P. M.

Chains.	
	Descend.
21.10	Cross Wash, 20 lks. wide, Course S. 18° W. and ascend.
40.00	Set a sand stone 20 x 10 x 4 ins., 15 ins. in the ground, for 1/4 Sec. Cor., marked 1/4 on N. face, dug pits, 15 x 18 x 12 ins., E. and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 5½ ft. base.
76.00	Top of hill bears E. & W. and descend.
80.00	Set a sand stone 12 x 10 x 4 ins. 7 ins. in the ground for Cor. to Secs. 6-7-12 marked with 5 notches on S. and 1 notch on N. edges, dug pits 15 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 3 ft. high 4½ ft. base.
	Land hilly.
	Soil 2d. & 3d. rate.
	Vegetation Bunchgrass.

N. P. T. 29 N. R. 55 W. 6th. P. M.

Chains.

North on a true line between sections 1-6.
Va. 15° 30' East.

16.00 Cross Wash, 20 lks. wide, Course S. 80° W.

40.00 Set a sand stone 12 x 7 x 7 ins., 8 ins. in the ground, for 1/4 Sec. Cor., marked 1/4 on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of stone 5 1/2 ft. dist., and raised a mound of earth 1 1/2 ft. high, 3 1/2 ft. base.

70.00 Cross low Sag and ascend.

80.00 Set a sand stone 18 x 15 x 12 ins. 12 ins in the ground for Cor. to Tps. 29 and 30 N. Rs. 55 and 56 W., marked with 6 notches on each edge, dug pits, 24 x 18 x 12 ins, lengthwise on each line, N. S. E. and W. of stone, 6 ft. dist., and raised a mound of earth 2 1/2 ft. high, 5 ft. base.

Land rolling.

Soil 2d. & 3d. rate.

Vegetation Bunchgrass.

Oct. 28-1881.

N. B. T. 29 N. R. 55 W. 6th. P. M.

Chains.

Before proceeding further with the exteriors of this Tp. I made a change of 5 minutes in the latitude arc of my solar compass by adding same to the reading previously given, and at noon verified and corrected same by observation on the sun. I also further tested instrument by reversing. Thence From the Cor. to Tps. 29 & 30 N., Rs. 55 & 56 W. I run

East on a random line on N. P. of Tp.
Va. 16° 5' East.

I set temporary corners, at every half mile, and at 5 miles 79.16 chs. I arrive at a point 1/2 lks. South of Cor. to Tps. 29 & 30 N. Rs. 54 & 55 W. from which corner I run S. 89° 55' W. on a true line between sections 1 & 36.

Va. 16° East.

Descend.

34.00 Cross Gulch, 50 lks. wide, Course S. 30° E. and ascend.

N. B. T. 29 N. R. 55 W. 6th. P. M.

Chains.

40.00 Set a sand stone 14 x 9 x 4 ins., 16 ins. in the ground, for 1/4 Sec. Cor., marked 1/4 on N. face; dug pits, 11 x 11 x 12 ins., N. and S. of Stone 5 1/2 ft. dist., and raised a mound of earth 1 1/2 ft. high, 3 1/2 ft. base.

43.00 Top of Spur, bears S. E. & N. W. and descend.

49.00 Cross Gulch, 50 lks. wide, Course South and ascend.

53.00 Top of Spur, bears N. W. & S. E. and descend.

57.70 Cross Gulch, 50 lks. wide, Course S. 30° E. and ascend.

61.00 Top of Spur, bears N. W. & S. E. and descend.

71.21 Cross Gulch, 35 lks. wide, Course S. 20° E. and ascend.

80.00 Set a sand stone 14 x 12 x 4 ins. 10 ins. in the ground for Cor. to Secs. 1-2-35-36 marked with 5 notches on N. and 1 notch on E. edges, dug pits 14 x 14 x 12 ins. in each Sec., 5 1/2 ft. dist., and raised a mound of earth 2 ft. high, 4 1/2 ft. base.

Land mountainous.

Soil 3d. rate.

Vegetation Bunchgrass.

N. B. T. 29 N. R. 55 W. 6th. P. M.

Chains.

S. 89° 55' W. on a true line between sections 2-35. Va. 17° East.

Descend.

4.30 Cross Gulch, 60 lks. wide, Course S. 10° E. and ascend.

19.30 Top of Spur, bears N. 15° W. & S. 15° E. and descend.

32.00 Cross Gulch, 20 lks. wide, Course S. 20° E. and ascend.

35.00 Top of Spur, bears N. W. & S. E. and descend.

39.50 Cross Gulch, 25 lks. wide, Course S. 30° E. and ascend.

39.70 Top of Spur, bears N. W. & S. E. and descend.

40.00 Set a sand stone 12 x 8 x 5 ins., 8 ins. in the ground, for 1/4 Sec. Cor., marked 1/4 on N. face, dug pits, 11 x 11 x 12 ins., N. and S. of Stone 5 1/2 ft. dist., and raised a mound of earth 1 1/2 ft. high, 3 1/2 ft. base.

41.30 Cross Gulch, 10 lks. wide, Course S. 60° E.

49.00 Cross Gulch, 50 lks. wide, Course S. 70° E. and ascend.

64.00 Top of Spur, bears N. & S. and descend.

80.00 Set a sand stone 15 x 8 x 6 ins. 10 ins. in the ground for Cor. to Secs. 2-3-34-35

N. B. T. 29 N. R. 55 W. 6th. P. M.

Chains.

marked with 4 notches on W. and 2 notches on E. edges, dug pits 18 x 18 x 12 ins. in each sec. 5½ ft. dist. and raised a mound of earth 2 ft. high 4½ ft. base.
Land mountainous.
Soil 3d. rate.
Vegetation Bunchgrass.

S. 89° 55' W., on a true line between sections 33 & 34.
Va. 16° 45' East.

Descend.

7.43 Cross Gulch, 50 lks. wide, Course south and ascend.
17.30 Top of Spur, bears N. 30° W. & S. 30° E. and descend.
25.00 Cross Gulch, 30 lks. wide, Course S. 20° E. and ascend.
36.00 Top of Spur, bears N. 50° W. & S. 30° E. and descend.
40.00 Set a sand stone 20 x 14 x 12 ins., 15 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits, 18 x 18 x 12 ins., W. and S. of stone 5½ ft. dist. and raised a mound of earth 1½ ft. high, 3½ ft. base.
41.00 Cross Wash, 80 lks. wide, Course S. 10° E. and ascend.

N. B. T. 29 N. R. 55 W. 6th. P. M.

Chains.

65.00 Top of Spur, bears N. W. & S. E. and descend.
71.00 Cross Gulch, 30 lks. wide, Course south and ascend.
80.00 Set a sand stone 17 x 15 x 6 ins. 12 ins. in the ground for Cor. to Secs. 3-4-33-34 marked with 3 notches on W. and 3 notches on E. edges, dug pits 18 x 18 x 12 ins. in each sec., 5½ ft. dist. and raised a mound of earth 2 ft. high, 4½ ft. base.
Land mountainous.
Soil 3d. rate.
Vegetation Bunchgrass.

S. 89° 55' W., on a true line between sections 4-33.
Va. 16° East.

Descend.

8.60 Cross Gulch, 30 lks. wide, Course S. 20° E. and ascend.
31.20 Top of Spur, bears N. 25° W. & S. 25° E. and descend.
36.40 Cross Wash, 60 lks. wide, Course S. 35° E. and ascend.

N. B. T. 29 N. R. 55 W. 6th. P. M.

Chains.

40.00 Set a sand stone 12x10x6 ins., 8 ins. in the ground, for 1/4 Sec. Cor., marked 1/4 on N. face, dug pits, 14x14x12 ins., N. and S. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.

59.00 Top of Spur, bears N.W. ¼ E. and descend.

63.47 Cross Road, bears N. & S.

80.00 Set a sand stone 14x12x8 ins. 16 ins. in the ground for Cor. to Secs. 4-5-32-33 marked with 2 notches on N. and 4 notches on E. edges, dug pits 18x14x12 ins. in each sec., 5½ ft. dist., and raised a mound of Earth 2 ft. high, 4½ ft. base.

Land mountainous.

Soil 3d. rate.

Vegetation Bunchgrass.

S. 59° 55' W. on a true line between sections 5-32.

Va. 16° East.

Descend.

N. B. T. 29 N. R. 55 W. 6th. P. M.

Chains.

21.37 Cross Gulch, 80 lks. wide, Course S. 10° E. and ascend.

33.00 Top of Spur, bears N. & S. and descend.

57.00 Cross Gulch, 50 lks. wide, Course S. 30° W. and ascend.

41.00 Set a sand stone 14x10x5 ins., 10 ins. in the ground, for 1/4 Sec. Cor., marked 1/4 on N. face, dug pits, 18x14x13 ins., N. and S. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high 3½ ft. base.

41.00 Top of Spur, bears N. & S. and descend.

80.00 Set a sand stone 16x13x6 ins. 10 ins. in the ground for Cor. to Secs. 5-6-31-32 marked with 1 notch on N. and 5 notches on E. edges, dug pits 18x16x13 ins. in each sec., 5½ ft. dist., and raised a mound of earth 2 ft. high, 4½ ft. base.

Land mountainous.

Soil 3d. rate.

Vegetation Bunchgrass.

N. B. T. 29 N. R. 55 W. 6th. P. M.

Chains.

S. 89° 55' W. on a true line between sections 6-
Va. 16° 12' East.

Descend.

40.00 Set a sand stone 13 & 9 & 6 ins., 8 ins. in the ground, for 1/4 Sec. Cor., marked 1/4 on N. face, dug pits, 18 & 18 & 12 ins., N. and S. of stone 5 1/2 ft. dist., and raised a mound of earth 1 1/2 ft. high, 3 1/2 ft. base.

60.00 Cross Wash, 20 lks. wide, Course N. 35° W. and ascend.

62.00 Top of Spur, bears N. 40° W. & S. 40° E. and descend.

79.16 The Cor. to Tps. 29 & 30 N. Rs. 55 & 56 W.

Land mountainous.

Soil 3d. rate.

Vegetation Bunchgrass.

Oct. 29-1881.

N. B. T. 29 N. R. 56 W. 6th. P. M.

Chains.

From the Cor. to Tps. 29 & 30 N. Rs. 55 & 56 W. I run West on a random line on N. B. of Tp.
Va. 16° 05' East.

I set temporary corners at every half mile, and at 5 miles 79.10 chs. I arrive at a point 156 lks. North of Cor. to Tps. 29 & 30 N. Rs. 56 & 57 W. which is a mound and pits, with post in E. pit from which corner I run

N. 89° 49' E. on a true line between sections 6 & 31.
Va. 15° 40' East.

Ascend.

39.10 Set a sand stone 11 & 9 & 8 ins., 8 ins. in the ground, for 1/4 Sec. Cor., marked 1/4 on N. face, dug pits, 18 & 18 & 12 ins., N. and S. of stone 5 1/2 ft. dist., and raised a mound of earth 1 1/2 ft. high, 3 1/2 ft. base.

44.00 Top of hill bears N. & S. and descend.

51.00 Cross Gulch, 50 lks. wide, Course North and ascend.

56.00 Top of bluff bears N. & S. and descend.

A. B. T. 29 N. R. 56 W. 6th. P. M.

Chains.

79.10	Set a sand stone 14 x 10 x 10 ins. 30 ins. in the ground for Cor. to Secs. 5-6-31-32 marked with 1 notch on W. and 5 notches on E. edges, dug pits 18 x 18 x 12 ins., in each Sec., 5½ ft. disk, and raised a mound of earth 2 ft. high 4½ ft. base.
	Land rolling.
	Soil 3d. rate.
	Vegetation Bunchgrass.
	N. 89° 49' E. on a true line between sections 5-32.
	Var. 15° 45' East.
	Descend.
1.50	Cross Gulch, 50 lks. wide, Course N. 50° E. and ascend.
4.40	Top of Spur, bears N. & S. and descend.
10.50	Cross Gulch, 50 lks. wide, Course N. 10° E. and ascend.
16.50	Top of Spur, bears N. E. & S. W. and descend.
37.20	Enter Valley, bears N. & S.

A. B. T. 29 N. R. 56 W. 6th. P. M.

Chains.

40.00	Set a sand stone 12 x 10 x 8 ins., 8 ins. in the ground, for 1/4 Sec. Cor., marked 1/4 on N. face, dug pits, 18 x 18 x 12 ins., N. and S. of stone 5½ ft. disk, and raised a mound of earth 1½ ft. high, 3½ ft. base.
63.78	Cross Creek, Course South.
75.78	Cross Creek, Course N. 70° E.
80.00	Set a sand stone 12 x 12 x 10 ins. 8 ins. in the ground for Cor. to Secs. 4-5-32-33 marked with 2 notches on W. and 4 notches on E. edges, and raised a mound of stone 6 ft. high, 8 ft. base. Pits impracticable.
	37.20 chs. Balance
	Land mountainous ~~and~~ level.
	Soil 3d. rate.
	Vegetation Bunchgrass.
	N. 89° 49' E. on a true line between sections 4-33.
	Var. 15° 30' East.
8.62	Cross Running Water Creek, 40 lks. wide, Course S. 20° E.
10.00	Leave Valley, bears N. & S. and ascend.

N. B. T. 29 N. R. 56 W. 6th. P. M.

Chains

11.00 Cross Road, bears S. 20° E. & N. 20° W.

40.00 Set a sand stone 14 x 12 x 7 ins., 10 ins. in the ground, for 1/4 Sec. Cor., marked 1/4 on N. face, dug pits, 18 x 18 x 12 ins., N. and S. of stone 3 1/2 ft. dist., and raised a mound of earth 1 1/2 ft. high, 3 1/2 ft. base.

78.35 Cross Road to W. Robinson bears N. & S.

80.00 Set a sand stone 24 x 14 x 12 ins. 10 ins. in the ground for Cor. to Secs. 3-4-33-34 marked with 3 notches on W. and 3 notches on E. edges, dug pits 18 x 18 x 12 ins. in each sec., 3 1/2 ft. dist., and raised a mound of earth 2 ft. high 4 1/2 ft. base.

Land rolling.

Soil 2d. & 3d. rate.

Vegetation Bunchgrass.

N. 89° 49' E. on a true line between sections 3-34.

Va. 15° 15' East.

40.00 Set a sand stone 10 x 10 x 6 ins., 6 ins. in

N. B. T. 29 N. R. 56 W. 6th. P. M.

Chains.

the ground, for 1/4 Sec. Cor., marked 1/4 on N. face, dug pits, 18 x 18 x 12 ins., N. and S. of stone 3 1/2 ft. dist., and raised a mound of earth 1 1/2 ft. high, 3 1/2 ft. base.

51.00 Cross Gulch, 250 lks. wide, Course South.

80.00 Set a sand stone 14 x 12 x 10 ins. 10 ins. in the ground for Cor. to Secs. 2-3-34-35 marked with 4 notches on W. and 2 notches on E. edges, dug pits 18 x 18 x 12 ins. in each sec., 3 1/2 ft. dist., and raised a mound of earth 2 ft. high, 4 1/2 ft. base.

Land rolling.

Soil 2d. & 3d. rate.

Vegetation Bunchgrass.

N. 89° 49' E. on a true line between sections 2-35.

Va. 15° 30' East.

35.00 Cross Nash, 150 lks. wide, Course South.

40.00 Set a sand stone 14 x 10 x 5 ins., 10 ins. in the ground, for 1/4 Sec. Cor., marked 1/4 on N. face, dug pits, 18 x 18 x 12 ins.,

T. 29 N. R. 36 W. 6th. P. M.

Chains.

N. and S. of stone 5½ ft. dist, and raised a mound of earth 1½ ft. high, 5½ ft. base.

77.00 Cross Wash, 25 lks. wide, Course S. W.

79.50 Cross Road, Jars, N. E. & S. W.

80.00 Set a sand stone 18 x 12 x 12 ins. 12 ins. in the ground for Cor. to Secs. 1-2-35-36 marked with 5 notches on W. and 1 notch on E. edge, dug pits 18 x 18 x 12 ins. in each sec., 3½ ft. dist., and raised a mound of earth 2 ft. high, 4½ ft. base.

Land rolling.

Soil 2d. & 3d. rate.

Vegetation Bunchgrass.

N. 89° 49' E. on a true line between sections 1-36.

Va. 15° 30' East.

40.00 Set a sand stone 12 x 10 x 10 ins., 8 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits, 18 x 18 x 12 ins., N. and S. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.

T. 29 N. R. 36 W. 6th. P. M.

Chains.

51.00 Cross Wash, 20 lks. wide Course North.

80.00 The Cor. to Tps. 29 & 30 N. Rs. 35 & 36 W.

Land rolling.

Soil 2d. & 3d. rate.

Vegetation Bunchgrass.

I carefully examined the adjustments of my solar compass today, particularly the latitude and reversing apparatus, and found them correct.

Oct. 31 1881.

N. B. T. 29 N. R. 57 W. 6th. P. M.

Chains.

From the Cor. to Tps. 29 & 30 N. R. 56 & 57 W.
Drun,
West. on a true line between sections 1 & 36.
Va. 15° 40' East.

Descend.

17.00 Cross Gulch, 20 lks. wide, Course South and ascend.
24.00 Top of Spur, bears N. & S. and descend.
40.00 Set a sand stone 12 x 8 x 6 ins., 8 ins. in the ground, for 1/4 Sec. Cor., marked 1/4 on N. face, dug pits, 18 x 18 x 12 ins., N. and S. of stone 5 1/2 ft. dist., and raised a mound of earth 1 1/2 ft. high, 3 1/2 ft. base.
45.60 Cross Wash, 250 lks. wide, Course South and ascend.
51.00 Top of Spur, bears N. & S. and descend.
56.00 Cross Wash, 200 lks. wide, Course S. 70° E. and ascend.
80.00 Set a sand stone 12 x 10 x 10 ins. 8 ins. in the ground for Cor. to Secs. 1-2-35-36 marked with 5 notches on N. and 1 notch on E. edges, dug pits 18 x 18 x 12 ins. in

N. B. T. 29 N. R. 57 W. 6th. P. M.

Chains.

each Sec. 5 1/2 ft. dist., and raised a mound of earth 5 ft. high, 4 1/2 ft. base.
Land mountainous.
Soil 3d. rate.
Vegetation Bunchgrass.

West, on a true line between sections 2 & 35.
Va. 15° 15' East.

Ascend.

5.00 Top of Spur, bears S. E. & N. W. and descend.
17.00 Cross Gulch, 30 lks. wide, Course S. E. and ascend.
27.00 Top of Spur, bears S. E. & N. W. and descend.
36.00 Enter rolling land bears N. & S.
40.00 Set a sand stone 12 x 8 x 6 ins., 8 ins. in the ground, for 1/4 Sec. Cor., marked 1/4 on N. face, dug pits, 18 x 18 x 12 ins., N. and S. of stone 5 1/2 ft. dist., and raised a mound of earth 1 1/2 ft. high, 3 1/2 ft. base.
80.00 Set a sand stone 13 x 9 x 7 ins. 8 ins. in the ground for Cor. to Secs. 2-3-34-35 marked with 4 notches on N. and 2 notches

N. B. T. 29 N. R. 57 W. 6th. P. M.

Chains.

on E. edges, dug pits 18x18x12 ins. in each sec., 5½ ft. dist., and raised a mound of Earth 2 ft. high, 4½ ft. base.
36,00 chs Balance
Land mountainous & rolling.
Soil 2d. & 3d. rate.
Vegetation Bunchgrass.

West, on a true line between sections 3-34.
Va. 15° 30' East.
Over rolling land.

40.00 Set a sand stone 17x8x6 ins., 12 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits, 18x18x12 ins., N. and S. of stone 5½ ft. dist., and raised a mound of Earth 1½ ft. high, 3½ ft. base.

70.00 Base of Hill, bears N. & S. and ascend.

80.00 Set a sand stone 12x10x10 ins. 8 ins. in the ground for Cor. to Secs. 3-4-33-34 marked with 3 notches on W. and 3 notches on E. edges, dug pits 18x18x12 ins. in each sec., 5½ ft. dist., and raised a

N. B. T. 29 N. R. 57 W. 6th. P. M.

Chains.

mound of earth 2 ft. high, 4½ ft. base on Hill bearing N. & S.
Land rolling.
Soil 2d. & 3d. rate.
Vegetation Bunchgrass.

West, on a true line between sections 4-33.
Va. 15° 15' East.

Descend.

30.00 Cross Gulch, 10 lks. wide, course S. 41° E. and ascend.

40.00 Set a sand stone 17x8x4 ins., 10 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits, 18x18x12 ins., N. and S. of stone 5½ ft. dist., and raised a mound of Earth 1½ ft. high, 3½ ft. base.

60.00 Leave Hill bears N. W. & S. E. Thence over rolling land.

80.00 Set a sand stone 12x10x6 ins. 7 ins. in the ground for Cor. to Secs. 4-5-32-33 marked with 2 notches on W. and 4 notches on E. edges, dug pits 18x18x12 ins. in each sec., 5½ ft. dist., and raised a mound of earth 2 ft. high 4½ ft. base.
Land rolling.
Soil 2d. rate. Vegetation Bunchgrass.

T. R. T. 29 N. R. 57 W. 6th. P. M.

Chains.

West, on a true line between sections 5 & 32.
Va. 15° 15' East.

Over rolling ground.

110.00 Set a sand stone 14 x 10 x 8 ins., 16 ins. in the ground, for 1/4 Sec. Cor., marked 1/4 on N. face, dug pits, 18 x 18 x 12 ins., N. and S. of stone 5 1/2 ft. dist., and raised a mound of earth 1 1/2 ft. high, 3 1/2 ft. base.

80.00 Set a sand stone 16 x 14 x 10 ins. 18 ins. in the ground for Cor. to Secs. 5-6-31-32 marked with 4 notches on E. and 2 notches on W. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5 1/2 ft. dist., and raised a mound of earth 2 ft. high, 4 1/2 ft. base.

Land rolling.

Soil 3rd. rate.

Vegetation Bunchgrass.

T. R. T. 29 N. R. 57 W. 6th. P. M.

Chains.

West, on a true line between sections 6-31.
Va. 15° 50' East.

Over rolling land.

15.05 Intersect Boundary line between Nebraska and Wyoming at a point ~~which lies~~ W. 20.50 chs. dist. from the 105th. Mile post which is a post 7 ft. long, 6 in. square and Set a sandstone 18 x 14 x 10 ins. 12 ins. in the ground for Closing Cor. to Secs. 6 and 31 marked C.C. with 6 notches on E. edge, dug pits 18 x 18 x 12 ins. S. E. and W. of stone, 5 1/2 ft. dist., and raised a mound of earth 2 ft. high, 4 1/2 ft. base.

Land rolling.

Soil 2d. & 3d. rate.

Vegetation Bunchgrass.

I carefully examined the adjustments of my solar compass today, particularly the latitude and reversing apparatus, and found them correct.

Nov. 1. 1881.

N. B. T. 30 N. R. 57 W. 6th. P. M.

Chains.

Before proceeding further with the ex-
amination of this Tp., I made a change
of 5 minutes in the latitude arc of
my solar compass by adding same
to the reading previously given, and
at noon verified and corrected same
by observation on the Sun. I also further
tested instrument by reversing lati-
tude 47° 36' N. Thence
From the Cor. to Tps. 30 & 31 N. Rs. 56 &
57 W. which is a limestone 12 x 8 x 6
with mound and pits. I run
West, on a true line between sections 1 & 36.
Va. 16° 30' East.

Ascend.

18.00 Top of Spur, bears S. 70° W. & N. 70° E.
and descend.

22.00 Enter Valley, bears S. 50° W. & N. 70° E.

40.00 Set a sand stone 14 x 11 x 4 ins., 10 ins.
in the ground, for 1/4 Sec. Cor., marked
1/4 in N. face, dug pits, 17 x 15 x 12 ins.,

N. B. T. 30 N. R. 57 W. 6th. P. M.

Chains.

N. and S. of stone 5 1/2 ft. dist., and raised
a mound of earth 1 1/2 ft. high, 3 1/2 ft. base.

52.56 Cross Road, bears N. W. & S. E.

63.56 Cross Creek, 30 lks. wide, Course S. 20° E.

80.00 Set a sand stone 14 x 12 x 8 ins., 10 ins. in
the ground for Cor. to Secs. 1-2-35-36.
marked with 5 notches on N. and 1 notch
on E. edges, dug pits 17 x 15 x 12 ins. in
each sec., 5 1/2 ft. dist., and raisid a
mound of earth 2 ft. high, 4 1/2 ft. base.

Land rolling.
Soil 2d. & 3d. rate.
Vegetation Bunchgrass.

West, on a true line between sections 2-35.
Va. 15° 30' East.

15.00 Leave Valley, bears N. W. & S. E. and ascend.

20.00 Top of Spur, bears N. W. & S. E. and descend.

33.10 Cross Gulch, 20 lks. wide, Course S. 55° E.
and ascend.

40.00 Set a sand stone 24 x 16 x 13 ins., 11 ins.

N. B. T. 30 N. R. 57 W. 6th P. M.

Chains.

in the ground, for 1/4 Sec. Cor., marked 1/4 on N. face, dug pits, 18x18x12 ins., N. and S. of stone 5 1/2 ft. dist., and raised a mound of earth 1 1/2 ft. high, 3 1/2 ft. base.

41.25 Top of Spur, bears N. 1/4 S. and descend.

59.00 Cross Gulch, 3 lks. wide, Course North and ascend.

69.00 Top of Spur, bears N.W. 1/4 W. and descend.

74.00 Cross Gulch, 20 lks. wide, Course S. E. and ascend.

80.00 Set a sand stone 14x10x5 ins. 10 ins. in the ground for Cor. to Secs. 2-3-34-35 marked with 4 notches on W. and 2 notches on E. edges, dug pits 18x18x12 ins. in each Sec., 5 1/2 ft. dist., and raised a mound of earth 2 ft. high, 4 1/2 ft. base.

Land mountainous.

Soil 3d rate.

Vegetation Bunchgrass.

N. B. T. 30 N. R. 57 W. 6th P. M.

Chains.

West, on a true line between sections 3-34.

Va. 15° 45' East.

Ascend.

11.00 Top of Spur, bears N.W. 1/4 E. and descend.

32.00 Cross Gulch, 3 lks. wide, Course S. 40 E. and ascend.

46.00 Set a sand stone 12x10x5 ins., 8 ins. in the ground, for 1/4 Sec. Cor., marked 1/4 on N. face, dug pits, 18x18x12 ins., N. and S. of stone 5 1/2 ft. dist., and raised a mound of earth 1 1/2 ft. high, 3 1/2 ft. base.

55.50 Top of hill bears N. 1/4 S. and descend.

80.00 Set a sand stone 18x16x3 ins. 1 ft. in the ground for Cor. to Secs. ~~2-3-34-35~~ 3-4-33-34 marked with 3 notches on W. and 3 notches on E. edges, dug pits 18x18x12 ins. in each Sec., 5 1/2 ft. dist., and raised a mound of earth 2 ft. high, 4 1/2 ft. base.

Land rolling. Soil 2d x 3d rate.

Vegetation Bunchgrass.

N. B. T. 30 N. R. 57 W. 6th P. M.

Chains.

West, on a true line between sections 4-33.
Va. 15° 45' East.

Descend.

5.00 Cross Gulch, 50 lks. wide, Course S. 60° E. and ascend.

30.00 Top of Spur, bears S. E. & N. W. and descend.

46.00 Set a sand stone 10 x 8 x 6 ins., 6 ins. in the ground, for 1/4 Sec. Cor., marked 1/4 on W. face, dug pits, 18 x 18 x 12 ins., N. and S. of stone 5 1/2 ft. dist., and raised a mound of earth 1 1/2 ft. high, 3 1/2 ft. base.

78.00 Top of hill bears N. 10° W. & S. 10° E. and descend.

80.00 Set a sand stone 12 x 10 x 6 ins. 8 ins. in the ground for Cor. to Secs. 4-5-32-33 marked with 2 notches on W. and 4 notches on E. edges, dug pits 18 x 18 x 12 ins. in each sec., 5 1/2 ft. dist., and raised a mound of Earth 2 ft. high, 4 1/2 ft. base.

Land mountainous. Soil 3d. rate.

Vegetation Bunchgrass.

N. B. T. 30 N. R. 57 W. 6th P. M.

Chains.

West, on a true line between sections 5-32.
Va. 15° 45' East.

46.00 Set a sand stone 12 x 10 x 10 ins., 8 ins. in the ground, for 1/4 Sec. Cor., marked 1/4 on W. face, dug pits, 18 x 18 x 12 ins., N. and S. of stone 5 1/2 ft. dist., and raised a mound of earth 1 1/2 ft. high, 3 1/2 ft. base.

80.00 Set a sand stone 10 x 10 x 6 ins. 6 ins. in the ground for Cor. to Secs. 5-6-31-32 marked with 1 notch on W. and 5 notches on E. edges, dug pits 18 x 18 x 12 ins. in each sec., 5 1/2 ft. dist., and raised a mound of Earth 2 ft. high, 4 1/2 ft. base.

Land rolling.

Soil 2d. & 3d. rate.

Vegetation Bunchgrass.

West, on a true line between sections 6 & 31.
Va. 15° East.

16.90 Intersect Boundary line between Nebraska and Wyoming at a point ~~which~~

N. B. T. 30 N. R. 57 W. 6th. P. M.

Chains.

bears N. 22.95 chs. dist. from the 111th. Mile post, which is a post 8 ft. long, 6 ins. square, with mound and pits and Set a sand stone 12 x 10 x 5 ins. 8 ins. in the ground for Closing Cor. to Secs. 1 and 6 marked C. C. with 6 notches on E. edge, dug pits 18 x 18 x 12 ins. S. E. and W. of stone, 5½ ft. dist., and raised a mound of earth 2 ft. high, 4½ ft. base.

Land rolling.

Soil 2d. & 3d. rate.

Vegetation Bunchgrass.

Nov. 2. 1881.

E. B. T. 30 N. R. 56 W. 6th. P. M.

Chains.

Before proceeding further with the exteriors of this Tp., I made a change of 5 minutes in the latitude arc of my solar compass by subtracting same from the reading previously given, and at noon verified and corrected same by observation on the sun. I also further tested instrument by reversing thence From the Cor. to Tps. 29 & 30 N. Rs. 55 & 56 W. I run

North on a true line between sections 31 & 36.

(Va. 16° 05' East)

Ascend.

9.00 Top of Spur, bears N. W. & S. E. and descend.

23.00 Cross Wash, 90 lks. wide, Course West and ascend.

33.00 Top of Spur, bears N. 30° E. & S. 30° W. and descend.

39.00 Cross Gulch, 30 lks. wide, Course S. 30° W. and ascend.

40.00 Set a sand stone 18 x 16 x 13 ins., 12 ins

E. B. T. 30 N. R. 56 W. 6th. P. M.

Chains.

in the ground, for 1/4 Sec. Cor., marked 1/4 on W. face, dug pits, 18 x 18 x 12 ins, E. and W. of stone 5 1/2 ft. dist, and raised a mound of earth 1 1/2 ft. high, 3 1/2 ft. base.

45.00 Top of Spur, bears E. & W. and descend.

73.00 Cross Gulch, 40 lks. wide, Course West and ascend.

75.00 Top of Spur, bears E. & W. and descend.

80.00 Set a sand stone 12 x 8 x 8 ins. 8 ins. in the ground for Cor. to Secs. 30-31-25-36 marked with 1 notch on S. and 5 notches on W. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5 1/2 ft. dist, and raised a mound of earth 2 ft. high, 4 1/2 ft. base.

Land mountainous.

Soil 3d. rate.

Vegetation Bunchgrass.

North on a true line between sections 25-30.

Va. 16° East.

Descend.

E. B. T. 30 N. R. 56 W. 6th. P. M.

Chains.

10.50 Cross Gulch, 60 lks. wide, Course N. 70° W. and ascend.

13.00 Top of Spur, bears N.E. & S.W. and descend.

19.00 Cross low Sag and ascend.

24.00 Top of Spur, bears N.E. & S.W. and descend.

40.00 Set a sand stone 11 x 11 x 6 ins, 10 ins. in the ground, for 1/4 Sec. Cor., marked 1/4 on W. face, dug pits, 18 x 18 x 12 ins, E. and W. of stone 5 1/2 ft. dist, and raised a mound of earth 1 1/2 ft. high, 3 1/2 ft. base.

49.00 Cross low Sag and ascend.

80.00 Set a sand stone 13 x 10 x 8 ins. 8 ins. in the ground for Cor. to Secs. 24-25-19-30 marked with 2 notches on S. and 4 notches on W. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5 1/2 ft. dist, and raised a mound of earth 2 ft. high, 4 1/2 ft. base.

Land mountainous. Soil 3d. rate.

Vegetation Bunchgrass.

E. B. T. 30 N. R. 56 W. 6th P. M.

Chains.

North on a true line between sections 19-24.
Va. 15° 45' East.

Ascend.

8.00 Top of Spur, bears E. & W. and descend.
16.00 Enter low Sag, bears E. & W.
40.00 Set a sand stone 12 x 10 x 6 ins., 8 ins. in the ground, for 1/4 Sec. Cor., marked 1/4 on W. face, dug pits, 18 x 18 x 12 ins. E. and W. of stone 3 1/2 ft. dist., and raised a mound of earth 1 1/2 ft. high, 3 1/2 ft. base.
41.00 Leave Sag bears E. & W.
45.50 Cross Gulch, 10 lks. wide, Course West and ascend.
45.00 Top of Spur, bears E. & W. and descend.
67.12 Cross Gulch, 10 lks. wide, Course West and ascend.
70.00 Top of Spur, bears E. & W. and descend.
80.00 Set a sand stone 12 x 12 x 10 ins., 8 ins. in the ground for Cor. to Secs. 18-19-13-24 marked with 3 notches on S. and 3 notches on W. edges, dug pits 18 x 18 x 12 ins. in each Sec., 3 1/2 ft. dist., and raised a mound

E. B. T. 30 N. R. 56 W. 6th P. M.

Chains.

of earth 2 ft. high, 4 1/2 ft. base.
Land mountainous.
Soil 3d. rate.
Vegetation Bunchgrass.

North on a true line between sections 13-18.
Va. 15° 45' East.

Over rolling.

11.00 Enter Sag bears S. 30° E. & N. 30° W.
28.00 Leave Sag bears S. 30° E. & N. 30° W. and ascend.
31.00 Top of Spur, bears N. E. & S. W. and descend.
40.00 Set a sand stone 10 x 8 x 6 ins., 6 ins. in the ground, for 1/4 Sec. Cor., marked 1/4 on N. face, dug pits, 18 x 18 x 12 ins. E. and W. of stone 3 1/2 ft. dist., and raised a mound of earth 1 1/2 ft. high, 3 1/2 ft. base.
42.50 Cross low Sag and ascend.
45.00 Top of Spur, bears N. E. & S. W. and descend.
50.00 Set a sand stone 20 x 10 x 10 ins. 15 ins. in the ground for Cor. to Secs. 7-18-12-13 marked with 4 notches on S. and 2 notches

E. B. T. 30 N. R. 56 W. 6th. P. M.

Chains.

on W. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high, 4½ ft. base.

Land mountainous.

Soil 3d. rate.

Vegetation Bunchgrass.

North on a true line between sections 7-12.

Va. 15° 54' East.

Over rolling land.

37.00 Cross Road from Ft. Laramie to Ft. Robinson bears N. 70° W. & S. 70° E.

40.00 Set a sand stone 15 x 9 x 7 ins., 10 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.

80.00 Set a sand stone 18 x 15 x 9 ins. 12 ins. in the ground for Cor. to Secs. 6-7-1-12 marked with 5 notches on S. and 1 notch on W. edges, dug pits 18 x 18 x 12 ins. in

E. B. T. 30 N. R. 56 W. 6th. P. M.

Chains.

each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high, 4½ ft. base.

Land rolling.

Soil 2d. & 3d. rate.

Vegetation Bunchgrass.

North on a true line between sections 1-6.

Va. 15° 30' East.

Ascend.

40.00 Set a sand stone 14 x 11 x 5 ins., 10 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.

60.00 Top of Spur, bears N. W. & S. E. and descend.

80.00 Set a sand stone 14 x 14 x 10 ins. 10 ins. in the ground, for Cor. to Tps. 30 and 31 N. R's 55 and 56 W., marked with 6 notches on each edge, dug pits, 24 x 18 x 12 ins. lengthwise on each line N. S. E. and W. of stone 6 ft. dist., and raised a mound of earth 2½ ft. high, 5 ft. base.

Description. Land rolling 2nd and 3d Rate. Nov. 3 1881.

N. P. T. 30 N. R. 56 W. 6th. P. M.

Chains.

Before proceeding further with the exteriors of this Tp. I made a change of 5 minutes in the latitude arc of my solar compass by adding same to the reading previously given, and at noon verified and corrected same by observation on the sun. I also further tested instrument by reversing. Thence From the Cor. to Tps. 30 & 31 N., Rs. 55 & 56 W.

Run

West on a random line on N. B. on Tp.

Va. 15° 30' East

I set temporary corners at every half mile, and at 5 miles 76.54 chs. I arrive at a point 8.4 lks. North of Cor. to Tps. 30 & 31 N. Rs. 56 & 57 W. from which corner, Run N. 89° 54' E. on a true line between sections 6 & 31.

Va. 16° 30' East

Ascend.

15.24 Top of Spur, bears N. & S. and descend.

34.00 Cross Gulch, 30 lks. wide, Course S. 80° W. and ascend.

N. P. T. 30 N. R. 56 W. 6th. P. M.

36.54 Set a sand stone 16 x 10 x 4 ins., 10 ins. in the ground, for 1/4 Sec. Cor., marked 1/4 on N. face, dug pits, 18 x 18 x 12 ins., N. and S. of stone 5 1/2 ft. dist., and raised a mound of earth 1 1/2 ft. high, 3 1/2 ft. base.

76.54 Set a sand stone 12 x 12 x 8 ins. 8 ins. in the ground for Cor. to Secs. 5-6-31-32 marked with 1 notch on W. and 5 notches on E. edges, dug pits 18 x 18 x 12 ins., in each Sec., 5 1/2 ft. dist., and raised a mound of earth 2 ft. high, 4 1/2 ft. base.

Land rolling.

Soil 2d. & 3d. rate.

Vegetation Bunchgrass.

N. 89° 54' E. on a true line between sections 5-32.

Va. 15° 30' East.

Descend.

40.00 Set a sand stone 12 x 8 x 6 ins., 8 ins. in the ground, for 1/4 Sec. Cor., marked 1/4 on N.

T. 30 N. R. 56 W. 6th. P. M.

Chains.

face, dug pits, 18 x 18 x 12 ins, N. and S. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.

58.00 Cross Gulch, 150 lks. wide, Course S. 10° W.

80.00 Set a sand stone 10 x 10 x 6 ins. 6 ins. in the ground for lot. 4 cors. 4-5-32-33 marked with 2 notches on W. and 4 notches on E. edges, dug pits 18 x 18 x 12 ins. in each cor., 5½ ft. dist., and raised a mound of earth 2 ft. high 4½ ft. base.

Land rolling.

Soil 2d. & 3d. rate.

Vegetation Bunchgrass.

N. 89° 54' E. on a true line between sections 4-33.

Va. 15° 45' East.

3.08 Cross Road, bears N.E. 1 f. ft.

40.00 Set a sand stone 15 x 12 x 6 ins, 18 ins. in the ground, for 1/4 Sec. lot., marked 1/4 on N. face, dug pits, 18 x 18 x 12 ins,

T. 30 N. R. 56 W. 6th. P. M.

Chains

N. and S. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.

80.00 Set a sand stone 10 x 10 x 8 ins. 6 ins. in the ground for lot. 4 cors. 3-4-33-34 marked with 3 notches on W. and 3 notches on E. edges, dug pits 18 x 18 x 12 ins. in each cor., 5½ ft. dist., and raised a mound of earth 2 ft. high 4½ ft. base.

Land rolling.

Soil 2d. & 3d. rate.

Vegetation Bunchgrass.

N. 89° 54' E. on a true line between sections 3-34.

Va. 15° 30' East.

40.00 Set a sand stone 10 x 8 x 7 ins, 6 ins. in the ground, for 1/4 Sec. lot., marked 1/4 on N. face, dug pits, 18 x 18 x 12 ins., N. and S. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.

61.50 Top of Hill, bears N. 10° W. 1 f. to E. x sand.

T. 30 N. R. 56 W. 6th. P. M.

Chains.

73.00 Top of hill bears N. & S. and descend.

80.00 Set a sand stone 13 x 11 x 6 ins. 8 ins. in the ground for cor. to secs. 2-3-34-35 marked with 4 notches on N. and 2 notches on E. edges, dug pits 16 x 14 x 12 ins in each sec., 5½ ft. dist., and raised a mound of earth 2 ft. high 4½ ft. base.

Land hilly.

Soil 2d. & 3d. rate.

Vegetation Bunchgrass.

N. 89° 54' E. on a true line between sections 2-35.

Va. 15° 15' East.

Ascend.

15.28 Cross Gulch, 20 lks. wide, Course S. 30° W.

26.57 Cross Wash, 20 lks. wide, Course S. 20° W. and ascend.

40.00 Set a sand stone 14 x 10 x 11 ins, 12 ins. in the ground, for 1/4 Sec. cor., marked 1/4 on N. face, dug pits, 14 x 14 x 12 ins, N. and S. of stone 5½ ft. dist, and raised a

T. 30 N. R. 56 W. 6th. P. M.

Chains.

mound of earth 1½ ft. high, 3½ ft. base.

41.00 Top of Spur, bears N. W. & S. E. and descend.

62.00 Cross Gulch, 150 lks. wide, Course N. W. and ascend.

76.00 Top of Spur, bears N. W. & S. E. and descend.

80.00 Set a quartz stone 10 x 10 x 10 ins. 6 ins in the ground for cor. to secs. 1-2-35-36 marked with 5 notches on N. and 1 notch on E. edges and raised a mound of stone. Pits impracticable.

Land mountainous.

Soil 3d. rate.

Vegetation Bunchgrass.

N. 89° 54' E. on a true line between sections 1-36.

Va. 15° 15' East.

Ascend.

40.00 Set a sand stone 11 x 8 x 6 ins., 10 ins. in the ground, for 1/4 Sec. cor, marked 1/4 on N. face, dug pits, 14 x 18 x 12 ins, N. and S. of stone 5½ ft. dist, and raised

N. P. T. 30 N. R. 56 W. 6th. P. M.

Chains.

a mound of earth 1½ ft. high, 3½ ft. base.
58.00 Top of Spur, bears N. W. & S. E. and descend.
80.00 The Cor. to Tps. 30 & 31 N. Rs. 55 & 56 W.
Land mountainous.
Soil 3d. rate.
Vegetation Punchgrass.

Nov. 4. 1881.

E. B. T. 30 N. R. 55 W. 6th. P. M.

Chains.

Before proceeding further with the exterior of this Tp. I made a change of 5 minutes in the latitude arc of my solar compass by subtracting same from the reading previously given, and at noon verified and corrected same by observation on the sun. I also further tested instrument by reversing. Thence From the Cor. to Tps. 29 & 30 N. Rs. 54 & 55 W. I run,
North on a true line between sections 31 & 36.
Va. 16° East.

Ascend.
1.30 Top of Spur, bears N. W. & S. E. and descend.
9.00 Enter Sag bears S. 30° E. & N. 30° W.
16.00 Leave Sag bears S. 30° E. & N. 30° W. & ascend.
25.00 Top of Spur, bears N. 30° W. & S. 30° E. and descend.
34.00 Cross Gulch, 60 lks. wide, Course S. 27° E. and ascend.
40.00 Set a sand stone 12 x 6 x 6 ins., 8 ins. in

E. B. T. 30 N. R. 55 W. 6th. P. M.

Chains.

the ground, for 1/4 Sec. Cor., marked 1/4 on W. face, dug pits 18 x 18 x 12 ins., N. and S. of stone 3 1/2 ft. dist., and raised a mound of earth 1 1/2 ft. high, 3 1/2 ft. base.

144.50 Top of Spur, bears N. 20° W. & S. 20° E. and descend.

36.00 Enter Sag bears S. 30° E. & N. 30° W.

64.00 Leave Sag bears S. 30° E. & N. 30° W. & ascend.

67.00 Top of Spur, bears N. 25° W. & S. 25° E. & descend.

75.00 Cross low Sag and ascend.

79.00 Top of Spur, bears N. 20° W. & S. 20° E. & descend.

80.00 Set a sand stone 16 x 6 x 5 ins. 12 ins. in the ground for Cor. to Secs. 30-31-25-36 marked with 4 notches on S. and 5 notches on N. edges, dug pits 18 x 18 x 12 ins. in each Sec., 3 1/2 ft. dist., and raised a mound of earth 2 ft. high, 4 1/2 ft. base.

Land mountainous.

Soil 3d. rate.

Vegetation Bunchgrass.

E. B. T. 30 N. R. 55 W. 6th. P. M.

Chains.

North on a true line between Sections 25-30.
Va. 15° 45' East.

Descend.

6.50 Cross low Sag and ascend.

9.00 Top of Spur, bears N. E. & S. W. & descend.

17.50 Cross Gulch, 60 lks. wide, Course S. 20° W. and ascend.

21.00 Top of Spur, bears E. & W. and descend.

40.00 Set a sand stone 12 x 10 x 6 ins., 8 ins. in the ground, for 1/4 Sec. Cor., marked 1/4 on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of stone 3 1/2 ft. dist., and raised a mound of earth 1 1/2 ft. high, 3 1/2 ft. base.

45.00 Cross low Sag and ascend.

49.00 Top of Spur, bears N. 60° E. & S. 60° W. and descend.

58.60 Cross Gulch, 10 lks. wide, Course S. 50° W. and ascend.

60.00 Top of Divide between Running Water Creek & White River bears E. & W. & descend.

E. B. T. 30 N. R. 55 W. 6th P. M.

Chains.	
62.50	Cross Gulch, 60 lks. wide, Course N. 20° E. and ascend.
80.00	Set a sand stone 30 x 6 x 5 ins. 21 ins. in the ground for Cor. to Secs. 24-25-19-30 marked with 5 notches on S. and 5 notches on N. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of Earth 2 ft. high, 4½ ft. base.
	from which
	A Pine 21 ins. diam. bears N. 43° E. 159 lks. dist. marked T. 30 N. R. 55 W. S. 19 B.T.
	Land mountainous.
	Soil 3d. rate.
	Vegetation Bunchgrass.
	North on a true line between sections 19-24. Va. 15° 45' East.
	Descend.
3.00	Enter timber bears E. & W.
5.00	Cross low Sag and ascend.
11.00	Top of Spur, bears E. & W. and descend.

E. B. T. 30 N. R. 55 W. 6th P. M.

Chains.	
31.30	Cross Gulch, 100 lks. wide, Course N. 30° E. and ascend.
46.00	Set a sand stone 14 x 10 x 7 ins., 6 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of stone 5½ ft. dist., and raised a mound of Earth 1½ ft. high, 3½ ft. base.
48.00	Cross Road, bears E. & W.
50.50	Cross Gulch, 40 lks. wide, Course N. 20° E.
59.00	Top of Spur, bears N. E. & S. W. and descend.
79.40	Cross Gulch, 80 lks. wide, Course N. 60° E. and ascend.
80.00	Set a sand stone 14 x 10 x 6 ins. 16 ins. in the ground for Cor. to Secs. 18-19-13-24 marked with 3 notches on S. and 3 notches on N. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high, 4½ ft. base.
	from which,
	A Pine 6 ins. diam. N. 43° E. 76 lks. dist.

E. B. T. 30 N. R. 55 W. 6th. P. M.

Chains.

marked T. 31 N. R. 55 W. S. 13 B. T.
Land mountainous.
Soil 3d. rate.
Timber and undergrowth of Pine and Bunchgrass.

North on a true line between sections 13-18.
Va. 15° 54' East.

Ascend.

3.25 Top of Spur, bears S. 30° W. & N. 30° E. and descend.

40.00 Set a sand stone 18 x 15 x 12 ins., 12 ins. in the ground, for 1/4 Sec. Cor., marked 1/4 on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.

50.00 Cross Gulch, 100 lks. wide, Course N. 25° E. and ascend.

53.00 Top of Spur, bears S. W. & N. E. and descend.

57.00 Cross Wash, 150 lks. wide, Course N. 30° E. and ascend.

E. B. T. 30 N. R. 55 W. 6th. P. M.

Chains.

67.00 Cross Wash, 200 lks. wide, Course N. 30° W.

72.00 Top of Spur, bears E. & W. and descend.

80.00 Set a sand stone 14 x 9 x 6 ins. 10 ins. in the ground for Cor. to Secs. 12-13-7-18 marked with 4 notches on S. and 2 notch on N. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high, 4½ ft. base.
Land mountainous.
Soil 3d. rate.
Timber and undergrowth of Pine & Bunchgrass.

North on a true line between sections 7-12.
Va. 15° 30' East.

Descend.

10.50 Cross low Sag and ascend.

13.00 Top of Spur, bears S. W. & N. E. and descend.

20.40 Cross Gulch, 175 lks. wide, Course [illegible] East and ascend.

30.00 Top of Spur, bears S. 40° W. & N. 40° E. and descend.

E. B. T. 30 N. R. 55 W. 6th. P. M.

Chains.

110.00 Set a sand stone 20 x 12 x 6 ins., 15 ins. in the ground, for 1/4 Sec. Cor., marked 1/4 on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of stone 5 1/2 ft. dist., and raised a mound of earth 1 1/2 ft. high, 3 1/2 ft. base.

113.50 Cross Wash, 300 lks. wide, Course N. 35° E.

119.00 Cross Gulch, 90 lks. wide, Course N. 40° E. and ascend.

39.00 Top of Spur, bears S. 30° E. & N. 50° W. and descend.

68.70 Cross Gulch, 50 lks. wide, Course N. 60° E. and ascend.

80.00 Set a sand stone 10 x 8 x 5 ins. 6 ins. in the ground for Cor. to Secs. 6-7-1-12 marked with 5 notches on S. and 1 notch on W. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5 1/2 ft. dist., and raised a mound of earth 2 1/2 ft. high, 4 1/2 ft. base.

Land mountainous.

Vol. 3d. note.

Timber and undergrowth of Pine and Bunchgrass.

E. B. T. 30 N. R. 55 W. 6th. P. M.

Chains.

North on a true line between sections 1-6.
Va. 15° 30' East.

Ascend.

6.00 Top of Spur, bears E. & W. and descend.

15.00 Cross low Sag and ascend.

21.00 Top of Spur, bears S. 65° W. & N. 65° E. and descend.

35.00 Cross Gulch, 100 lks. wide, Course N. 65° E. and ascend.

46.00 Set a sand stone 20 x 14 x 6 ins., 15 ins. in the ground, for 1/4 Sec. Cor., marked 1/4 on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of stone 5 1/2 ft. dist., and raised a mound of earth 1 1/2 ft. high, 3 1/2 ft. base.

46.00 Top of Spur, bears S. 60° W. & N. 60° E. and descend.

64.00 Cross Gulch, 90 lks. wide, Course N. 45° E. and ascend.

71.00 Top of Spur, bears S. 40° W. & N. 40° E. and descend.

80.00 Set a sand stone 10 x 12 x 10 ins. 30 ins.

E. B. T. 30 N. R. 55 W. 6th. P. M.

Chains.

in the ground, for Cor. to Tps. 30 and 31 N. Rs. 54 and 55 W., marked with 6 notches on each edge, dug pits, 24 & 18 & 12 ins. lengthwise on each line, N. S. E. and W. of stone, 6 ft. dist, and raised a mound of earth 2½ ft. high, 5 ft. base.

from which bears

An Aspen 12 ins. diam. bears N. 65° W. 65 lks.

marked T. 31 N. R. 55 W. S. 6 B. T.

Land mountainous.

Soil 3d. rate.

Timber and undergrowth of Pine & Bunchgrass.

Nov. 5. 1881.

N. B. T. 30 N. R. 55 W. 6th. P. M.

Chains.

Before proceeding further with the exteriors of this Tp., I made a change of 5 minutes in the latitude arc of my solar compass by adding same to the reading previously given, and at noon verified and corrected same by observation on the sun. Date further tested instrument by reversing.

Thence

From the Cor. to Tps. 30 & 31 N. Rs. 54 & 55 W. I run West on a random line on N. B. of Tp.

Va. 15° 30' East.

Set temporary corners at every half mile, and at 5 miles 77.18 chs. I arrive at a point 210 lks. North of Cor. to Tps. 30 & 31 N. Rs. 55 & 56 W. from which corner I run N. 89° 45' E. on a true line between sections 6 & 31.

Va. 15° 25' East.

Descend.

5.55 Cross Wash, 210 lks. wide, course N. W. and ascend.

N. B. T. 30 N. R. 55 W. 6th. P. M.

Chains.	
12.00	Top of Spur, bears N.W. & S.E. and descend.
29.57	Cross low Sag and ascend.
38.08	Set a sand stone 18 x 16 x 8 ins., 12 ins. in the ground, for 1/4 Sec. bor., marked 1/4 on N. face, dug pits, 18 x 18 x 12 ins., N. and S. of stone 5 1/2 ft. dist, and raised a mound of earth 1 1/2 ft. high, 3 1/2 ft. base.
65.25	Top of Spur, bears N.W. & S.E. and descend.
77.08	Set a sand stone 20 x 10 x 10 ins. 15 ins. in the ground for bor. to secs. 5-6-31-32 marked with 1 notch on N. and 5 notches on E. edge and raised a mound of stone. Pits impracticable.
	Land mountainous.
	Soil 3d. rate.
	Vegetation Bunchgrass.
	N. 79° 45' E. on a true line between sections 5-32. Va. 15° 15' East.
	Descend.
211.00	Cross Gulch, 25 lks. wide, Course N. 10° W. and ascend.

N. B. T. 30 N. R. 55 W. 6th. P. M.

Chains.	
416.00	Set a sand stone 12 x 10 x 10 ins., 8 ins. in the ground, for 1/4 Sec. bor., marked 1/4 on N. face, dug pits, 18 x 18 x 12 ins., N. and S. of stone 5 1/2 ft. dist, and raised a mound of earth 1 1/2 ft. high, 3 1/2 ft. base.
445.00	Top of Spur, bears N. 20° E. & S. 20° W. and descend.
57.00	Cross Gulch, 30 lks. wide, Course N. 10° E. and ascend.
63.00	Top of Spur, bears N. 10° E. & S. 10° W. and descend.
80.00	Set a sand stone 14 x 10 x 8 ins. 11 ins. in the ground for bor. to secs. 4-5-32-33 marked with 2 notches on N. and 4 notches on E. edge, dug pits 18 x 18 x 12 ins. in each sec, 5 1/2 ft. dist, and raised a mound of earth 2 ft. high 4 1/2 ft. base.
	Land mountainous.
	Soil 3d. rate.
	Vegetation Bunchgrass.

N. B. T. 30 N. R. 55 W. 6th. P. M.

Chains.

N. 89° 45' E. on a true line between sections 4-33.

Va. 15° 30' East.

Descend.

7.50 Cross Gulch, 20 lks. wide, Course N. 10° E. and ascend.

10.00 Top of Spur, bears N. 10° E. & S. 10° W. and descend.

12.00 Cross Gulch, 20 lks. wide, Course North & ascend.

26.00 Cross Road, bears W. & E.

28.00 Top of Spur, bears N. W. & S. E. and descend.

36.50 Cross Gulch, 30 lks. wide, Course N. 40° W. and ascend.

46.00 Set a sand stone 14 x 12 x 10 ins., 10 ins. in the ground, for 1/4 Sec. Cor., marked 1/4 on N. face, dug pits, 18 x 18 x 12 ins., N. and S. of stone 5 1/2 ft. dist., and raised a mound of earth 1 1/2 ft. high, 3 1/2 ft. base.

56.00 Cross Gulch, 10 lks. wide, Course N. 50° W. and ascend.

77.00 Top of Spur, bears N. W. & S. E. and descend.

80.00 Set a sand stone 14 x 10 x 8 ins. 10 ins.

N. B. T. 30 N. R. 55 W. 6th. P. M.

Chains.

in the ground for Cor. to Secs. 3-4-33-34 marked with 3 notches on N. and 3 notches on E. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5 1/2 ft. dist., and raised a mound of earth 2 ft. high 1 1/2 ft. base.

Land mountainous.

Soil 3d. rate.

Vegetation Bunchgrass.

N. 89° 45' E. on a true line between sections 3-34.

Va. 15° 30' East.

Descend.

57.00 Cross Gulch, 25 lks. wide, Course S. 40° E. and ascend.

66.00 Set a sand stone 12 x 10 x 6 ins., 8 ins. in the ground, for 1/4 Sec. Cor., marked 1/4 on W. face, dug pits, 18 x 18 x 12 ins., N. and S. of stone 5 1/2 ft. dist., and raised a mound of Earth 1 1/2 ft. high, 3 1/2 ft. base

74.00 Top of Spur, bears N. W. & S. E. and descend.

N. B. T. 30 N. R. 55 W. 6th. P. M.

Chains.

36.00 Cross Wash, 250 lks. wide, Course North and ascend.

63.00 Top of Spur, bears N. W. & S. E. and descend.

66.68 Cross Gulch, 30 lks. wide, Course N. W. and ascend.

80.00 Set a sandstone 16 x 14 x 5 ins. 10 ins. in the ground for 6 cor. to secs. 2-3-34-35 marked with 4 notches on W. and 2 notches on E. edges and raised a mound of stone. Pits impracticable.

Land mountainous.

Soil 3d. rate.

Vegetation Bunchgrass.

N. 89° 45' E. on a true line between sections 2-35.

Va. 15° 30' East.

Ascend.

121.00 Top of Spur, bears N. W. & S. E. and descend.

127.57 Cross Gulch, 30 lks. wide, Course N. 40° W. and ascend.

N. B. T. 30 N. R. 55 W. 6th. P. M.

Chains.

16.00 Set a sandstone 14 x 9 x 3 ins., 10 ins. in the ground, for 1/4 Sec. Cor., marked 1/4 on N. face, dug pits, 18 x 14 x 12 ins., N. and S. of stone 5 1/2 ft. dist., and raised a mound of earth 1 1/2 ft. high, 3 1/2 ft. base.

68.00 Top of Spur, bears N. W. & S. E. and descend.

80.00 Set a sandstone 14 x 9 x 6 ins. 10 ins. in the ground for 6 cor. to secs. 1-2-35-36 marked with 5 notches on W. and 1 notch on E. edges, dug pits 18 x 18 x 12 ins. in each sec., 5 1/2 ft. dist., and raised a mound of earth 2 ft. high, 4 1/2 ft. base.

Land mountainous.

Soil 3d. rate.

Vegetation Bunchgrass.

N. 89° 45' E. on a true line between sections 1-36.

Va. 15° 30' East.

Descend.

N. B. T. 30 N. R. 55 W. 6th. P. M.

Chains.

5.00	Cross Gulch, 10 lks. wide, Course N. 20° E. and ascend.
19.00	Top of Spur, bears N. 30° E. & S. 30° W. and descend.
34.00	Cross Gulch, 80 lks. wide, Course N. 40° E. and ascend.
40.00	Set a sand stone 18 x 13 x 9 ins., 12 ins. in the ground, for 1/4 Sec. Cor., marked 1/4 on N. face, dug pits, 18 x 18 x 12 ins., N. and S. of Stone 3 1/2 ft. distant, and raised a mound of earth 1 1/2 ft. high, 3 1/2 ft. base.
46.50	Top of Spur, bears N. & S. and descend.
61.60	Cross Gulch, 30 lks. wide, Course N. 15° E. and ascend.
80.00	The Cor. to Tps. 30 & 31 N. Rs. 54 & 55 W.

Land mountainous.
Soil 3d. rate.
Vegetation Bunchgrass.

Nov. 7. 1881.

E. B. T. 30 N. R. 54 W. 6th. P. M.

Chains.

Before proceeding further with the exteriors of this Tp., I made a change of 5 minutes in the latitude arc of my solar compass by subtracting same from the reading previously given, and, at noon verified and corrected same by observation on the sun. I also further tested instrument by reversing. Thence

From the Cor. to Tps. 29 & 30 N. Rs. 53 & 54 W. I run

North in a true line between sections 31 & 36.

No. 16° East.

Descend.

5.00	Cross Wash, 60 lks. wide, Course S. 65° E. and ascend.
11.00	Top of Spur, bears E. & W. and descend.
17.00	Cross Wash, 65 lks. wide, Course S. 30° W. and ascend.
24.00	Top of Spur, bears N. E. & S. W. and descend.
37.00	Cross Wash, 80 lks. wide, Course S. 20° E. and ascend.
40.00	Set a sand stone 18 x 6 x 5 ins., 12 ins. in the ground, for 1/4 Sec. Cor., marked 1/4 on N. face, dug pits, 18 x 18 x 12 ins., E. and W.

E. B. T. 30 N. R. 54 W. 6th. P. M.

Chains.

of stone 5½ ft. dist, and raised a mound of earth 1½ ft. high, 3½ ft. base.

116.00 Top of Spur, bears N.E. & S.W. and descend.

52.00 Enter Sag bears S. 20° E. & N. 20° W.

69.00 Leave Sag bears S. 20° E. & N. 20° W. & ascend

79.00 Top of Spur, bears N.E. & S.W. and descend.

80.00 Set a sand stone 12 x 8 x 8 ins. 8 ins. in the ground for Cor. to Secs. 30 & 31 - 25 - 36 marked with 1 notch on S. and 5 notches on W. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high, 4½ ft. base.

Land mountainous.

Soil 3d. rate.

Vegetation Bunchgrass.

North on a true line between sections 25-30.

Va. 15° 30' East.

Descend.

3.00 Enter sag bears S. 30° E. & N. 30° W.

16.00 Leave sag bears S. 30° E. & N. 30° W. & ascend.

E. B. T. 30 N. R. 54 W. 6th. P. M.

Chains.

23.00 Top of Spur, bears S.E. & N.W. and descend.

51.00 Cross bro Sag and ascend.

56.00 Top of Spur, bears S.E. & N.W. and descend.

80.00 Set a sand stone 16 x 8 x 5 ins., 10 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.

117.00 Top of Divide between White River and Running Water bears N.E. & S.W. and Enter pine timber and descend.

63.55 Cross Road, bears N. 15° E. & S. 15° W.

71.00 Cross Gulch, 30 lks. wide, Course N. 10° W. and ascend.

75.00 Cross Road bears N. 10° W. & S. 10° E.

80.00 Set a post 11 ft. long, 4 ins. square, 12 ins. in the ground for Cor. to Secs. 24-25-19-30 marked T. 30 N. S. 19 on N.E. R. 54 W. T. 30 on S.E. S. 25 on S.W. and S. 24 on N.W. face, with 2 notches on S. and 4 notches on W. edges, dug pits, 18 x 18 x 12 ins.

E. B. T. 30 N. R. 54 W. 6th. P. M.

Chains.

in each sec., 5½ ft. dist., and raised a mound of earth 2½ ft. high, 4½ ft. base around post.

from which bears

A Pine 16 ins. diam. bears S. 30° W. 40 lks. dist., marked T. 30 N. R. 54 W. S. 25 B. T.

A Pine 8 ins. diam. bears N. 20° W. 40 lks. dist., marked T. 30 N. R. 54 W. S. 24 B. T.

Pine 10 ins. diam. bears S. 32° E. 39 lks. dist. marked T. 30 N. R. 54 W. S. 30 B. T.

Land mountainous.

Soil 3d. rate.

Timber and undergrowth of Pine and Bunchgrass.

Meth. on a true line between sections 19-24.

Va. 16° East.

Ascend.

5.00 Cross Gulch, 60 lks. wide, Course N. 20° E. and ascend.

10.00 Top of Spur, bears S. 20° E. & N. 20° W. and descend.

26.00 Cross low Sag and ascend.

40.00 Set a post 3 ft. long, 3 ins. diam.

E. B. T. 30 N. R. 54 W. 6th. P. M.

Chains.

12 ins. in the ground, for 1/16 Sec. Cor., marked 1/16 S. on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of post 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base around post.

from which bears

A Pine 6 ins. diam. 6 ft. 0° W. 320 lks. dist. marked 1/16 S. B. T.

44.60 Cross Road, bears S. 10° E. & N. 10° W.

46.00 Top of Ridge, bears N. 30° E. & S. 30° W. and descend.

68.00 Cross Road, bears N. 20° W. & S. 20° E.

74.30 Cross Gulch, 90 lks. wide, course N. 30° E. and ascend.

80.00 Set a post 4 ft. long, 4 ins. square, 12 ins. in the ground, for Cor. to Sec. 18-19-13-24 marked T. 30 N. S. 18 on W. E. R. 54 W. S. ~~19~~ 24 on S. E., S. ~~24~~ 19 on S. W. and S. 13 on N. W. face, with 3 notches on S. and 3 notches on N. edges; dug pits, 18 x 18 x 12 ins. in each sec., 5½ ft. dist., and raised a mound of earth 2 ft. high, 4½ ft. base around post.

E. B. T. 30 N. R. 54 W. 6th P. M.

Chains.

from which bears

A Yellow Pine 20 ins. dia. S. N. 20° E. 96 lks. dist.
marked T. 31 N. R. 54 W. S. 18 B. T.

A Yellow Pine 16 ins. dia. S. N. 30° W. 131 lks. dist.
marked T. 31 N. R. 54 W. S. 13 B. T.

A Yellow Pine 4 ins. dia. S. S. 15° E. 109 lks. dist.
marked T. 30 N. R. 54 W. S. 19 B. T.

A Yellow Pine 6 ins. dia. S. S. 23° W. 111 lks. dist.
marked T. 30 N. R. 54 W. S. 24 B. T.

Land mountainous.

Soil 3d. rate.

Timber and undergrowth of Pine & Bunch grass.

North, on a true line between sections 13-14.
Va. 16° East.

Ascend.

5.00 Top of Spur, bears N. E. & S. W. and descend.

23.70 Cross Gulch, 60 lks. wide, Course N. 80° E. and ascend.

26.00 Top of Spur, bears N. E. & S. W. and descend.

E. B. T. 30 N. R. 54 W. 6th P. M.

Chains.

31.00 Cross Gulch, 90 lks. wide, Course N. 30° E. and ascend.

41.00 Set a post 3 ft. long, 3 ins. diam. 12 ins. in the ground, for 1/4 Sec. Cor., marked 1/4 S. on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of post 3½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base around post.

from which bears

A Pine 24 ins. dia. S. S. 25° E. 86 lks. dist.
marked 1/4 S. B. T.

A Pine 24 ins. dia. S. N. 40° W. 61 lks. dist.
marked 1/4 S. B. T.

42.00 Top of Spur, bears N. 25° E. & S. 25° W. & descend.

56.00 Cross Gulch, 100 lks. wide, Course N. 30° E. and ascend.

57.00 Top of Spur, bears N. E. & S. W. and descend.

~~57.00 Cross Gulch, 110 lks. wide, Course N. 30° E. and descend.~~

~~57.00 Top of Spur bears N. E. & S. W. and descend.~~

80.00 Set a post 4 ft. long, 4 ins. square, 12 ins. in the ground, for Cor. to Secs. 12-13 & 7-18.

E. B. T. 30 N. R. 54 W. 6th. P. M.

Chains.

marked T. 30 N. S. 7 on N.E., R. 54 W. S. 18 on S.E., S. 13 on S.W. and S. 12 on N.W. face, with 4 notches on S. and 2 notches on N. edges, dug pits, 18 x 18 x 12 ins. in each S.C., 5½ ft. diam. and raised a mound of earth 2 ft. high, 4½ ft. base around post from which bears,

A Pine 20 ins. diam. bears N. 33° E. 196 lks. dist. marked T. 31 N. R. 54 W. S. 7 B. T.

A Pine 18 ins. diam. bears N. 45° W. 258 lks. dist. marked T. 31 N. R. 54 W. S. 12 B. T.

Land mountainous.

Soil 3d. rate.

Timber and undergrowth of Pine and Bunchgrass.

North, on a true line between sections 7-12.

Va. 16° East.

Descend.

5.00 Cross Gulch, 60 lks. wide, course N. 25° E. and ascend.

E. B. T. 30 N. R. 54 W. 6th. P. M.

Chains.

9.00 Top of Spur, bears N.E. & S.W. and descend.

21.00 Cross Gulch, 40 lks. wide, course N. 20° E. and ascend.

36.00 Top of Spur, bears E. & W. and descend.

40.00 Set a post 3 ft. long, 3 ins. diam. 12 ins. in the ground for 1/4 Sec. Cor., marked 1/4 S. on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of post 5½ ft. diam. and raised a mound of earth 1½ ft. high, 3½ ft. base around post. from which bears

A Pine 20 ins. diam. N. 57° W. 88 lks. dist. marked 1/4 S. B. T.

57.00 Cross Gulch, 30 lks. wide, Course N. 70 E. & descend.

60.00 Top of Spur, bears E. & W. and descend.

70.36 Cross Road, bears N. 70 E. & S. 70° W.

80.00 Set a post 4 ft. long, 4 ins. square, 12 ins. in the ground for Cor. to Secs. 6 & 7 & 12 marked T. 30 N. S. 6 on N.E. R. 54 W. S. 7 on S.E. S. 12 on S.W. and S. 1 on N.W. face, with 5 notches on S. and 1 notch on N. edges; dug pits, 18 x 18 x 12 ins. in each

E. B. T. 30 N. R. 54 W. 6th. P. M.

Chains.

Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high, 4½ ft. base around post.

from which bears,

A Pine 8 ins. diam. bears S. 87° E. 121 lks. dist. marked T. 30 N. R. 54 W. S., 7 B. T.

A Pine 6 ins. diam. bears S. 30° W. 9 lks. dist. marked T. 30 N. R. 54 W. S., 12 B. T.

A Pine 12 ins. diam. bears N. 35° E. 133 lks. dist. marked T. 31 N. R. 54 W. S., 6 B. T.

Land mountainous.

Soil 3d. rate.

Timber and undergrowth of Pine and Bunchgrass.

North on a true line between sections 1-6.

Va. 16° East.

Descend.

26.00 Cross Gulch, 60 lks. wide, Course N. 35° E. and ascend.

33.00 Top of Spur, bears N. E. & S. W. and descend.

40.00 Set a post 3 ft. long, 3 ins. diam.

E. B. T. 30 N. R. 54 W. 6th. P. M.

Chains.

12 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of post 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base around post.

40.80 Cross Gulch, 90 lks. wide, Course N. 20° E. and ascend.

56.00 Top of Spur, bears N. E. & S. W. and descend.

72.00 Cross branch of White River, 30 lks. wide, Course N. 60° E. and ascend.

80.00 Set a post, 4½ ft. long, 4 ins. square, 12 ins. in the ground, for Cor. to Tps. 30 and 31 N. Rs 53 and 54 W. marked T. 31 N. S., 31 on N. E. R. 53 W. S. 6 on S. E. T. 30 N. S. 1 on S. W. and R. 54 W. S. 36 on N. W. faces, with 6 notches on each edge, dug pits, 24 x 18 x 12 ins., lengthwise on each line, N. S. E. and W. of post, 6 ft. dist., and raised a mound of earth 2½ ft. high, 5 ft. base around post.

from which bears

A Pine 20 ins. diam. bears N. 20° W. 87 lks. dist.

E. B. T. 30 N. R. 54 W. 6 th. P. M.

Chains.

marked T. 31 N. R. 54 W. S. 36 B. T.
A Pine 8 ins. diam. bears S. 45° W. 25 lks. dist.
marked T. 30 N. R. 54 W. S. 1 B. T.
A Pine 8 ins. diam. bears N. 4° E. 6 lks. dist.
marked T. 31 N. R. 53 W. S. 31 B. T.
A Pine 6 ins. diam. bears S. 45° E. 4 lks. dist.
marked T. 30 N. R. 53 W. S. 6 B. T.
Land mountainous.
Soil 3d. rate.
Timber and undergrowth of Pine & Bunchgrass.

Nov. 8. 1881.

N. B. T. 30 N. R. 54 W. 6 th. P. M.

Chains.

Before proceeding further with the entries of this Tp., I made a change of 5 minutes in the latitude arc of my solar compass by adding same to the reading previously given, and at noon verified and corrected same by observation on the sun. I also further tested instruments by reversing. Thence

From the Cor. to Tps. 30 & 31 N., Rs. 53 & 54 W. Drum

West on a random line on N. B. of Tp.

Va. 16° 10' East.

I set temporary corners at every half mile, and at 5 miles 47. 25 chs. I arrive at a point 114 lks. North of Cor. to Tps. 30 & 31 N. Rs. 54 & 55 W. from which corner I run N. 89° 52' E. on a true line between sections 6 & 31.

Va. 15° 30' East

Descend.

6.00 Cross Gulch, 9 lks. wide, course N. 10° E. and descend.

A. B. T. 30 N. R. 54 W. 6th. P. M.

Chains.

8.50 Top of Spur, bears N. & S. and descend.
26.00 Cross Gulch, 20 lks. wide, Course N. 20° E. and ascend.
37.00 Top of Spur, bears N. & S. and descend.
38.25 Set a sandstone 16 x 15 x 12 ins., 12 ins. in the ground, for 1/4 Sec. Cor., marked 1/4 on N. face, and raised a mound of stone. Pits impracticable. from which bears, Pine 6 ins. diam. bears N. 20 W. 31 lks. dist., marked 1/4 S. B. T.
54.50 Cross Gulch, 30 lks. wide, Course North and ascend.
57.00 Top of Spur, bears N. 15° E. & S. 15° W. and descend.
70.50 Cross Gulch, 150 lks. wide, Course N. 20° E. and ascend.
75.00 Top of Spur, bears N. & S. and descend.
78.25 Set a post 4 ft. long, 4 ins. square, 12 ins. in the ground, for Cor. to Secs. 5-6-31-32, marked T. 30 N. S. 32 on N. E., R. 54 W. S. 5 on S. E., S. 6 on S. W. and S. 31 on N. W. face, with 1 notch on W. and 5 notches on E. edges, dug pits, 18 x 18 x 12 ins. in each Sec.,

A. B. T. 30 N. R. 54 W. 6th. P. M.

Chains.

5½ ft. dist., and raised a mound of earth 2 ft. high, 4½ ft. base around post.
Land mountainous.
Soil 3d. rate.
Timber and undergrowth of Pine & Bunchgrass.

N. 89° 52' E. on a true line between sections 5-32.
Va. 16° East.

Descend.
5.60 Cross Gulch, 90 lks. wide, Course North and ascend.
13.00 Top of Spur, bears N. & S. and descend.
31.00 Cross Gulch, 200 lks. wide, Course N. 10° E. and ascend.
40.00 Set a post 3 ft. long, 3 ins. diam. 12 ins. in the ground, for 1/4 Sec. Cor., marked 1/4 S. on N. face, and raised a mound of stone 1½ ft. high, 3½ ft. base around post. Pits impracticable.
from which bears,
A Yellow Pine 30 ins. diam. bears S. 53° W. 327 lks. dist.

N. B. T. 30 N. R. 54 W. 6th. P. M.

Chains.

	marked of T. B. T.
41.00	Top of Spur, bears N. 20° E. & S. 20° W. & descend.
46.00	Cross Gulch, 3 to 10 lks. wide, Course N. 20° E. & ascend.
56.30	Top of Spur, bears N. 20° E. & S. 20° W. & descend.
61.00	Cross Gulch, 17 lks. wide, Course N. 22° E. & ascend.
66.00	Top of Spur, bears N. & S. & descend.
80.00	Set a post 4 ft. long, 4 ins. square, 12 ins. in the ground, for Cor. to Secs. 4-5-32-33 marked T. 30 N. S. 33, on N. E., R. 54 W. S. 4 on S. E., S. 5 on S. W. and S. 32 on N. W. face, with 2 notches on W. and 4 notches on E. edge; dug pits, 18 x 14 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high, 4½ ft. base, around post.

from which bears

	Pine 12 ins. diam. bears S. 17½ W. 57 lks. dist. marked T. 30 N. R. 54 W. S. 5 B. T.
	Pine 14 ins. diam. bears N. 81° W. 53 lks. dist. marked T. 31 N. R. 54 W. S. 32 B. T.

N. B. T. 30 N. R. 54 W. 6th. P. M.

Chains.

	Pine 6 ins. diam. bears S. 20° E. 16 lks. dist. marked T. 30 N. R. 54 W. S. 4 B. T.
	Pine 6 ins. diam. bears N. 75° E. 110 lks. dist. marked T. 31 N. R. 54 W. S. 33 B. T.
	Land mountainous.
	Soil 3d. rate.
	Timber and undergrowth of Pine & Bunchgrass.

N. 89° 54' E. on a true line between sections 4-33.

Va. 16° East.

Descend.

1.00	Cross Gulch, 10 lks. wide, Course N. 20° E. and ascend.
3.50	Top of Spur, bears N. 20° E. & S. 20° W. and descend.
7.00	Cross Gulch, 35 lks. wide, Course N. 13° E. and ascend.
28.00	Top of Spur, bears N. & S. and descend.
37.00	Cross Gulch, 10 lks. wide, Course N. 10° W. and ascend.

A. B. T. 30 N. R. 54 W. 6th P. M.

Chains.

46.00	Set a sand stone 20 x 18 x 12 ins., 15 ins. in the ground, for 1/4 Sec. Cor., marked 1/4 on N. face, dug pits, 18 x 18 x 12 ins., N. and S. of Stone 5 1/2 ft. dist., and raised a mound of earth 1 1/2 ft. high, 3 1/2 ft. base.
	from which bears,
	Pine 24 ins. diam. bears S. 5° W. 43 lks. dist.
	marked 1/4 S. B. T.
51.00	Cross Wash, 30 lks. wide, Course North.
54.00	Top of Spur, bears N. & S. and descend.
76.00	Cross Gulch, 20 lks. wide, Course N. 30° W. and ascend.
80.00	Set a post 4 ft. long, 4 ins. square. 12 ins. in the ground, for Cor. to Secs. 3-4-33-34 marked T. 30 N. S. 34 on N. E., R. 54 W. S. 3 on S. E., S. 4 on S. W. and S. 33 on N. W. face, with 3 notches on W. and 3 notches on E. edges; and raised a mound of stone 2 ft. high, 4 1/2 ft. base around post. Pits impracticable.
	from which bears,
	A Pine 10 ins. diam. bears S. 79° W. 120 lks. dist.

A. B. T. 30 N. R. 54 W. 6th P. M.

Chains.

	marked T. 30 N. R. 54 W. S. 4 B. T.
	A Pine 6 ins. diam. bears N. 43° W. 93 lks. dist.
	marked T. 31 N. R. 54 W. S. 33 B. T.
	A Pine 11 ins. diam. bears N. 15° E. 76 lks. dist.
	marked T. 31 N. R. 54 W. S. ~~33~~ 34 B. T.
	Pine 9 ins. diam. bears S. 45° E. 138 lks. dist.
	marked T. 30 N. R. 54 W. S. 4 B. T.
	Land mountainous.
	Soil 3d rate.
	Timber and undergrowth of Pine and Bunchgrass.

N. 89° 52' E. on a true line between sections 3-34.
Ca. 15° 36' East.

Descend.

1.00	Cross Gulch, 40 lks. wide, Course North and ascend.
2.50	Top of Spur, bears N. & S. and descend.
15.30	Cross Gulch, 30 lks. wide, Course North and ascend.
23.50	Top of Spur, bears N. & S. and descend.
46.00	Set a post 3 ft. long, 3 ins. diam. 12 ins. in the ground, for 1/4 Sec. Cor., marked

N. B. T. 30 N. R. 54 W. 6th. P. M.

Chains.

1/4 S. on W. face, dug pits, 18 x 18 x 12 ins. N. and S. of post 5½ ft. disk, and raised a mound of earth 1½ ft. high, 3½ ft. base around post.

56.65 Cross Gulch, 50 lks. wide, Course North and ascend.

72.00 Top of Spur, bears N. & S. and descend.

80.00 Set a post 4 ft. long, 4 ins. square, 12 ins. in the ground, for bor. to sec. 2-3-34-35 marked T. 30 N. S. 35, on N.E., R. 54 W. S. 2 on S.E., S. 3 on S.W. and S. 34 on N.W. face, with 4 notches on W. and 2 notches on E. edges; dug pits, 18 x 18 x 12 ins. in each sec., 5½ ft. disk, and raised a mound of earth 2 ft. high, 4½ ft. base around post.

Land mountainous.

Soil 3d rate.

Timber and undergrowth of Pine and Bunchgrass.

N. B. T. 30 N. R. 54 W. 6th. P. M.

Chains.

N. 79° 52' E. on a true line between sections 2-35. Va. 15° 36' East.

Descend.

10.73 Cross Creek, 9 lks. wide, Course N. 20° W. and ascend.

40.00 Set a sand stone 13 x 9 x 4 ins., 8 ins. in the ground, for 1/4 Sec. bor., marked 1/4 on N. face, dug pits, 18 x 18 x 12 ins., N. and S. of stone 5½ ft. disk, and raised a mound of earth 1½ ft. high, 3½ ft. base.

55.50 Top of Spur, bears N. & S. and descend.

71.40 Cross branch of White River 30 lks. wide, Course S. 75° E. and ascend.

80.00 Set a post 4 ft. long, 4 ins. square, 12 ins. in the ground for bor. to sec. 1-2-35-36 marked T. 30 N. S. 36 on N.E., R. 54 W. S. 1 on S.E., S. 2 on S.W. and S. 35 on W.N. face, with 5 notches on S. and 1 notch on E. edges; dug pits, 18 x 18 x 12 ins. in each sec., 5½ ft. disk, and raised a mound of earth 2 ft. high, 4½ ft. base around post.

N. B. T. 30 N. R. 54 W. 6th. P. M.

Chains.

Land mountainous.
Soil 3d. rate.
Timber and undergrowth of Pine and Bunch grass.

N. 89° 52' E. on a true line between sections 1 & 36
Va. 16° East.

Descend.

27.65 Cross Gulch, 30 lks. wide, Course South & descend.
31.00 Top of Spur, bears N. & S. and descend.
34.20 Cross Gulch, 20 lks. wide, Course South & descend.
40.00 Set a post 3 ft. long, 3 ins. diam. 24 ins. in the ground, for 1/4 Sec. cor., marked 1/4 S. on N. face; from which bears
A Pine 6 ins. diam. bears N. 30° W. 24 lks. dist. marked 1/4 S. B. T.
Pine 6 ins. diam. bears S. 10° W. 21 lks. dist. marked 1/4 S. B. T.
47.50 Top of Spur, bears N. & S. and descend.
55.65 Cross Gulch, 20 lks. wide, Course South and descend.

N. B. T. 30 N. R. 54 W. 6th. P. M.

Chains.

62.00 Top of Spur, bears N. & S. and descend.
80.00 The Cor. to Tps. 30 & 31 N. Rs. 53 & 54 W.
Land mountainous.
Soil 3d. rate.
Timber and undergrowth of Pine and Bunchgrass.

Nov. 9, 1881

E. B. T. 30 N. R. 53 W. 6th. P. M.

Chains.

Before proceeding further with the exterior of this Tp., I made a change of 5 minutes in the latitude arc of my solar compass by subtracting same from the reading previously given, and at noon verified and corrected same by observation on the sun. Also further tested instruments by reversing. Thence

Run the bo. to Tps. 29 & 30 N. Rs 52 & 53 W. Run North on a true line between sections 31 & 36.

Va. 15° 50' East.

Ascend.

4.00 Top of hill bears E. & W. and descend.

10.00 Cross Wash, 100 lks. wide, Course N. 10° E. and ascend. heavy pine timber in this gulch.

30.00 Top of hill bears E. & W. and descend.

40.00 Set a sand stone 20 x 14 x 9 ins., 15 ins. in the ground, for 1/4 Sec. bo., marked 1/4 on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of stone 5 1/2 ft. dist., and raised a mound of earth, 1 1/2 ft. high, 3 1/2 ft. base.

E. B. T. 30 N. R. 53 W. 6th. P. M.

Chains.

from which bears

A Pine 14 ins. diam. bears S. 40° W. 200 lks. dist. marked 1/4 S. B. T.

80.00 Set a sand stone 16 x 14 x 10 ins. 10 ins. in the ground for Cor. to Secs. 30-31-25-36 marked with 1 notch on S. and 5 notches on W. edges, dug pits 18 x 18 x 12 ins. in each sec., 5 1/2 ft. dist., and raised a mound of earth 2 ft. high, 4 1/2 ft. base.

from which bears

Pine 16 ins. diam. bears S. 30° W. 200 lks. dist. marked T. 30 N. R. 53 W. S., 36 B. T.

Land hilly.

Soil 2d. rate.

Timber and undergrowth of Pine and Bunchgrass.

North on a true line between sections 25-36.

Va. 16° East.

Descend.

6.00 Cross Gulch, 50 lks. wide, Course N. 40° E. and ascend.

E. B. T. 30 N. R. 53 W. 6th. P. M.

Chains.

10.00	Top of Spur, bears E. & W. and descend.
14.00	Cross Gulch, 50 lks. wide, Course East and ascend.
22.18	A Pine 20 ins. diam.
36.00	Top of hill bears E. & W. and descend.
46.00	Set a sand stone 30 x 20 x 16 ins., 21 ins. in the ground, for 1/4 Sec. Cor., marked 1/4 on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of stone 3 1/2 ft. dist, and raised a mound of earth 1 1/2 ft. high, 3 1/2 ft. base.
48.30	Cross Gulch, 5 lks. wide, Course East and ascend.
60.00	Top of hill bears E. & W. and descend.
80.00	Set a sand stone 30 x 20 x 16 ins. 21 ins. in the ground for Cor. to Secs., 24-25-19-30 marked with 2 notches on S. and 4 notches on W. edges and raised a mound of stone. Pits impracticable. Land hilly. Soil 2d rate. Timber and undergrowth of Pine and Bunchgrass.

E. B. T. 30 N. R. 53 W. 6th. P. M.

Chains.

North on a true line between sections 19-24. Va. 15° 45' East.

	Ascend.
15.00	Top of hill bears E. & W. and descend.
31.00	Cross Gulch, 20 lks. wide, Course N. 20° W. and ascend.
34.00	Top of Spur, bears E. & W. and descend.
39.46	Cross Gulch, 50 lks. wide, Course N. 20° W. and ascend.
46.00	Set a sand stone 20 x 19 x 14 ins., 15 ins. in the ground, for 1/4 Sec. Cor., marked 1/4 on W. face, and raised a mound of stone. Pits impracticable.
50.00	Top of Spur, bears E. & W. and descend.
71.00	Cross Gulch, 30 lks. wide, Course N. 30° E. and ascend.
79.00	Top of Spur, bears E. & W. and descend.
80.00	Set a sand stone 20 x 18 x 16 ins. 15 ins. in the ground for Cor. to Secs. 18-19-13-24 marked with 3 notches on S. and 3 notches on W. edges, dug pits 18 x 18 x 12 ins. in

E. B. T. 30 N. R. 53 W. 6th. P. M.

Chains.

each Sec., 5½ ft. dist., & raised a mound of earth 2 ft. high, 4½ ft. base.
Land mountainous.
Soil 3d. rate.
Timber & undergrowth of Pine & Bunch grass.

North on a true line between sections 13 & 18.
Va. 15° 30' East.

Descend.

13.00 Cross Gulch, 20 lks. wide, Course East & descend.
40.00 Set a sand stone 14 x 10 x 8 ins., 16 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, & raised a mound of stone on Pits impracticable.
Top of hill bears N. 80° W. & S. 50° E. & descend.
78.00 Cross Gulch, 20 lks. wide, Course N. 80° E. & ascend.
80.00 A Pine 16 ins. diam., which I marked T. 30 N. S. 7 on W. E. R. 53 W. S. 17 on S. E. T. 30 N. S. 13 on S. W. R. 54 W.

E. B. T. 30 N. R. 53 W. 6th. P. M.

Chains.

S. 12 on N. W. faces with 4 notches on the S. and 2 notches on W. edges, for Cor. to Secs. 12-13-7-18.
from which bears
A Pine 16 ins. diam. bears N. 80° E. 15 lks. dist. marked T. 30 N. R. 52 W. S. 7 B. T.
A Pine 7 ins. diam. bears N. 50° W. 80 lks. dist. marked T. 30 R. 53 W. S. 12 B. T.
Land hilly.
Soil 2d. & 3d. rate.
Timber & undergrowth of Pine & Bunch grass.

North on a true line between sections 7 & 12.
Va. 15° 35' East.

Ascend.

10.00 Top of hill bears N. 76° E. & S. 70° W. & descend.
35.77 Cross Brook, 6 lks. wide, Course S. 20° E. & ascend.
40.00 An Elm 8 ins. diam. which I marked ¼ S. on W. face, for ¼ Sec. Cor., from which bears

E. B. T. 30 N. R. 53 W. 6th. P. M.

Chains.

An Elm 10 ins. diam. bears S. 50° E. 98 lks. dist.
marked 1/4 S. B. T.

41.00 Cross Creek, 8 lks. wide, Course N. 30° E. and ascend.

80.00 Set a post 4 ft. long, 4 ins. square.
12 ins. in the ground, for Cor. to Secs. 6-7-1-12,
marked T. 30 N. S. 6 on N. E., R. 53 W. S.
7 on S. E., S. 12 on S. W. and S. 1 on N. W. faces,
with 5 notches on S. and 1 notch on N. edges,
dug pits 18 x 18 x 12 ins. in each Sec. 5½ ft.
dist., and raised a mound of earth 2 ft.
high, 4½ ft. base around post.
Land hilly.
Soil 2d. & 3d. rate.
Timber and undergrowth of Pine and
Bunchgrass.

North in a true line between sections 1-6.
Va. 15° 35' East.

Descend.

2.00 Cross Creek, 6 lks. wide, Course N. 20° W. and ascend.

13.00 Cross Road, bears N. 20° W. & S. 20° E.

E. B. T. 30 N. R. 53 W. 6th. P. M.

Chains.

30.00 Top of hill bears N. W. & E. and descend.

39.00 Cross Gulch, 30 lks. wide, Course N. 50° W.
and ascend.

46.00 Set a post 3 ft. long, 3 ins. diam.
12 ins. in the ground, for 1/4 Sec. Cor.,
marked 1/4 S. on W. face, dug pits, 18 x 18 x
12 ins., E. and W. of post 5½ ft. dist.,
and raised a mound of earth 1½ ft.
high, 3½ ft. base around post.

80.00 Set a post, 4½ ft. long, 4 ins. square, 12
ins. in the ground, for Cor. to Tps. 30 and
31 R. 52 and 53 W., marked T. 31 N.
S. 31 on N. E. R. 52 W. S. 6 on S. E. T.
30 N. S. 1 on S. W. and R. 53 W. S. 36
on N. W. faces, with 6 notches on each
edge dug pits 4 x 4 x 18 x 12 ins. lengthwise
in each line N. S. E. and W. of post 6 ft.
dist., and raised a mound of earth 2½
ft. high, 5 ft. base around post.
Land hilly. Soil 2d. & 3d. rate.
Timber and undergrowth of Pine and Bunchgrass.

Mar. 10, 1881.

A. B. T. 30 N. R. 53 W. 6 th. P. M.

Chains.

Before proceeding further with the restitution of this Tp., I made a change of 5 minutes in the latitude, arc of my solar compass by adding same to the reading previously given, and at noon verified and corrected same by observation on the sun. I also further tested instrument by running

Thence

From the Cor. to Tps. 30 & 31 N. R. 52. & 53 W. Run West on a random line on N. B. of Tp.

Va. 15° 45' East.

I set temporary corners at every half mile, and at 5 miles 79.88 chs. I arrive at a point 56 lks. South of Cor. to Tps. 30 & 31 N. Rs. 53 & 54 W. from which corner, I run S. 89° 49' E. on a true line between sections 6 & 31.

Va. 16° 16' East.

Ascend.

41.00 Top of hill bears N. & S. and descend.

39.88 Set a sand stone 14 x 9 x 8 ins., 7 ins. in the ground, for 1/4 Sec. Cor., marked 1/4 on

A. B. T. 30 N. R. 53 W. 6 th. P. M.

Chains.

N. face, dug pits, 18 x 16 x 12 ins., N. and S. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.

56.00 Cross Creek 24 lks. wide, Course N. 75° E. and ascend.

72.00 Cross Creek 30 lks. wide, Course S. 30° E.

79.23 Cross Pond, bears N. 80° E. & S. 80° W.

79.88 Set a sand stone 14 x 11 x 6 ins. 10 ins. in the ground for Cor. to Secs. 5-6-31-32, marked with 1 notch on N. and 5 notches on E. edges, dug pits, 18 x 18 x 12 ins. in each pit, 5½ ft. dist., and raised a mound of earth 2 ft. high 1½ ft. base on Top of Spur bears N. & S.

Land hilly.

Soil 2d. & 3d. rate.

Timber and undergrowth of Pine and Bunchgrass.

S. 89° 49' E. on a true line between sections 5-32.

Va. 16° East.

N. B. T. 31 N. R. 53 W. 6th. P. M.

Chains.

Descend.

1.70 Cross Creek, 30 lks. wide, Course N. 30 E. and ascend.

30.00 Top of hill bears N. & S. and descend.

37.60 Cross Gulch, 20 lks. wide, Course North and ascend.

40.00 Set a sand stone 12 x 11 x 6 ins. 7 ins. in the ground, for 1/4 Sec. Cor., marked 1/4 on N. face, dug pits, 18 x 18 x 12 ins., N. and S. of stone 5 1/2 ft. dist., and raised a mound of earth 1 1/2 ft. high, 3 1/2 ft. base.

50.00 Top of hill bears N. & S. and descend.

80.00 Set a post 4 ft. long, 4 ins. square, 12 ins. in the ground for Cor. to Secs. 4-5-32-33 marked T. 31 N. S. 33 on N. E., R. 53 W. S. 4 on S. E., S. 5 on S. W. and S. 32 on N. W. face, with 2 notches on W. and 4 notches on E. edges; dug pits, 18 x 18 x 12 ins. in each Sec., 5 1/2 ft. dist., and raised a mound of earth 2 ft. high, 4 1/2 ft. base around post from which bears

An Elder 6 ins. diam. bears N. 80° E. 15 lks. dist.

N. B. T. 31 N. R. 53 W. 6th. P. M.

Chains.

marked T. 31 N. R. 53 W. S. 33 B. T.

An Elder 7 ins. diam. bears S. 70° W. 18 lks. dist. marked T. 31 N. R. 53 W. S. 5 B. T.

Land hilly.

Soil 2d. & 3d. rate.

Timber and undergrowth of Pine, Elder and Bunchgrass.

S. 89° 49' E. on a true line between sections 4-33.

Va. 16° 10' East.

Descend.

2.00 Cross Creek, 10 lks. wide, Course North and ascend.

6.00 Top of hill bears N. 10° E. & S. 10° W. and descend.

39.50 Cross Gulch, 20 lks. wide, Course N. 10° E. and ascend.

40.00 Set a sand stone 10 x 8 x 6 ins., 6 ins. in the ground, for 1/4 Sec. Cor., marked 1/4 on N. face, dug pits, 18 x 18 x 12 ins., N. and S. of stone 5 1/2 ft. dist., and raised a mound of earth 1 1/2 ft. high, 3 1/2 ft. base.

48.00 Top of hill bears N. 10° E. & S. 10° W. and descend.

52.00 Enter Flat bears N. & S.

N. B. T. 30 N. R. 53 W. 6th. P. M.

Chains.

75.00 Leave Flat bears N. & S. and ascend.
80.00 Set a sand stone 14 x 14 x 9 ins. 10 ins. in the ground for Cor. to Secs. 3-4-33-34 marked with 3 notches on W. and 3 notches on E. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high, 4½ ft. base.
Land hilly.
Soil 2d. & 3d. rate.
Timber and undergrowth of Pine & Bunchgrass.

S. 89° 49' E. on a true line between sections 3-34.
Va. 15° 50' East.

Descend.
46.00 Set a sand stone 12 x 14 x 8 ins., 8 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits 18 x 18 x 12 ins., N. and S. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
63.00 Cross Gulch, 15 lks. wide, Course North & ascend.

N. B. T. 30 N. R. 53 W. 6th. P. M.

Chains.

74.00 Top of hill bears N. & S. and descend.
80.00 Set a sand stone 16 x 14 x 9 ins. 10 ins. in the ground for Cor. to Secs. 2-3-34-35 marked with 4 notches on W. and 2 notches on E. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high, 4½ ft. base.
Land hilly.
Soil 2d. rate.
Timber and undergrowth of Pine & Bunchgrass.

S. 89° 49' E. on a true line between sections 2-35.
Va. 15° 55' East.

Descend.
20.00 Cross low Sag and ascend.
40.00 Set a sand stone 12 x 10 x 8 ins., 7 ins. in the ground, for ¼ Sec. Cor., marked ¼ on N. face, dug pits, 18 x 18 x 12 ins., N. and S. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
56.00 Top of hill bears N. & S. and descend.

N. B. T. 30 N. R. 53 W. 6th. P. M.

Chains.

74.00 Cross Road, bears N. & S.

80.00 Set a sand stone 21 x 11 x 6 ins. 15 ins. in the ground for Cor. to Secs. 1-2-35-36 marked with 5 notches on W. and 1 notch on E. edges, dug pits 18 x 18 x 12 ins. in each sec., 5½ ft. dist., and raised a mound of earth 2 ft. high, 4½ ft. base.

Land hilly.

Soil 2d. & 3d. rate.

Vegetation Bunchgrass.

S. 89° 49' E. on a true line between sections 1-36

Va. 15° 45' East.

Descend.

15.34 Cross Creek, 10 lks. wide, Course North and ascend.

40.00 Set a sand stone 16 x 10 x 9 ins., 10 ins. in the ground, for ¼ Sec. Cor., marked ¼ on N. face, dug pits, 18 x 18 x 12 ins., N. and S. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.

80.00 The Cor. to Tps. 30 & 31 N. Rs. 52 & 53 W.

N. B. T. 30 N. R. 53 W. 6th. P. M.

Chains.

Land hilly.

Soil 2d. & 3d. rate.

Vegetation Bunchgrass.

Nov. 11. 1881.

E. B. T. 30 N. R. 52 W. 6th P. M.

Chains.

Before proceeding further with the exterior of this Tp., I made a change of 5 minutes in the latitude arc of my solar compass by subtracting same from the reading previously given, and not verified and corrected same by observation on the sun. I also further tested instrument by reversing. Thence

From the Cor. to Tps. 29 & 30 N. Rs. 51 & 52 W. which is a Pine tree 13 ins. diam. Run North on a true line between sections 31 & 36

Va. 16° East.

Ascend.

1.00 Top of Spur, brass E. & W. and descend.

14.00 Cross Gulch, 10 lks. wide, Course S. 10° E. and ascend.

33.00 Top of Ridge, brass N. 10° W. & S. 10° E. & descend.

40.00 Set a sand stone 12 x 9 x 6 ins., 7 ins. in the ground, for 1/4 Sec. Cor., marked 1/4 on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of stone 5½ ft. dist., and raised a mound of earth

E. B. T. 30 N. R. 52 W. 6th P. M.

Chains.

1½ ft. high, 3½ ft. base.

58.90 Cross Gulch, ½ lk. wide, Course East & ascend.

61.00 Top of hill brass E. & W. and descend.

79.00 Enter Flat brass E. & W.

80.00 Set a post 4 ft. long, 4 ins. square, 12 ins. in the ground, for Cor. to Secs. 30-31-25-36, marked T. 30 N. S. 31 on N.E., R. 52 W. S. 31 on S.E., S. 36 on S.W. and S. 25 on N.W. face, with 1 notch on S. and 5 notches on N. edges; dug pits, 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high, 4½ ft. base around post.

Land mountainous.

Soil 3d. rate.

Vegetation Bunchgrass.

North on a true line between sections 25-30.

Va. 16° 11' East.

Cultivated land.

2.56 Cross Road, brass N. 30° E. & S. 30° W.

E. B. T. 30 N. R. 52 W. 6th. P. M.

Chains.

3.50 Leave Flat bears E. & W. and ascend.
9.50 Top of Ridge, bears E. & W. and descend.
15.70 Cross Road to Sidney bears E. & W.
17.70 Cross Road to Sidney bears E. & W.
25.00 Cross Road to Sidney bears E. & W.
34.60 Cross Gulch, 20 lks. wide, Course E. & ascend.
40.00 Set a post 3 ft. long, 3 ins. diam. 12 ins. in the ground, for 1/4 Sec. Cor., marked 1/4 S. on W. face, dug pits, 18 x 18 x 12 ins. E. and W. of post 5 1/2 ft. dist., and raised a mound of earth 1 1/2 ft. high, 3 1/2 ft. base around post.
80.00 Set a post 4 ft. long, 4 ins. square, 12 ins. in the ground, for Cor. to Secs. 24-25-19-30 marked T. 30 N. S. 19 on N. E., R. 52 W. S. 30 on S. E., S. 25 on S. W. and S. 24 on N. W. faces with 2 notches on S. and 4 notches on E. & W. edges, dug pits, 18 x 18 x 12 ins. in each Sec., 5 1/2 ft. dist., and raised a mound of earth 2 ft. high, 4 1/2 ft. base around post.
Land rolling.
Soil 2d. & 3d. rate. Vegetation Bunchgrass.

E. B. T. 30 N. R. 52 W. 6th. P. M.

Chains.

North, on a true line between sections 19-24. Va. 16° East.

Ascend.
13.00 Top of Ridge, bears N. W. & S. E. and descend.
17.50 Cross low Sag and ascend.
30.00 Top of Ridge, bears E. & W. and descend.
40.00 Set a post 3 ft. long, 3 ins. diam. 12 ins. in the ground, for 1/4 Sec. Cor., marked 1/4 S. on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of post 5 1/2 ft. dist., and raised a mound of earth 1 1/2 ft. high, 3 1/2 ft. base around post.
45.00 Enter Pine Timber bears N. W. & S. E.
57.00 Cross Gulch, 30 lks. wide, Course N. E. and ascend.
62.50 Top of Ridge, bears N. W. & S. E. and descend.
77.40 Cross Gulch, 40 lks. wide, Course East and ascend.
79.00 Top of Spur, bears E. & W. and descend.
80.00 Set a post 4 ft. long, 4 ins. square, 12 ins. in the ground, for Cor. to Secs. 18 & 13-24 marked T. 30 N. S. 18 on N. E., R. 52 W. S. 19

E. B. T. 30 N. R. 52 W. 6th. P. M.

Chains.

on S.E., S. 24 on S.W. and S. 13 on N.W. face, with 3 notches on S. and 3 notches on N. edges, dug pits, 18x18x12 ins. in each face, 5½ ft. dist., and raised a mound of earth 2 ft. heigh, 4½ ft. base around post.

from which bears,

A Pine 18 ins. diam. bears S. 45° E. 19 lks. dist. marked T. 30 N. R. 51 W. S. 19 B. T.

A Pine 7 ins. diam. bears N. 40° E. 6 lks. dist. marked T. 30 N. R. 51 W. S. 18 B. T.

A Pine 6 ins. diam. bears S. 51° W. 9 lks. dist. marked T. 30 N. R. 52 W. S. 24 B. T.

Land mountainous.

Soil 3d. rate.

Timber and undergrowth of Pine and Bunchgrass.

North, on a true line between sections 13-14.

Va. 16° East.

Descend.

.50 Cross Gulch, 15 lks. wide, Course East and asend.

E. B. T. 30 N. R. 52 W. 6th. P. M.

.90 A Pine 16 ins. diam.

2.00 Top of Spur, bears E. & W. and desend.

4.80 Cross Canon, 20 lks. wide, Course N. 15° W. and ascend.

7.50 Top of Spur, bears E. & W. and desend.

17.00 Top of Spur, bears N.W. & S.E. and desend.

20.16 Cross Canon, 20 lks. wide, Course N. 25° E. and ascend.

25.10 Top of Ridge, bears N.W. & S.E. and descend.

38.30 Cross Brook, 10 lks. wide, Course N. 27° W. & ascend.

40.00 Set a post 3 ft. long 3 ins. diam. 12 ins. in the ground for 1/4 Sec. Cor., marked 1/4 S. on W. face, and raised a mound of stone 1½ ft. high, 3½ ft. base around post. Pits impracticable.

43.50 Top of Spur, bears N.W. & S.E. and desend.

47.00 Cross Brook, 1 lks. wide, Course N. 28° E. & ascend.

56.00 Top of Spur, bears E. & W. and desend.

74.77 Cross Creek, 1 lks. wide, Course N. 30° W. and ascend.

E. B. T. 30 N. R. 52 W. 6th. P. M.

Chains.

80.00 Set a post 4 ft. long, 4 ins. square, 12 ins. in the ground, for bo. to secs. 12 & 13 7-18 marked T. 30 N. S. 7 on N. E., R. 52 W. S. 18 on S. E. S. 13 on S. W. and S. 12 on N. W. face, with 4 notches on S. and 2 notches on N. & E. edges; dug pits, 18 x 18 x 12 ins. in each Sec, 5½ ft. dist., and raised a mound of earth 2 ft. high, 4½ ft. base around post.

from which bears

A Pine 12 ins. diam. bears S. 55° W. 16 lks. dist. marked T. 30 N. R. 52 W. S. 13 B. T.

A Pine 6 ins. diam. bears N. 20° E. 50 lks. dist. marked T. 30 N. R. 51 W. S. 7 B. T.

Land mountainous.

Soil 3d. rate.

Timber and undergrowth of Pine and Bunchgrass.

North on a true line between sections 7-12.

Va. 15° 55' East.

E. B. T. 30 N. R. 52 W. 6th. P. M.

Chains.

Ascend.

37.00 Top of Spur, bears E. & W. and descend.

37.60 Cross Gulch, 10 lks. wide, course N. E. and ascend.

46.00 A Pine 8 ins. diam., which I mark ¼ S. on W. face, for ¼ Sec. bo.,

from which bears,

A Pine 8 ins. diam. bears S. 40° W. 6 lks. dist. marked ¼ S. B. T.

on Top of Spur, bears E. & W. and descend.

54.00 Cross Gulch, 12 lks. wide, course N. 40° W. and ascend.

63.00 Top of Spur, bears E. & W. and descend.

80.00 Set a post 4 ft. long, 4 ins. square, 12 ins. in the ground, for bo. to secs. 6-7-1-12 marked T. 30 N. S. 6 on N. E., R. 52 W. S. 7 on S. E., S. 12 on S. W. and S. 1 on N. W. face, with 5 notches on S. and 1 notch on N. edges; dug pits 18 x 18 x 12 ins. in each Sec, 5½ ft. dist., and raised a mound of earth 2 ft. high, 4½ ft. base

E. B. T. 31 N. R. 52 W. 6th. P. M.

Chains.

around post.
A Hay, bears S. 54° W. about 30. racks. dist.
Land mountainous.
Soil 3d. rate.
Timber and undergrowth of Pine and
Bunchgrass.

North on a true line between sections 1-6.
Va. 15° 50' East.

Descend.
9.50 Enter Flat bears E. & W.
27.00 Leave Flat bears N.W. & S.E. and ascend.
31.00 Top of Ridge bears N.W. & S.E. and descend.
34.00 Enter Flat bears N.W. & S.E.
40.00 Set a post 3 ft. long, 3 ins. diam.
12 ins. in the ground, for 1/4 Sec. Cor.,
marked 1/4 S. on W. face, dug pits, 18 x
18 x 12 ins., E. and W. of post 5 1/2 ft. dist.,
and raised a mound of earth 1 1/2 ft. high,
3 1/2 ft. base around post.
40.50 Leave Flat bears N.W. & S.E. and ascend.

E. B. T. 31 N. R. 52 W. 6th. P. M.

Chains.

44.00 Top of Spur, bears E. & W. and descend.
46.00 Enter Flat bears E. & W.
50.00 Set a post, 4 1/2 ft. long, 4 ins. square,
12 ins. in the ground for Cor. to Tps.
30 and 31 N. R. 51 and 52 W. marked
T. 31 N. S. 31 on N. E. R. 51 W. S. 6 on
S. E. T. 30 N. S. 1 on S. W. and R. 52 W.
S. 36 on N. W. faces, with 6 notches
on each edge, dug pits, 24 x 18 x 12 ins.,
lengthwise on each line, N. S. E. and W.
of post, 6 ft. dist., and raised a mound
of earth 2 1/2 ft. high, 5 ft. base around
post.
62.50 Chs. Balance level.
Land mountainous
Soil 2d. & 3d. rate.
Timber and undergrowth of Pine &
Bunchgrass.

Nov. 12, 1881.

A. B. T. 30 N. R. 52 W. 6th. P. M.

Chains.

Before proceeding further with the exteriors of this Tp. I made a change of 5 minutes in the latitude arc of my solar compass by adding same to the reading previously given, and at noon verified and corrected same by observation on the sun. I also further tested instrument by reversing. Thence From the Cor. to Tps. 30 & 31 N., Rs. 51 & 52 W. I run West on a random line on N. B. of Tp.

Va. 16° East.

I set temporary corners at every half mile, and at 5 miles 79.08 chs. I arrive at a point 1/2 lks. North of Cor. to Tps. 30 & 31 N. Rs. 52 & 53 W. from which corner, I run N. 89° 55' E. on a true line between sections 6 & 31.

Va. 15° 45' East.

Ascend.

21.00 Top of Ridge, bears N. & S. and descend.

33.00 Cross Gulch, 20 lks. wide, Course South and ascend.

A. B. T. 30 N. R. 52 W. 6th. P. M.

Chains.

37.00 Top of Spur, bears N. & S. and descend.

*39.60 Cross Gulch, 20 lks. wide, Course S. 30° W. and ascend.

*39.08 Set a sand stone 16 x 14 x 12 ins., 10 ins. in the ground, for 1/4 Sec. Cor., marked 1/4 on N. face, and raised a mound of stone. Pits impracticable.

46.00 Top of hill bears N. & S. and descend.

57.00 Cross Gulch, 10 lks. wide, Course North and ascend.

62.00 Top of Spur, bears N. & S. and descend.

79.08 Set a sand stone 11 x 9 x 6 ins. 8 ins. in the ground for Cor. to Secs. 5-6-31-32 marked with 1 notch on W. and 5 notches on E. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5 1/2 ft. dist., and raised a mound of earth 2 ft. high, 4 1/2 ft. base.

Land mountainous.

Soil 3d. rate.

Timber and undergrowth of Pine and Bunchgrass.

N. B. T. 31 N. R. 52 W. 6th. P. M.

Chains.

N. 89° 55' E. on a true line between sections 5-32.

Va. 15° 40' East.

Descend.

8.00 Cross Gulch, 20 lks. wide, Course N.E. and ascend.

20.00 Top of hill bears N.E. & S.W. and descend.

30.20 Cross Creek, 6 lks. wide, Course North and ascend.

40.00 Set a post 3 ft. long 3 ins. diam. 12 ins. in the ground, for 1/4 Sec. Cor., marked 1/4 S. on N. face, dug pits, 18 x 18 x 12 ins., N. and S. of post 5 1/2 ft. dist., and raised a mound of earth 1 1/2 ft. high, 3 1/2 ft. base around post.

80.00 Set a sandstone 11 x 9 x 4 ins. 8 ins. in the ground for Cor. to secs. 4-5-32-33 marked with 2 notches on W. and 4 notches on E. edges and raised a mound of stone.

Land hilly. Soil 2d. & 3d. rate. Timber and undergrowth of Pine and Bunchgrass.

N. B. T. 31 N. R. 52 W. 6th. P. M.

Chains.

N. 89° 55' E. on a true line between sections 4-33.

Va. 15° 55' East.

Descend.

8.00 Top of Ridge, bears N. & S. and descend.

40.00 Set a sandstone 11 x 9 x 4 ins., 8 ins. in the ground, for 1/4 Sec. Cor., marked 1/4 on W. face, dug pits, 18 x 18 x 12 ins., N. and S. of stone 5 1/2 ft. dist., and raised a mound of earth 1 1/2 ft. high, 3 1/2 ft. base.

56.00 Cross Creek, 6 lks. wide, Course North 1/2 E. and ascend.

80.00 Set a sandstone 11 x 9 x 6 ins. 8 ins. in the ground for Cor. to secs. 3-4-33-34 marked with 3 notches on W. and 3 notches on E. edges, dug pits 18 x 18 x 12 ins. in each sec., 5 1/2 ft. dist., and raised a mound of earth 2 ft. high, 4 1/2 ft. base.

Land hilly. Soil 2d. & 3d. rate. Vegetation Bunchgrass.

T. 30 N. R. 52 W. 6th. P. M.

Chains.

N. 89° 55' E. on a true line between sections 3-34.

Va. 16° East.

Ascend.

46.00 Set a sand stone 18 x 14 x 8 ins., 12 ins. in the ground, for 1/4 Sec. cor., marked 1/4 on N. face, dug pits, 18 x 18 x 12 ins., N. and S. of stone 5 1/2 ft. dist., and raised a mound of earth 1 1/2 ft. high in 3 1/2 ft. base.

Top of Ridge, bears N. 1 f. and descend.

52.00 Cross Creek, 7 lks. wide, Course North & descend.

70.00 Set a sand stone 12 x 9 x 6 ins. 7 ins. in the ground for cor. to Secs. 2-3-34-35 marked with 4 notches on N. and 2 notches on E. edges, dug pits 18 x 18 x 12 ins. in each sec., 5 1/2 ft. dist., and raised a mound of earth 2 ft. high, 4 1/2 ft. base.

Land mountainous.

Soil 3d. rate.

Vegetation Bunchgrass.

T. 30 N. R. 52 W. 6th. P. M.

Chains.

N. 89° 55' E. on a true line between sections 2-35.

Va. 16° 10' East.

Ascend.

4.00 Top of hill bears N. 1 f. and descend.

46.00 Set a sand stone 12 x 6 x 4 ins., 8 ins. in the ground, for 1/4 Sec. cor., marked 1/4 on N. face, dug pits, 18 x 18 x 12 ins. N. and S. of stone 5 1/2 ft. dist., and raised a mound of earth 1 1/2 ft. high, 3 1/2 ft. base.

62.00 Cross Road, bears N. 30° W. 1 f. 30° E.

77.00 Cross Brook, 7 lks. wide, Course West & ascend.

80.00 Set a sand stone 14 x 9 x 6 ins. 7 ins. in the ground for cor. to Secs. 1-2-35-36 marked with 5 notches on N. and 1 notch on E. edges, dug pits 18 x 18 x 12 ins. in each sec., 5 1/2 ft. dist., and raised a mound of earth 2 ft. high, 4 1/2 ft. base.

Land hilly. Soil 3d. rate.

Vegetation Bunchgrass.

N. B. T. 31 N. R. 52 W. 6th P. M.

Chains.

N. 19° 55' E. on a true line between sections 1-36.

No. 16° East.

Ascend.

11.00 Top of hill bears N. & S. Ascend.

40.00 Set a sand stone 10 x 4 ins., 8 ins. in the ground, for 1/4 Sec. cor., marked 1/4 on N. face, dug pits, 18 x 18 x 12 ins., N. and S. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.

44.00 Cross Creek, 12 lks. wide, Course North and sand.

50.00 Top of hill bears N. & S. Ascend.

52.00 Cross Creek, 16 lks. wide, Course N. 30° W.

80.00 The cor. to Tps. 31 & 30 N. R. 51 & 52 W.

Land mountainous.

Soil 3d. rate.

Vegetation Bunchgrass.

Nov. 14. 1881.

317.

N. B. N.

Chains.

U. S. Surveyor Generals Office
Plattsmouth Neb.

August 31st 1882

The foregoing field notes of the survey of the exterior lines of Tp. 29 N. of Ranges 53, 54, 55 & 56 W. & Tp. 30 N. Ranges 52. 53. 54. 55, 56 & 57 W. of 6th Principal Base & Meridian in the state of Neb. executed by M. F. Reilly, U. S. Dep. Surv. under his contract No. 2, dated September 22d 1881, in the months of October & November 1881. having been critically examined, the necessary corrections & explanations made, the said field notes and the surveys the describe are hereby approved

Geo. S. Smith
Surveyor General
for Iowa & Neb.

317.

M. B. N.

Chains.

Field Notes
of the
Survey of the Exterior Lines
of
Tps. 33 & 34 & 35. R 54 W
Tp. 35. R 53 W
Tp. 31. 32. 33. 34 & 35 North of
Ranges 55. 56 & 57 W of
6th P M
by
George W Fairfield
U. S. Deputy Surveyor
under his Contract
No 13
Dated Sept. 14 1882

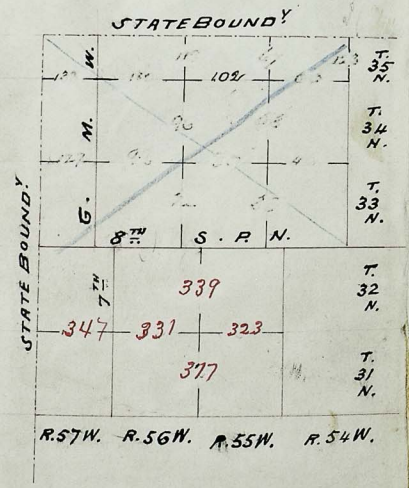
Survey
Commenced June 12. 1883
Completed Aug. 1 1883

Exteriors Tp. 31 N Range 55 W

Survey
Commenced with a Burts Improved Solar Compass manufactured by W & L.E. Gurley of Troy N. York 1880

On the 1st day of May 1883. I carefully compared my instrument with the true meridian at Plattsmouth Nebraska and found it to be correct and to reverse perfectly. And I then proceeded to the field. At the Cor to Tps. 30 & 31 N. Rs. 55 & 56 W I made an observation on the Sun at noon on the 12th day of June 1883 and found the Latitude to be 42°.36' N.

I began at the corner to Townships 30 and 31. N Ranges 55 and 56 W. which is now a sandstone 24+18+12 ins marked
T. 31 N on N



Chains.

Ex. W. B. Tp 31 N

Chains	
	Ro. 55 W on E. T 30 N on S and Ro 56. W. on W faces with 6. notches on N. S. & W faces. and pitts 24+18+12 in. N. S. E. W. of stone 6 ft. dist. and mound of earth 2 ft high 4½ ft base alongside Thence 3 run
	North between Sections 31. and 36. Va 15.30 E
40.00	Set a Sandstone 14+12+4 ins 10 in the ground for ¼ Sec. Cor Marked ¼ on W face dug pitts 18+18+12 in N & S of Stone 5½ ft. Dist. and raised a mound of earth 1½ ft high 3½ ft base alongside
51.00	Drain bears West
80.00	Set a Sandstone 18+11+5 ins. 14 ins in the ground for Cor to Secs 25. 30. 31 & 36 Marked with 5 notches on North and 1. Notch on South faces with pitts 18+18+12 in in each Sec 5½ ft dist and raised a mound of earth 2 ft high 4½ ft base alongside Rolling. 3rd rate. Sandy Soil

Range 55 W

Chains	
	North between Sections 25 and 30 Va 15.30 E
40.00	Set a Sandstone 12+10+6 ins 10 lows in the ground for ¼ Sec Cor. Marked ¼ on W face dug pitts 18+18+12 in N and S of Stone 5½ ft dist and raised a mound of earth 1½ ft high 3½ ft base alongside
44.00	Gulch 50 ft wide bears N. W.
80.00	Set Sandstone 21+11+6 ins 18 ins in the ground for Cor to Secs 19. 24. 25 and 30. marked with 4 notches on N and 2 notches on S faces dug pitts 18+18+12 ins in each Sec 5½ ft dist and raised a mound of earth 2 ft high 4½ ft base alongside Land Rolling Soil Sandy 3rd Rate

N. D.

Chains.

Ext. W. B. Tp 31 N.

Chains	North between Sections 19 & 24 va 15° 30' E
40.00	Set Sandstone 16+6+4 ins 14 ins in the ground for ¼ Sec Cor marked ¼ on W. face dug pits 18+18+12 ins N. & S. of stone 5½ ft. dist and raised a mound of earth 1½ ft high 3½ ft base alongside
80.00	Set a sandstone 26+14+6. ins. 20 ins in the ground for cor to secs 13. 18. 19 and 24 marked with 3 notches on N and S edges dug pits 18+18+12 ins in each sec 5½ ft dist and raised a mound of earth 2 ft high 4½ ft base alongside

Land rolling Soil sandy 3rd rate

Range 55 W

Chains	North between Sections 13 and 18 va 15° 30' E
33.00	Drain 50 ft deep bears. E
40.00	Set a sandstone 14+10+6 ins 12 ins in the ground for ¼ Sec Cor marked ¼ on W face dug pits 18+18+12 ins N and S of stone 5½ ft dist and raised a mound of earth 1½ ft high 3½ ft base alongside
80.00	Set a sandstone 18+10+5 ins, 16 ins in the ground for Cor to Secs 7. 12. 13 and 18 marked with 2 notches on N. and 4 notches on S edges dug pits 18+18+12 ins in each section 5½ ft dist and raised a mound of earth 2 ft high 4½ ft base alongside

Land gently rolling
2nd rate soil

Exts W B Tp 31 N

Chains	North between Sections 7. and 12 Va. 15° 30' E.
39.00	Barren point 10 ft high E. & W.
40.00	Set a Sandstone 16+9+5 ins 14 ins in the ground for ¼ Sec. Cor marked ¼ on W face dug pits 18+18+12 in N. & S. of stone 5½ ft dist raised mound of earth 1½ ft high 3½ ft base alongside
70.00	Head of drain bears S. E
79.50	Wagon road bears S. W. and N. E.
80.00	Set a sandstone 48+14+4 ins 20 ins in the ground for Cor to Secs 1. 6. 7. & 12 marked with 1 notch on N and 5 notches on S edges with pits 18+18+12 ins in each Sec 5½ ft dist and raised a mound of earth 2½ ft high 4½ ft base alongside
	Land Broken 3rd rate

Range 55 W

Chains	North between Secs 1. and 6. Va 15° 30' E
40.00	Set a sandstone 14+12+6 ins 9 inc in the ground for ¼ Sec Cor marked ¼ on W face dug pits 18+18+12 ins N. & S of stone 5½ ft dist and raised a mound of earth 1½ ft high 3½ ft base alongside
80.00	Set a Sandstone 30+8+4 ins 20 in in the ground for Cor to Tps 31 and 32 N. R's 55 & 56 W marked with T. 32. on N E. R 56 .. N W T 31 .. S. W and R 55 .. S. E faces with 6 notches on each edges dug pits 24+18+12 ins lengthwise on each line N. S. E & W of stone 6 ft dist and raised a mound of earth 2. ft high 4½ ft base alongside
	Land Rolling Prairie Soil 2nd rate

Ext. N.B. Tp 31 N

Chains	
	From the Cor to Tps 31 and 32 N Rs 55 & 56 W I run East on a random line between said Townships the variation of my compass being 15° 30' E.
	I set temporary half mile and mile corners at each 40 and 80 chs and I find the township line to be just 6 miles in length and the falling to be 44 Lks N of the Cor to Tps 31 and 32 N Rs 54 & 55 W. The correction for the true line will therefore be 7½ Lks S per mile and its course will be N 89° 57' West
	From the Cor to Tps 31 and 32 N Rs 54 & 55 W which is a sandstone 18+18+8 ins above mound of earth with 6 notches on each edge and pits N. S. E. & W. of stone 6 ft dist and mound of earth alongside I run
	North 89° 57' West on a true line between Secs 1 and 36
	Va, 15° 30' E

Range 55 W

Chains	
2.00	Drain 25 ft deep bears S. and E
40.00	Set a Sandstone 16+10+6 ins 14 ins in the ground for ¼ Sec. Cor. marked ¼ on N face dug pits 18+18+12 ins E & W of stone 5½ ft dist and raised mound of earth 1½ ft high 3½ ft base alongside
49.50	Drain bears S.
66.50	Grassy Drain bears S.
80.00	Set a Sandstone 24+13+6 ins 20 ins in the ground for Cor to Sections 1 2. 35 and 36 marked with 1 notch E and 5 notches on W edges dug pits 18+18+12 in each section 5½ ft dist and raised a mound of earth 2 ft high 4½ ft
	Base alongside
	Land Rolling
	3rd rate Soil

Ext N B Tp 31 N

Chains	
	N 89°.57' West on a true line bet Sec 2 & 35 Va 15°.30' E
6.00	Drain bears S.E. 5 chs wide
40.00	Set a sandstone 16+9+9 ins 14 ins in the ground for ¼ Sec Cor marked ¼ on N face dug pits 18+18+12 ins E & W of stone 5½ ft dist and raised a mound of earth 1½ ft high 3½ ft base alongside
80.00	Set a sandstone 18+12+7 ins 14 ins in the ground for cor to Secs 2.3 34 and 35 marked with 2 notches on E and 4 notches on W edges dug pits 18+18+12 ins in each Sec 5½ ft dist and raised a mound of earth 2 ft high 4½ ft base alongside

Sand Rolling
Soil 3rd rate

Range 55 W

Chains	
	N 89°.57' West on a true line bet secs 3 & 34 Va 15°.30' E
8.00	Drain bears N.W.
40.00	Set a sandstone 17+9+6 ins, 15 ins in the ground for ¼ Sec Cor marked ¼ on N face dug pits 18+18+12 ins E & W of stone 5½ ft dist and raised a mound of earth 1½ ft high 3½ ft base alongside
72.00	Enter timber bears N.W. & S.E.
80.00	Set a sandstone 21+11+6 ins 18 ins in the ground for cor to secs 3.4.33 & 34 marked with 3 notches on E and W. edges dug pits 18+18+12 ins in each Sec 5½ ft dist and raised a mound of earth 2 ft high 4½ ft base alongside
	A pine 10 in dia brs N 89°.15' W 5.35 chs dist
	A pine 26 in dia. brs. S 84°.15' W. 5.85 chs dist

Land broken Soil 3rd rate
Timber. Young Pine 8 chs

Exts N B.T. 31 N

Chains	
	N. 89°.57' West on a true line bet Secs 4 & 33 va 15°.30' E
10.00	Canyon bears N. W.
36.00	Drain bears N
40.00	Set a Sandstone 12+6+4 ins 9 ins in the ground for ¼ Sec Cor marked ¼ on N face from which A pine 4 in dia. brs N 102 lks dist A pine 10 ins dia. brs S 18°.30' E 334 lks dist marked ¼ S.B.T and raised a mound of earth 1½ ft high 3½ ft base alongside
70.00	Leave timber bears N. W & S. E
80.00	Set a sandstone 24+13+6 ins 20 ins in the ground for Cor to Secs 4.5.32.33 marked with 4 notches on E. and 2 notches on W. edges dug pits 18+18+12 ins in each Sec 5½ ft dist and raised a mound of earth 2 ft high 4½ ft base alongside

Land Broken
Soil 3rd rate
Timber. Pine heavy growth
70 Chains

Range 55 W

Chains	
	N 89°.57' W on a true line bet Secs 5 and 32 va 15° 30' E
2.00	Wagon road bears N. E and S. W
20.00	Canyon bears N. E.
40.00	Set a Sandstone 14+10+6 ins 12 ins in the ground for ¼ Sec. Cor marked ¼ on N. face dug pits 18+18+12 ins E and W of stone 5½ ft dist raised a mound of earth 1½ ft high 3½ ft base alongside
80.00	Set a Sandstone 28+16+4 ins 20 ins in the ground for Cor to Secs 5.6.31 and 32 marked with 5 notches on E and 1 notch on W edges dug pits 18+18+12 ins in each Sec 5½ ft dist raised a mound of earth 2 ft high 4½ ft base alongside

Land Rolling Prairie
Soil 2nd rate

Exts. N B. Tp 31. N

North 89.57 West on a true line bet secs 6, and 7
Va 15° 30', E

34.00 Round Butte 30 ft high 1 ch wide

40.00 Set a Sandstone 24+14+3½ ins 20 in in the ground for ¼ Sec. Cor mark ¼ on N. face dug pits 18+18+12 ins E. & W. of Stone 5½ ft dist and raised a mound of earth 1½ ft high 3½ ft base Alongside.

80.00 The corner to Tps 31. and 32. North of Ranges 55 and 56 W

Land Rolling Prairie
Soil 2nd rate. No Timber

Range 55 W

General Description
This township is mostly broken mountainous country and composed of 2nd and 3rd rate soil in the breaks and mountains are large groves of Pine Timber White River heads in Sec 27 and is a beautiful mountain stream there is a settler in Section 27.

June 12. 1883.

N. B.

Chains.

Exts N B. Tps 31 N

Before proceeding further with the exterior surveys of this Tp I made a change of 5 minutes on the latitude arc of my Sol Compass by adding same to the reading previously given and at noon verified and corrected same by observation on the Sun I also further tested instrument by reversing.

Lat. 42°. 41. N.

From the corner to Townships 31 & 32 N. Ranges 55 and 56 W I run west on a random line between said Townships the variation of my compass being

15°. 30' E

I set temporary half mile and mile corners at each 40 and 80 chs and find the Tp line to be 5 miles 71 chs & 80 lks long and the falling to be 300 lks N. of the Cor to Tps

Range 55 6 W

31 and 32 N R. 56 & 57 W on the 7th Guide Meridian W the correction for the true line will therefore be 50 lks S per Mile and its course will be

N 84°. 39' East

From the corner to Tps 31 and 32 N. Rs 56 and 57 W which is a mound of earth 2 ft high 4 ft base and pits 18+18+12 ins in each in each Sec 5 ft deep

In S. E pit a stake 2 ft long 2 ins square marked

T 32 N S. 31 on N. E
R 56 W S. 6 on S E
T 31 N S 1 on S W and
R 57 W S. 36 on N W faces

with 6 notches on E. W & S edges

I run N 84° 39' East on a true line bet Secs 6 & 31

Var 15°. 30' E

31.80 Set a Sandstone 18+14+4 ins 14 ins in the ground for 1/4 Sec Cor marked

Ext. N B Tp 31 N

Chains	
	1/4 on N face dug pits 18+18+12 ins E & W of stone 5 1/2 ft. dist raised a mound of earth 1 1/2 ft high 3 1/2 ft base alongside
71.80	Set a Sandstone 30+16+7 ins 20. ins in the ground for Cor to Secs 5.6.31 and 32 marked with 1. notch on the E and 5. notches on W edges dug pits 18+18+12 ins in each Sec 5 1/2 ft dist from stone and raised a mound of earth 2 ft high 4 1/2 ft base alongside

Land gently rolling Prairie
Soil Good 2nd rate
~~Timber None~~

Range. 5 W

Chains	
	N 89° 39' East on a true line bet Secs 5 & 32
	Va 15° 30' E
40.00	Set a Sandstone 28+16+10 ins 14 ins in the ground for 1/4 Sec. Cor. marked 1/4 on N face dug pits 18+18+12 ins E & W of stone 5 1/2 ft dist and raised mound of earth 1 1/2 ft high 3 1/2 ft base alongside
80.00	Set a Sandstone 17+15+8 ins 10 ins in the ground for Cor to Secs 4.5.32 & 33 marked with 2 notches on W and 4 notches on E edges dug pits 18+18+12 ins in each Sec 5 1/2 ft dist. and raised a mound of earth 2 ft high 4 1/2 ft base Alongside

Land. Rolling Prairie
Soil Good 2nd rate

N. B.

Chains

Ex Ns. N. B Tp 21 N

Chains	
	N 89° 35' East on a true line bet. Secs. 4 & 33 Va 15° 30' E
40.00	Set a Sandstone 14+10+8 ins 10 ins in the ground for ¼ Sec. Cor Marked ¼ on N face dug pits 18+18+12 ins E & W of Stone 5½ ft dist and raised a mound of earth 1½ ft high 3½ ft base alongside
80.00	Set a Sandstone 22+12+4 ins 12 ins in the ground for Cor to Secs 3. 4. 33 & 34. marked with 3 notches on E. and W edges dug pits 18+18+12 ins in each Sec 5½ ft dist from stone raised a mound of earth 2 ft high 4½ ft base alongside
	Land Level Prairie Soil 1st rate

Range 56 W

Chains	
	N 89° 35' East on a true bet Secs. 3 & 34 Va 15° 30' E
40.00	Set a Sandstone 12+10+6 ins 8 ins in the ground for ¼ sec Cor marked ¼ on N face dug pits 18+13+12 ins E & W of stone 5½ ft dist and raised a mound of earth 1½ ft high 3½ ft base alongside
80.00	Set a Sandstone 15+13+5 ins 12 ins in the ground for ¼ Cor to Sec. 2. 3. 34 & 35 marked with 4 notches on W and 2 notches on E edges dug pits 18+18+12 ins in each Sec 5½ ft dist and raised a mound of earth 2 ft high 4½ ft base alongside
	Land Gently rolling Prairie Soil 2nd rate

Dist. N 15 Tp 31 N

Chains	
	N 89° 39' E on a true line bet Secs 2 & 35 Va 15° 30' E
40.00	Set a Sandstone 18+18+5 ins 10 ins in the ground for 1/4 Sec. Cor marked 1/4 on N. face dug pits 18+18+12 ins E & W of stone 5 1/2 ft dist and raised a mound of earth 1 1/2 ft high 3 1/2 ft base alongside.
80.00	Set a Sandstone 20+14+6 ins 15 in in the ground for Cor to Secs 1.2.35 and 36. Marked with 5 notches on N and 1 notch on E edges dug pits 18+18+12 ins. in each Sec 5 1/2 ft. dist and raised a mound of earth 2 ft high 4 1/2 ft base Alongside

Land gently rolling prairie
Soil 1st rate

Range 56 W

Chains	
	N 89° 39' E on a true line bet Secs 1 & 36 Va 15° 30' E
40.00	Set a Sandstone 12+8+4 ins 10 in in the ground for 1/4 Sec Cor marked 1/4 on N face dug pits 18+18+12 ins E & W of stone 5 1/2 ft dist and raised a mound of earth 1 1/2 ft high 3 1/2 ft base Alongside
80.00	The Cor to Tps 31 and 32 N Rgs 55 & 56 W

Land Level Prairie
Soil 1st rate

Ex^ts W. B. Tp 32 N

Chains	I began at the corner to Tps 31 and 32 N Rs 55 and 56 W Thence I run North between Sections 31 and 36 Var 15° 30' E
27.50	Drain 80 ft deep bears N. W.
40.00	Set a Sandstone 18+10+6 ins 10 ins in the ground for 1/4 Sec Cor marked 1/4 on W. face with pits 18+18+12 ins N. & S of stone 5 1/2 ft dist and raised a mound of earth 1 1/2 ft high 3 1/2 ft base alongside
67.00	Canyon descends N. W
80.00	Set a Sandstone 18+12+4 ins 12 ins in the ground for Cor to Secs 25. 30. 31 and 36 marked with 1 notch on S. and 5 notches on N edges dug pits 18+18+12 ins in each Sec 5 1/2 ft dist and raised a mound of earth 2 ft high 4 1/2 ft base alongside

Land broken
Soil 3rd rate

R 55 W

Chas	North bet secs 25 and 30 Va 15° 30' E
	over rolling and mountainous Land
22.00	Drain 30 ft deep decends N W
24.00	enter Pine timber bo E and W
40.00	Set a Sand stone 14x10x4 ins 7 ins in the ground for 1/4 sec cor marked 1/4 on W face and raised a mound of rocks around stone From which a Pine 10 ins diam brs S 45° E 68 lks dist marked 1/4 S B T [illegible] a Pine 21 ins diam brs N 46° W 106 lks dist marked 1/4 S B T and decend N slope to
75.00	rocky canyon 80 ft deep decends N E
[illegible]	and ascend S Slope of rocky canyon to
80.00	Set a Sand stone 20x10x6 ins 14 ins in the ground for cor to secs 19. 24. 25 and 30 marked with 2 notches on S and 4 notches on N edges and raised a mound of rock 2 ft high 5 ft base around stone. From which
	A Pine 8 ins diam brs N 49° E 27 lks dist marked T 32 N S 19 B T
	A pine 22 ins diam brs S 70° E 41 lks dist marked R 55 W S 30 B T
	A Pine 20 ins diam brs S 62° W 33 lks dist marked R 56 W, S 25 B.T.
	A Pine 8 ins diam brs N 18° W 38 lks dist marked S 24 B T

317.

A. P.

Chains.

Ext W. B. Tp 32 N

Land high rolling and mountainous Soil 4th rate
Timber pine 56 chos
whole line runs over mountainous Land

North bet secs 19 and 24
Va 15°30' E
decending along E Slope of Spur
40.00 Set a sand stone 14x10x6 ins 7 ins in the gro
for ¼ sec. cor. marked ½ on W. face and raised
a mound of rock 1½ ft high 3½ ft base along side
From which a pine 10 ins diam brs S 78°
14 lks dist marked ¼ S B T no other tree in
40.00 Brushy drain 30 ft deep bs N W
46.00 Spring branch runs N W 2 lks wide and mounta
48.00 Saw belley creek 10 lks wide runs N E
56.00 Same creek 15 lks wide runs N E and as cen
60.00 bot of and ascend along E Slope
68.00 Drain 50 ft deep decends N E a[illegible]
and leave brush and timber on mountain side
and ascend along E Slope of mountain
80.00 Set sand stone 18x10x4 ins 12 ins in the
ground for cor to secs 13.18.19 and 24 marked
with 3 notches on N and S edges dug [illegible]
18x18x12 ins in each sec 5½ ft dist and
raised a mound of earth 2 ft high
4½ ft base along side

Range 55 W

Chains

Land broken.
Low Brushy valley
Mountains 66 Chains
Timber, Willow, Cottonwood Brush
68 chs. Soil 1st and 2nd rate

Ent. W B Tp 32 N

Chains	North between Sections 13 & 18 Va 15° 30' E
20.00	Head of Canyon descends. E
22.00	Descend along N.E. slope of Mt. Spur
40.00	Set a Sandstone 20+15+4 ins 15 ins in the groung for 1/4 Sec Cor marked 1/4 on W face dug pits 18+18+12 ins N & S. of Stone 5½ ft dist raised a mound of earth 1½ ft high 3½ ft base alongside
45.00	Foot of N.E. Slope Mt. Spur
80.00	Set a Sandstone 18+10+6 ins 14 ins in the ground for Cor to Secs 7.12.13 and 18 marked with 4 notches on S. and 2 Notches on N edges dug pits 18+18+12 ins. in each Sec 5½ ft dist raised a mound of earth 2 ft high 4½ ft base alongside

Land Broken and Mountainous
Soil 3rd rate
Mountains 45 chs

Range 55 W

Chains	North between Sections 7 and 12 Va 15° 30' E
21.00	Dry drain descends N.E. Enter brush pine timber on Mountain brs E. & W
27.50	Creek 10 lks wide runs N.W. 3/4 asc end S.W. slope of Spur of Mt. from S.E
40.00	Set a sandstone 14+10+6 ins 10 ins in the ground for 1/4 Sec. Cor marked 1/4 on W face from which A fine tree 8 in dia brs N. 12 W. 70 lks dist marked 1/4 S B T and dug pits 18+18+12 ins N & S. of stone 5½ ft dist and raised a mound of earth 1½ ft high 3½ ft base alongside
	Top of spur & descend N.W. slope
54.00	Foot of N.W. Slope Mt. Spur
70.00	Leave brush & timber enter rolling prairie
80.00	Set a Sandstone 18+12+4 ins 12 ins in the ground for cor. to Secs 1.6. 7.12 marked with 5 notches on S and 1 notch on N edges dug pits 18+18+12 ins in each Sec 5½ ft dist and raised a mound of earth 2 ft high 4½ ft base alongside

Land broken
Mountains 26.50 chs
Timber Pine brush 59 chs
Soil 3rd rate

Exts W. B Tp 32 N

Chains	North between Sections 1. and 6. Va 15° 30' E
6.00	Spring branch 3 lks wide runs N. E
40.00	Set a sandstone 14+10×8 ins 10 ins in the ground for 1/4 Sec. Cor marked 1/4 on W. face dug pits 18+18+12 ins N & S of stone 5½ ft dist and raised a mound of earth 1½ ft high 3½ ft base alongside
81.30	Intersected the 8th standard parallel N at a point 18.10 chs. E of the standard corner to secs 31. and 32 T. 33. N. R 55 W. at which point I set a sandstone 16+12+3 ins in the ground marked C. C. T. 32 on S R 55 W S 6 on E and R 56 W S on W faces and 6 Notches on E. W. & S. edges dug pits 24+18+12 ins E. W. & S. of stone 6 ft dist and raised a mound of earth 2 ft high 4½ ft base alongside Land rolling, Soil 3. Rate

Range 55 W

Chains	General Description
	This Township is broken and mountainous mostly composed of 2nd and 3rd rate soil there are many fine streams of mountain water and large groves of pine timber in the mountains There is a rich fertile valley in the North part of the Township many large groves of pine timber are large enough for sawing purposes June 13th 1883

I carefully examined the adjustment of my Solar Compass to day perticularly the latitude and reversing apparatus and found them correct

Exs N B Tp 31

Chains	From the corner to Tps 31 a 32. N. Ranges 56 and 57 W on the 7th Guide Meridian W. I r West on a true line bet Secs 1 & 3 Va 15° 30' E
	Over Gently Rolling Prairie
40.00	Set a Sandstone 14x10x6 ins 12 ins in the ground for 1/4 Sec Cor mark 1/4 on N. face dug pits 18x18x12 ins E & W of stone 5 1/2 ft dist and raised a mound of earth 1 1/2 ft high 3 1/2 ft base alongside
80.00	Set a sandstone 18x12x4 ins 12 ins in the ground for cor to secs 1.2.35 & 36 marked with 1 notch on E and 5 notches on W edge dug pits 18x18x12 ins in each Sec 5 1/2 ft dist and raised a mound of earth 2 ft high 4 1/2 ft base alongside
	Land Gently rolling Prairie
	Soil 2nd rate

N Range 57 W

	West on a true line bet Secs 2 and 35 Va 15° 30' E
	Over Gently Rolling Prairie
40.00	Set a Sandstone 12x12x6 ins 10 ins in the ground for 1/4 Sec Cor marked 1/4 on N. face with pits 18x18x12 ins E & W of stone 5 1/2 ft dist and raised a mound of earth 1 1/2 ft high 3 1/2 ft base alongside
62.00	Drain 2 chs wide descends S
80.00	Set a Sandstone 20x8x4 ins 15 ins the ground for Cor to Secs 2.3.34 and 35 marked with 2 Notches on E. and 4 notches on W edges and dug pits 18x18x12 ins in each Sec 5 1/2 ft dist and raised a mound of earth 2 ft high 4 1/2 ft base Alongside
	Land Rolling Prairie
	Soil 2nd rate

N. B.

Chains.

Exs N B. Tp 31

Chains	
	West on a true line bt Secs 3, 4 and 34 Va 15° 30' E.
	Over gently rolling prairie
29.00	Drain 2 chs wide Descends S.
40.00	Set a Sandstone 14x12x6 ins 10 ins in the ground for 1/4 Sec Cor marked 1/4 on N. face dug pits 18x18x12 ins E. & W. of Stone 5 1/2 ft dist and raised mound of earth 1 1/2 ft high 3 1/2 ft base alongside
68.00	Drain 1 chain wide descends S. & ascends
80.00	Set Sandstone 18x14x10 ins 12 ins in the ground for Cor to Secs 3, 4, 33 & 34 marked with 3 notches on E and W edges dug pits 18x18x12 in each Sec 5 1/2 ft dist and raised a mound of earth 1.2 ft high 4 1/2 ft base alongside Cor falls on top of hill
	Land Rolling Prairie Soil 2nd rate

N Range 57 W

	West on a true line between Secs 4 & 33 Va 15° 30' E
40.00	Set a Sandstone 12x10x4 ins 10 ins in the ground for 1/4 Sec Cor marked 1/4 on N. face dug pits 18x18x12 ins E. & W. of Stone 5 1/2 ft dist and raised a mound of earth 1 1/2 ft high 3 1/2 ft base alongside
41.00	Descend W. slope of gravel Hill
50.00	Foot of W. slope Enter Valley N. & S.
80.00	Set a Sandstone 16x10x3 ins 12 ins in the ground for Cor to Secs 4, 5, 32 and 33 marked with 2 notches on E and 4 notches on the W edges dug pits 18x18x12 ins in each Sec 5 1/2 ft dist and raised a mound of earth 2 ft high 4 1/2 ft base alongside
	Land Rolling & Broken Soil 2nd and 3rd rate

Ext. N B Tp 31.

Chains	
	West on a true line bet Secs 5 and 32 Va 15° 30' E
20.00	Leave valley N. & S. and ascend E. Slope
40.00	Set a Sandstone 16+10+3 ins 12 ins in the ground for 1/4 Sec Cor marked 1/4 on N face dug pits 18+18+12 ins E. & W. of Stone 5 1/2 ft dist and raised a mound of earth 1 1/2 ft high 3 1/2 ft base alongside
53.00	Top of E. slope divide brs N. & S.
65.75	An old Wyoming Closing Corner stands 6.47 Chs N of this point which Cor is a cedar post 3+4 ins 2 ft long marked C.C Rp. 60. on W T. 32 on N and T. 30 on S faces Post stands in mound of Stone
80.00	Set a Sandstone 14+12+6 ins 10 ins in the ground for Cor to Secs 5. 6. 31 and 32 marked with 5 notches on E and 1 notch on W edges and dug pits 18+18+12 ins in each Sec 5 1/2 ft dist and raised a mound of earth 2 ft high 4 1/2 ft base alongside
	Land Rolling Soil 2nd Rate

N. Range 57 W

Chains	
	West on a true line between Secs 6 and 31 Va 15° 30' E
	Over Rolling Prairie
12.00	Wood road bears N.W. and S.E.
18.56	Intersect Boundary line between Wyoming and Nebraska 27 chs and 48 lks N of the 117th mile Cor which is a sandstone in mound of Earth 2 ft high at which point I Set a Sandstone 36+14+4 ins 20 ins in the ground for closing Cor to Secs 6 and 31 marked. C C R 57 W on E T. 32 N on N. and T. 31. N on S faces With 6 notches on E. N. and S edges and dug pits 24+18+12 ins lengthwise on each line S. E. and N of Stone 6 ft dist and raised a mound of earth 2 ft high 4 1/2 ft base alongside
	Land Rolling Prairie Soil 2nd Rate

317.

A. P.

Chains.

353.

Exts W. B T. 33. N.

General Description

This township is mostly composed of high rolling prairie and a large stream of water runs through its center Its valleys are rich & fertile There are several ranches and claims along this stream. There is some timber on the north part of the township mostly pine

June 15th 1883

Before proceeding with the exterior surveys of this township I made a change of 5. minutes on the latitude Arc of my Solar Compass by adding same to the reading previously given and at noon verified and and corrected same by observation on the Sun. I also further tested instrument by reversing

Lat. 42°. 47'. N.

I began at the Standard Cor to Tys 33. N Rs 54. & 55. W. which is a post 3 ft long 3 ins square standing in E. Pit

General Land Office • Original Field Notes

Book Number

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The images in this file are photographs of the notes of the original surveys of the State of Nebraska on file in the Office of the Nebraska State Surveyor located in Lincoln, Nebraska.

The original surveys in Nebraska began in the mid 1850's and were completed in the mid 1880's. The Nebraska office of the Surveyor General was closed June 30, 1886.