General Land Office • Original Field Notes

Book Number

11

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.

4
S P N
E.

a

Contract No. 125

Field Notes

of the Survey of the Fourth Standard Paral=
=lel north of the Base Line, between the Sixth
Principal Meridian, and the Guide Meridian
East therefrom, in the Territory of Nebraska, as
Surveyed by

Chas A Manners
Deputy Surveyor

Under his contract dated July 7th 1856

Commenced August 9th 1856
Completed September 13th 1856

b

Names and duties of Assistants

William Barry	Fore Chainmen
George G Pierce	Fore Chainmen
William W R Clarke	Rear Chainmen
Charles Linderman	Rear Chainmen
Samuel Stover	Fore Flagman
William P Ford	Rear Flagman
Thomas A Bones	Axeman

c

Wyandott Oct. 16. 1856

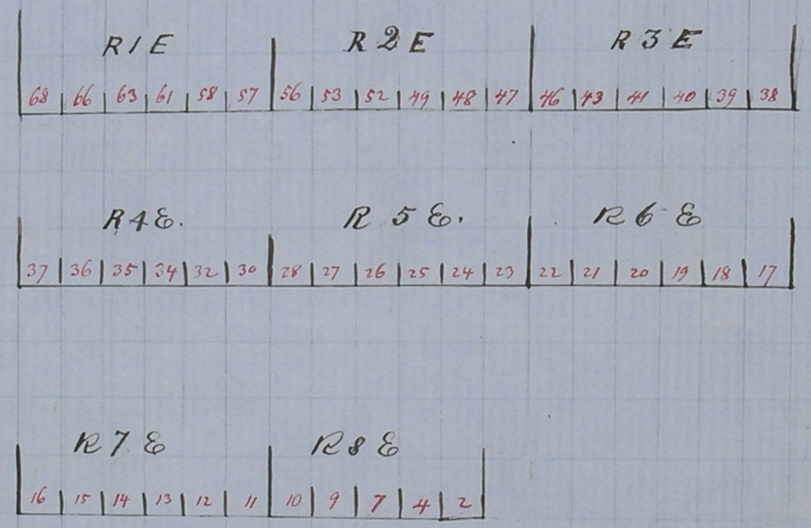
Hon. J. Calhoun
Sur. Genl. of Kansas & Nebraska

Sir

I herewith respectfully submit the Field Notes and Field Diagram of the Survey of the Fourth Standard Parallel in the Territory of Nebraska between the 6th principal Meridian and guide Meridian East therefrom, as Surveyed by

Chas. A. Manners
Dep. Sur.

d



Fourth Standard Parallel North

Begin at the point of the true corner to Townships 16 and 17 North on the Sixth Principal Meridian, the same being the intersection of the 4th Standard Parallel North of the Base Line) and from it run S 89°54' E on a random line, setting temporary posts at every half mile and mile respectively, and at 46 miles 75 chains and 15 links fell 350 links North of the Post in a Mound on the Guide Meridian, set for the inter-section of the 4th Standard Parallel at the corner to Town-ships 16 and 17 north, Ranges 8 and 9 East. The correction therefore will be 7½ links South per mile nearly, and the true course necessary to retrace the Parallel from the Guide to the 6th Principal Meridian so as to connect the correspond-ing Township Corners, – N 89°51' W. In Range 8 East each random post will require to be moved 485 links west. The random line run East on the 9th 10th 11th 12th and 13th days of August 1856 – The measuring chains having been each day compared with the Stand-ard measure, and kept of equal length with the same.

Fourth Standard Parallel North
R 8 E.

Begin. at the post in a mound on the Guide Meridian at the corner to Townships 16 and 17 North of the Base Line, between ranges 8 and 9 East of the 6th principal Meridian and from it run

Along the South boundary of Section 36 T 17 N R 8 E
N 89° 51' W on a true line

Variation 11°26' East

Note – the above variation differs 0°25' from that found in running the Guide Meridian in October 1855, but the line traced by the instrument is the same in each case.

29 40 Leave prairie and enter a grove of timber skirting the river bank bearing N 46° W and S 46° E

30 40 Intersected the Left bank of Platte River bearing SE and NW, and set a post for a Meander Corner from which a

A Cotton Wood 12 in. dia bears N 61½° E 8 links dist
A Cotton Wood 12 in. dia. bears S 31° E 55 links dist

40 00 Corner in the river – I therefore mark the meander corner on the left bank of the river for a witness-quarter

Fourth Standard Parallel North
R 8 E.

Section corner – The same being the nearest suitable witness point.

80 00 The corner in the river

Land level and liable to inundation

Soil Sandy – 2d rate

Timber, Cotton Wood of good quality

Compared the meas= =uring chains with the Standard and found them cor= =rect

August 14th. 1856

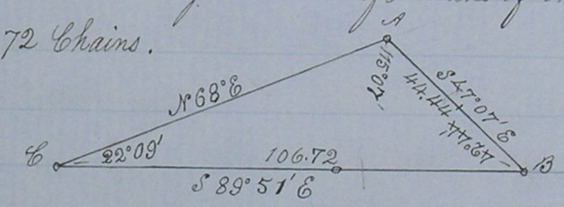
Fourth Standard Parallel North
R 6 E.

In order to obtain the distance across Platte River I run from the Meander Corner set at 30.40 chains on the South boundary of Section 36, N 47°07' W 4444 Chains to a flag. Then set a post in line on the right bank of the river for a Meander Corner from which

A Burr Oak 12 in. diam. bears S 72½° E 79 links dist

A Burr Oak 10 in. diam. bears N 58° W 252 links dist

From this corner the flag on the left bank bears N 68° E – making the distance between the Meander cor= =ners on the Right and Left banks of the river = 106.72 Chains.



As sine of Angle C 22°09' – 9.576379

Is to sine of Angle A 115°07' – 9.956862

So is the Base AB 44.44 Chains = 1.647774

11.604636

9.576379

To BC or distance across 106.72 = 2.028257

The Right bank of the river bears N 65° W and S 65° E.

Fourth Standard Parallel North
R 8 E.

The distance between the meander corners being 106.72 chains, and the meander corner on the left bank being 30.40 chains west of the South East corner of Section 36;— therefore 80.00 — 30.40 = 49.60 chains from the said meander corner to the corner of Sections 35 and 36 T 17 N. R 8 E. Hence 106.72 — 49.60 = 57.12 chains from the corner to sections 35 and 36; West to the Meander corner on the right bank of Platte River. Consequently I run Along the South boundary of Section 35 T 17 N R 8 E N 89°51' W. on a true line

Variation not ascertained for the reason that the corner to sections 35 and 36 is inaccessable

40 00 Top quarter section corner in the river – inaccessible

57 12 Set a post for a meander corner on the right bank of Platte River (bearing trees as before described) from which I run N 89°51' W on true line = 22.88 chains making in all 57.12 + 22.88 = 80.00 chains and at

76 00 Ravine 10 feet deep and 80 links wide, course N 70° E.

Fourth Standard Parallel North
R 8 E

80 00 Set a post for a corner to Sections 34 and 35 T 17 N R 8 E from which

A Burr Oak 16 in dia bears N 36½° E 232 links dist

A Burr Oak 6 in dia bears N 41½° E 240 links dist

Bearing trees at opposite points could not be obtained, and no others convenient to mark.

Land gently rolling

Soil 1st rate

A few scattering trees skirting the ravine and river banks

57.12
22.88

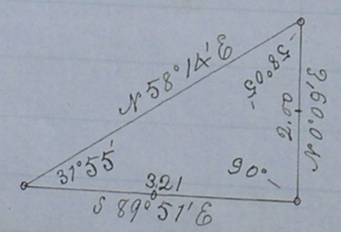
Fourth Standard Parallel North
R 8 E

Along the South boundary of Section 34 T 17 N R 8 E
N 89° 51' W on a true line

Variation 11° 40' East

40 00 Set a post in a Mound and drove a charred stake as per instructions for a quarter section corner

49 04 Intersect the right bank of a ravine bearing N 20° E and S 20° W. In order to obtain the distance across this ravine I measure a base N 0° 09' E 200 links and set a flag. Then set a post in line on the left bank from which the flag on the right bank bears N 58° 14' E making the distance between the stations on the right and left banks = 321 links



Fourth Standard Parallel North
R 8 E

Natural Tangent 58° 05' = 1.605526
200 base
Distance across in links = 321.105200

Hence at 49.04 + 3.21 = 52.25 Chains

52 25 post on the left bank of the ravine – Depth of ravine 40 feet – Left bank bears N 20° E and S 20° W.

68 65 Indian Trail bearing N W and S E

80 00 Set a post in a Mound and drove a charred stake as per instructions for a corner to sections 33 and 34 T 17 N R 8 E

High rolling prairie
Soil 1st rate

Fourth Standard Parallel North
R 8 E.

Along the South boundary of Section 33 T17N R8E
N 89° 51' W. on a true line

Variation 11° 42' East

18 95 A Spring branch 5 links wide, Course North
40 00 Set a post in a Mound and drove a charred stake as per instructions for a quarter section corner
42 07 Drain, Course NW
46.65 Drain, Course North
74 80 Drain, Course North
80 00 Set a post in a Mound and drove a charred stake as per instructions for a corner to sections 32 and 33 T17N. R8E.

High rolling prairie
Soil 1st rate

Fourth Standard Parallel North
R 8 E.

Along the South boundary of Section 32 T17N R8E
N 89° 51' W. on a true line

Variation 12° 00' East

3 95 Drain, Course NE.
33 15 Main Pawnee Indian Trail leading from the Loup Village up the south side of Platte river, bearing N 65° W and S 65° E
40 00 Set a post in a Mound and drove a charred stake as per instructions for a quarter section corner
50 00 Summit of the ridge dividing the waters of Platte and Saline rivers bearing NW and SE
75 15 Set a post in a Mound and drove a charred stake as per instructions for a corner to Township 17 North Ranges 7 and 8 East

High rolling prairie
Soil 1st rate

Fourth Standard Parallel North
R 7 E.

Along the South boundary of Section 36 T 17 N R 7 E
N 89° 51' W. on a true line

Variation 11° 55 East

40 00 Set a post in a Mound and drove a charred stake as per instructions for a quarter section corner

69 60 Drain, Course S 30° E

80 00 Set a post in a Mound and drove a charred stake as per instructions for a corner to Sections 35 and 36 T 17 N. R 7 E

Rolling prairie
Soil 1st rate

Fourth Standard Parallel North
R 7 E

Along the South boundary of Section 35 T 17 N R 7 E
N 89° 51' W. on a true line

Variation 11° 33' East

4 00 Point of a ridge sloping S W.

40 00 Set a post in a Mound and drove a charred stake as per instructions for a quarter section corner.

80 00 Set a post in a Mound and drove a charred stake as per instructions for a corner to sections 34 and 35 T 17 N R 7 E

Gently rolling prairie
Soil 1st rate

Fourth Standard Parallel North
R 7 E.

Along the South boundary of Section 34 T 17 N R 7 E
N 89° 51' W. on a true line

Variation 11° 30' East

40 00 Set a post in a Mound and drove a charred stake as per instructions for a quarter section cor=ner

57 00 Summit of a Mound

80 00 Set a post in a Mound and drove a charred stake as per instructions for a corner to sections 33 and 34 T 17 N R 7 E

Gently rolling prairie
Soil 1st rate

Fourth Standard Parallel North
R 7 E

Along the South boundary of Section 33 T 17 N R 7 E
N 89° 51' W, on a true line

Variation 11° 35' East

40 00 Set a post in a Mound and drove a charred stake as per instructions for a quarter Section corner

77 50 Summit of a gentle mound-like elevation

80 00 Set a post in a Mound and drove a charred stake as per instructions for a corner to sections 32 and 33 T 17 N R 7 E

Gently rolling prairie
Soil 1st rate

Compared the measuring chains with the standard and found them correct

September 8th 1856

Fourth Standard Parallel North
R 7 E

Along the South boundary of Section 32 T17N R7E
N 89°51' W. on a true line

Variation 11°42' East

40 00 Set a post in a mound and drove a charred stake as per instructions for a quarter section corner

80 00 Set a post in a mound and drove a charred stake as per instructions for a corner to sections 31 and 32 T17N R7E

Gently rolling prairie
Soil 1st rate

Fourth Standard Parallel North
R 7 E.

Along the South boundary of Section 31 T17N R7E
N 89°51' W. on a true line

Variation 12°00' East

38 00 Summit of a gentle Mound-like Elevation

40 00 Set a post in a mound and drove a charred stake as per instructions for a quarter section corner

80 00 Set a post in a Mound and drove a charred stake as per instructions for a corner to Township 17 North, Ranges 6 and 7 East

Gently rolling prairie
Soil 1st rate

Fourth Standard Parallel North
R 6 E.

Along the South boundary of Section 36 T17 N R 6 E
N 89°51' W. on a true line

Variation 12°00' East

40 00 Set a post in a Mound and drove a charred stake as per instructions for a quarter section corner

80 00 Set a post in a Mound and drove a charred stake as per instructions for a corner to sections 35 and 36 T17 N. R 6 E

Gently undulating prairie
Soil 1st rate

Fourth Standard Parallel North
R 6 E.

Along the South boundary of Section 35 T17 N R 6 E
N 89°51' W. on a true line

Variation 12°00' East

40 00 Set a post in a Mound and drove a charred stake as per instructions for a quarter section corner

54 00 Summit of a gentle mound-like elevation

80 00 Set a post in a Mound and drove a charred stake as per instructions for a corner to sections 34 and 35 T17 N R 6 E

Gently undulating prairie
Soil 1st rate

Fourth Standard Parallel North
R 6 E.

Along the South boundary of Section 34 T 17 N R 6 E
N 89° 51' W. on a true line

Variation 11° 36' East

40 00 Set a post in a Mound and drove a charred stake as per instructions for a quarter section corner

80 00 Set a post in a Mound and drove a charred stake as per instructions for a corner to sections 33 and 34 T 17 N. R 6 E

Gently undulating prairie
Soil 1st rate

Fourth Standard Parallel North
R 6 E.

Along the South boundary of Section 33 T 17 N R 6 E
N 89° 51' W. on a true line

Variation 11° 18' East

8 90 Drain, Course South

40 00 Set a post in a Mound and drove a charred stake as per instructions for a quarter section corner

80 00 Set a post in a Mound and drove a charred stake as per instructions for a corner to sections 32 and 33 T 17 N R 6 E

Gently rolling prairie
Soil 1st rate

Fourth Standard Parallel North
R 6 E

Along the south boundary of Section 32 T 17 N R 6 E
N 89° 51' W. on a true line

Variation 11° 09' East

4 00 Summit of a gentle elevation bearing N 25° W and S 25° E

40 00 Set a post in a mound and drove a charred stake as per instructions for a quarter section corner

62 80 Drain, Course S 20° E

77 00 Indian Trail bearing S 70° E and N 70° W

80 00 Set a post in a mound and drove a charred stake as per instructions for a corner to sections 31 and 32 T 17 N R 6 E

Gently rolling prairie
Soil 1st rate

Fourth Standard Parallel North
R 6 E

Along the South boundary of Section 31 T 17 N R 6 E
N 89° 51' W. on a true line

Variation 11° 30' East

30 00 Drain, Course S E

40 00 Set a post in a Mound and drove a charred stake as per instructions for a quarter section corner

80 00 Set a post in a Mound and drove a charred stake as per instructions for a corner to (sections 31 and 36) Township 17 North, Ranges 5 and 6 East

Gently rolling prairie
Soil 1st rate

Fourth Standard Parallel North
R 5 E.

Along the South boundary of Section 36 T17N R5E
N 89° 51' W. on a true line

Variation 11° 45' East

34 00 Summit bearing N. and S.

40 00 Set a post in a mound and drove a charred stake as per instructions for a quarter section corner

41 30 Drain, Course S 20° W

47 90 Drain, Course S 20° E

66 00 Summit of a gentle elevation bearing N. and S.

80 00 Set a post in a mound and drove a charred stake as per instructions for a corner to sections 35 and 36 T17N R5E

High rolling prairie
Soil 1st rate

Fourth Standard Parallel North
R 5 E.

Along the South boundary of Section 35 T17N R5E
N 89° 51' W. on a true line

Variation 11° 57' East

3 10 Drain, Course S 20° W

11 30 Drain, Course S 30° E

35 50 Drain, Course S E

40 00 Set a post in a mound and drove a charred stake as per instructions for a quarter section corner

62 00 Indian Trail bearing N 85° E and S 85° W

71 00 Summit of a mound

80 00 Set a post in a mound and drove a charred stake as per instructions for a corner to sections 34 and 35 T17N R5E

High rolling prairie
Soil; good 2d rate

Fourth Standard Parallel North
R 5 E.

Along the South boundary of Section 34 T 17 N R 5 E
N 89° 51' W. on a true line

Variation 11° 57' East

40 00 Set a post in a mound and drove a charred stake as per instructions for a quarter section corner

41 00 Summit of a high ridge bearing N. & S.

57 40 Spring branch 5 links wide, Course South

70 60 Drain, Course South

80 00 Set a post in a mound and drove a charred stake as per instructions for a corner to sections 33 and 34 T 17 N R 5 E

High rolling prairie
Soil, good 2d rate

Fourth Standard Parallel North
R 5 E.

Along the South boundary of Section 33 T 17 N R 5 E
N 89° 51' W. on a true line

Variation 11° 51' East

3 50 Summit of a ridge bearing N 30° W and S 30° E

26 70 Drain, Course South

30 00 Point of a ridge sloping South

36 50 Drain, Course S E

40 00 Set a post in a mound and drove a charred stake as per instructions for a quarter section corner

80 00 Set a post in a mound and drove a charred stake as per instructions for corner to sections 32 and 33 T 17 N R 5 E – This corner on the summit of a ridge bearing N 20° W. and S 20° E

Hilly prairie
Soil 2d rate

Compared the meas=
=uring chains with the Standard and found them correct.

September 9th 1856

Fourth Standard Parallel North
R 5 E.

Along the South boundary of Section 32 T 17 N R 5 E
N 89° 51' W. on a true line

Variation 11° 57' East

10 00 Drain, Course SW
14 00 Point of a ridge sloping South
21 50 Spring branch 5 links wide, Course S 20° E
23 00 Indian Trail bearing S 20° E and N 20° W
40 00 Set a post in a mound and drove a charred stake as per instructions (on the point of a ridge sloping North) for a quarter section corner.
77 60 Summit of a ridge bearing N W and S E
80 00 Set a post in a mound and drove a charred stake as per instructions for a corner to sections 31 and 32 T 17 N, R 5 E

Hilly prairie
Soil 2d rate

Fourth Standard Parallel North
R 5 E

Along the South boundary of Section 31 T 17 N R 5 E
N 89° 51' W. on a true line

Variation 12° 00' East

6 60 Drain, Course South
27 00 Summit of a ridge bearing N W. and S E.
35 70 Drain, Course S 20° E
40 00 Set a post in a mound and drove a charred stake as per instructions for a quarter section corner
41 00 Summit of a mound
49 00 Drain, Course S 30° E
57 50 Point of a ridge sloping South
62 10 Drain, Course South
65 70 Drain, Course S E
77 00 Indian Trail bearing N 70° E and S 70° W
77 50 Summit of a ridge bearing N. & S.
78 00 Indian Trail bearing N 20° E, and S 20° W
80 00 Set a post ~~in a mound~~ with trench as per instructions for (on the side of a hill sloping North) for a corner to Town= =ship 17 North, Ranges 4 and 5 East from which

Fourth Standard Parallel North
R 5 E.

A Burr Oak 12 in. dia. bears N 85½° W 221 links dist
No other tree convenient to mark

Prairie; — Surface hilly and broken
Soil 3d. rate

Fourth Standard Parallel North
R 4 E.

Along the South boundary of Section 36 T 17 N R 4 E
N 89° 51' W. on a true line

Variation 12° 03' East

4 30 Ravine 100 links wide, 10 feet deep; course N 20° E
9 50 Summit of a ridge bearing N 15° E and S 15° W
13 50 Deep hollow, Course North
19 50 Bottom of a deep hollow, Course N 30° E
23 50 Top of a ridge bearing N. and S.
31 00 Indian Trail bearing N 50° W and S 50° E
40 00 Set a post in a mound (on the point of a hill sloping North) as per instructions for a quarter section corner.
46 00 Drain, Course SW
52 20 Summit of a ridge bearing N. and S.
57 80 Bottom of a hollow, Course North
67 00 Indian Trail bearing N W. and S E. - From this point the junction of Shell Creek with Platte river bears N 45° W, estimated distance 4½ miles.
73 70 Summit of a ridge 100 feet high bearing N. & S.
79 00 Bottom of a deep hollow, Course North

Fourth Standard Parallel North
R 4 E.

80 00 Set a post in a mound and drove a charr=
=ed stake as per instructions for a corner to
sections 35 and 36 T 17 N R 4 E

Prairie; – Surface hilly and extremely
broken. Soil 3d rate

Fourth Standard Parallel North
R 4 E

Along the South boundary of Section 35 T 17 N, R 4 E,
N 89° 51' W. on a true line

Variation 12° 10' East

11 50 Top of the point of a ridge sloping North
16 30 Bottom of a deep hollow, Course North
25 00 Indian Trail N W and S E
40 00 Set a post in a mound and drove a charred
stake as per instructions for a quarter section
corner
41 00 Summit of a Mound, 50 feet elevation,
46 60 Indian Trail bearing N W. and S E.
From this point a deserted Indian Village
bears North 12.00 Chains distant
57 40 Indian Trail bears N. & S.
60 00 Ravine 110 links wide, 10 feet deep, Course N 20° E.
65 80 Indian Trail bearing N 10° E and S 10° W
67 00 point of a high ridge sloping North
74 50 Indian Trail bearing N E. and S W.
80 00 Set a post in a mound and drove a charred

Fourth Standard Parallel North
R 4 E.

stake as per instructions for a corner to sections
34 and 35 T17N R4E

Hilly and broken prairie
Soil 3d rate

Fourth Standard Parallel North
R 4 E.

Along the South boundary of Section 34 T17N R4E
N 89° 51' W. on a true line

Variation 12° 10' East

14 40 Indian Trail bearing N 50° W and S 50° E
39 30 Spring Branch 20 links wide, Course N 20° E
40 00 Set a post with trench as per instructions for
a quarter section corner from which
An Elm 16 in. dia. bears S 80° W 234 links dist
No other tree convenient to mark
68 70 Indian Trail bearing NE and SW
80 00 Set a post in a mound and drove a charred
stake as per instructions for a corner to sections
33 and 34 T17N R4E

Hilly prairie
Soil 2d rate

Fourth Standard Parallel North
R 4 E.

Along the south boundary of Section 33 T 17 N R 4 E
N 89° 51' W. on a true line

Variation 12° 10' East

1 50 Summit of a ridge bearing N. and S.

30 00 Leave range of hills bordering upon the south side of the valley of Platte River and enter upon level 2d. bottom land bearing N 50° E and S 50° E

40 00 Set a post in a mound and drove a charred stake as per instructions for a quarter section corner.

80 00 Set a post in a mound and drove a charred stake as per instructions for a corner to sections 32 and 33 T 17 N R 4 E

First 30.00 chains rolling upland & the balance level, 2d. bottom

Soil 1st rate

Fourth Standard Parallel North
R 4 E.

Along the south boundary of Section 32 T 17 N R 4 E
N 89° 51' W. on a true line

Variation 12° 10' East

40 00 Set a post in a mound and drove a charred stake as per instructions for a quarter section corner

80 00 Set a post in a mound and drove a charred stake as per instructions for a corner to sections 31 and 32 T 17 N R 4 E

Level prairie; 2d. bottom

Soil 1st rate

Fourth Standard Parallel North
R 4 E.

Along the South boundary of Section 31 T 17 N R 4 E
N 89° 51' W. on a true line

Variation 12° 10' East

40 00 Set a post in a mound and drove a charred stake as per instructions for a quarter section corner

80 00 Set a post in a mound and drove a charred stake as per instructions for a corner to (Sections 31 and 36) Townships 17 North, Ranges 3 and 4 East

Level prairie; 2d bottom
Soil 1st rate

Fourth Standard Parallel North
R 3 E.

Along the South boundary of Section 36 T 17 N R 3 E
N 89° 51' W. on a true line

Variation 12° 10' East

40 00 Set a post in a mound and drove a charred stake as per instructions for a quarter section corner

50 00 Drain, Course N E

63 00 Main Pawnee Indian Trail leading along the south side of Platte River, bearing N 55° E and S 55° W

80 00 Set a post in a mound and drove a charred stake as per instructions for a corner to sections 35 and 36 T 17 N R 3 E

Level prairie; 2d bottom
Soil 1st rate

Fourth Standard Parallel North
R 3 E

Along the South boundary of Section 35 T17N R3E
N 89° 51' W. on a true line

Variation 12° 03' East

40 00 Set a post in a mound and drove a charred stake as per instructions for a quarter section corner

67 25 Indian Trail bearing N E and S W

80 00 Set a post in a Mound and drove a charred stake as per instructions for a corner to sections 34 and 35 T17 N R 3 E

Level prairie; 2d bottom
Soil 1st rate

Fourth Standard Parallel North
R 3 E

Along the South boundary of Section 34 T17N R3E
N 89° 51' W. on a true line

Variation 12° 00' East

30 00 Leave 2d bottom land and enter low bottom subject to inundation bearing S W. and N 80° E.

40 00 Set a post in a mound and drove a charred stake as per instructions for a quarter section corner

43 88 A branch 10 links wide runs North – Its general course N E

80 00 Set a post in a mound and drove a charred stake as per instructions for a corner to Sections 33 and 34 T17N. R 3 E

Land level; 1st 30.00 chains 2d bottom – the balance low, and liable to overflow

Fourth Standard Parallel North
R 3 E

Along the South boundary of Section 33 T17 N R3 E
N 89° 51' W. on a true line

Variation 11°45' East

40 00 Set a post in a mound and drove a charred stake as per instructions for a quarter section corner

55 48 Set a post with charred stake ~~and trench~~ as per instructions for a Meander Corner on the Right bank of Platte River (20 links from the water's Edge) from which
A Cotton Wood 5 in. dia. bears N 12° E 69 links dist
A Cotton Wood 6 in. dia. bears S 75° W 65 links dist

55 68 Water's Edge on the shore of Platte River – the right bank bearing N 45° E and S 50° W

80 00 The Corner in the river. In order to establish a witness to this point I measure due South from the meander Corner set at 55.48 chains to the distance of 18 chains and 30 links from which point I run N 89° 51' W 24.52 to a point on the

Fourth Standard Parallel North
R 3 E.

Right bank of the river 18.30 chains due South of the true Section corner, where I set a post with trench and drove a charred stake as per instructions for a "Witness Corner" to Sections 32 and 33 T17 N R 3 E from which
A Cotton Wood 6 in. dia. bears N 80° W 6 links dist
A Cotton wood 4 in. dia. bears North 11 links dist

No other trees convenient to mark

Land:- level bottom, liable to overflow
Soil 1st rate

Compared the measuring chains with the Standard and found them correct

September 10th 1856

Fourth Standard Parallel North
R 3 E.

Along the South boundary of Section 32 T17N R 3 E
N 89°51' W. on a true line

Variation ——— East

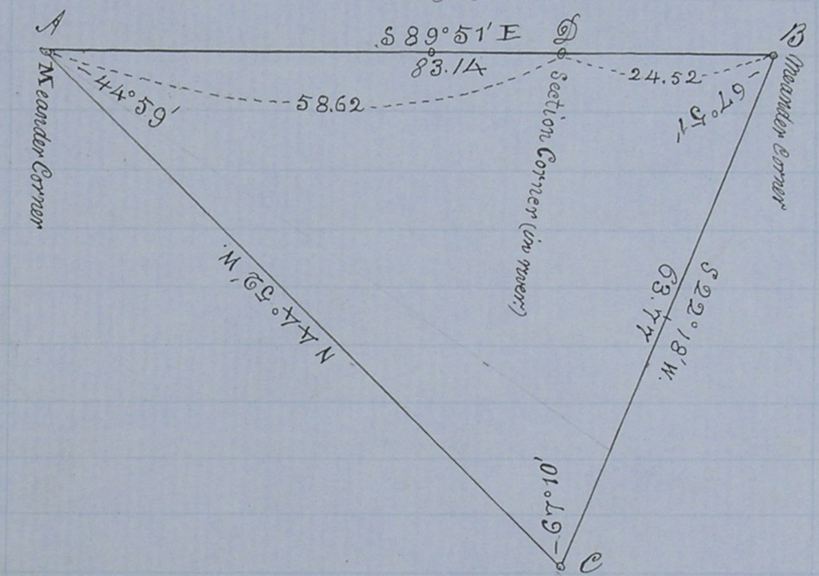
Note – The corner to sections 32 and 33 being in the river the variation of the Needle could not be obtained.

In Order to obtain the distance across Platte River I proceed to the Meander Corner (noted on last mile) on the right bank and then set a post at the intersection of the Standard Parallel with the left bank. From the meander corner on the right bank I measure a base S22°18' W 63.77 Chains to a Station from which the post on the left bank bears N 44°52' W. making the distance between the posts on the right and left banks – 83.14 Chains

83.14
24.52
58.62
21.38

The left bank of Platte River bears N 55° E and S 55° W.

Fourth Standard Parallel North
R 3 E



Sine of Angle A 44°59' = 9.849359
Sine of Angle C 67°10' = 9.964560
Base BC = 63.77 Log. – – 1.804616
11.769176
9.849359
To dist. AB = 83.14 – 1.919817

From which subtract BD = 24.52
AD = 58.62

Therefore as the meander corner on the right bank is

Fourth Standard Parallel North
R 3 E.

24.52 Chains East of the corner to sections 32 and 33, and the distance across being 83.14 Chains, the station post on the left bank is (83.14 – 24.52) = 58.62 Chains west from said section corner.

Hence at

40 00 the quarter section corner in the river

58 62 Set a post with trench and charred stake on the left bank of Platte River for a Meander Corner from which

A Cotton Wood 24 in. dia. bears N 12° W 237 links dist.

No other tree convenient to mark.

80 00 Set a post in a Mound and drove a charred stake as per instructions for a corner to sections 31 and 32 T 17 N. R 3 E

First 60.00 Chains in the river – the balance of this mile level bottom Land subject to inundation

Soil sandy; 2d rate

Fourth Standard Parallel North
R 3 E.

Along the South boundary of Section 31 T 17 N R 3 E

N 89° 51' W. on a true line

Variation 11° 33' East

40 00 Set a post in a mound and drove a charred stake as per instructions for a quarter section corner

47 50 Enter a Bayou of Platte River (now dry) bearing N 70° W and S 70° E

55 00 Leave same Bayou on left bank bearing N 70° E and S 70° W.

80 00 Set a post in a Mound and drove a charred stake as per instructions for a corner to (Sections 31 and 36) Townships 17 North, Ranges 2 and 3 East

Level bottom land subject to inundation

Soil too sandy to be desirable for cultivation

2d rate

Fourth Standard Parallel North
R 2 E.

Along the South boundary of Section 36 T 17 N R 2 E
N 89° 51' W. on a true line

Variation 12° 20' East

40 00 Set a post in a Mound and drove a charred stake as per instructions for a quarter section corner

80 00 Set a post in a Mound and drove a charred stake as per instructions for a corner to sections 35 and 36 T 17 N R 2 E

Land:- Level prairie bottom, subject to in=
=undation

Soil 1st rate

Fourth Standard Parallel North
R 2 E.

Along the South boundary of Section 35 T 17 N R 2 E
N 89° 51' W on a true line

Variation 12° 00' East

40 00 Set a post in a Mound and drove a charred stake as per instructions for a quarter section corner

80 00 Set a post in a Mound and drove a charred stake as per instructions for a corner to Sections 34 and 35 T 17 N R 2 E

Land: level bottom prairie, subject to inundation

Soil 1st rate

Compared the measuring Chains with the stand=
=ard and found them correct

September 11th 1856

Fourth Standard Parallel North
R 2 E

Along the South boundary of Section 34 T 17 N R 2 E
N 89° 51' W. on a true line

Variation 12° 50' East

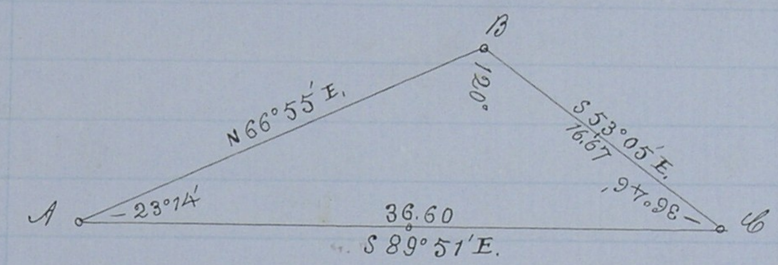
7 20 Intersected the Left bank of Platte River bearing N 70° W. and S 50° E, and Set a post in a mound and drove charred stake as per instructions (35 links from the Water's Edge) for a Meander Corner.

7 55 The water's edge of Platte river – From this place the point of an Island bears S 25° E about half a mile distant

40 00 Corner in the river – inaccessible

In order to obtain the distance across the river I set a post in the true line on the **right** bank – Then from the meander corner on the left bank I measure a base line N 53° 05' W 16.67 Chains in length to a station from which the post on the line on the right bank bears S 66° 55' W – making the distance between the posts on the right and left banks of the river = 36.60 Chains

Fourth Standard Parallel North
R 2 E.



A Sine of Angle A = 23° 14' = 9.596021
Is to Sine of Angle B – 120° = 9.937531
So is the base B C = 16.67 Log. = 1.221936
11.159467
9.596021

To A C, or distance across river 36.60 = 1.563446

Therefore as the distance to the Meander Corner on the Left bank is 7.20 Chains and the distance across the stream 36.60 Chains. 36.60 + 7.20 = 43.80.

43 80 Set a post for a Meander Corner on the right bank of Platte River which bears N 40° W and S 50° E –, and deposited a charred stake as per instructions under said Meander Corner post from

Fourth Standard Parallel North
R 2 E.

which

A Cotton Wood 20 in. dia. bears N 10° E 4 links dist

A Cotton Wood 16 in dia. bears S 56½° E 44 links dist

53 00 A few scattering trees

64 00 Enter timber bearing S 80° W and N 80° E

64 71 A Cotton Wood 10 in. dia.

77 00 Leave timber and enter prairie bearing S 75° E. and N 75° W.

80 00 Set a post ~~in a Mound~~ and drove a charred stake as per instructions for a corner to Sections 33 and 34 T 17 N R 2 E from which

A Cotton Wood 6 in. dia. bears N 23½° E 111 links dist

A Cotton Wood 6 in. dia. bears N 11° W 167 links dist

A Cotton Wood 12 in. dia. bears S 39° W 159 links dist

A Cotton Wood 10 in. dia. bears S 1¼° E 162 links dist

Land level; subject to inundation
Soil 1st rate

Timber; Cotton Wood of good quality

Undergrowth the same, with young Willows

Fourth Standard Parallel North
R 2 E.

Along the South boundary of Section 33 T 17 N R 2 E N 89° 51' W. on a true line

Variation 13° 27' East

4 29 A Cotton Wood 16 in. dia. – A lone tree

40 00 Set a post in a mound and drove a charred stake as per instructions for a quarter section corner

55 77 Set a post in a mound and drove a charred stake as per instructions for a Meander Corner on the right bank of Platte river which bears N 75° E and S 75° W

80 00 Corner in the river – inaccessible

Level bottom land liable to overflow
Soil Sandy; 2d rate

Fourth Standard Parallel North
R 2 E.

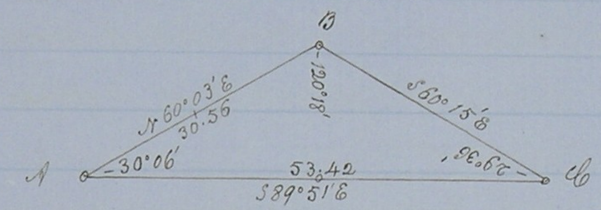
Along the South boundary of Section 32 T 17 N R 2 E
N 89° 51' W. on a true line

Variation —— East

Note – The corner to Sections 32 and 33 being in the river, the variation of the Needle could not be obtained.

In order to obtain the distance across Platte River I produce the Standard Parallel to its intersection of the left bank of the same, at which point I set a post and drove a charred stake as per instructions for a Meander Corner from which
A Cotton Wood 8 in. dia. bears S 72° E 20 links dist
A Cotton Wood 10 in. dia bears N 57° E 63 links dist
The left bank of the river bears N 55° E and S 55° W.
From the meander corner post on the Left bank I measure a base N 60° 03' E 30.56 chains to a station from which the Meander Corner on the right bank bears S 60° 15' E – making the distance between the Meander Corners on the right and Left banks = 53.42 Chains.

Fourth Standard Parallel North
R 2 E



As sine of Angle C = 29° 36' = 9.693676
Is to sine of Angle B = 120° 18' = 9.936210
So is base A B = 30.56 Log: = 1.485153
11.421363
9.693676
To distance A C = 53.42 Chains = 1.727687

Therefore as the meander Corner on the right bank is at 55.77 Chains, or (80.00 – 55.77) = 24.23 Chains East of the corner to sections 32 and 33, the Meander Corner on the left bank is (53.42 – 24.23 =) 29.19 Chains west of said Section corner. Hence at
29.19 Set post for a Meander Corner and deposited a charred stake as per instructions from which
A Cotton Wood 8 in. dia. bears S 72° E 20 links dist
A Cotton Wood 10 in. dia. bears N 57° E 63 links dist

Fourth Standard Parallel North
R 2 E.

40 00 Set a post in a mound and drove a charred stake as per instructions for a ~~corner~~ quarter section corner

80 00 Set a post in a mound and drove a charred stake as per instructions for a corner to sections 31 and 32 T 17 N R 2 E

Land; level bottom prairie; liable to inundation
Soil 1st rate

Fourth Standard Parallel North
R 2 E.

Along the South boundary of Section 31 T 17 N R 2 E
N 89° 51' W. on a true line

Variation 12° 36' East

40 00 Set a post in a mound and drove a charred stake as per instructions for a quarter section corner

80 00 Set a post in a mound and drove a charred stake as per instructions for a corner to (sections 31 and 36) Township 17 North, Ranges 1 and 2 East

Land level, subject to inundation
Soil 1st rate

Fourth Standard Parallel North
R 1 E.

Along the South boundary of Section 36 T17 N R 1 E
N 89° 51' W. on a true line

Variation 12° 30' East

6 10 A pond 40 links wide, -4 feet deep and bears N 30° W and S 20° E

40 00 Set a post in a Mound and drove a charred stake as per instructions for a quarter section corner

80 00 Set a post in a Mound and drove a charred stake as per instructions for a corner to Sections 35 and 36 T17 N R 1 E

Land level; liable to inundation
Soil 1st rate

Fourth Standard Parallel North
R 1 E.

Along the South boundary of Section 35 T17 N R 1 E
N 89° 51' W on a true line

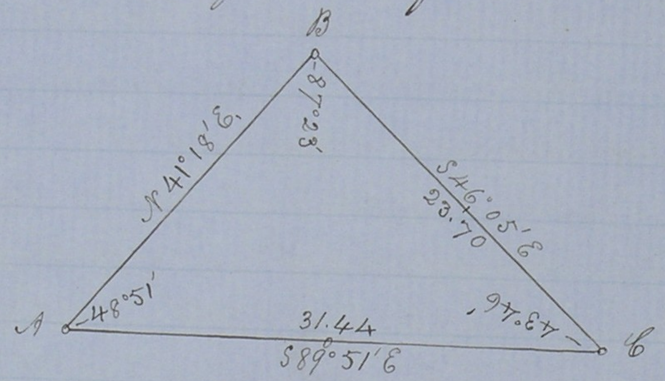
Variation 12° 27' East

40 00 Set a post in a mound and drove a charred stake as per instructions for a quarter section corner.

41 00 Intersected the Left bank of the Loup Fork of Platte river which bears S 45° E and N 45° W. As no permanent corner could be established nearer the river than at the quarter section corner, the same is used as a Meander Corner. From this point the junction of the Loup Fork and Platte rivers bears SE. a half mile distant
In order to obtain the distance across the Loup Fork I set a post at the intersection of the Standard Parallel with the Right bank. Then measured a base on the Left bank from the quarter Section Corner N 46° 05' W 23.70 Chains to a station from which the post on the right bank bears S 41° 18' W - making the distance between the

Fourth Standard Parallel North
R 1 E.

Posts on the right and left banks 31.44 chains



As Sine of the Angle A 48° 51' – 9.87679
Is to Sine of the Angle B 87° 23' – 9.99955
So is the base BC = 23.70 Log: – 1.37475
11.37430
9.87679
To AC = 31.44 = 1.49751

31.44 + 40.00 = 71.44

71 14 Intersected the right bank of Loup Fork bear=
=ing S 40° E and N 50° W – Enter timber bear=
=ing with the river bank.

71 44 Set a post and drove a charred stake as per instructions for a Meander Corner on the right bank

Fourth Standard Parallel North
R 1 E

of Loup Fork from which
A Willow 16 in. dia. bears S 50° E 40 links dist
A Cotton Wood 20 in dia. bears N 73° W 41 links dist

78 04 A Cotton Wood 16 in. dia.

80 00 Set a post with trench and drove charred stake as per instructions for a corner to sections 34 and 35 T 17 N R 1 E from which
A Cotton Wood 25 in. dia. bears N 21° W 42 links dist
A Cotton Wood 18 in. dia bears N 51° E 70 links dist
No other tree convenient to mark
Land level, subject to inundation
Soil 1st rate
Timber; Cotton Wood – 1st quality

Compared the measuring chains with the standard and found them correct

September 12th 1856

Fourth Standard Parallel North
R 1 E.

Along the South boundary of Section 34 T 17 N R 1 E
N 89°51' W on a true line

Variation 11°50' East

4 50 Leave Timber and enter prairie bearing N 60° W and S W.

40 00 Set a post in a Mound and drove a charred stake as per instructions for a quarter section corner

59 50 Left bank of a dry bayou bears N W and S E

60 90 Right bank of same bayou bears N W and S E
- Enter Timber bears the same as bayou bank

65 45 A Cotton Wood 20 in. dia.

69 00 Right bank of dry bayou (last crossed) bears N 80° E and S 80° W

70 00 Left bank of same parallel with the right bank

71 41 A Willow 6 in. dia.

72 13 A Cotton Wood 34 in. dia.

74. 40 Left bank of dry bayou bears S E and N W-
- Leave timber bearing S E and N W.

Fourth Standard Parallel North
R 1 E

80 00 Set a post with trench and drove charred stake as per instructions for a corner to sections 33 and 34 T 17 N R 1 E from which
A Cotton Wood 28 in. dia. bears S 71° W 305 links dist
A Cotton Wood 18 in. dia. bears N 79° E 328 links dist
No other trees convenient to mark
This corner on a small island in the bayou

Level bottom land liable to overflow
Soil 1st rate

Timber;- Cotton Wood;- No undergrowth

Fourth Standard Parallel North
R 1 E.

> Along the south boundary of Section 33 T 7 N R 1 E
N 89° 51' W on a true line

Variation 10° 30' East

4 00 Intersect the right bank of dry bayou bearing S 80° E and N 80° W

16 20 Right bank of same bayou again bears S 50° W and N 80° E

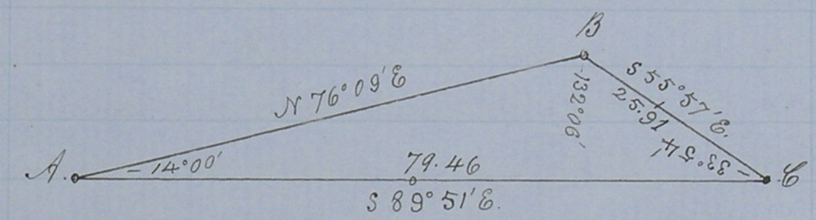
18 10 Left bank of same bears N 50° E and S 50° W

26 40 Set a post in a mound and drove a charred stake as per instructions for a Meander Corner on the Left Bank of Platte River (30 links from the Water's edge) — The river bank bearing N 60° W and S 60° E

40 00 The Corner in the river - inaccessible
In order to obtain the distance across the (bend) river I set a post at the intersection of the Standard Parallel with the left bank of the same on the West side of the bend — Then measured a base from the Meander Corner last

Fourth Standard Parallel North
R 1 E

established N 55° 57' W 25.91 Chains to a Station from which the post on west side of the bend bears S 76° 09' W - Making the distance from the Meander Corner to the post on the op=posite side of the bend 79.46 Chains



As Sine of the Angle A = 14° 00' = 9.38368
Is to Sine of the Angle B = 132° 06' = 9.87039
So is the Base B C = 25.91 Log: = 1.41347
11.28386
9.38368
To dist A C = 79.46 = 1.90018

Therefore as the distance to the Meander Corner is 26.40; consequently (26.40 + 79.46 = 105.86 — 80.00 = 25.86) the post on the West side of

Fourth Standard Parallel North
R 1 E.

the bend is 25.86 Chains west of the corner to sections 32 and 33 T 17 N R 1 E

80 00 Corner in the river - inaccessible. In order to establish a witness to this corner, I begin at the post on the Standard Parallel 25.86 chains west of the Corner to sections 32 and 33 and from said post run due North 12.28 chains, then S 89°51' E 25.86 chains (to the bank of Platte River) to a point 12.28 chains due North of the true corner, at which point I set a post and drove a charred stake as per instructions for a "Witness Corner" to sections 32 and 33 T 17 N R 1 E from which

A Cotton Wood 28 in. dia. bears N 3° W 41 links dist
A Cotton Wood 34 in. dia. bears S 75° W 108 links dist
A Cotton Wood 18 in. dia. bears N 68° E 50 links dist
A Willow 18 in. dia. bears S 70° E 17 links dist
Land low and swampy - unfit for Cultivation
Timber;- Cotton wood.

Fourth Standard Parallel North
R 1 E.

Along the South boundary of Section 32 T 17 N R 1 E N 89° 51' W. on a true line

Variation —— East

Note - The corner to sections 32 and 33 being in the river the variation of the Needle could not be obtained.

25 86 Set a post and drove a charred stake as per instructions for a Meander Corner on the left bank of Platte River from which

A Cotton Wood 8 in. dia. bears N 34½° W 55 links dist.
A Cotton Wood 4 in. dia. bears N 20° E 63 links dist
The river bank at this point bears N 75° E and S 75° W — Enter timber bearing with the river bank

40 00 Set a post and drove a charred stake as per instructions for a quarter section corner from which

A Cotton Wood 16 in. dia. bears N 64° E 69 links dist
A Cotton Wood 28 in. dia. bears N 2° W 81 links dist

Fourth Standard Parallel North
R 1 E.

46 58 A Cotton Wood 10 in. dia
56 30 A Cotton Wood 8 in. dia
63 00 Leave timber and enter prairie bearing S. & N 85° E
80 00 Set a post in a Mound and drove a charr=
=ed stake as per instructions for a corner to
sections 31 and 32 T 17 N. R 1 E.

Land level; subject to inundation
Soil sandy 2d rate
Timber; Cotton wood of good quality
No undergrowth

Fourth Standard Parallel North
R 1 E

Along the South boundary of Section 31 T 17 N R 1 E
N 89° 51' W. on a true line

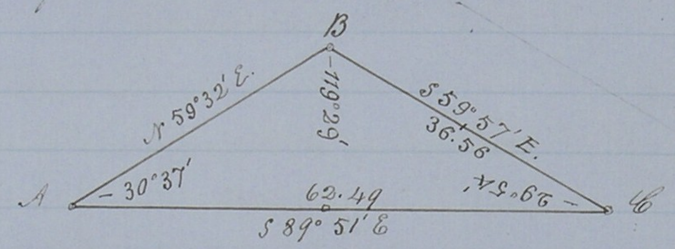
Variation 14° 50' East

17 51 Set a post in a Mound and drove a charr=
=ed stake as per instructions for a Meander
Corner on the Left bank of Platte River which
here bears N 60° W and S 60° E

In order to
obtain the distance across the river I set a
flag at the true point of intersection of the
Fourth Standard Parallel with the 6th Principal
Meridian – Then from the meander Corner on the
left bank measured a base N 59° 57' W 36.56
Chains to a station from which the flag at
the intersection of the Meridian and Parallel bears
S 59° 32' W – making the distance from the Me=
=ander Corner to the flag on the Meridian
62.49 Chains –

Fourth Standard Parallel North
R 1 E.

Along the South boundary of



As Sine of A = 30° 37' - 9.70697
So to Sine of B - 119° 29' - 9.93977
So is the Base BC = 36.56 Log: = 1.56301
11.50278
9.70697
To AC = 62.49 = 1.79581

Distance to meander corner 17.51 + 62.49 = 80.00.

40 00 Corner in the river - inaccessible

80 00 Corner to Townships 16 and 17 North, Ranges 1 East and 1 West - This corner is 100 links north of the witness corner to the same; which said witness corner being

A Cotton Wood tree 4 in. dia. (marked only with Notches as prescribed for a "line tree") from which

Fourth Standard Parallel North
R 1 E

A Cotton Wood 6 in. dia. bears S 52° E 21 links dist
A Cotton Wood 8 in. dia. bears S 42° W 50 links dist
A Cotton Wood 5 in. dia. bears N 45½° W 70½ links dist
A Cotton Wood 6 in. dia. bears N 82° E 59½ links dist

Land level; subject to inundation
Soil 1st rate

Compared the meas= =uring chains with the Standard and found them correct

September 13th 1856

62.49
17.51
80.00

List of Names

A list of the names of the individuals employed to assist in running, measuring, and marking the lines and corners described in the foregoing Field Notes of the Survey of the Fourth Standard Parallel North of the Base Line, Between the Sixth Principal Me=ridian and Guide Meridian East therefrom, showing the respective capacities in which they acted:

William Barry	Fore-Chainmen
George G Pierce	Fore-Chainmen
William W R Clarke	Rear Chainmen
Charles Linderman	Rear Chainmen
Samuel Stover	Fore Flagman
William P Ford	Rear Flagman
Thomas A Bones	Axeman

We hereby certify that we assisted Charles A Manners, deputy Surveyor, in Surveying the Fourth Standard Parallel North of the Base Line, Between the Sixth Principal Meridian and the Guide Meridian East therefrom, and that said Standard Parallel or Correction line has been in all respects to the best of our knowledge and belief, well and faithfully surveyed, and the boundary monuments planted according to the instruc=tions furnished by the Surveyor General

William Barry	Fore-Chainmen
George G. Pierce	Fore-Chainmen
William W. R. Clarke	Rear-Chainmen
Charles Linderman	Rear-Chainmen
Samuel Stover	Fore-Flagman
William P. Ford	Rear Flagman
Thomas A Bones	Axeman

Subscribed and sworn to by the above named persons, before me, a Justice of the peace for Douglas County in the Territory of Nebraska this 29th day of September 1856

Isaac P Walker
Justice of the peace

Fourth Standard Parallel North

I, Charles A Manners, deputy Surveyor, do solemnly swear that, in pursuance of a contract with John Calhoun surveyor of the public lands of the United States in the Territory of Nebraska, bearing date the 7th day of July 1856, and in strict conformity to the laws of the United States and the instructions furnished by the said Surveyor General, I have faithfully sur=veyed the Fourth Standard Parallel North of the Base Line, between the Sixth Principal Meridian and the Guide Meridian East therefrom, in the territory aforesaid, and do further solemnly swear that the foregoing are the true and Original Field Notes of such survey

Charles A Manners
Deputy Surveyor

Subscribed by said Charles A Manners, deputy Surveyor, and sworn to before me, a justice of the peace for Leavenworth County, Kansas Territory this 16th day of October 1856

John W. Ladd
Justice of the peace

Contract No. 3
Date April 26 1855

Field Notes
of the
Fourth Standard Parallel
north of the
Principal Base Line
in the
Territory of Nebraska

From its beginning on the Guide Meridian between Ranges 8 and 9 East of the 6th principal Meridian East to the Missouri River on the line dividing Townships 16 and 17 North, by

Charles A Manners
Deputy Surveyor

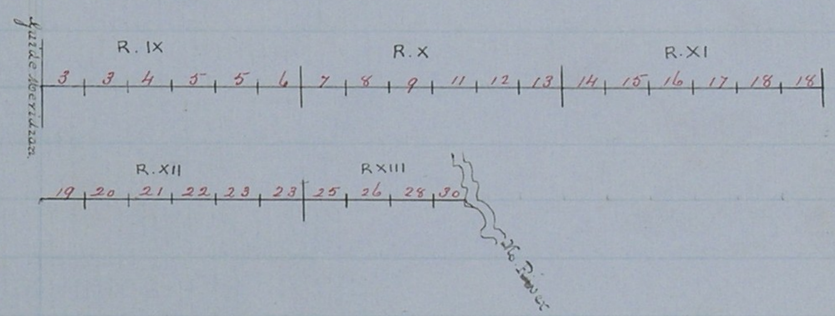
date of ~~Contract~~ April 26 1855

Commenced October 10 th 1855
Completed October 17 th 1855

Names and duties of Assistants

Cornelius B Keller	Fore Chainmen
Frederick Wilks	
Samuel Saunders	Rear Chainmen
Thomas J Barker	
James E Brown	Flagman
Daniel H Wright	Axeman

Fourth Standard Parellel North of the Principle Base line in the Territory of Nebraska.



Fourth Standard Parallel - R 9 E
Begin at a post in a mound at
the corner to Townships 16 & 17 N R 9 E
(on the Guide Meridian between Ranges
8 and 9 East) and from it run
Along the South boundary of Section 31 T 17 N
R 9 E - East on a true line
Variation 10° 55' East

40 00 Set a post in a mound and deposited
a charred stake as per instructions for
a quarter section corner

80 00 Set a post in a mound and deposited a
charred stake as per instructions for a cor=
=ner to sections 31 & 32 T 17 N R 9 E
Level bottom prairie subject to inundation
soil sandy 2d Quality

Along the South boundary of Section 32 T 17 N R 9 E
East on a true line

40 00 Set a post in a mound and deposited a
charred stake as per instructions for a

Fourth Standard Parallel - R 9 E

quarter section corner

80 00 Set a post in a mound and deposited a charred stake as per instructions for a corner to sections 32 & 33 T 17 N R 9 E

Level bottom prairie subject to inundation soil sandy 2d. quality -

---

Along the South boundary of section 33 T 17 N R 9 E

East on a true line

40 00 Set a post in a mound and deposited a charred stake as per instructions for a quarter section corner

80 00 Set a post in a mound and deposited a charred stake as per instructions for a corner to sections 33 & 34 T 17 N R 9 E

Level prairie in the river bottom soil sandy 1st rate - subject to inundation at very high water only

---

Fourth Standard Parallel - R 9 E

Along the south boundary of section 34 T 17 N R 9 E

East on a true line

40 00 Set a post in a mound and deposited a charred stake as per instructions for a quarter section corner

80 00 Set a post in a mound and deposited a charred stake as per instructions for a corner to sections 34 & 35 T 17 N R 9 E

Level bottom prairie subject to inundation at very high water only soil 1st rate

---

Along the South boundary of section 35 T 17 N R 9 E

East on a true line

7 00 Wagon Road from Council Bluffs to California and Oregon bearing S 80° E and N 80° W.

40 00 Set a post in a mound and deposited a charred stake as per instructions for a ~~xxxxx~~ quarter section corner

80 00 set a post in a mound and deposited a charred stake as per instructions for a corner to

Fourth Standard Parallel North - R 9 E

sections 35 & 36 T 17 N R 9 E

Level bottom prairie too wet to be desirable for cultivation - soil good

Compared the measuring chains with the standard and found them correct.

October 10th 1855

Along the south boundary of section 36 T 17 N R 9 E

East on a true line

40 00 Set a post in a mound and deposited a charred stake as per instructions for a quarter section corner

57 30 a pond 200 links wide water 2 feet deep bears NW and SE

80 00 Set a post in a mound and deposited a charred stake as per instructions for a corner to Township 17 North, between Ranges 9 & 10 East

Variation of the Needle 10° 48' East

Level bottom prairie subject to inundation but

Fourth Standard Parallel North - R 9 E

otherwise dry - Soil 1st. quality

Along the south boundary of Section 31 T 17 N R 10 E

East on a true line

Variation 10° 48' East

40 00 Set a post in a mound and deposited a charred stake as per instructions for a quarter section corner

63 10 Raw Hide creek 30 links wide - water one foot deep - low banks - miry bottom - Course South - General Course S 35° E

80 00 Set a post in a Mound and deposited a charred stake as per instructions for a corner to sections 31 & 32 T 17 N R 10 E

Level bottom prairie subject to inundation but otherwise dry - soil 1st. quality

---

Along the south boundary of Section 32 T 17 N R 10 E -

East on a true line

Fourth Standard Parallel North - R 10 E

40 00 Set a post in a Mound and deposited a charred stake as per instructions for a quarter section corner

50 43 Set a temporary post on the right bank of Elk Horn river which bears S 10° E & N 10° W - at this point enter timber skirting the river bank and bearing the same -

To obtain the distance across the river I set a post in line on the left bank of the river from which I measure due North 197 links to a station from which the post on the right bank bears S 49½° W making the distance across the river = 2.31 chs

Nat: Tang: 49½° = 1.1708496
1197
81959472
10537 6464
11708496
2.30.6573 712

Hence at 50.43 + 2.31 = 52.74

52 74 Set a temporary post on the left bank of Elk Horn River which bears S 5° E & N 5° W

Fourth Standard Parallel North - R 10 E

55 00 Left the timber and enter prairie bearing N 5° E and S 45° E

80 00 Set a post in a Mound and deposited a charred stake as per instructions for a corner to sections 32 & 33 T 17 N R 10 E

First 50.00 chs level bottom prairie subject to inundation at very high water only - soil 1st rate - The timber on the river Cotton Wood and Elm 2d quality. The last 25.00 chs low and swampy prairie unfit for cultivation

---

Along the south boundary of section 33 T 17 N R 10 E East on a true line

39 90 the right bank of Walnut creek bearing S 50° W and N 50° E

40 00 the Quarter section corner in the creek from which we measure due west 15 links and there set a post as a witness to the true quarter section corner from which a

Fourth Standard Parallel North R.10 E

Willow 16 in. diam. bears N 41° E 72 lks dist

An Ash 10 in. diam bears S 3° E 69 lks dist

Compared the measuring chains with the stand=
=ard and found them correct

October 11th 1855

50 00 Wagon road from Elk Horn City to Fontenelle bearing North and South – at this point leave river bottom and enter up=
=land prairie bearing N & S

65 00 Enter scattering timber bearing NW & SE

80 00 Set a post and deposited a charred stake as per instructions for a corner to sections 33 & 34 T 17 N R 10° E –

Left scattering timber and enter prairie bearing S W & North

From said section corner post

A Burr Oak 9 in. diam. bears N 71½° E 113 lks dist.

A Burr Oak 18 in. diam bears S 4° W 133 lks dist.

A Burr Oak 18 in. diam bears N 85½° W 214 lks dist.

A Cotton Wood 24 in. diam. bears S 19½° E 273 lks dist.

Fourth Standard Parallel North. R 10 E

First ½ mile a low marshy bottom subject to inundation and unfit for cultivation – The next 10 chs. level prairie 1st quality – the next 15.00 chs. High rolling prairie 1st rate soil. The remainder of this mile broken and hilly with scattering scrubby burr Oak trees of but little value and soil of inferior quality

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Along the south boundary of section 34 T 17 N R 10 E East on a true line

5 90 A Wagon Road leading NW & SE

14 90 Head of a ravine – Course N E

20 00 Enter timber on Walnut creek bearing NW & SE

26 40 Walnut Creek 20 links wide – miry banks and bottom – Course N 50° W – A clear run=
=ning stream

27 00 left timber and enter prairie bearing NW & SE

31 72 A branch 7 links wide – Course S W

40 00 Set a post in a mound and deposited a charr=
=ed stake as per instructions for a quarter

Fourth Standard Parallel North - R 10 E

section corner.

80 00 Set a post in a mound and and deposited a charred stake as per instructions for a corner to sections 34 & 35 T 17 N R 10 E

First 40.00 ch.s hilly and broken by ravines the sides of which are skirted with ~~with~~ Burr Oak and Elm timber of 2d. quality. The last ½ mile high rolling prairie soil 1st. rate.

Along the South boundary of section 35 T 17 N R 10 E East on a true line

16 00 Enter an improved field the west boundary of which bears North and South and extends 6 ch.s south and 8 ch.s North of the line

36 50 Left same field bearing N & S and extending 5 ch.s south and 9 ch.s North of the line

40 00 Set a post in a mound and deposited a charred stake as per instructions for a quarter section corner

Fourth Standard Parallel North - R 10 E

57 00 A slough branch (water 7 links wide) Course S 15° E

80 00 Set a post in a mound and deposited a charred stake as per instructions for a corner to sections 35 & 36 T 17 N R 10 E

High rolling prairie soil 1st. rate

Along the south boundary of section 36 T 17 N R 10 E East on a true line

40 00 Set a post in a mound and deposited a charred stake as per instructions for a quarter section corner -

62 40 A branch 7 links wide Course S 50° E

80 00 Set a post in a mound and deposited a charred stake as per instructions for a corner to Township 17 North, between ranges 10 & 11 East

Variation of the Needle 10° 35' East

High rolling prairie - Good tillable land but hardly 1st quality

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Along the south boundary of section 31 T 17 N R 11 E

Fourth Standard Parallel North - R 11 E

East on a true line

Variation 10°35' East

30 80 A branch 15 lks wide Course N E

31 80 Same branch 15 lks wide Course S E

32.66 Same branch 15 lks wide Course N E

A clear running stream with miry banks and bottom - General Course N 60° E

40 00 Set a post in a mound and deposited a charred stake as per instructions for a quarter section corner

52 20 A slough branch or drain - Course North

80 00 Set a post in a mound and deposited a charred stake as per instructions for a corner to sections 31 & 32 T 17 N R 11 E

Rolling prairie soil 1st. rate

Compared measuring chains with the standard and found them correct

October 12th 1855

Along the south boundary of section 32 T 17 N R 11 E

Fourth Standard Parallel North - R 11 E

East on a true line

30 70 A branch 5 lks. wide - Course North

40 00 Set a post in a mound and deposited a charred stake as per instructions for a quarter section corner

55 92 A Black Walnut 15 in. diam. (This tree in a clump or small grove of timber on the right bank of a branch)

65 00 Left rolling upland and enter branch bottom bearing NW & SE -

68 00 A spring branch 5 lks wide Course North 100

80 00 Set a post in a mound and deposited a charred stake as per instructions for a corner to sections 32 & 33 T 17 N R 11 E

All prairie - The 1st 65.00 chains rolling upland - The remained level bottom not subject to inundation soil 1st. rate

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Along the south boundary of section 33 T 17 N R 11 E

East on a true line 83

Fourth Standard Parallel North - R 11 E

1 00 A branch 15 lks wide - Course S E

7 00 Same branch 15 lks wide Course N E

8 20 Same branch 15 lks wide Course S E -
General course of this branch S 50° E to its junction with Papillon Creek - Banks and bottom miry

16 20 Struck the right bank of Papillon Creek in a bend which bears N. & East

19 80 Leave said bank - Course N E

24 75 Papillon Creek 25 links wide Course south - General course S 15° E -. Banks of this stream 15 feet high - bottom quicksand -. Small groves and clumps of Willow - Box Elder - Elm and cotton Wood trees line the banks of this stream

40 00 Set a post in a mound and deposited a charred stake as per instructions for a quarter section corner

58 00 Top of a ridge 50 feet above the level of the Creek and extends North & South

Fourth Standard Parallel North R 11 E

78 00 A branch 15 links wide - bottom miry - banks fringed with scattering Box Elders & Willows - Course S 35° W

80 00 Set a post in a mound and deposited a charred stake as per instructions for a corner to sections 33 & 34 T 17 N R 11 E -. First 25 chs level - the remainder rolling prairie soil 1st quality -

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Along the south boundary of section 34 T 17 N R 11 E
East on a true line

15 30 A branch 5 links wide course S W

40 00 Set a post in a mound and deposited a charred stake as per instructions for a quarter section corner

80 00 Set a post in a mound and deposited a charred stake as per instructions for a corner to sections 34 & 35 T 17 N R 11 E
High rolling prairie soil 1st. rate

Along the south boundary of section 35 T 17 N R 11 E
East on a true line

Fourth Standard Parallel North R 11 E

18 80 Emmigrant road from Council Bluffs to California and Oregon bears N 50° E and S 60° W

40 00 Set a post in a mound and and deposited a charred stake as per instructions for a quarter section corner

70 90 A spring branch 5 links wide runs South

80 00 Set a post in a Mound and deposited a charred stake as per instructions for a corner to sections 35 and 36 T 17 N R 11 E

All prairie - ridged, rolling and hilly soil 2d. rate.

Compared the measuring chains with the standard and found them correct

October 13th 1855

Along the south boundary of section 36 T 17 N R 11 E East on a true line

18 00 Enter a marsh bearing N & S

22 00 left marsh and enter rolling upland bearing N & S

40 00 Set a post in a Mound and deposited a charred stake as per instructions for a

Fourth Standard Parallel North. R 11 E

quarter section corner

80 00 set a post in a mound and deposited a charred stake as per instructions for a corner to ~~sections~~ Township 17 North between Ranges 11 & 12 East

Variation of the Needle 10° 35′ East

Hilly prairie soil 2d. rate - except in the marsh which is miry and unfit for tillage

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Along the south boundary of section 31 T 17 N R 12 E East on a true line

Variation 10° 35′ East

40 00 Set a post in a Mound and deposited a charred stake as per instructions for a quarter section corner

47 00 Leave rolling upland and enter swamp bearing N & S

56 00 Leave swamp and enter rolling upland bearing N & S

80 00 Set a post in a mound and deposited a charred stake as per instructions for a corner to sections 31 & 32 T 17 N R 12 E

All prairie rolling and hilly except in the swamp

Fourth Standard Parallel North - R 12 E

which is miry and unfit for cultivation -

Along the South boundary of section 32 T 17 N R 12 E
East on a true line

15 20 Bottom of a hollow - Course South

21 00 top of a ridge 40 feet above the level of last hollow extending N & S

29 85 Bottom of hollow - Course south

38 50 Top of a ridge 40 feet elevation extending N & South

40 00 Set a post in a mound and deposited a charred stake as per instructions for a quarter section corner

48 00 bottom of a hollow - Course S 10° E

71 00 Top of a ridge (45 feet Elevation) extending N & S

80 00 Set a post in a mound and deposited a charred stake as per instructions for a corner to sections 32 & 33 T 17 N R 12 E
Hilly prairie - alternate ridges & hollows extending N. & South

Fourth Standard Parallel North R 12 E

soil 2d. rate

Along the south boundary of section 33 T 17 N R 12 E
East on a true line

1 00 bottom of a hollow - Course S 15° E

14 00 Top of a ridge extending N & S

22 00 Bottom of a hollow - Course South

40 00 Set a post in a mound and deposited a charred stake as per instructions for a quarter section corner

42 00 Top of a ridge (60 feet elevation) bearing N. & S

64 00 Bottom of a hollow - Course S 20° E

77 00 Top of a ridge (45 feet elevation) bears N 20° W and S 20° E

80 00 Set a post in a mound and deposited a charred stake as per instructions for a corner to sections 33 & 34 T 17 N R 12 E
All prairie hilly and broken soil 2d. quality

Fourth Standard Parallel North - R 12 E

Along the South boundary of section 34 T 17 N R 12 E

East on a true line

15 00 Enter a swamp bearing N 30° E and S 30° W

25 00 Left swamp and enter hilly prairie bearing N 30° E & S 30° W

40 00 Set a post in a mound and deposited a charred stake as per instructions for a quarter section corner

Compared the measuring chains with the standard and found them correct

October 14th 1855

46 00 Left hills and enter a swamp bearing NE & SW

65 00 Left swamp and enter hills again bearing NE & SW

80 00 Set a post in a mound and deposited a charred stake as per instructions for a corner to sections 34 & 35 T 17 N R 12 E - This corner on a ridge elevated 60 feet above the level of the swamp ~~and~~ that extends North and South

All prairie hilly and broken soil 2D rate except in the swamp which is miry and unfit for cultivation

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Fourth Standard Parallel North - R 12 E

Along the south boundary of section 35 T 17 N R 12 E

East on a true line

19 00 A hollow or drain - Course North

34 00 Emigrant road from Council Bluffs to California and Oregon which bears North and S 5° W

40 00 Set a post in a mound and deposited a charred stake as per instructions for a quarter section corner

72 50 A branch 7 links wide - Course N E

75 50 Left prairie and enter Hazel brush bearing NE & SW

80 00 Set a post in a mound and deposited a charred stake as per instructions for a corner to sections 35 & 36 T 17 N. R 12 E -

First 75.00 ch. Hilly prairie soil 2D quality; the remainder covered with a thick growth of Hazel soil 1st rate

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Along the South boundary of Section 36 T 17 N R 12 E

East on a true line

15 50 Left Hazel and enter an arm of prairie bearing NE & SW

Fourth Standard Parallel North - R 12 E

19 00 Left arm of prairie and enter a thick growth of Hazel interspersed with scattering Burr Oak and Elm timber of inferior quality -

20 10 A Burr Oak 8 in. diam.

22 40 A branch 7 links wide - Course N 20° W (now dry)

25 00 Left Hazel and scattering timber, and enter prairie bearing N 30° W and S 30° E

30 00 Top of a ridge bearing N & S

40 00 Set a post and deposited a charred stake as per instructions for a quarter section corner from which

A Burr Oak 8 in. diam. bears S 54¼° E 138 lks dist.

A Burr Oak 12 in. diam. bears N 24¾° W 147 lks dist

40 50 Left Prairie and enter a brushy point bearing NW & SE

44 00 Left brushy point and enter prairie bearing NE and SW -

54 20 Enter timber on a branch bearing N 30° E & S 30° W

57 00 A spring branch 7 links wide - Course NE -

60 00 Left timber and enter prairie bearing N 30° E & S 30° W.

Fourth Standard Parallel North. R 12 E.

73 50 Top of a ridge (50 feet elevation) extends N 10° E & S 10° W

80 00 Set a post in a mound and deposited a charred stake as per instructions for a corner to Township 17 North, between Ranges 12 & 13 East

Variation of the needle 10° 35' East

Surface hilly and broken - The branch, hollows and ravines skirted with Burr Oak, Elm, Lynn and Black Walnut timber of 2d quality; and the sides of the hills overgrown with Hazel - Soil from 2d to 3d rate.

Along the South boundary of section 31 T 17 N R 13 E East on a true line

Variation 10° 35' East

1 00 bottom of a hollow - Course North

16 00 Top of a ridge (50 feet elevation) bears N & S - From this station a settler's cabin bears S 15° E 50.00 Chains distant

22 00 bottom of a hollow - Course N 10° W

Fourth Standard Parallel North - R 13 E

23 40 A Wagon Road leads N & S

40 00 Set a post in a Mound and deposited a charred stake as per instructions for a quarter section corner

41 15 A wagon Road from Omaha City to Fort Calhoun leading S 20° W and N 60° E

42 00 Enter Hazel brush bearing S W and N 70° E

80 00 Set a post in a Mound and deposited a charred stake as per instructions for a corner to sections 31 and 32 T 17 N R 13 E. First 40.00 ch.s prairie - The remainder covered with a thick growth of Hazel. Surface hilly and broken soil 2d. quality - Compared the measuring chains with the standard and found them correct

October 15th 1855 -

Along the south boundary of section 32 T 17 N R 13 E East on a true line

6 00 bottom of a hollow - Course S E

Fourth Standard Parallel North - R 13 E

12 00 Top of a ridge (45 feet elevation) bears N & S

15 50 Bottom of a hollow - Course S W

20 25 A settler's house bears North 11.00 ch.s dist.

30 13 A Wagon Road leading South & N 30° W
Enter timber on top of a ridge bearing N & S

34 00 A Wagon Road leading N 30° W and S 30° E

40 00 Set a post and deposited a charred stake as per instructions for a quarter section corner from which
A Burr Oak 9 in. diam. bears S 58° W 37 lks dist
An Elm 16 in. diam bears N 67° E 76 lks dist

43 47 An Elm 14 in. diam.

44 26 A Burr Oak 18 in. diam. in the bottom of a hollow (Course N E.)

46 00 Top of a bluff 30 ft. high bears N E & S W

47 50 Bottom of a deep hollow - Course N W

60 00 top of a ridge bearing N & S

68 90 bottom of a deep hollow, Course S 20° E

75 00 Top of a hill (50 feet elevation) bears N 30° E & S 30° W

80 00 Set a post in a Mound and deposited a charred stake as per instructions for a

Fourth Standard Parallel North
R 13 E

corner to sections 32 and 33 T17N R13E –
This corner set on the Easterly slope of a hill in thick brush –
Surface broken and hilly veined by deep hollows and ravines, and on the first 34.00 ch. covered with a thick growth of Hazel, hickory and Burr Oak brush. The remaining ½ mile has a scattering growth of Burr Oak, Elm, Spanish Oak and Lynn timber with a thick undergrowth of the same kind and quality as the preceding ½ mile. Soil 2nd rate.

Along the south boundary of section 33 T17N R13E
East on a true line

1 00 A ravine, 40 feet deep, 150 lks wide – Course N30°E.
10 57 A black Oak 12 in. diam.
12 00 Top of a high ridge bears N 30°E and S 30°W
17 10 A Black walnut 10 in. diam.
19 30 bottom of a deep hollow – Course North

Fourth Standard Parallel North
R 13 E

23 06 A Red Elm 16 in. diam
26 00 Top of a ridge (70 feet Elevation) bears N & S
37 50 Bottom of a hollow – Course N30°E
40 00 Set a post and deposited a charred stake as per instructions for a quarter section corner from which
An Elm 22 in. diam. bears N61°W 27 lks dist.
A Burr Oak 18 in. diam. bears S72°E 73 lks dist.
50 00 Top of a ridge (70 feet Elevation) bears N & S.
54 18 An Elm 15 in. diam.
55 00 Bottom of a hollow – Course S10°E
62 00 Top of a ridge (60 feet elevation) bears N & S.
67 03 An Iron Wood tree 8 in. diam.
68 20 A deep hollow – Course S30°E
72 00 Top of a ridge extending N. & S
75 19 A Hickory 5 in. diam.
77 93 An Elm 26 in. diam.
78 84 A Lynn 22 in. diam.
80 00 Set a post and deposited a charred stake as per

Fourth Standard Parallel North
R 13 E.

instructions for a corner to sections 33 and 34, T 17 N R 13 E from which

An Elm 18 in. diam. bears N 67° E 46 links dist.

An Elm 20 in. diam. bears S 59° W 30 links dist.

An Elm 22 in. diam bears S 18° E 79 links dist.

An Iron Wood 10 in. diam. bears N 11° W 27½ links dist.

Surface hilly and broken - soil good but too hilly to be desirable for cultivation. Timber Burr Oak - Elm - Hickory, Spanish Oak, Black Walnut, Lynn and Hackberry of fair 2d quality.

October 16 th 1855

Along the south boundary of section 34 T 17 N R 13 E. East on a true line

1 00 bottom of a hollow - Course N 30° E

11 00 Top of a Ridge bears N & S

13 00 Top of bluffs on the right bank of Missouri River (90 feet elevation) nearly perpendicular, and

Fourth Standard Parallel North
R 13 E.

bearing North and south -

15 00 Left the foot of the bluffs and enter the River bottom bearing N. & S.

16 85 A Wagon Road leading N & S.

26 30 Intersected the right bank of Missouri River bearing W 10° W and S 10° E - River about ¼ of a mile wide - bank 15 feet high - general course S 10° E -

As the corner could not be permanently es= =tablished immediately at the point of intersection I therefore measure due West from said point 130 links distant and consequently to a point 25.00 chains due East of the corner to sections 33 & 34, where I set a post and deposited a charred stake as per instructions for a witness to the true point of intersection of the fourth Standard parallel with the Missouri river at the South East corner to Fractional section 34 T 17 N. R 13 E, from which said witness corner

Fourth Standard Parallel North - R13E

post

An Elm 22 in. diam. bears S 48¼° E 62 links dist.

An Elm 16 in. diam. bears S 54° W 121 links dist.

A Willow 12 in. diam. bears N 34° E 30 links dist.

A Cotton Wood 44 in. diam. bears N 37° W 201 links dist.

First 15.00 chains hilly and broken with good Burr Oak, Elm, Hickory, Spanish Oak, Lynn and Hackberry timber - the remainder of the distance a level bottom subject to inundation with a growth of scattering Elm - Cotton wood and Burr Oak trees of ordinary size and quality.

Variation of the Needle 10°38' East

Compared the measuring chains with the standard and found them correct

October 17th 1855

Fourth Standard Parallel North.

List of Names.

A list of the names of the individuals employed to assist in running, measuring or marking the lines and corners described in the foregoing field-Notes of the Fourth standard Parallel from the Guide Meridian East to the Missouri River, showing the respective capacities in which they acted:

Cornelius B Keller	Fore-Chainmen
Frederick Wilks	Fore-Chainmen
Samuel Saunders	Rear-Chainmen
Thomas J Barker	Rear-Chainmen
James E Brown	Flag-man
Daniel H Wright	Axeman

We hereby Certify that we assisted Charles A Manners, deputy Surveyor, in surveying the Fourth Standard Parallel, from its Beginning on the Guide Meridian between ranges 8 & 9

Fourth Standard Parallel North

East of the 6th principal meridian at the corner to Townships 16 and 17 North, East - to the Missouri river, and that said Fourth Standard Parallel line has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the boundary monuments planted according to the instructions furnished by the Surveyor General

Cornelius B. Hulls } Fore-Chainmen
Frederick Wilkes }
Thomas J. Barker } Rear-Chainmen
Samuel Saunders }
James E. Brown. Flag-man
Daniel M. Wright Axeman

Subscribed and sworn to by the above named persons, before me, a justice of the peace for the County of Douglas in the Territory of Nebraska this 18th day of October 1855

Jackson Barrett
Justice of the peace

Fourth Standard Parallel North.

I, Charles A Manners, deputy Surveyor, do solemnly swear that, in pursuance of a contract with John Calhoun Surveyor of the Public Lands of the United States in the Territories of Kansas and Nebraska, bearing date the 26th day of April 1855, and in strict conformity to the laws of the United states and the instructions furnished by the said Surveyor General, I have faithfully surveyed the Fourth Standard Parallel, or correction line ~~in the Territory of Nebraska~~ from its beginning on the Guide Meridian between Ranges 8 & 9 East of the 6th principal Meridian, at the corner to Townships 16 & 17 North of the principal Base Line, in the Territory of Nebraska aforesaid, and do further solemnly swear that the foregoing are the true and original field-Notes of such survey

Charles A Manners
Deputy surveyor

Subscribed by said Charles A Manners ~~and~~

Fourth Standard Parallel North.

deputy Surveyor, and sworn to before me a Justice of the Peace for Douglas County, in the Territory of Nebraska, this 18th day of October 1855

Jackson. Barnett
Justice of the Peace

Surveyor's Office at Wyandott K.T.
January 10 th 1856

The foregoing field notes of the Survey of the Fourth Standard parallel North of the Base Line in Nebraska Territory, between the Guide Meridian and the Missouri River, executed by Charles A Manners, under his contract of the 26th day of April 1855, in the month of October 1855, having been critically examined, and the necessary corrections and explanations made, the said field notes and the Surveys

they describe are hereby approved

J. Calhoun
Surveyor General of
Kansas & Nebraska

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.