General Land Office • Original Field Notes

Book Number

1

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.

96

40 Parallel

BASE LINE
From
Missouri
River
to
Colorado

96.

George E Mayhall of
New London Mo.
Ralls Co.
Claims to have been with party
on survey of S. boundary.

By Chas A. Manners March 28. 1856

b

BASE LINE, EAST.

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BASE LINE, WEST.

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Base Line East & West a

~~of Nebraska~~

Field Notes

of the [illegible]

[illegible] Base Line between Kansas

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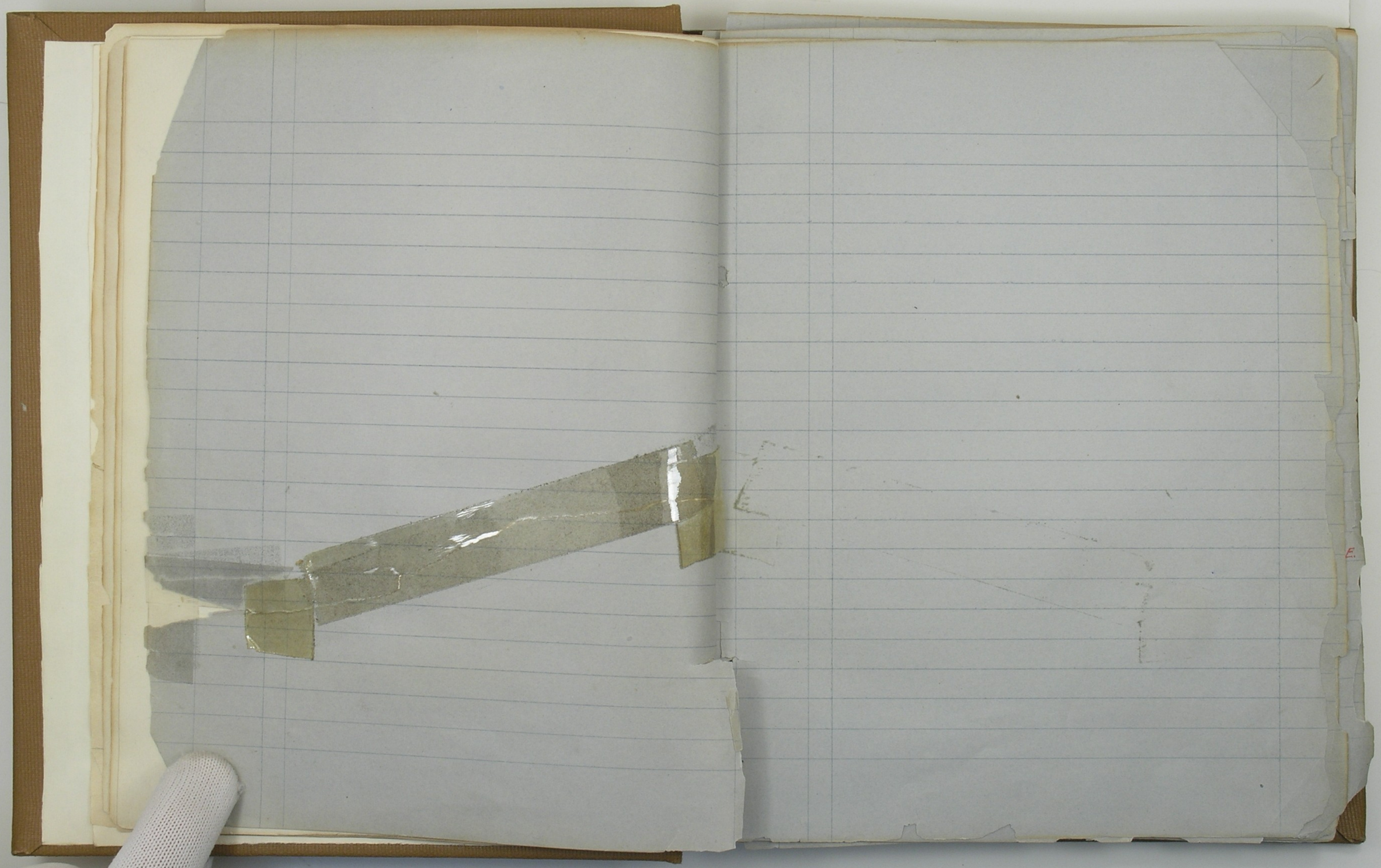
original notes [illegible] the Surveyor

General's Office [illegible]

Field Notes

of the

Base Line between Kansas and Nebraska, as copied from the original notes on file in the Surveyor General's Office of Kansas.



Notes.
"Iron Monument" Set May 8th 1855
Survey of Base Line Commenced, May 14th 1855
Survey to 60th Mile Post Completed, June 24th 1855

Surveyed by Chas A Marmere.
under Contract dated April 27. 1855 — July 2d 1858.

U.S. Surveyors Camp
Base Line May 8. 1855

John Calhoun Esq.
Surveyor General
Kansas and Nebraska

Sir,

In pursuance of my instructions issued from your office under date of April 27. 1855, authorizing me to procure the Cast Iron Post of Messrs. Donnell, Saxton and Patter at St. Joseph Mo, consigned them by Capt. Thos. J. Lee, of the U.S. Army, and erect the same at the precise point where the Base Line of U.S. Surveys intersects the West bank of the Missouri River at the Initial point of said Base Line, as shown by the Field Notes of the Survey executed by John P. Johnson —

I beg leave to report, and do hereby report; that said cast Iron Post or monument was this day erected at the precise point wher

Professor Johnson located the Initial point of the Base Line of U.S. Surveys for Kansas and Nebraska — It being the South East Corner of Section 36 in Township 1 North, Range 18 East of the Sixth Principal Meridian, At the point where said monument is erected, we found a post set 2 feet in the ground, with the size, letters and figures corresponding with the field notes of Johnson Survey, Ten feet from said post in the direction of each of the cardinal points, a Stone was set in the ground so as to leave about 9 inches above the surface, These stones were connected by a quadrangular trench about 10 inches in depth From said Corner post (and consequently from the monument now)

A Black Oak 18 in. dia. bears N. 66 lks. dist.
A Black Oak 22 in. dia. bears N. 12½° E. 44 lks. dist.
A Black Oak 29 in. dia. bears S. 45° E. 14 lks. dist.
A Black Oak 17 in. dia. bears S. 14½° W. 50 lks. dist.

All these Trees were marked with the proper

letters and figures to indicate the Section, Township and Range, but such letters and figures on the Tree South of the line I, cannot be obliterated

Said Monument or Cast Iron Post was erected by setting the same two feet in the ground with a flat stone well bedded underneath it for a foundation, and the excavation around the post well rammed with earth and small stones —

As the monument now stands the figures on the East are "1854." on the North side is the word "Nebraska" on the West side the letters and figures "40° N. Lat." and on the South side "Kansas" the sides of the monument facing the Cardinal points.

Being further instructed to measure the distance from said monument due East to the Missouri River, I this day run the same by the assistance of Edmund R. Willy and Cornelius B. Keller, for Chainmen.

and John P. Stout, and Robert L. Ream Jr. hind Chainmen, and Austin M. Garland Flagman, A copy of their Affidavits in their respective capacities accompanies this report and forms a part of the same —

Begin at the Cast Iron Monument at the Initial point of Surveys and from it run East on Base Line

Va. 11° 25' E.

2 50 Enter Prairie Bottom

30 00 A dry Bayou or Channel of Mo. River crosses the line at right angles

40 00 Set a Limestone 18 X 12 X 3 marked 1/4 on North side

51 80 Set Limestone 20 X 12 X 3 Seventy five lks. W. of W. bank of Mo. River as a Witness stone to the S.E. Cor. of fractional Sec. No 31. T. 1. N. R. 19. E. marked F.S. 31. T. 1. N. R. 19. E.

52 55 Intersected the right bank of the main Channel of Mo. River which here runs S. 10° W.

First 2½ Chs. a rugged rocky Bluff partially covered with Brush and small Trees, the remainder of the 1st 30 Chs. a Prairie Bottom interspersed with small patches of Willows, Soil sandy, The remainder of this line subject to inundation at a moderate stage of Water Soil white sand, destitute of Grass,

May 8. 1855

Charles A. Manners

Deputy Surveyor

2

9E.

Base Line

June 14. 1855

Beginning at the cast iron monument at the initial point of surveys for Kansas and Nebraska, said monument being on the Parallel of 40° N. Latitude at the point where the same crosses the top of the Bluff on the West bank of the Mo. River and at the point at which the same was erected on the 8th day of May A.D. 1855. pursuant to the instruction of the Surveyor General. From the monument East to the water edge on the West or right bank of Mo. River the distance was found by me on the 8th day of May aforesaid to be 52 Ch. and 55 lks. R.19E.
four bearing trees are taken being the same taken by John P. Johnson in his survey of the Base Line viz.

Black Oak 18 in. dia. bears N. 66 lks. dist.
Black Oak 22 in. dia. bears N. 12½° E. 44 lks. dist
Black Oak 29 in. dia. bears S. 45° E. 114 lks. dist

Base Line

Black Oak 17 in. dia. bears S. 14¼° W. 50 lks. dist
The monument stands on a bluff about 70 feet above the level of the River, the Easterly side or slope of said bluff being nearly perpendicular. general course of the bluff on the West side of the River N. 30° W. and S. 30° E.
The witness trees to the monument are marked with a blaze and notch in the usual manner those on the N. side of the line with the proper letters and figures to indicate the Range, Township and Section in which they stand with the letter B.T. immediately under the same, but those on the South marked with the letter B.T. only these letters could not be put upon a "small blaze" underneath the one made to receive the Section, Township and Range, because the large blazes as made by Johnson extend to the ground.
From the monument we run on

Base Line Range 18 E.

(1)

Chains West on a true line

Va. 11°28' E.

3 90 Bottom of Ravine 5 lks. wide course N. E.
8 02 A Black Oak 14 in. dia.
9 00 Top of a Ridge bears N. E. and S. W.
10 20 Dry Ravine 5 lks. wide course N. E.
14 67 A Black Oak 8 in. dia.
33 00 Spring Branch 4 lks. wide runs N. 70° E.
40 00 Set ¼ Sec. Cor. post with 1 Qt. of Charcoal beneath it from which
A Bur Oak 18 in. dia. bears N. 27¾° E. 209 lks. dist
A Black Oak 13 in. dia. bears S. 35¼° E. 40 lks. dist
From this Cor. the corresponding ¼ Sec. Cor. post was set by John P. Johnson bears N. 40½° E. 40 lks. dist. the bearing trees to each Cor. post are identical that on the South side of the Base Line being marked with the letter "B.T." only
45 10 Top of a Ridge sloping S.
53 10 Crossed the head of a dry Ravine running S. about 300 lks. N. of line a Ridge runs E. and W.

Base Line Range 18 E.

Chains

55 14 Lynn 14 in. dia.
56 77 Black Oak 12 in. dia.
60 00 Top of a high Ridge in Timber bears N. and S.
64 50 Enter Prairie bears N. and S.
80 00 Set post (with 1 qt. of Charcoal beneath it) in a mound (with trenches pits &c as per instruction for Corners on the Standard Parallels) for a Cor. to Secs. 35 and 36 T. 1. N. R. 18. E. of 6th P.M. from this Cor. the corresponding one established by Johnson bears N. 13° E. 77½ lks. dist.
from this Cor. the Timber on the head of a Ravine bears N. 20° E. 14 chs. another point of timber bears S. 10° W. 15 chs
First ½ mile surface very broken but covered with fair 2d rate Timber mostly Black Oak with a mixture of White Oak, Hickory, Walnut Ash and Lynn. from the ¼ Sec. Cor. West to the prairie the surface is still broken and timber the same. The remaining 15 chs. Prairie dry and rolling, Soil 1st rate

Base Line — Range 18 E.

(2)

Chains Along the S. boundary of Sec. 35. T. 1. N. R. 18. E. West on a true line
10 75 Head of a dry Ravine course S. 10° E.
20 00 Ravine (head of) 5 lks. wide course S. 70° E
34 00 Indian Trail runs S. 85° W. & N. 85° E.
40 00 Set a post in a mound with 1 qt. of Charcoal beneath it for ¼ Sec. Cor. on S. line of Sec. 35. T. 1. N. R. 18. E. from which the Cor. set by Johnson bears N. 15° E. 115 lks. dist. Va of the needle 11° 53' E.
53 00 Enter Timber on Ravine bears N. 40° E. & S. 20° W.
57 00 Ravine 20 lks. wide 15 ft. deep Course N.
60 00 Enter Prairie bears N. 50° W. & S. 10° W.
69 50 Wagon Road leading. N. 70° W. & 30° E.
80 00 Set a post in mound for Cor. to Secs. 33 & 34 with charred stake beneath it 12 in. long from which Johnson Cor. bears N. 8° 20' E. 154½ lks. dist.
High rolling Prairie, Soil 1st quality

Along the S. line of Sec. 34 West on a true line
Va. 12° E.

Base Line ~ Range 18 E.

3

Chains

9 50 Head of Ravine 100 lks. wide 12 ft. deep Course S.W.
A narrow strip of timber on each side mostly Elm
19 50 Enter Brush & scattering Black Oak Timber
22 50 Dry Ravine 75 lks. wide 15 ft. deep Course S.W.
38 25 Dry Ravine 75 " " 30 " " " S.W.
40 00 Set a post for 1/4 Sec. Cor. with charred stake
12 inches long under it from which
A Black Oak 36 in. dia. bears N. 43½° W. 14 lks. dist.
A Lynn 22 in. dia. bears S. 45° E. 58 lks. dist.
From this Cor. the post set by Johnson bears
N. 2°15' E. 192 lks. dist.
41 50 Ravine 100 lks. wide 120 ft. deep Course S.W.
54 00 Mouth of Ravine from N.E.
57 50 Spring Branch 5 lks. wide Course N.W.
69 00 Enter Prairie, bears S.E. & N.W.
70 00 Roy's Trading House bears N. 18°40' W. 22.70 dist
Blacksmith Shop bears N. 2° W. 9.90 Ch. dist.
& the Blacksmith Residence bears N. 80° W. 3.78 dist
78 50 Enter Brush on Ravine bears N. and S.

Base Line ~ Range 18 E.

Chains

79 50 Bottom of Ravine 15 ft. deep Course N.
80 00 Set a post with a charred stake 12 in. long under
it for Cor. to Secs. 33 and 34 S. T. R. from which
Black Oak 34 in. bears S. 31½° W. 150 lks. dist.
Elm 6 in. bears S. 51½° E. 17 lks. dist
Hickory 9 bears N. 54° E. 10 lks. dist
Black Walnut 23 bears N. 19½° W. 55 lks. dist
Johnson Cor. post bears N. 4°05' W. 2.25 chs.
Var. of needle 12°15' E.
Last mile broken & brushy with points of
Prairie as shown by the measurements, on
each Ravine noted there is some scattering
Timber consisting of Black Oak, Bur Oak, Elm
Hickory & Lynn.

June 14, 1855

Along the S. boundary of Sec. 33 West on a true line
Var. 12°15' E.

2 50 Enter Prairie, bears N. & S.

Base Line Range 18 E.

4

Chains

8 00 Enter Brush on Ravine N. 20° E. & S. 20° W.

10 00 Gully 100 lks wide & 8 ft deep bears N.

12 00 Enter Prairie bears N. & S.

24 00 Indian Trail from Roys Trading House to an Iowaay Village on the Nemaha about 3 miles westerly leads S.W. & N.E.

40 00 Set a post in a mound with a chamd stake under it from which the Cor. set by Johnson bears N. 1° 30' W. 299 lks. dist, this Cor. is a Crud bottom, Compared Chains with Standard & found them correct

42 00 Roys Branch 30 lks. wide & 2 ft deep, a sluggish stream without timber course N.

43 00 Enter swampy Prairie

59 00 Left same bears N.W. & S.W.

70 00 Enter same Swamp bears S.W. & N.E.

80 00 Set a post (with chamd stake 12 in. long) 2 feet in the ground in a Swamp as the ground at this point is covered with

Base Line Range 18 E.

Chains Water, I take the bearing & distance of the post in a mound set by Johnson as a suitable Witness point & find the same to bear N. 2° W. 135½ lks. dist. hence the Cor. to Secs. 32 & 33 as set by Johnson in the great Nemaha River bears from the Cor. set by me at 80.00 Chs as above N. 0° 54' W. 311 lks. dist.

1st 12 chs. brushy & broken by Ravines, the remainder of 1st ½ mile gently rolling Prairie Soil 1st quality, last ½ mile wet & swampy no timber, land unfit for Cultivation

Along the S. boundary of Sec. 32. West on a true line

35 00 A temporary post on the E. bank of Great Nemaha River from which after setting a post in line on the left or W. bank I run South 3.40 chains to a Station point from which the post on the left bank of the River bears N. 47° 06' W.

35 60 Water edge River 300 lks wide & 6 ft. deep

Base Line Range 18 E.

(15)

Chains

38 60 Left bank of River course N. 30° E.

38 66 Temporary post on W. bank from which we run West 134 lks. and set

40 00 Post in mound for 1/4 Sec. Cor. with chained stake 12 in. long under the Cor. post, from which Johnson Cor. bears N. 3° W. 447 lks. dist.

58 60 Great Nemaha River again. 6 ft. deep and runs S. 20° E. Water 270 lks. wide, obtained distance across by setting a post at 58.60 chs. on the left bank & a temporary post in line on the right bank; then from the post at 58.60 I run N. 2.00 chs. to a Station from which the post on the right bank bears

61 85 S. 58° 22' W. making the dist. to post on W. bank 58.60 + 3.25 = 61.85 chains

79 50 Struck the right bank of Great Nemaha again water 275 lks. wide & 8 ft. deep comes from due South and runs off N. 60° W.

80 00 Cor. in River inaccessible, hence to perpetuate the same set post in a mound with a

Base Line Range 18 E.

Chains

Chained stake 12 in. long under the post 100 lks. due East of said Sec. Cor. to Sec. 31 and 32 and marked & numbered the post & raised the Witness mound in the same manner as directed for Sec. Cor. on the Standard Parallels or correction lines. from a point 40 lks. W. of said Witness mound the Cor. set by Johnson for a Cor. to Sec. 31 and 32 bears N. 11° W. 5.20 lks. hence from true Cor. the bearing & dist. is N. 4° 24' E. 5.12 lks.

To obtain the dist. across the River I set a post in line on the left bank & from the station 40 lks. W. of the Witness Cor. or 60 lks. E. of Sec. Cor. I run North 344 lks. & find the post on the left bank to bear S. 41° 30' W. making the dist. between the two posts on the line 303 lks but as the post on the E. side of the River is 60 lks. E. of the Sec. Cor. the one on the W. side is 303 − 60 = 243 lks. W. of the Sec. Cor.

Last mile Soil 1st quality of Bottom Prairie but

Base Line Range 18 E.

Chains

(6)

Subject to inundation at high stages of Water

Along the S. boundary of Sec. 31

2 43 a temporary post on the W. bank of Nemaha River

4 81 Elm 26 in. dia.

34 49 Great Nemaha River water 200 lks. wide, 6 ft deep & runs S. set a temporary post, also a temporary post on right bank due W. of the 1st then from the post on right bank I run North 206 lks & find the post on left bank to bear S. 52° 20' E. marking the dist. between the posts 267 lks. Consequently at 34.49 + 267 = 37.16

37 16 a temporary post on right bank of River from which I run West 2.84 ch. and at

40 00 Set 1/4 Cor post in mound with a charred stake 12 in. long under the post from which Johnson Cor. bears N. 13° 39' W. 617 lks. dist.

49 56 Great Nemaha River again 206 lks. wide & 7 ft deep & runs N. 14° E. at 49.56 ch. set temporary post, also one due W. from it on left bank

Base Line Range 18 E.

Chains

then measured back from post on right bank due North 2.36 chs. from which the post on opposite bank bears N. 41° 10' W. making the dist between the posts 206 lks.

51 62 Temporary post on the left bank of River

52 36 Box Elder 8 in. dia.

71 67 Elm 32 in. dia.

73 28 Bur Oak 26 in. dia.

80 00 Set post with charred stake 12 in. long under it for Cor. to Township 1 N. Range 17 & 18 East of 6th P.M., from which

Bur Oak 17 in. dia. bears N. 15½° W. 8 lks. dist.

Bur Oak 22 in. dia. bears N. 54½° E. 37 lks. dist.

Bur Oak 16 in. dia. bears S. 24½° E. 117 lks. dist.

Bur Oak 13 in. dia. bears S. 16° W. 110 lks. dist.

Post set by Johnson bears N. 15° W. 736 lks. dist.

1st 1/4 mile Bottom Prairie subject to inundations

Soil 1st rate, last 1/4 timber consisting of Bur Oak, Elm, Bld. Walnut, Hackberry, Bld. Oak & Box Elder — good quality

June 15. 1855

Base Line Range 17 E.

Chains

Begin at Township Cor. between Ranges 17 + 18 E. & from it run West on a true line

Va. 13°07' E.

5 72 An Elm 8 in. dia.

16 50 Enter marshy Prairie bears S. 10° E. + N. 10° W.

30 00 Left marshy Prairie Enter Timber bears S. 10° E. + N. 10° W.

30 53 Elm 30 in. dia.

30 76 Elm 26 in. dia.

32 56 Set temporary post on left bank of Great Nemaha which is here 200 lks. with 8 ft. deep + runs due S. then Set post on line on W. bank from which I run North 171 lks. to a Station from which the post on E. bank bears S. 49°50' E. making the dist. between the posts on line 203 lks. hence at

34 59 Set temporary post on W. bank of River from which we measure West 5.41 Chs. farther to 1/4 C.

35 00 Enter Bottom Prairie N. 20° W. + S. 20° E.

40 00 Set post in mound with charred stake 12 in long under post for 1/4 Sec. Cor. on S. boundary of Sec. 36 from which the post in mound set by

Base Line Range 17 E.

Chains

Johnson bears N. 12½° W. 885 lks. dist.

44 00 Enter brushy upland bears N. E. + S. E.

64 00 Enter Rock Creek Bottom about 1.00 Ch. S. of a bend in Creek which here comes from N. 80° W. + runs N.

68 75 Rock Creek 60 lks. wide runs N. general Course N. E.

72 90 Indian Trail N. 45° E. + S. 45° W.

77 00 Enter Prairie N. W. + S.

80 00 Set Limestone Rock 20 x 8 x 4 (marked as per instructions + diagram) for Cor. to Secs. 35 + 36 from which the post in mound set by Johnson bears N. 9°45' W. 10.25 dist.

1st 15 Chs. 1st rate Timber mostly Bur Oak and Black Oak with a mixture of Elm, Hickory and Hackberry, from 15 to 30 Chs. marshy Prairie unfit for cultivation, from 30 to 35 Chs. a heavy growth of Elm with some Hickory, Black Walnut, Bur Oak + Hackberry, with but little Undergrowth Prairie Bottom on W. side of the Timber low and subject to inundation, the remaining 36 Chs. mostly covered with a thick growth of Hazel + vines

Base Line Range 17 E.

Chains

Soil good, needle subject to variation at every station, increasing to the E. bank of Rock Creek & decreasing after crossing it

Along S. boundary of Sec. 35 West on a true line

38 75 Wagon Road N. 25° W. & S. 75° E.

40 00 Set Limestone 30 x 8 x 4 for ¼ Sec. Cor. from which the post in mound set by Johnson N. 19° W. 11.57 ch. This Cor. near the head of small Branch runs S. 70° E.

46 50 Top of Ridge runs N. & S.

80 00 Set Limestone 26 x 10 x 4 for Cor. to Secs. 34 & 35 from which the post in mound set by Johnson bears S. 8° W. 12.84 ch. dist.

Tackmill Prairie gently rolling & sloping S. E. Soil 1st quality

Along S. boundary of Sec. 34 West on a true line

Var. 11° 40' E.

40 00 Set Limestone 24 x 9 x 2½ for ¼ Sec. Cor. from which the post in mound set by Johnson bears N. 7° W. 13.55 ch.

Base Line Range 17 E.

Chains

80 00 Set Limestone 20 x 10 x 6 for Cor. to Secs. 33 & 34 from which the post in mound set by Johnson bears N. 7° 15' W. 14.28 ch. (1st quality

High rolling Prairie. Soil Loam & Black Sand

Along S. boundary of Sec. 33

40 00 Set Limestone 22 x 9 x 3 for ¼ Sec. Cor. from which the Cor. set by Johnson bears N. 6° 30' W. 14.83 dist

80 00 Set Limestone 24 x 6 x 4 for Cor. to Secs. 32 & 33 from which the Cor. set by Johnson bears N. 6° 45' W. 15.04 ch. dist.

Dry rolling Prairie with a deep rich Soil

Along S. boundary of Sec. 32

40 00 Set Limestone 21 x 16 x 4 for ¼ Sec. Cor. from which the post in mound set by Johnson bears N. 7° W. 15.61 ch. dist

80 00 Set Limestone 20 x 8 x 4 for Cor. to Secs. 31 & 32 from which the post in mound set by Johnson bears N. 6° 50' W. 15. ch. dist

Base Line Range 16 E.

Chains

Gently rolling Prairie, Soil 1st rate

Along S. boundary of Sec. 31

3 80 Spring Branch 4 lks. wide Course N. W.

9 80 Hole in the Prairie with standing water 2 ft. deep

40 00 Set Limestone 32 x 9 x 2 for 1/4 Sec. Cor. from which the post in mound set by Johnson bears N. 7° W. 15.3[illegible]

80 00 Set Limestone 25 x 10 x 4 for Cor. to Secs. 36 & 31 Township 1 N. Range 16 & 17 E. from which Cor. set by Johnson bears N. 7° W. 15.38 chs. dist.

High rolling Prairie, Soil 1st quality

Var. of needle 10° 55' E.

Along S. boundary of Sec. 36 West on true line

Var. 10° 55' E.

31 50 Right bank of S. Fork of Great Nemaha 75 lks. wide & runs N. 30° W. general course N. Banks, 15 ft. high, Current rapid, water clear. 12 chs. N. of line a large grove of timber on this stream, another S. 3/4 of a mile

Base Line Range 16 E.

Chains

40 00 Set Limestone 18 x 6 x 5 for 1/4 Sec. Cor. from which [illegible] N. 7° W. 15.38 chs. dist. [illegible] Cor. to Secs. 35 & 36 [illegible] mound set by Johnson [illegible] on the last mile at [illegible] & N. 25° W.

[illegible] E.

[illegible] balance 2d Bottom

Jun. 16th 1855

[illegible] West on a true line

Var. 10° 42' E.

[illegible] 1/4 Sec. Cor. from which [illegible] Johnson bears [illegible] this Cor. about 4.00 ch. [illegible] W. & runs S. 70° E. [illegible] & S. 70° E. [illegible] the S. Fork of Nemaha [illegible] int an Indian Village [illegible] bears N. 5° E. and

Note in red ink
Then P 1-2-3-4 and 5
P 9 and 10 except last line.
Then Start new sheet Headed
"Base Line in Range 17 E"
But begin at x on P 21
and go to x on P 26

Base Line Range 16 E.

Chains

Gently rolling Prairie, Soil 1st rate

Along S. b

3 80 Spring Bra

9 80 Hole in th

40 00 Set Lime

the post in

80 00 Set Lime

Township

Cor. set b

High roll

Va.

Along S. b

31 50 Right b

wid & r

Branch, 1

12 Chs. N

this strea

Base Line Range 16 E.

Chains

40 00 Set Limestone 18 x 6 x 5 for 1/4 Sec. Cor. from which the Cor. post set by Johnson bears N. 7° W. 15.38 Chs. dist.

80 00 Set Limestone 20 x 10 x 5 for Cor. to Secs. 35 & 36 from which the post in mound set by Johnson bears N. 6° 40' W. 15.29 Chs. dist. on the last mile at

51 00 Indian Trail course S. 25° E. & N. 25° W.

59 50 Branch 7 lks. wide course N. E.

1st 20. Chs. dry rolling Prairie, balance 2d Bottom

Soil 1st quality June 16th 1855

Along S. boundary of Sec. 35. West on a true line

Va. 10° 42' E.

40 00 Set Limestone 20 x 10 x 5 for 1/4 Sec. Cor. from which the post in mound set by Johnson bears N. 6° 45' W. 15.16. Chs. dist. This Cor. about 4.00 Chs. N. of a Branch course from S.W. & runs S. 70° E.

52 00 Indian Trail leading N. 70° W. & S. 70° E.

75 00 Top of a high Ridge between the S. Fork of Nemaha & Pony Creek, from this point an Indian Village on S. side of Great Nemaha bears N. 5° E. and

Base Line Range 16 E.

Chains

The mouth of the S. Fork N. 43° E.

80 00 Set Limestone 22 x 8 x 5 for Cor to Secs. 34 + 35 from which the post in mound set by Johnson bears N. 7° 06' W. 15.08 chs. dist.

High dry Prairie, gently rolling. Soil 1st rat.

Along S. boundary of Sec. 34 West on a true line

26 00 Dividing Ridge between the waters of S. Fork + Pony Creek

27 00 Indian Village (as above) bears N. 15° E.

27 00 Mouth of S. Fork Nemaha bears N. 49½° E.

A stony mound in the Prairie bears N. 10° W.

Mouth of Pony Creek N. 26° E.

40 00 Set Limestone 20 x 12 x 3 for ¼ Sec. Cor. on the side of a Hill sloping W. Cor. set by Johnson bears N. 7° 10' W. 15 chs. dist.

80 00 Set Limestone 28 x 10 x 3 for Cor. to Secs. 33 + 34 from which the post in mound set by Johnson bears N. 7° 18' W. 14.87½ chs. dist.

High rolling Prairie, Soil 1st rat.

Base Line Range 16 E.

Chains

Along S. boundary of Sec. 33. West on a true line Va. 10° 35' E.

4 00 A high ridge runs N. + S.

30 00 Enter 2d Bottom land bears N. + S.

40 00 Set Limestone 16 x 14 x 3 for ¼ Sec. Cor. from which the post in mound set by Johnson bears N. 7° 50' W. 14.96

From this Cor. a point of Timber bears N. 2 chs. dist.

45 00 Enter Timber bears N. + S.

46 00 Creek Bottom

53 09 Elm 10 in. dia.

53 50 Pony Creek 40 lks. wide runs N. E. general Course N. banks from 7 to 12 ft. high, bed quick sand

56 00 Enter Prairie bears N. + S. 15° W.

80 00 Set Limestone 20 x 9 x 4 for Cor. to Secs. 32 + 33 from which the Cor. set by Johnson bears N. 8° 15' W. 14.41 chs. dist.

Last mile surface descending towards Creek Soil 1st rat. timber good on Creek Consisting of Bur Oak + Black Walnut in about equal proportions with a slight mixture of Elm

Base Line Range 16 E.

Chains

Hackberry & Hickory

Along S. boundary of Sec. 32 West on a true line

35 00 Stony mound aforesaid bears N. 55° E.

40 00 High mound bears S. 61° W.

Set Limestone 20 X 5½ X 5 for ¼ Sec. Cor. from which the stone set by Johnson bears N. 8° 12' W. 14.24 chs. dist.

80 00 Same high mound bears S. 22° W.

Set Limestone 20 X 11 X 3 for Cor. to Secs. 31 & 32 from which the stone set by Johnson bears N. 8° 20' W 13.75 chs. dist.

About ½ of the last ½ mile low wet Prairie, the remainder of this mile dry & rolling. Soil 1st quality

Along S. boundary of Sec. 31 West on a true line

40 00 Set Limestone 20 X 11 X 5 for ¼ Sec. Cor. from which the stone set by Johnson bears N. 8° 36' W. 13.24 chs.

60 00 Top of high Ridge in the Prairie extending N. W. & S. E. from this point a House on Pony Creek on the W. side of a large Grove of Timber S. 34½° W.

Base Line Range 15 E.

Chains

75 00 Indian Trail N. & S.

80 00 Set Limestone 24 X 10 X 5 for Cor. to Township 1. N. Ranges 15 & 16 E. from which the Cor. stone set by Johnson bears N. 8° 54' W. 12.72 chs. dist.

This Cor. on side of a Hill sloping S. W.

High rolling Prairie. Soil 1st rate, last ½ mile a little broken Va. of needle 10° 35' E.

Along S. boundary of Sec. 36 West on true line Va. 10° 35' E.

40 00 Set Limestone 15 X 10 X 4 (in low ground) for ¼ Sec. Cor. from which the stone set by Johnson bears N. 9° W. 12.87 chs. dist

Timber seen to the S. 1½ miles dist

80 00 Set Limestone 18 X 12 X 3 for Cor. to Secs. 35 & 36 (on a Southerly Slope) from which the stone set by Johnson bears N. 9° W. 13.20 chs. dist

Gently rolling Prairie. Soil 1st rate

Along S. boundary of Sec. 35 West on a true line

Base Line Range 15 E.

Chains

40 00 Set Limestone 20X8X3ft (on an E. slope) from which the stone set by Johnson bears N. 8°50' W. 13,53 chs. dist.

45 00 Top of a Ridge bears N. & S.

77 00 Bottom of Hollow descends S. 20° E.

80 00 Set Limestone for Cor. to Secs. 34 & 35 18X11X4 (on an E. slope) from which the Cor. set by Johnson bears N. 9° W. 13°38 chs. dist

Surface a continuous series of high Ridges & low Hollows with a S. slope. Soil good but liable to suffer badly from washing. Timber on Branch S. about ¾ mile dist

June 17, 1855

Along S. boundary of Sec. 34 West on true line
Var. 10° 45' E.

7 00 Top of Ridge runs S.E. & N.W. from this Station the large grove of Timber noted yesterday (at 60 chs. on S. line of Sec. 31, R. 16. E.) bears S. 40° E. and the House on Pony Creek S. 25° E.

Base Line Range 15 E.

Chains

40 00 Set Limestone 15X12X5 for ¼ Sec. Cor. from which the post in mound set by Johnson bears N. 8°54' W. 13,37 chs. dist. This Cor. on E. slope in the Prairie. Timber on Branch S. ½ mile

46 00 Top of Ridge bears N. & S.

80 00 Set Limestone 20X10X4 for Cor. to Secs. 33 & 34 from which a Cherry 6 in. dia. bears S. 7°30' E. 36 lks. dist a Burr Oak 5 in. dia. bears S. 41½° W. 30 lks. dist from this Cor. the post in mound set by Johnson bears N. 9° W. 13,27 chs. dist

East mile rolling Prairie sloping S. W. Soil 1st quality

Along S. boundary of Sec. 33. West on a true line
Var. 10° 58' E.

Entire Brush at Cor. bears N. W. & S. E.

3 00 Pond in Spring Branch 100 lks. wide & 2 ft. deep with rocky bottom. This Branch runs away 10 lks. wide, runs about S. 60° E. exterior with timber & Brush

6 00 Left grove of Brush bears N. W. & S. E.

Base Line Range 15 E.

Chains

15 00 Top of high Ridge covered with small stone bears N. & S.

24 00 Hollow in Prairie, descends N.

40 00 Set Limestone 20X10X3 (on E. slope) for 1/4 Sec. Cor. on S. line of Sec. 33 from which the stone set by Johnson bears N. 9° 36' W. 12.39 chs.

47 00 Top of Ridge slopes N.

53 00 Small grove of young timber 4 chs. N. of line on the Branch last crossed

67 25 Same Branch 8 chs. wide Course N. 55° E.

80 00 Set Limestone 27X7X3 for Cor. to Secs. 32 & 33 from which the rock set by Johnson bears N. 10° 42' W. 14.70 chs.

1st 1/2 mile hilly & stony Soil 2d rate

last 1/2 mile gently rolling Prairie Soil 1st rate

Along S. boundary of Sec. 32 West on a true line

Var. 10° 53' E.

17 00 Top of Ridge runs N. E. & S. W.

39 00 Small Branch Course N. W.

Base Line Range 15 E.

Chains

40 00 Set Limestone 16X11X4 for 1/4 Sec. Cor. from which the stone set by Johnson bears N. 11° 12' W. 11.03 chs.

47 00 W. Stony Ridge runs N. W. & S. E.

80 00 Set Limestone 21X11X2½ for Cor. to Secs. 31 & 32 from which the Cor. set by Johnson bears N. 11° 05' W. 10.55 chs. dist.

Surface very rolling Soil good. The top of the ridges covered with stone mostly lime

Along S. boundary of Sec. 31 West on a true line

40 00 Set Limestone 30X13X5 for 1/4 Sec. Cor. from which the rock set by Johnson bears N. 11° 39' W. 10.11 chs.

80 00 Set Limestone 28X12X4 for Cor. to Townships 1 N. Ranges 14 & 15 E. from which Johnson Cor. bears N. 12° 45' W. 9.62 chs.

Var. of Needle 10° 30' E.

Dry rolling Prairie, Soil 1st rate

Base Line Range 14 E.

Chains

Along S. boundary of Sec. 36 West on a true line
Ver. 10° 30' E.

40 00 Set Limestone 24 x 8 x 3 for ¼ Sec. Cor. from which
the elm set by Johnson bears N. 13½° W. 9.16 chs. dist.

52 00 Enter Timber in Creek Bottom bears N. & S.

55 50 Trail runs N. W. & S. E.

58 00 Settlers Cabin 4 chs. N. of line

58 30 A Creek 30 lks. wide with standing water 2 ft deep
course N. on W. bank a Limestone Quarry

59 00 Top of Bluff on W. bank of Creek, 25 ft high
extends N. & S.

60 00 Enter Prairie bears N. & S.

80 00 Cor. on E. side, Set Limestone 26 x 8 x 3 for
Cor. to Secs. 35 & 36 from which the Cor. set by
Johnson bears N. 14° W. 8.86 chs. dist
1st ½ mile 1st rate Rolling Prairie, next 20 chs. in
Creek Bottom, subject to overflow, Timber Elm
Burr Oak & Black Walnut 2d rate
West of the Timber the Soil is not so good
2d rate

Base Line Range 14 E.

Chains

Along S. boundary of Sec. 35 West on a true line

40 00 Set Limestone 18 x 16 x 4 for ¼ Sec. Cor. from which
the Cor. set by Johnson bears N. 14° 45' W. 8.16 chs.

52 00 Top of a high Ridge in the Prairie bears N. & S.

65 55 Bottom of Hollow descending N. W.

77 00 Top of a stony Ridge runs N. & S.

80 00 Cor. on a W. side Set Limestone 21 x 12 x 3
for Cor. to Secs. 34 & 35 from which the rock
set by Johnson bears N. 15° 25' W. 8.18 chs. dist
High rolling Prairie Soil 2d rate

Along S. boundary of Sec. 34 West on a true line

10 00 Small Branch runs N.

20 00 Top of a Ridge runs N. 20° E. & S. 20° W.

40 00 Set Limestone 14 x 10 x 4 for ¼ Sec. Cor. from which
the rock set by Johnson bears N. 15° 45' W. 7.72 chs.
This Cor. in a Hollow that descends N. W.

50 00 A high Ridge or point for the surface of which
is covered with Limestone rock & Flint,
Quartz, Granite, & Green Boulders

Base Line Range 14 E.

Chains

62 00 Branch 10 lks wide course N. a clear running stream. about ½ mile N. of line a considerable body of timber on this branch

80 00 Set Limestone 24 X 17 X 3 (on an E. slope) for Cor to Secs. 33 + 34 from which the Cor set by Johnson bears N. 18° 10' W. 6,93 chs dist. East mile all Prairie. surface hilly and broken, Soil 2d rate

Along S. boundary of Sec. 33 West on a true line
Var. 10° 35' E.

40 00 Set Limestone 24 X 14 X 5 for ¼ Sec. Cor from which the rock set by Johnson bears N. 19° 40' W. 6,34 chs dist. this Cor stands on a high stony point or bluff. 5 chs S. of a grove of timber in Creek Bottom

48 00 Crossed the head of Ravine 75 lks wide 10 ft deep course N.W. at this point the extreme head of the timber on this water course, further North it appears to be well wooded

Base Line Range 14 E.

Chains

62 00 Creek 20 lks wide, 2½ ft deep + runs N.E. water good current moderate

80 00 Set Limestone 27 X 10 X 5 for Cor to Secs 32 + 33 from which the rock set by Johnson bears N. 22° W. 5,56 chs dist. Var. 10° 30' E.
Surface broken hilly + stony, Soil 2d rate.
June 18, 1855

Along S. boundary of Sec. 32 West on a true line

4 00 A high point covered with small stones Viz. Flint, Quartz, Granite and Gneiss

6 50 Bottom of a deep Hollow

27 00 Top of a high Ridge

35 00 Bottom of a deep Hollow course N. 20° E.

40 00 Set Limestone 17 X 7 X 5 for ¼ Sec. Cor from which the rock set by Johnson bears N. 24° 36' W. 5,24 chs this Cor on top of a high Ridge running N. + S.

61 00 Top of a Ridge running N. + S.

69 50 Bottom of Hollow bears N. 20° E.

75 00 Top of Ridge runs N. + S.

80 00 Cor. on a W. slope, set Limestone 21 X 16 X 20 for Cor

Base Line Range 14 E.

Chains

to Secs. 31 and 32 from which the stone set by Johnson bears N. 27½° W. 467 lks. dist.
Surface rolling & hilly covered with small stone Flint, Quartz, Gneiss, Granite &c. Soil 2d to 3d rate

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Along S. boundary of Sec. 31 West on a true line

40 00 Set Limestone 22 x 15 x 3 for ¼ Sec. Cor. from which the Cor. set by Johnson bears N. 29½° W 410 ch. this Cor. on a Dividing Ridge between the water of Creek last crossed & the next Creek to Westward

80 00 Set Limestone for Cor. to Township 1 N. Range 13 & 14 E. 34 x 18 x 5 from which the rock set by Johnson bears N. 33° 25' W. 355½ lks. dist.

Va. of needle 10° 43' E.

1st ½ mile good soil not stony
last ½ mile over ridges abounding in Gravel and small stones

Base Line Range 13 E.

Chains

Along S. boundary of Sec. 36 West on true line

Va. 10° 43' E.

18 00 Small Branch course N. W.

28 50 Head of Ravine 20 lks. wide, 10 ft deep, course N. W.
Head of Timber on the same about 3 ch. N. W. of the crossing of the line

38 00 Top of high Ridge covered with small stone and Granite & Gneiss Boulders Course of Ridge N. W. & S. E.

40 00 Set Limestone 20 x 12 x 12½ for ¼ Sec. Cor. from which the rock set by Johnson bears N. 39° 36' W. 308 lks. dist.

80 00 Set Limestone 22 x 8 x 3½ for Cor. to Secs. 35 & 36 from which the Cor. set by Johnson bears N. 46° 15' W. 272 lks. dist. on the last mile at

46 00 Head of Timber on Ravine bears S. W. & N.

47 00 Limestone Bluff extends N. and S.

49 00 Spring Branch 5 lks. wide course N. clear running stream good water

57 50 Dry Ravine course N. 70° E

58 00 Entre Prairie bears N. E. & S. W. left Brush

65 00 A high gravelly Ridge. Timber on Branch just

Base Line Range 13 E.

Chains

just crossed seen N. 15° W. 25 chs.
Soil same as last mile 2d rate

Along S. boundary of Sec. 35 West on true line

19 50 Branch 5 lks wid course N.

40 00 Set Limestone 20X14X7 for 1/4 Sec. Cor. from which the rock set by Johnson bears N. 52°54' W. 249 lks. dist. this Cor. on an E. slope

80 00 Set Limestone 24X12X2 for Cor. to Secs. 34 + 35 from which the rock set by Johnson bears N. 60°50' W. 228 1/2 lks. dist.
High rolling Prairie, veined by Ridges covered with small stones, Soil 2d rate

Va. of needle 10°19' E.

Along S. boundary of Sec. 34 West on true line

Va. 10°19' E.

15 50 Bottom of Hollow course S.W.

20 00 Top of a Stony Ridge in the Prairie

40 00 Set Limestone 20X11X3 for 1/4 Sec. Cor. from which

Base Line Range 13 E.

Chains

the Cor. set by Johnson bears N. 71° W. 211 lks. dist.

Va. of needle 10° E.

47 00 Va. of needle 9°55' E.

72 50 Intersected the line run by John P. Johnson + found the bearing of the same to be S. 88°43' W.

80 00 Set Limestone 22X13X2 1/2 for Cor. to Secs. 33 + 34 from which the rock set by Johnson bears S. 85°47' W. 202 lks. dist.
High rolling Prairie, with stony ridges, Soil 2d quality

Along S. boundary of Sec. 33. West on a true line

13 00 Va. of needle 9°24' E. on a stony Ridge covered with Quartz, Sandstone, Gneiss, Granite, and Pyrites of Iron

28 00 left stony Ridge.

40 00 Set Limestone 20X12X3 for 1/4 Sec. Cor. from which the stone set by Johnson bears S. 59 3/4° W. 233 lks. this Cor. on beautiful smooth Prairie sloping to the S.W. Va. of the needle 9°25' E.

51 00 Enter Timber bears N. and S.

Base Line Range 13 E.

Chains

53 19 White Oak 30 in. dia. line strikes it about 6 inches from the S. Edge

56 30 Black Walnut 12 in. dia.

56 35 Left bank of 4 mile Creek 50 lks. wide 4 ft. deep standing Water course N.

58 00 Enter Arm of Prairie, bears N. & S.

67 50 Left Prairie bears N. & S.

67 97 Hickory 8 in. dia.

68 01 Hickory 8 in. dia.

75 30 W. Bank of 4 mile Creek (standing water) 20 lks. wide & 2 ft. deep course N. E.

76 48 Hickory 6 in. dia. enter Upland

77 00 Enter Prairie, bears N. & S.

80 00 Set Limestone for Cor. to Secs. 32 & 33, 18 X 10 X 3 from which the rock set by Johnson bears S. 54° 40' W. 280 lks. dist.

from 1/4 Sec. Cor. on S. line of this Sec. a Settlers Cabin bears S. 32 1/2° W. 8 1/4 Chs. dist. another S. 12° E. 20 chs. dist.

1st 30 chs. of this mile hilly & stony Soil 2d rate

Base Line Range 13. E.

Chains

The balance of the Prairie on both sides of the road gently undulating with 1st rate Soil. Timber on Creek Burr Oak, Elm, Black Walnut, and Hickory. fair 2d rate

Along S. boundary of Sec. 32, West on a true line

14 00 Crossed a point of a Ridge from N. W. with a S. slope covered with Quartz, Sandstone and Indurated Clay abounding in Fossils, Granite & Gneiss Boulders & Specimens of Iron

20 00 Small Branch 3 lks. wide runs S. E.

40 00 Set Limestone 20 X 10 X 4 for 1/4 Sec. Cor. from which the rock set by Johnson bears S. 35° 30' W. 350 lks. dist. this Cor. on good elevated Prairie

80 00 Set Limestone 30 X 10 X 3 1/2 for Cor. to Secs. 31 and 32 from which the rock set by Johnson bears S. 38° 58' W. 400 lks. dist. this Cor. in a low Swale whose course is N. E.

Soil of 1st quality and free from pebbles

Base Line Range 13 E.

Chains

Along S. boundary of Sec. 31 West on a true line

19 00 Wagon Road runs N. & S.

23 00 Crossed top of ridge dividing waters of Hamilton Creek and those of Great Nemaha

Var. of needle 10° 18' E.

40 00 Set Limestone 18x12x4 for 1/4 Sec. Cor. from which the rock set by Johnson bears S. 28° 51' W. 4.25 chs. dist. This Cor. is on W. slope of hill, Soil 1st quality Prairie

56 00 Struck a flat Bottom

65 00 Head of a small Branch running N. Westerly

66 00 Left the Bottom

80 00 Set Limestone 22x12x5 with mound of stone about it for Township Cor. to Township 1 N. Ranges 12 and 13 E. from which the rock set by Johnson bears S. 26° 45' W. 5.49 chs. this Cor. is on an E. slope. Var. of needle 10° 02' E. Rolling Prairie. Soil good

Base Line Range 12 E.

Chains

Along S. boundary of Sec. 36

Var. of needle 10° 02' E.

3 00 Crossed top of very high Ridge, Var. of needle 9° 55' E.

40 00 Set Limestone 16x8½x5 for 1/4 Sec. Cor. from which the rock set by Johnson bears S. 0° 32' W. 6.14 chs. dist.

Jan. 9th 1855

80 00 Set Limestone 20x10x3 for Cor. to Sec. 35 & 36 from which the rock set by Johnson bears S. 11° 54' W. 6.77½ chs. dist. from this Cor. a high Conical Mound bears S. 63° 18' E. 75.38 chs. dist. also another N. 75° E. 56.20 chs. dist. Soil 1st quality Prairie. Chiefly on a W. slope rather abrupt

Along S. boundary of Sec. 35. West on a true line

18 00 Ascertained by triangulation dist. across lake or Slough in the Nemaha Bottom by sending flag to West bank, I measured a base due North from line 2.82 chs. long, found the angle made by flag at N. End of Base S. 47° 45' W.

from which I find the dist. between stations on line to be 310 lks. Station on W. bank of lake 10 lks. W. from lake & the Width of Lake 2.25 ch.

18 75 Struck E. bank of Lake whose course is N. 10° W. & S. 10° E.

21 10 To West bank of Lake

21 10 Station to which took bearings

29 70 Wagon Road running parallel with Lake

34 40 Struck Great Nemaha River here 80 lks. wide about 3 ft. deep running Northerly with a rocky bottom, banks fringed with a slight growth of Elm and Cottonwood Trees

40 00 Set Limestone Rock 20 X 13 X 3 for 1/4 Sec. Cor. from which Johnson Cor. bears S. 15° 18' W. 7.42 lks. from this Cor. established by me a Burr Oak 7 in. dia. bears N. 74° 50' E. 147 lks. dist. a Burr Oak 7 in. dia. bears S. 77° 15' E. 148 lks. dist.

80 00 Set Limestone 24 X 16 X 2 for Cor. to Secs. 34 & 35 from which the rock set by Johnson bears S. 13° 39' W. 8.30 lks. dist. A Cabin of Mrs Barnes bears N. 15° W.

Base Line Range 12 E.

Chains

about 1/4 mile

Soil of 1st quality almost all Prairie

Va. of needle 10° 30' E.

Along S. boundary of Sec. 34, West on a true line

3 00 Crossed a Branch 3 lks. wide course N. side covered with bushes

13 00 Enter Bushes bears N. 20° E. and S. 20° W.

14 14 A Hickory 6 in. dia.

16 50 Crossed Barnes Branch 8 lks. wide runs N. E.

18 00 Left Bushes enter Prairie bears N. E. & S. W.

40 00 Set Limestone 22 X 15 X 3½ for 1/4 Sec. Cor. from which the rock set by Johnson bears S. 12° 18' W. 939 lks. dist. This Cor. on S. slope Prairie & 1st quality

80 00 Set Limestone 28 X 11 X 2 for Cor. to Secs. 33 & 34 from which Johnson Cor. bears S. 12° 30' W. 10.29 chs. dist. This Cor. about 4 chs. N. of head of Barnes Branch last 25 chs. are over stony points similar to the one West of 4 mile Creek

Base Line Range 12 E.

Chains

Along S. boundary of Sec. 33 West on a true line

3 00 A Stony Point slope N. W. found Sandstone abounding in fossil shells

40 00 Set Limestone Rock with monument of stone about it 18 X 16 X 2½ for ¼ Sec. Cor. from which Johnson Cor. bears S. 8° 48' W. 11.25 chs. dist. this Cor. is on a W. slope, the Soil with the exception of Stony Point of 1st quality

Var. of needle 11° E.

45 60 Crossed head of Branch running N. to Barnes Creek ½ mile north of this point, 10 chs. wide

68 00 Struck top of Ridge bears N. & S. Var. of needle 10° 30' E.

80 00 Set Limestone Rock 20 X 10 X 3 for Cor. to Secs. 32 & 33 from which Johnson Cor. bears S. 8° 36' W. 12.35 chs. dist. this Cor. on a W. slope, Soil of 1st quality

Along S. boundary of Sec. 32 West on a true line

16 50 Crossed head of small Branch runs N. 20° E.

33 00 Struck top of Ridge bears N. & S.

40 00 Set Limestone 24 X 14 X 3 for ¼ Sec. Cor. from which

Base Line Range 12 E.

Chains

Johnson Cor. bears S. 8° 51' W. 13.12 chs. dist. This Cor. near a Branch of 4 chs. wide runs N. Soil of 1st quality

80 00 Set Limestone 29 X 14 X 2½ for Cor. to Secs. 31 & 32 from which Johnson Cor. bears S. 8° 56' W. 14.96 chs. dist. This Cor. on a S. E. slope, Soil of 1st quality

Along S. boundary of Sec. 31, West on a true line

40 00 Set Limestone 26 X 14 X 2½ for ¼ Sec. Cor. from which Johnson Cor. bears S. 7° 20' W. 16.30 chs. dist.

80 00 Set Limestone 23 X 15 X 4 for Cor. to Townships 4 N. Range 11 and 12 E. from which Johnson Cor. bears S. 7° 06' W. 17.54 chs. dist.

Var. of needle 10° 30' E.

Note This Cor. is in head of Ravine course W. at 43.00 chs. on this Sec. crossed the dividing Ridge between the waters of Great Nemaha and Barnes Branch bears N. and S.

Base Line Range 11 E.

Chains

Along S. boundary of Sec. 36 West on true line

15 00 on a Ravine to S. is Timber bear E. & W.

17 90 Bur Oak 10 in. dia.

23 15 Elm 16 in. dia.

30 00 Left Timber on Ravine bear N.E. & S.W.

40 00 Set Limestone 26×11×2½ for ¼ Sec. Cor. from which Johnson Cor. bears S. 6°18' W. 18.01 Chs. dist. This Cor. is in a Hollow about 400 lks. North of head of Ravine

45 00 Struck top of high Ridge bear N. & S.

80 00 Set Limestone 18×11×4 for Cor. to Secs. 35 & 36 from which Johnson Cor. bears S. 4°18' W. 19.62 Chs. dist. Cor. in Prairie, 2d Bottom to Turkey Creek Soil of 1st quality Va. of needle 10°33' E.

June 20, 1855

On next day Va. of needle by reversed sight 10°53' E. same by same image with Burte Improved Solar Compass Turkey Creek Timber N. 2° W. 27.60 Chs. dist.

Along S. boundary of Sec. 35, West on a true line

Base Line Range 11 E.

Chains

14 00 Enter Brush

16 00 Enter Timber bear N. and S.

17 35 Struck Turkey Creek 60 lks. wide runs S. 1 ft. deep high steep banks, rocky bottom, clear water 12 rods S. of Creek bends to West & returns running Easterly to within 4 rods of said bend

21 81 Elm 18 in. dia. on right bank of Creek which here comes from S.E. & runs W.

25 00 Struck water edge of Creek on right bank thence line continued down the Creek in the water crossing diagonally, average depth 2 ft. width 60 lks.

32 50 Struck left bank of Creek running N. 80° W. width same

34 50 Struck left bank of Creek again opposite to mouth of a Branch from the N.W. Branch 20 lks. wide. Creek same width running S.W.

36 75 Struck right bank of Creek runs S. bank 20 ft. high perpendicular

38 75 Bank of same Branch 20 ft. high

Base Line Range 11 E.

Chains

39 25 Branch runs N. E.

39 35 Water edge of Branch right bank

40 00 10 lks South of – Set Limestone 21 X 8 X 3½
(the true Cor. falling in Water) for ¼ Sec. Cor.
from which a double Cottonwood bears S. 36° 30' W. 6 lks
a Cottonwood bears N. 45° 30' E. 92 lks,
Johnson Cor. bears S. 6° W. 20.89 chs. dist.

41 00 Left Branch coming from S. W.

42 25 Same Branch 10 lks. wide runs S. E.

43 25 Same Branch 10 lks wide runs N. E.

43 59 Hickory 9 in. dia.

44 00 Small same Branch 10 lks wide coming from
W. and running S. E. a small Branch from
S. W. skirted with timber, enters here

47 00 Bluff of Branch bears N. W. and S. E. Left
same & enter high rolling Prairie

80 00 Set Limestone 18 X 11 X 3 for Cor. to Secs. 34 & 35
from which Johnson Cor. bears S. 5° 15' W.
22.29 chs. dist. Var. of needle 10° 40' E.
Soil 1st quality, composed of both timber & Prairie

Base Line Range 11 E.

Chains

Along S. boundary of Sec. 34, West on a true line

40 00 Set Limestone 27 X 12 X 3 for ¼ Sec. Cor. from which
Johnson Cor. bears S. 5° 06' W. 23.58 chs. dist.
this Cor. is on a high ridge, Prairie of 1st quality

72 40 Crossed above Branch running N. 60° E. 5 lks wide

80 00 Cor. on S. slope, Set Limestone 24 X 9 X 3 for Cor. to
Secs. 33 & 34 from which Johnson Cor. bears
S. 5° 12' W. 24.80 chs. dist.

Var. of needle 10° 10' E.

Gently rolling Prairie, Soil 1st quality

Along S. boundary of Sec. 33, West on a true line

40 00 Set Limestone 17 X 12 X 2½ for ¼ Sec. Cor. from
which Johnson Cor. bears S. 5° 03' W. 25.55 chs. dist.
this Cor. is in small Bottom about 3 chs. N. of
same Branch runs E.

80 00 Set Limestone 28 X 13 X 2½ for Cor. to Secs. 32 and
33 from which Johnson Cor. bears S. 4° 38' W. 27.27 chs.
this Cor. in same Bottom, about 3 chs. N. of same
Branch runs E. Soil 1st quality, surface gently undulating

Base Line Range 11 E.

Chains

Along S. boundary of Sec. 32

40 00 Set Limestone 32 X 13 X 2½ for ¼ Sec. Cor. from which Johnson Cor. bears S. 4° 26' W. 28.49 Chs. dist. surface gently undulating. Soil of 1st quality

65 00 Point of Brushy Ravin runs N. W. 30 lks. wide 7 ft. deep

80 00 Left Prairie enter brushy point bears S. E. and N. Cor. in Hazel thicket Va. of needle 10° 27' E. Set Limestone 35 X 14 X 3 for ¼ Sec. Cor. from which Johnson Cor. bears S. 4° 33' W. 29.80 Chs. dist.

Along S. boundary of Sec. 31. West on a true line

6.48 Post Oak 18 in. dia

8 00 Bed of Branch runs N. W. 5 lks. wide now dry

13 00 Struck Top of Ridge bears S. E. and N. W.

15 00 Enter dense Thicket of Hazel, Vines & Brian

20 00 Enter Timber Consists of Bur Oak, Black Walnut & Hickory very fair growth interspersed with Lynn & Elm

23 50 Hickory 10 in. dia.

24 50 Struck Creek 10 lks. wide runs N. E.

25 00 Left Timber & entered Arm of Prairie bears N. & S.

Base Line Range 11 E.

Chains

40 00 Cor. in a thicket Set Limestone 24 X 14 X 3½ for ¼ Sec. Cor. from which Johnson Cor. bears S. 2° 50' W. 30.25 Chs. dist

44 00 Cross a Branch 4 lks. wide runs S. E. sides covered with Bushes

46 76 Elm 5 in. dia.

48 06 Post Oak 22 in. dia.

50 00 Left Brush on head of Ravin bears S. E.

80 00 Set Limestone 24 X 16 X 5 for Cor. to Township 1 N. Range 10 and 11 East from which Johnson Cor. bears S. 3° 38' W. 32.63 Chs. dist. Cor. on beautiful rolling Prairie. Soil of 1st quality

June 21st 1855.

Compared Chains with standard & found them correct, — Laid by — Sun being obscured by clouds. June 22d 1855

Base Line Range 10 E.

Chains

Along S. boundary of Sec. 36. West on true line
Began at Township Cor. Var. of needle 10°25' E.
12 00 Enter Timber bears N.W. and S.E.
14 50 Ravine bears S.
16 28 Elm 8 in. dia.
19 50 Elm 9 in. dia.
22 90 Struck Branch 10 lks wide comes from N.E.
runs S.E. general course S.E. Timber on it
consists of Elm, Hickory and Lynn
Left Timber, enter Brush
31 25 Struck same Branch 10 lks wide runs N.E.
33 00 Struck same 10 lks. wide runs S.
34 00 Enter Arm of Prairie - Timber on Ravine bears S.60° W.
and on the main Creek N. 70° W.
36 00 Enter Prairie
40 00 Set Limestone 21 X 13½ X 3 for ¼ Sec. Cor. from
which Johnson Cor. bears S. 3°46' W. 32,87 chs. dist.
Brush N. + S. of Cor. 3 chs. dist
Prairie high and rolling
57 00 Large Grove of timber on Creek N. 10 chs. dist

Base Line Range 10 E.

Chains

62 50 Enter Brush Timber on Ravine consisting of
Bur Oak, Elm, and Post Oak
64 10 Struck Branch 8 lks wide, course N.E. here is a
thick undergrowth of Hazel, Swamp Dogwood
and Vines
65 75 Same Branch 10 lks wide course S.E.
68 00 Left Bushy Point bears S.E. and N.E.
70 50 Struck Ravine
71 00 Same Branch 8 lks wide course N.E. enter Prairie
80 00 Set Limestone 21 X 12 X 2½ for Cor. to Sec. 35 + 36
from which Johnson Cor. bears S. 1°45' W. 34,12 chs.
This Cor. on a Hill sloping E. last mile Bushy
and broken, Soil of 1st quality

Along S. boundary of Sec. 35 West on a true line
40 00 Set Limestone 24 X 18 X 2½ for ¼ Sec. Cor. from which
Johnson Cor. bears S. 3° W. 35,59 chs. dist.
Prairie gently undulating Course 4 chs. N. of same
Branch runs E.
70 00 Struck top of Dividing Ridge bears N.W. and S.E.

Base Line Range 10 E.

Chains

Prairie gently undulating

80 00 Set Limestone 24 X 12 X 2½ for Cor. to Secs. 34 & 35 from which Johnson Cor. bears S. 2° 30' W. 36.48 chs. dist. Timber 20 chs. to S. Prairie gently undulating Soil of 1st quality

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Along S. boundary of Sec. 34 West on a true line

40 00 Set Limestone 24 X 12 X 2½ for ¼ Sec. Cor. from which Johnson Cor. bears S. 2° 48' W. 38.50 chs. dist. Timber 20 chs. to the South

67 00 Ravine bears S. Milk or Branch S. dist. 4 chs.

80 00 Set Limestone 28 X 7 X 7 for Cor. to Secs. 33 and 34 from which Johnson Cor. bears S. 2° W. 39.50 chs. dist. This Cor. is about 10 rods N. of Brush or Branch

Va. of needle 10° 50' E.

Along S. boundary of Sec. 33 West on a true line

10 00 Enter Brush bears N. 80° W. and S. 80° E.

19 95 Black Walnut 4 ins. dia.

30 30 Struck Creek 10 lks. wide course S. E.

Base Line Range 10 E.

Chains

34 00 Struck same 10 lks. wide 10 ft. deep course N. E.

35 25 Struck same 20 lks. wide course S. E.

36 00 Left brushy meadow consists of Elm, Cottonwood & Black walnut

40 00 Set Limestone 25 X 12 X 2½ for ¼ Sec. Cor. from which Double Elm 14 ins. dia. bears N. 19° 30' W. 4 lks. dist. Elm 6 ins. dia. bears S. 20° E. 16 lks. dist. Johnson Cor. bears S. 2° 07' W. 41.12 chs. dist. The stone itself at Johnson C. was not found but merely a hole with small pieces of stone near it. This Cor. is in a Ravine & near a small Brush, south

41 20 Struck Creek again 30 lks. wide same dir. 7° E.

43 50 Struck same 30 lks. wide course S. E.

44 00 Entered open Prairie

51 00 Struck a Ravine 10 ft. deep 10 lks. wide

58 00 Struck a Ravine dry course N.

80 00 Set Limestone 30 X 10 X 2½ for Cor. to Secs. 32 & 33 from which Johnson Cor. bears S. 2° 10' W. 42.60 chs. Soil of 1st quality

Base Line Range 10 E.

Chains

Along S. boundary of Sec. 32 West on a true line

10 00 Crossed a Ravine

31 00 Crossed a Ravine Course N.

40 00 Set Limestone 24X15X3 for 1/4 Sec. Cor. from which Johnson Cor. bears S. 2° W. 43.80 chs. dist.

This Cor. on W. slope, Crust 5 chs. N. runs E.

72 30 Crossed Branch runs N. 70° E. 7 lks. wide

80 00 Cor. in Prairie Bottom on N. side of Branch from which Johnson Cor. bears S. 2°10' W. 45.77 chs. dist.

At this point for Cor. to Secs. 31 & 32

Set Limestone 28X14X2.

All Prairie, good Soil

Along S. boundary of Sec. 31 West on a true line

2 30 Crossed same Branch runs S. E. Prairie low & wet

4 70 Crossed same 7 lks. wide Course N. E.

6 00 Crossed same Course S. E.

24 00 Crossed same Course N. E.

38 00 Crossed same Course S. E.

40 00 Set Limestone 31X14X3 for 1/4 Sec. Cor. from

Base Line Range 10 E.

Chains

which Johnson Cor. bears S. 1°57' W. 46.97 chs. dist.

70 00 Crossed Dividing Ridge between waters of Great Nemaha and Vermillion

80 00 Set Limestone 27X16X2½ for Cor. to Township 1 N. Range 9 and 10 E. from which Johnson Cor. bears S. 1°54' W. 48.18 chs. dist.

This Cor. is on Dividing Ridge

Prairie level, Soil light and of 2d quality

Range 9 E.

Along S. boundary of Sec. 36 West on a true line

Var. 10°30' E.

40 00 Set Limestone 29X15X3 for 1/4 Sec. Cor. from which Johnson Cor. bears S. 1°48' W. 49.40 chs. dist.

80 00 Set Limestone 29X14X2 for Cor. to Secs. 35 and 36 from which Johnson Cor. bears S. 1°40' W. 50.92 chs.

Prairie generally level or slightly rolling

Soil of 2d quality

Base Line Range 9 E.

Chains

Along S. boundary of Sec. 35 West on a true line

31 50 Crossed a Branch 8 ch. wide runs N. W.

40 00 Set Limestone 22 X 10 X 5 for ¼ Sec. Cor. from which Johnson Cor. bears S. 1° 35' W. 52.27 ch.

80 00 Set Limestone 24 X 13 X 2½ for Cor. to Secs. 34 & 35 from which Johnson Cor. bears S. 1° 31' W. 53.63 ch.

Prairie mostly broken of 2d quality

Along S. boundary of Sec. 34 West on a true line

40 00 Set Limestone 29 X 16 X 3 for ¼ Sec. Cor. from which Johnson Cor. bears S. 1° 25' W. 54.95 ch. dist.

June 23d 1855

80 00 Set Limestone 27 X 16 X 2½ for Cor. to Secs. 33 & 34 from which Johnson Cor. bears S. 1° 30' W. 56.25 ch.

Prairie rolling of 2d quality

Along S. boundary of Sec. 33 West on a true line

40 00 Set Limestone 33 X 14 X 2½ for ¼ Sec. Cor. from which Johnson Cor. bears S. 1° 33' W. 57.52 ch. dist.

74 50 Wagon Road N. W. and S. E.

Base Line Range 9 E.

Chains

80 00 Set Limestone 36 X 14 X 3 for Cor. to Secs. 32 & 33 from which Johnson Cor. bears S. 1° 35' W. 58.79 ch.

Prairie rolling. Soil with better

Along S. boundary of Sec. 32 West on a true line

40 00 Set Limestone 28 X 16 X 2½ for ¼ Sec. Cor. from which Johnson Cor. S. 1° 27' W. 60.06 ch. dist.

80 00 Set Limestone 38 X 12 X 3 for Cor. to Secs. 31 & 32 from which Johnson Cor. bears S. 1° 28' W. 61.41 ch. dist.

This Cor. on edge of a stony Ridge. Prairie rolling Soil still improving, has some fertile slope

Along S. boundary of Sec. 31 West on a true line

12 00 Enter Brush bears N. W. and S. E.

14 50 Crossed S. Fork of Elm Creek runs N. W. about 4 ft wide, water in standing pools

21 00 Enter Prairie bears N. W. and S. E.

40 00 Set Limestone 24 X 15 X 3 for ¼ Sec. Cor. from which Johnson Cor. bears S. 1° 25' W. 62.30 ch. dist.

46 00 Struck bend in Creek bears N. Timber on N. side

Base Line Range 9 E.

Chains

consisting of Elm, Cottonwood, with a few Bur Oak

47 50 Leave Bend

64 00 Crossed Branch 10 ex. wide run N. fringed with scattering Elm & Cottonwood

80 00 Set Limestone 4 8 X 18 X 6 for Cor. to Township 1 N & 1 S. & Range 8 & 9 E.

This Cor. being distant 60 miles from monument on Missouri River and the point at which commences the Guide Meridian extending North and South from which Johnson Cor. bears S. 1°30' W. 63.18 chs.

The Cor. is on a low spot on a Prairie 2d Bottom North of high Bluff near the top of which large quantities of Rock out Crop

Land consists of both Prairie & Timber latter not of a very superior quality; Prairie gently rolling or level of 1st quality, Var. of needle 10°07' E.

Compared the Instrument used on the line with that belonging to Surveyor General Office (now in possession of Joseph Sedlin Deb. Sur. U. S.

Base Line Range 9 E.

and found them both to trace the same Meridian

Compared Chains used in measuring with Standard & found them 1/8 of an inch too long.

The entire line run with Burt's Improved Solar Compass. no other Instrument having been used

The dist. to the Corners established by Johnson were double chained at Township Corners only or once in 6 miles.

Base Line chained by two sets of Chainmen the one following in the rear of the other

No marks are placed on any Cor. bearing tree, Witness post, Mound, Cor. Stone or post to indicate the number of Sec. Township or Range on South side of Base Line

June 24th 1855

Contract No. 108 – date March 28 1856
Chas. A. Manners. From the Guide Meridian
(between Ranges 8 and 9 E) West on 40° N Latitude
to the intersection of the 6th Principal Meridian
between Range 1 E. and Range 1 W.

Commenced June 6th 1856
Completed June 11th 1856

Base Line Range 7 E.

Chains

18 76 Set temporary post on left bank of Big Blue River, To obtain dist. across I set temporary post in line on right bank from which I measure dis. S. 5,56 chs from which the post at the station on left bank bear N. 45° E. which equals the dist. between the two posts in line on the right & left banks, hence 18,76 + 5,56 = 24,32

24 32 Set temporary post on right bank of Big Blue River course of River S. 60° E. water about 2 ft. deep, current rapid, gravel bottom & high bank. Entire Prairie bear N. 60° W. & S. 60° E.

June 6, 1856

Begin at the station at 24,32 chs. & run West 15,68 chs. and at

40 00 Set Sandstone 16×10×9 (near a bend in a Creek) for 1/4 Sec. Cor.

61 10 Leave Prairie & enter Timber bears S. E. & N. E.

62 26 Pond in a Branch 120 lks. wide, course of Branch S. W., general course S. E.

Base Line Range 7 E.

Chains

65 50 Leave Bottom & ascend Hill bear N.W. & S.E.
67 00 Leave Timber & enter Prairie bear N.W. & S.E.
70 00 Top of a Stony Point sloping N.
77 80 A Branch 5 lks. wide Course N.E.
80 00 Set Limestone 18X12X9 for Cor. to Secs. 34 & 35
on the brow of a rocky Hill which bears N.E. & S.W.
1st 65 Chs level Bottom, Soil 1st rate, remainder
hilly & stony, unfit for cultivation
Timber Bur Oak, Elm, Walnut, Lynn
mulberry and Hackberry

Along S. boundary of Sec. 34 West on a true line
Va. 10° 30' E.

3 37 Top of a rocky Precipice 30 ft. high bears N.W. & S.E.
9 00 Bottom of a Hollow bears S.W. & S.E.
10 25 Foot of rocky Bluff bears S.W. & S.E.
11 30 Top of same
17 25 Drain course S.E.
28 50 Same Drain course N.E.
31 90 Same Drain course S.E.

Charles

Base Line Range 8 E.

Chains

Begin at the intersection of Base Line and
Guide Meridian at N.W. Cor. of Township 16.
Range No. 9 East of the 6th Principal Meridian
and from thence run
Along S. boundary of Sec. 36, T. 16 N., R. 8 E., West on a
true line
Va. 10° 25' E.

Note The difference of Va. of needle at this point since
the 28th of June 1855 as shown by the same instru-
ment tracing the same line is 0° 18' perhaps
it is partly to be attributed to diurnal variation

10 90 Leave Prairie enter timber bears S. 15° W. & N. 20° E.
11 06 Elm Creek 20 lks. wide course S.W.
18 90 Same Creek 60 lks. wide 7 ft. deep banks steep &
miry. Course N. 50° W.
22 25 Same Creek 60 ft. wide water stagnant 8 ft. deep
Course S. left timber bears N.E. & S.W. enter Prairie
40 00 Set Limestone 22X8X6 for 1/4 Sec. Cor.
80 00 Set Limestone 30X9X6 for Cor. to Secs. 35 & 36
1st 25 chs. Bottom land, remainder gently rolling
Soil 2d rate, Timber on Creek Elm Oak & Bur Walnut

Base Line Range 8 E.

Chains

Along S. boundary of Sec. 35. West on a true line
Va. 10° 20' E.

40 00 Set Limestone 22x9x5 for ¼ Sec. Cor.
42 00 Drain Course S.W.
59 50 Drain Course S.
74 00 Top of a Ridge bears N. & S.
80 00 Set Limestone 18x10x6 for Cor. to Secs. 34 & 35
Land gently rolling Prairie. Soil 2nd rate

Along S. boundary of Sec. 34 West on a true line
Va. 10° E.

16 00 A Branch 7 lks wide Course S.W.
19 50 Same Branch 7 lks wide Course N.W.
26 25 Same Branch 7 lks wide Course S.W.
40 00 Set Limestone 21x9x6 for ¼ Sec. Cor.
49 00 Top of a Hill bears N. & S.
58 90 Drain Course S.
64 00 Top of a Ridge bears N. & S.
80 00 Set Limestone 22x14x5 for Cor. to Secs. 33 & 34
Land gently rolling 2nd rate

Base Line Range 8 E.

Chains

Along S. boundary of Sec. 33 West on a true line
Va. 9° 57' E.

31 50 Right bank of Elm Creek 40 lks wide bears S.E. and N. 60° W.
33 00 Left bank
33 50 Left bank of Elm Creek again 50 lks wide 3 ft deep very little current Course S. 70° W.
34 50 Right bank enters Timber bears N. 70° W. & S.E.
35 80 A Branch 10 lks wide Course S.W.
40 00 Set Limestone 28x8x5 for ¼ Sec. Cor. from which
An Elm 18 in. dia. bears S. 34½° W. 111 lks. dist.
An Elm 16 in. dia. bears N. 21° W. 152 lks dist
Compass measuring chains June 5th 1886 with standard found correct
42 30 Elm Creek 60 lks wide Course N. 30° E. water 2 ft deep no current perceptible
48 00 Left bank of same Creek (in a bend) bears N.E. and N.W.
52 50 Foot of a rocky Bluff bears N. 20° W. & S. 20° E.
53 00 Top of same 30 ft high left timber bears N.W. & S. 60° E.

Base Line Range 8 E.

Chains

54 00 Ravine 80 lks wide & fifteen ft deep course N.

56 00 Ravine 60 lks wide & 10 ft. deep course N.

80 00 Set Limestone 28 X 14 X 4 for Cor. to Secs. 32 & 33

Land level in the immediate vicinity of the creek remainder rolling. Soil 2d rate

Elm, Bur Oak & Black Walnut timber skirting the creek

Along S. boundary of Sec. 32, West on a true line

Var. 10° 20' E.

10 00 Set Limestone 20 X 12 X 8 for 1/4 Sec. Cor.

59 50 Drain course N.

80 00 Set Limestone 22 X 13 X 2 for Cor. to Secs. 31 & 32

from which

a Black Walnut 20 in. dia. bears S. 85½° W. 83 lks. dist.

a Bur Oak 8 in. dia. bears S. 8¾° E. 85 lks. dist.

a Bur Oak 24 in. dia. bears N. 23° W. 29 lks. dist.

No other tree convenient to mark

Enter timber bears N. E. & S. W.

Rolling Prairie 2d rate

Base Line Range 8 E.

Chains

Along S. boundary of Sec. 31. West on a true line

Var. 10° 30' E.

2 64 Elm Creek 40 lks wide course S. 70° W. water stagnant 10 ft deep (bottom miry

5 00 Same Creek 50 lks wide water 2 ft deep. Course N. W.

6 00 Foot of rocky Bluff 60 ft high, bears N. W. & S. E.

7 60 Top of Bluff

Learn Timber, enter Prairie bears N. W. & S. E.

16 50 Dry Ravine fringed with scrubby Bur Oak Course N.

18 50 Ravine 100 lks wide and 10 ft. deep, banks fringed with scrubby Bur Oak, course N. E.

40 00 Set Limestone 20 X 8 X 5 for 1/4 Sec. Cor.

80 00 Set Limestone 23 X 10 X 5 for Cor. to Townships N. Ranges 7 and 8 E. from which Johnson Cor. bears S. 2° 15' W. 41.36 chs.

Gently rolling Prairie, Soil 3d rate

Timber on Elm Creek consists of Bur Oak, Elm, Cedar, Walnut and Sycamore of ordinary quality

Base Line Range 7 E.

Chains

Along S. boundary of Sec. 36 West on true line
Va. 10° 33' E.

33 25 Indian trail from Otoe Village to Marysville N. & S.
40 00 Set Limestone 23X10X5 for 1/4 Sec. Cor.
49 50 Ravine 100 lk. wide course S.W.
70 00 Same rolling land, entire level Bottom bears N. & S.
72 25 Indian trail N. 20° E. & S. 20° W.
80 00 Set Limestone 22X10X6 for Cor. to Secs. 35 & 36
from which
An Elm 24 in. dia. bears S. 25 1/4 W. 103 lks. dist
no other true concurrent
Rolling Prairie except last 10 chs. which is level
Soil 2d rate

Along S. boundary of Sec. 35, West on a true line
Va. 10° 30' E.

2 00 Enter timber bears S. E. & N.
4 60 Elm Creek 60 lks. wide course S. 35° W. about 5.00 chs
to its mouth, water 2 ft. deep & current moderate
17 91 Maple 22 in. dia. left timber N. 60° W. & S. 60° E.

(Page 75 comes after 78)

Base Line Range 7 E.

Chains

40 00 Set Sandstone 22X10X4 for 1/4 Sec. Cor.
45 80 Same Drain Course N. E.
68 00 Top of a Ridge bears N. E. & S. W.
80 00 Set Limestone 30X10X6 (in low Bottom) for Cor.
to Secs. 33 & 34
Rolling Prairie, Soil 2d rate

Along S. boundary of Sec. 33 West on true line
Va. 10° 33' E.

40 00 Set Sandstone 22X10X4 for 1/4 Sec. Cor.
80 00 Set Limestone 21X10X5 for Cor. to Secs. 32 & 33
Land gently rolling Prairie fair 2d rate

Along S. boundary of Sec. 32 West on true line
Va. 10° 45' E.

3 00 Drain Course S.
31 25 Drain Course S.
40 00 Set Limestone 18X10X7 for 1/4 Sec. Cor.
58 70 Drain Course S.
73 00 Drain Course S.

Base Line Range 7 E.

Chains

78 90 Drain course S. E.

80 00 Set Limestone 24X12X2 for Cor. to Secs. 31 + 32
Gently rolling Prairie. Soil 3d rate

Along S. boundary of Sec. 31, West on a true line
Var. 10°57' E.

13 00 Drain course S. W.

27 20 Drain course S. E.

30 00 Drain course N. E.

40 00 Set Limestone 18X10X3 for 1/4 Sec. Cor.

80 00 Set Limestone 32X5X5 for Cor. to Township 1 N.
Range 7 + 6 E. from which the corresponding
Cor. set by Johnson bears S. 3°41' W. 81.12 Chs. dist.
Gently rolling Prairie. Soil 3d rate

Base Line Range 6 E.

Chains

Along S. boundary of Sec. 36, West on a true line
Var. 11° E.

4 50 Drain course S.

12 30 Drain course S. 30° W.

35 00 Drain course S. 15° W.

40 00 Set Limestone 17X14X3 for 1/4 Sec. Cor.

72 00 Creek 15 lks. wide, miry bottom + banks, course S.

74 00 Struck bend of same Creek again course W. N.

75 00 Left Right bank again course S.

80 00 Set Limestone 20X11X4 for Cor. to Secs. 35 + 36
Land rolling. Soil 3d rate. banks of Creek skirted
with Elm, Walnut and Cottonwood
Compared measuring chains with Standard
& found them correct June 7. 1856

Along S. boundary of Sec. 35 West on a true line
Var. 11°06' E.

40 00 Set Granite Boulder (so hard that I was unable
to mark it) 14X9X7 for 1/4 Sec. Cor.

43 20 A Branch 8 lks. wide run S. E.

Base Line Range 6 E.

Chains

45 00 Same Branch 8 lks wide runs N.

47 00 Same Branch 8 lks wide runs S.E.

general course S. 10° E.

60 00 Top of a Ridge bears S.E. & N.W.

67 90 A Branch 5 lks wide course S.E.

80 00 Set post in mound & deposited Charred stake as per instruction for Cor. to Sec. 34 & 35

Gently rolling Prairie. Soil 1st rate

Along S. boundary of Sec. 34 West on a true line

Var. 11° 27' E.

34 00 Top of a Ridge bears N.E. & S.W.

40 00 Set post in mound & deposited Charred stake as per instruction for 1/4 Sec. Cor.

49 50 Drain course S. 30° W.

53 00 Drain course S.

63 00 Top of a Ridge bears N. & S.

80 00 Set post in mound & deposited Charred stake as per instruction for Cor. to Sec. 33 & 34

Gently rolling Prairie. Soil 2d rate

Base Line Range 6 E.

Chains

Along S. boundary of Sec. 33 West on a true line

Var. 11° 35' E.

11 10 A Branch 10 lks wide course S. 20° W.

18 80 A Drain course S.E.

40 00 Set post in mound & deposited Charred stake as per instruction for 1/4 Sec. Cor.

46 70 Drain course S.

65 80 Drain course S.

74 00 Drain course N. 80° W.

80 00 Cor. in bottom of a Drain which descends S. as the Cor. cannot be permanently located at this point, I therefore measure due West from the corner 100 lks. where I set a post in mound & deposited Charred stake as per instruction for Witness Cor. to Secs. 32 & 33

Gently rolling Prairie. Soil 3d rate

Along S. boundary of Sec. 32 West on true line

Var. 12° E.

16 90 Drain course S.

Base Line Range 6 E.

Chains

40 00 Set post in mound & deposited a charred stake as per instructions for 1/4 Sec Cor.

80 00 Set post in mound & deposited charred stake as per instructions for Cor. to Secs. 31 & 32.

Rolling Prairie Soil 2d rate

Along S. boundary of Sec 31 West on true line
Va. 12° 03' E.

11 30 Branch 8 ch. wide course S.E.

15 10 Same 8 ch. wide course N.W.

18 50 Same 8 ch. wide course S.W.

20 20 Branch 10 ch. wide course S.W. general course S.E.

37 00 A Ridge bears N. & S.

40 00 Set Limestone 18x9x4 for 1/4 Sec Cor.

44 10 Drain course S.

69 35 Drain course S.

80 00 Set Limestone 22x5x5 for Cor. to Township 1 N. Ranges 5 & 6 E. from which the corresponding Cor. set by Johnson bears S. 4° 07' W. 90.79 ch. dist.

Gently rolling Prairie Soil 2d rate

Base Line Range 5 E.

Chains

Along S. boundary of Sec. 36 West on true line
Va. 12° 03' E.

40 00 Set Limestone 22x7x5 for 1/4 Sec. Cor.

46 00 Drain course S.E.

55 10 Same course N.E.

80 00 Set Limestone 20x10x7 for Cor. to Secs. 35 & 36

Gently rolling Prairie Soil 3d rate

Along South boundary of Sec 35. West on true line
Va. 12° E.

12 50 Drain course S.W.

40 00 Set Limestone 20x9x4 for 1/4 Sec. Cor.

73 20 Drain course S.

80 00 Set Limestone 22x10x4 for Cor. to Secs. 34 & 35

Rolling Prairie Soil 3d rate

Along S. boundary of Sec. 34 West on true line
Va. 12° 15' E.

8 40 Drain course S.

20 05 Drain course S.E.

Base Line Range 5 E.

Chains

39 50 Drain Course S.E.

40 00 Set Limestone 20 X 8 X 4 for 1/4 Sec. Cor.

51 50 Drain Course N.E.

66 75 Same Drain Course S.E.

80 00 Set Limestone 22 X 10 X 5 for Cor. to Secs. 33 & 34

Gently rolling Prairie, from 2d to 3d rate

Along S. boundary of Sec. 33, West on a true line

Var. 12° E.

40 00 Set Limestone 22 X 7 X 7 for 1/4 Sec. Cor.

45 50 Drain Course S.W.

78 40 A Branch 15 lks. wide course S.W. general course S.E. the banks of this Branch fringe with Brush & scattering Cottonwood & Elm

80 00 Set Limestone 23 X 5 X 5 for Cor. to Secs. 32 & 33 from which

An Elm 20 in. dia. bears S. 55° E. 64 lks. dist.

A Cottonwood 28 in. dia. bears S. 9° W. 116 lks. dist.

An Elm 24 in. dia. bears N. 33° W. 168 lks. dist.

No other Trees convenient, Rolling Prairie, Soil 3d rate

Base Line Range 5 E.

Chains

Along S. boundary of Sec. 32 West on a true line

Var. 12° E.

40 00 Set Limestone 24 X 8 X 4 for 1/4 Sec. Cor.

80 00 Set Limestone 27 X 5 X 5 for Cor. to Secs. 31 & 32

Gently undulating Prairie, Soil 2d rate

Along S. boundary of Sec. 31 West on a true line

Var. 12° E.

25 00 Top of Dividing Ridge between the waters of Big & Little Blue Rivers bears N. & S.

40 00 Set Limestone 22 X 8 X 5 for 1/4 Sec. Cor.

49 00 Military Road from Ft. Leavenworth to Fort Kearney & Laramie bears N. 40° W. & S. 30° E.

80 00 Set Limestone 24 X 8 X 5 for Cor. to Townships 1 N. Ranges 4 & 5 E. from which the corresponding Cor. set by Johnson bears S. 3° 27' W. 101.91 chs.

Rolling Prairie, Soil 2d rate

Base Line Range 4 E.

Chains

Along S. boundary of Sec. 36 West on a true line
Va. 11°30' E.

27 05 Branch 10 lks wide course S. 20° W.
40 00 Set Limestone 23X8X7 for 1/4 Sec. Cor.
(on a high Ridge)
58 25 Drain course N. W.
70 00 Same Drain course S. W.
78 90 A Branch 15 lks wide banks fringed with Bushes
course S. W.
80 00 Set Sandstone 19X11X4 for Cor. to Sec. 35 & 36
Rolling Prairie, Soil 2d rate

June 8, 1856

Compared measuring chains with Standard
& found them correct

Along S. boundary of Sec. 35, West on true line
Va. 11°30' E.

19 10 Drain course S. E.
40 00 Set Sandstone 22X15X8 for 1/4 Sec. Cor.
41 75 Drain course S.

Base Line Range 4 E.

Chains

80 00 Set Sandstone 20X10X4 for Cor. to Sec. 34 & 35
Gently rolling Prairie. Soil 2d rate

Along S. boundary of Sec. 34, West on a true line
Va. 11°30' E.

7 20 Drain course S. 30° W.
30 40 Drain course S. E.
34 15 Same Drain course N. E.
40 00 Set Sandstone 21X14X4 for 1/4 Sec. Cor.
44 55 Drain course S. E.
80 00 Set Sandstone 24X14X4 for Cor. to Sec. 33 & 34
High rolling Prairie, Soil 2d rate

Along S. boundary of Sec. 33, West on true line
Va. 11°30' E.

8 85 Drain course S. W.
26 00 Top of Ridge bears N. E. & S. W.
34 57 Pole 20 lks North of a mound (pit on East side)
in the West boundary of the Otoe & Missouri
Indian Reserve

Base Line Range 4 E.

Chains

40 00 Set Sandstone 20X11X3 for 1/4 Sec. Cor.
43 10 Drain course S. 10° W
80 00 Set Sandstone 21X15X4 for Cor. to Sec. 32 + 33
High rolling Prairie. Soil 2d rate

Along S. boundary of Sec 32 West on a true line
Var. 11° 30' E.

38 00 Drain course S. W.
40 00 Set Sandstone 20X11X4 for 1/4 Sec. Cor.
51 00 Left rolling land, enter 2d Bottom bear N. + S.
74 75 Enter Bottom subject to inundation bear N. + S.
80 00 Set Sandstone 21X12X5 for Cor. to Sec. 31 + 32
1st 51 Ch. rolling land, 2d rate, remainder level 1st rate

Along S. boundary of Sec. 31. West on a true line
Var. 11° 30' E.

2 70 00 marked Cottonwood 14 in. dia. 1 Ch. North of the intersection of the line with the left bank of Little Blue River, which bears S. 10° E. + N. 10° W.
4 43 Set temporary post on right bank of River

Base Line Range 4 E.

Chains

13 Ch. from water edge. Breadth of stream 160 Lks. water 2 1/2 ft. deep, bottom quicksand, bank low + sandy + covered with Brush + scattering Cottonwood Trees, small Grove of Timber on this stream both above + below the crossing of the line, Enter brushy Thicket on West bank of River bearing with same, the dist across obtained by actual measurement on line
6 64 Willow 5 in. dia.
20 05 Branch 20 Lks. wide (now dry) course S. bear brushy Thicket + enter timber bear N. + S.
24 00 Left Bottom + enter Bluffs, bear N. W. + S. E.
26 00 Left timber, enter Prairie on top of Bluff bear N. W. + S. E.
39 00 Enter scattering timber bear N. E. + S. W.
39 95 Spring Branch 10 Lks. wide run N. E.
40 00 Cor. in Branch, as it could not be permanently located at this point, I measured East 43 Lks. from the true Cor. + set Sandstone 20X15X3 for a Witness Cor. from which

Base Line Range 4 E.

Chains

A Bur Oak 10 in. dia. bears S. 24° E. 18 lks. dist.
An Elm 12 in. dia. bears N. 24° W. 11 lks. dist.
41 10 Left Timber & enter Prairie, bears N. E. & S.
80 00 Set Sandstone 24X10X6 for Cor to Township 1 N.
Ranges 3 & 4 E. from which the corresponding
Cor. set by Johnson bears S. 3° 12' W. 119.25 chs. dist.
1st 20 chs Bottom land subject to inundation &
covered with a thick matted growth of Wild
Plum, Wild Gooseberry, Prickly Ash, Swamp
Dog wood, Young Willow, Grum Briar & Vine
remainder, rolling, Soil 1st rate
Timber Bur Oak, Hickory & Elm

Base Line Range 3 E.

Chains

Along S. boundary of Sec. 36 West on a true line
Va. 11° 18' E.

90 A Branch 10 lks wide runs S. general course S. E.
17 30 Drain course S. E.
28 10 Drain course S. 10° E.
40 00 Set Sandstone 19X12X7 for 1/4 Sec. Cor.
44 90 Drain course S. E.
68 00 Top of a rocky Knob
80 00 Set Sandstone 21X8X6 for Cor to Sec. 35 & 36
1st 50 chs rolling Prairie, Soil 2d rate
remainder hilly, 3d rate

Along S. boundary of Sec. 35, West on a true line
Va. 11° 21' E.

26 80 Ravine course N. W.
37 00 Ravine 60 lks wide, 20 ft. deep course N. E.
40 00 Set Sandstone 18X12X4 (on E. side of a steep hill)
for 1/4 Sec. Cor.
42 30 Top of Hill bears N. & S.
47 95 Spring Run 3 lks wide in a deep holler course N.

Base Line Range 3 E.

Chains

51 75 Top of a Stony Point (80 ft. elevation) descending N.
55 10 Deep Hollow course N.
63 25 Top of Ridge bears N. & S.
69 65 Ravine course N.
80 00 Set Sandstone 21X10X4 on top of a Hill for Cor. to Secs. 34 & 35.
Extremely Hilly, broken & rocky Prairie, Soil sandy & very poor, almost destitute of Vegetation

Along S. boundary of Sec. 34, West on a true line
Va. 11°18' E.

28 55 Ravine course N. 10° W.
38 45 Ravine course N. 5° W.
40 00 Set Granite Stone 25X14X4 for 1/4 Sec. Cor.
47 20 Ravine course N. 10° W.
80 00 Set Sandstone 22X15X4 for Cor. to Secs. 33 & 34
Hilly Prairie, broken by Ravines, Soil 2d rate
compared the measuring chains with Standard & found them correct

June 9, 1856

Base Line Range 3 E.

Chains

Along S. boundary of Sec. 33. West on a true line
Va. 11°20' E.

18 00 Drain course S.
22 20 Drain course S.
40 00 Set Sandstone 21X15X3 for 1/4 Sec. Cor.
50 05 Branch 8 lks wide course S. E.
68 90 Drain course N. E.
80 00 Set Sandstone 27X15X3 for Cor. to Secs. 32 & 33
Rolling Prairie, Soil 2d rate

Along S. boundary of Sec. 32. West on true line
Va. 11°30' E.

11 10 Dry Hollow course S.
24 00 Branch 5 lks wide course S. E.
40 00 Set Sandstone 20X17X4 (on a high ridge that bears N. & S.) for 1/4 Sec. Cor.
57 50 Deep Ravine 100 lks wide course S. W.
59 55 Branch 5 lks wide (in deep hollow) course S. E.
73 00 Summit of Ridge bears N. W. & S. E.
80 00 Set Sandstone 21X13X3 for Cor. to Secs. 31 & 32

Base Line Range 3 E.

Chains

All Prairie hilly & broken, Soil 2d rate

Along S. boundary of Sec. 31, West on a true line
Var. 11° 30' E.

16 00 Summit of a high Ridge bears N. & S.
29 75 Ravine 100 lks wide 15 ft. deep, Course N. W.
40 00 Set Sandstone 18 X 15 X 3 for 1/4 Sec. Cor.
(in a Hollow that descends S. W.)
60 00 A Ridge bears N. & S.
69 50 A Ledge of Red Sandstone bears N. & S.
73 25 Bottom of Hollow course N. W.
80 00 Set Sandstone 18 X 12 X 4 (on a high stony Point sloping N.) for Cor. to Township 1 N. Ranges 2 & 3 E. from which the corresponding Cor. set by Johnson bears S. 2° 38' W. 142.53 Chs. dist.
Hilly Prairie, Soil 2d rate.

Base Line Range 2 E.

Chains

Along S. boundary of Sec. 36, West on a true line
Var. 11° 30' E.

14 30 A Branch 6 lks wide course N. W.
20 00 A Ridge 50 ft. elevation bears N. & S.
34 30 A dry Hollow course N.
40 00 Set Sandstone 17 X 15 X 4 for 1/4 Sec. Cor. on a Ridge extending N. & S.
66 50 A dry Hollow course N. W.
71 00 Summit of Ridge bears N. & S.
78 30 Hollow course N.
80 00 Set Limestone 24 X 11 X 3 for Cor. to Secs. 35 & 36
Hilly & broken Prairie, Soil 3d rate

Along S. boundary of Sec. 35, West on true line
Var. 11° 27' E.

5 00 Summit of Ridge bears N. & S.
12 00 Bottom of Hollow course N.
35 00 A Ridge bears N. & S.
40 00 Set Limestone 24 X 12 X 2 for 1/4 Sec. Cor.
60 00 Deep Hollow course N. 10° W.

Base Line Range 2 E.

Chains

80 00 Set Granite stone 33, X 21 X 2 for Cor. to Secs. 34 + 35
Hilly Prairie, Soil 3d rate

Along S. boundary of Sec. 34 West on true line
Va. 11° 25' E.

14 20 Drain course S. 20° E.
30 00 Summit of Ridge bears N. + S.
40 00 Set Granite stone 24 X 12 X 3 for 1/4 Sec. Cor.
48 00 Drain course S.
60 00 Drain course S. E.
80 00 Set Granite stone 29 X 13 X 3 for Cor. to Secs. 33 + 34
High rolling Prairie, Soil 2d rate

Along S. boundary of Sec. 33 West on true line
Va. 11° 30' E.

21 50 Drain course S. E.
39 00 Drain course N. 25° W.
40 00 Set Limestone 25 X 16 X 2 for 1/4 Sec. Cor.
80 00 Set Limestone 24 X 14 X 3 for Cor. to Secs. 32 + 33
Hilly Prairie, Soil 3d rate, Limestone on surface

Base Line Range 2 E.

Chains

Along S. boundary of Sec. 32, West on true line
Va. 11° 36' E.

6 00 Drain course S. W.
14 20 Branch 5 lks wide course N. W.
21 00 Summit of Ridge bears N. + S.
32 00 Branch 5 lks wide course N. E.
40 00 Set Limestone 19 X 16 X 2 for 1/4 Sec. Cor.
53 00 Top of Ridge bears N. E. + S. W.
65 75 Branch 5 lks wide course N. W.
80 00 Set Limestone 24 X 14 X 2 for Cor. to Secs. 31 + 32
Hilly Prairie, limestone on surface, Soil 3d rate

Along S. boundary of Sec. 31 West on true line
Va. 11° 50' E.

20 00 Summit of Ridge bears N. W. + S. E.
35 50 Branch 5 lks wide course N. 35° W.
40 00 Set Limestone 28 X 13 X 3 for 1/4 Sec. Cor.
46 00 Top of Hill bears N. + S.
58 20 Branch 5 lks wide course N. 15° W.
65 00 Top of Ridge bears N. 15° W. + S. 15° E.

Base Line Range 2 E.

Chains

68 75 Drain Course N. 15° W.
74 00 Summit of Ridge bears N. E. & S. W.
80 00 Set Limestone 26 X 23 X 3 for Cor. to Township 1 N. Range 1 & 2 E., from which the corresponding Cor. set by Johnson bears S. 2° 22' W. 159.57 chs. dist.
High rolling Prairie, Soil 3d rate

Base Line Range 1 E.

Chains

Along S. boundary of Sec. 36 West on true line
Var. 12° 05' E.

1 20 Drain Course N. 15° W.
12 10 Drain Course N. W.
30 00 Ridge bears N. & S.
40 00 Set Limestone 23 X 16 X 2 for 1/4 Sec. Cor.
51 80 Drain Course N. E.
80 00 Set Limestone 30 X 12 X 24 for Cor. to Secs. 35 & 36
Gently rolling Prairie, Soil good 2d rate

Along S. boundary of Sec. 35 West on true line
Var. 12° E.

15 50 Military Road from Dr. Riley to Peter Kearny & Laramie bears N. 70° W. & S. 70° E.
40 00 Set Limestone 19 X 14 X 4 for 1/4 Sec. Cor.
80 00 Set Limestone 25 X 13 X 3 for Cor. to Secs. 34 & 35
Level Prairie, Soil 1st rate

Along S. boundary of Sec. 34 West on true line
Var. 12° E.

Base Line Range 1 E.

Chains

11 50 Military Road from Ft. Riley to Laramie bears S. 50° W. & N. 45° E.

27 75 Drain Course N. 20° W.

40 00 Set Limestone 19 X 13 X 2 for 1/4 Sec. Cor.

43 00 Drain Course N.

60 45 Military Road again bears N. W. & S. E.

80 00 Set Limestone 50 X 17 X 3 for Cor. to Secs. 33 & 34

Level Prairie, Soil 1st rate

Compared the measuring chains with Standard & found them correct June 10, 1856

Along S. boundary of Sec. 33 West on true line

Va. 12° 05' E.

40 00 Set Sandstone 19 X 15 X 3 for 1/4 Sec. Cor.

43 00 Drain Course S. 15° E.

80 00 Set Sandstone 28 X 16 X 3 for Cor. to Secs. 32 & 33

Level Prairie, Soil 1st rate

Along S. boundary of Sec. 32 West on true line

Va. 12° 05' E.

Base Line Range 1 E

Chains

23 90 Drain Course N. 30° W.

40 00 Set Limestone 24 X 15 X 12 for 1/4 Sec. Cor.

61 15 Branch 5 lks. wide Course N.

80 00 Set Limestone 22 X 13 X 4 for Cor. to Secs. 31 & 32

Rolling Prairie, Soil 1st rate

Along S. boundary of Sec. 31 West on true line

Va. 12° 07' E.

39 95 Branch 5 lks. wide Course N. 30° W.

40 00 Cor. in Branch, as the Cor. could not be permanently located at its true place I therefore measured due West 10 lks. to nearest suitable witness point & Set Limestone 32 X 13 X 2 for Witness Cor.

45 00 Ridge bears N. & S.

51 00 Drain Course N. E.

80 00 Set Red Sandstone 48 X 15 X 6 for the intersection of Base Line with Sixth Principal Meridian at Cor. to Townships 1 N. & 1 South Ranges 1 E. & 1 West, from which the Corresponding Cor. set by Johnson bears S. 2° 12' W. 17.74 Chs. dist.

Base Line

The stone at intersection of Base Line with 6th Principal Meridian is set so as to correspond with the cardinal points with its flat sides facing N. & S. & its edges E. & W.
On its N. side is the letter N. & T. 1. N
On its S. side K & T. 1. S.
On its E. side R. 1. E. &
On its W. side "1856" & R. 1. W.
At the dist of 10 ft. from intersection of Base Line & 6th Principal Meridian in the direction of each of the Cardinal points I set a stone as follows, On the North Limestone 20X10X2
On the East Limestone 19X11X3
On the South Sandstone 21X11X2
On the West Limestone 18X10X3
The stone at the intersecting point aforesaid being set 2 ft. in the ground & firmly fastened with smaller stones about its base (It is the same stone used by Johnson)
In addition to the above stones & the ordinary

Base Line

marks for Township Corners an elevation of earth about 7 inches high, sod side up was made so as to connect the stones set at the cardinal points as required by the written instruction; the earth necessary to the construction of the same being taken from a trench (quadrangular) immediately within the elevation or border

Var. 12° E.

High rolling Prairie, Soil good 2nd rate

Compared the measuring Chains with Standard & found them Correct

June 11th 1856

Base Line

Charles A. Manner, From 6th P.M. West 48 Miles

Contract No. 222. dated July 2nd 1858

July 13th to July 20th 1858

Base Line, Range 1 West.

July 13 1858

Begin at the Sandstone cor. to Townships 1 N. and 1 S. Ranges 1 E. and 1 W. at the intersection of the Base Line with the 6th Principal Meridian, and from said cor. I run

West on true line along S. boundary of Sec. 36,

Va. 12° 00' E.

3.	85	Drain, course N. E.
15	50	Summit of a Ridge, bearing N.W. & S.E.
31.	50	Drain, course S. 30° W.
40	00	Set a Limestone 20 x 14 x 4 for 1/4 sec. cor.
50	40	Branch, 5 lks. wide, runs N.
80	00	Set a limestone 31 x 13 x 3 for cor. to secs. 25 & 36, T. 1 N. R. 1 W.

Land gently rolling prairie - Soil 2 feet

Limestone on the Surface.

Along South boundary of sec. 25 T. 1 N. West on a true line.

Va. 12° 00' E.

Base Line. Range 1 West

9 00 Summit of a Ridge, bearing N. & S.
16 10 Indian trail, bearing N. 10° E. and S. 10° W.
40 00 Set a Limestone 19 x 15 x 4 for 1/4 sec. cor.
53 80 Drain, course S. 30° W.
80 00 Set a Limestone 26 x 16 x 3 for cor. to secs. 34 and 35.

Land gently rolling prairie — Soil good 2d rate.

Along South boundary of sec. 34, T. 1 N.
West, on a true line.

Va. 12° 00' E.

21 80 Branch, 10 lks. wide, course N. W.
24 75 Same Branch, 10 lks. wide, course S.
34 00 Same Branch, 10 lks. wide, course N. W.
37 75 Same Branch, 10 lks. wide, course S.
40 00 Set a Limestone 25 x 15 x 2 for 1/4 sec. cor. from which
a Bur Oak, 14 in. dia. bears S. 46 1/2° E. 161 lks. dist.
a Black Walnut, 8 in. dia. bears N. 78° W. 138 lks. dist.
Compared the measuring chains with Standard,
and found them correct. July 12, 1858.
41 50 Same Branch, 10 lks. wide, course N. W.
43 60 Same Branch, 10 lks. wide, course S. W.

Base Line. Range 1 West

78 36 Elm, 10 in. dia.
78 40 Same Branch, 10 lks. wide, course N. E.
79 20 Same Branch, 10 lks. wide, course S. E.
80 00 Set a Limestone 24 x 17 x 4 for cor. to secs. 33 & 34, from which
an Elm, 14 in. dia. bears N. 49 1/2° E. 15 lks. dist.
an Elm, 14 in. dia. bears S. 56° E. 42 lks. dist.
an Elm, 26 in. dia. bears N. 81° E. 96 lks. dist.
a Hackberry, 14 in. dia. bears S. 10° E. 43 lks. dist.)
Bearing trees at "opposite points" could not be
obtained.
Land hilly prairie. Soil 2d rate.
Scattering Bur Oak, Elm, Box Elder, Cottonwood
& Hackberry trees existing the banks of the Branch.

Along South boundary of Sec. 33, T. 1. N.
West, on a true line.

Va. 12° 00' E.

0 30 Branch, 10 lks. wide, course N. E.
12 00 Summit of Ridge, bearing N. & S.
39 60 Branch, 15 lks. wide, course N.
40 00 Set a Limestone 30 x 9 x 3 for 1/4 sec. cor. from which

Base Line, Range 1 West

An Ash, 7 in. dia. bears S. 37° E. 51 lks. dist.
An Ash, 7 in. dia. bears S. 65½° W. 22 lks. dist.
No trees North of line convenient to mark

40 95 Branch (last crossed) 20 lks. wide, course S. W.
42 30 Same Branch, 20 lks. wide, course N. W. Its general course N. 20° W.
47 50 Summit of a Ridge, bearing N. & S.
53 00 Drain, course N.
59 00 Ravine, 100 lks. wide, 15 ft. deep, course N. E.
80 00 Set a Limestone 22 x 14 x 3 for cor. to secs. 32 & 33,
Land hilly prairie - Soil 2d. rate.
Scattering Bur Oak & Ash timber on Branches

Along South boundary of Sec. 32, T. 1 N.
West on a true line,
Va. 12° 05' E.

40 00 Set a Limestone 37 x 7 x 5 for ¼ sec. cor.
43 00 Drain, course N.
80 00 Set a Limestone 33 x 10 x 2 for cor. to secs. 31 and 32,
Land gently rolling - Soil 1st rate.

Base Line, Range 1 West.

Along South boundary of Sec. 31, T. 1 N.
West on a true line.
Va. 12° 15' E.

35 50 Branch, 5 lks. wide, runs N.
37 40 Same Branch, 5 lks. wide, runs S. W.
38 00 Same Branch, 5 lks. wide, runs N. W.
40 00 Set a Limestone 30 x 9 x 3 for ¼ sec. cor. from which
A Bur Oak, 10 in. dia. bears S. 71° E. 236 lks. dist.
A Bur Oak, 20 in. dia. bears N. 4° W. 164 lks. dist.
66 70 Branch, 5 lks. wide, runs N.
73 00 Summit of a Ridge, bearing N. 10° E. and S. 10° W.
77 30 Drain, course N.
80 00 Set a Limestone 33 x 13 x 3 for cor. to Township 1 N. Ranges 1 and 2 West, with trench and elevation as per instructions
from which
A Bur Oak, 13 in. dia. bears S. 81° 40' E. 348 lks. dist.
No other tree near.
Land hilly prairie - Soil 2d. rate.
Scattering Bur Oak timber skirting the banks of the Branches and Ravines.

Base Line, Range 2 W

Along the South boundary of Sec. 36, T. 1 N.
West on a true line,

Va. 12° 00' E.

3	00	Summit of a Ridge, bearing N. and S.
6	50	Drain, course N.
17	00	Leave Hills and enter level bottom, bearing N. & S.
22	00	Leave prairie and enter Timber, bears N. and S.
25	50	Creek, 20 lks. wide, course N.
25	75	Foot of a rocky Bluff, bearing N. & S.
26	30	Top of Bluff, bears same, 100 feet high, nearly perpendicular
26	50	Leave Timber, and enter Prairie, bearing N. & S.
36	51	Bur Oak, 20 in. dia.
38	10	Branch, 5 lks. wide, course N.
40	10	Set a Limestone, 24x14x2 for 1/4 sec. Cor. from which
		A Bur Oak, 24 in. dia. bears N. 38° W. 7 1/2 lks. dist.
		A Bur Oak, 6 in. dia. bears S. 12° E. 79 lks. dist.
		Touch point of timber at this Cor. bearing N. & W.
44	50	Ravine, 50 lks. wide, 10 feet deep, course N. E.
64	00	Leave Prairie and enter Timber, bearing S. W. & N. E.
64	40	Ravine, 100 lks. wide, 20 feet deep, course N. W.

Base Line, Range 2 West

68	50	Ravine, 100 lks. wide, 20 feet deep, course N.
71	60	Creek, 30 lks. wide, course N.
72	11	Elm, 28 in. dia.
74	50	Same Creek, 30 lks. wide, course S. E.
80	00	Set a Limestone 36x9x3 for Cor. to secs. 35 & 36, from which
		A Bur Oak, 20 in. dia. bears N. 58 1/2° E. 70 lks. dist.
		An Elm, 12 in. dia. bears N. 31° W. 51 lks. dist.
		A Bur Oak, 16 in. dia. bears S. 12 1/2° W. 41 lks. dist.
		A Bur Oak, 18 in. dia. bears S. 20° E. 66 lks. dist.
		Land hilly & stony — Surface broken by Ravines
		Soil 2d rate.
		Timber, Bur Oak, Elm, Ash, Walnut & Cedar

Along the South boundary of Sec 35, T. 1 N.
West on a true line

Va. 12° 00' E.

1	00	Leave Timber and enter Prairie bearing N. W. and S. E.
13	00	Leave Hills and enter level bottom, bearing N. & S.
29	50	Leave prairie and enter timber, bearing S. E. and N.
31	00	Right bank of Creek, in a bend, bearing S. W. & N. W.
33	58	Elm, 6 in. dia.

Base Line, Range 2 West.

35 10 Creek, 30 lks. wide, bears N.E.

40 00 Set post as per instructions for 1/4 sec. cor. from which
A Hackberry, 14 in. dia. bears S. 65° E. 25 lks. dist.
A Black Walnut, 10 in. dia. bears N. 8° W. 23 lks. dist.

42 16 Elm, 16 in. dia.

44 17 Black Walnut, 12 in. dia.

45 00 Leave Timber and enter Prairie, bearing N. & S.

49 80 Same Creek, 40 lks. wide, Course S. 80° E.

56 20 Same Creek, 40 lks. wide, Course N.

62 00 Leave Creek bottom and enter rolling upland, bearing
S. W. and N. E.

80 00 Set a Limestone 28x12x2 for Cor. to secs. 34 and 35,
Land hilly and stony - Soil 2d. rate.
Timber, Bur Oak, Elm, Walnut & Hackberry
Undergrowth, Hazel, Briers & Vines.

July 13, 1858.

Along the South boundary of Sec. 34, T. 1 N.
West, on a true line,

Va. 12° 00' E.

9 50 Drain, course S. E.

Base Line, Range 2 West.

40 00 Set a Limestone 18x12x4 for 1/4 sec. cor.

61 00 Drain, course N. E.

80 00 Set a Limestone 37x16x2 for cor. to secs. 33 & 34,
Land: rolling prairie - Soil 2d. rate.

Along the South boundary of Sec. 33, T. 1 N.
West, on a true line,

Va. 12° E.

40 00 Set a Limestone 26x9x4 for 1/4 sec. cor.

43 00 Drain, Course S. W.

70 50 Branch, 5 lks. wide, Course S. E.

80 00 Set a Limestone 24x14x4 for cor. to secs. 32 & 33,
Land gently rolling prairie - Soil 2d. rate.

Along the South boundary of Sec. 32, T. 1 N.
West, on a true line,

Va. 12° 09' E.

31 00 Drain, Course N. E.

40 00 Set a Limestone 29x11x3 for 1/4 sec. cor.

41 00 Drain, Course N.

53 00 Drain, Course N. E.

Base Line, Range 2 West

80 00 Set a Limestone 37x10x4 for Cor. to secs. 31 & 32,
Land gently rolling prairie - Soil good 2d rate

Along the South boundary of Sec. 31, T. 1 N.
West on a true line,
Va. 12° 18' E.

1 40 Drain, Course S. E.
40 00 Set a Limestone 20x10x4 for 1/4 sec. Cor.
43 50 Drain, Course S. W.
74 00 Drain, Course S.
80 00 Set a Limestone 20x14x24 for Cor. to Township 1 N.
between Ranges 2 & 3 West.
Land gently rolling Prairie - Soil 2d rate

Base Line, Range 3 West

Along the South boundary of Sec. 36, T. 1 N.
West on a true line,
Va. 12° 15' E.

5 00 Drain, Course N. E.
40 00 Set a Limestone 26x15x3 for 1/4 sec. Cor.
66 00 Drain, Course S. W.
80 00 Set a Limestone 21x18x2 for Cor. to secs. 35 & 36,
Land gently rolling prairie - Soil 2d rate.

Along the South boundary of Sec. 35, T. 1 N.
West on a true line,
Va. 12° E.

14 50 Ravine, Course S.
40 00 Set post in Mound, drove charred stake as per instructions
for 1/4 sec. Cor.
42 00 Drain, Course S.
67 00 Drain, Course S. E.
71 00 Drain, Course N. E.
80 00 Set a post in a Mound and drove charred stake, as
per instructions for Cor. to secs. 34 & 35.
Land rolling prairie - Soil 2d rate

Base Line, Range 3 West.

Along the South boundary of Sec. 34, T. 1 N.
West, on a true line.

Va. 11°55' E.

3 00 Drain, Course S.E.

37 50 Drain, Course S.

40 00 Set post in a Mound and ~~drove~~ charred stake, as per instructions, for 1/4 sec. Cor.

68 50 Drain, Course S.

80 00 Set post in a Mound and drove charred stake as per instructions for Cor. to secs. 33 and 34,

Land gently rolling prairie - Soil 2d rate.

Along the South boundary of Sec. 33, T. 1 N.
West, on a true line.

Va. 12° E.

12 40 Drain, Course S.E.

22 50 Drain, Course N.E.

40 00 Set a post in a Mound and drove charred stake, as per instructions for 1/4 sec. Cor.

48 00 Drain, Course S.

61 00 Same Drain, Course N. 80° E.

Base Line, Range 3 West

80 00 Set post in Mound and drove charred stake, as per instructions, for Cor. to secs. 32 & 33.

Land gently rolling prairie - Soil 2d rate.

Along the South boundary of Sec. 32, T. 1 N.
West, on a true line.

Va. 12° 00' E.

40 00 Set post in Mound and drove charred stake, as per instructions, for 1/4 sec. Cor.

Compared the measuring chains with the Standard and found them Correct.

July 14, 1858.

46 50 Drain, course N.

52 00 Drain, Course N.

80 00 Set post in Mound, and drove charred stake, as per instructions, for Cor. to secs. 31 & 32.

Land gently rolling prairie - Soil 1st rate.

Along the South boundary of Sec. 31, T. 1 N.
West, on a true line

Va. 12° 00' E.

Base Line, Range 3 West.

15 00 Drain, course N.

40 00 Set post in Mound and drove charred stake, as per instructions for 1/4 sec. cor.

65 00 Drain, course N. E.

80 00 Set post in Mound and drove charred stake, as per instructions for cor. to Townships 1 N. Ranges 3 & 4 W.

Land gently rolling prairie – Soil 2d rate

Base Line, Range 4 West.

Along the South boundary of Sec. 36. T. 1 N.

West on a true line.

Va. 12° 00' E

40 00 Set post in Mound and drove charred stake, as per instructions for 1/4 sec. cor.

49 00 Drain, course N.

80 00 Set post in Mound and drove charred stake, as per instructions for cor. to secs. 35 & 36.

Land gently rolling prairie – Soil 2d rate.

Along the South boundary of Sec. 35. T. 1 N.

West on a true line.

Va. 12° 00' E.

10 50 Drain, course N. W.

40 00 Set post in Mound and drove charred stake, as per instructions for 1/4 sec. cor.

45 00 Drain, course N. 30° W.

51 00 Drain, course N. 20° E.

80 00 Set post in Mound and drove charred stake, as per instructions for cor. to secs. 34 & 35.

Land gently rolling Prairie – Soil 2d rate.

Base Line. Range 4 West.

Along the South boundary of sec. 34. T. 1 N.
West on a true line.

Va. 12° 00' E.

0.50 Drain, course N.
17.00 Drain, course N. 20° E.
40.00 Set post in Mound and drove charred stake, as per instructions, for 1/4 sec. Cor.
80.00 Set post in Mound and drove charred stake as per instructions, for Cor. to secs. 33 & 34.
Land gently rolling prairie - Soil 2d rate.

Along the South boundary of sec. 33. T. 1 N.
West on a true line.

Va. 12° 00' E.

13.00 Summit of the Ridge dividing the waters of Little Blue river from those of the Republican Fork of Kansas river, bearing S. E. & N. W.
20.00 Drain, course S. W.
31.50 Drain, course S.
39.00 Drain, course S.
40.00 Set post in Mound and drove charred stake, as per

Base Line. Range 4 West.

instructions, for 1/4 sec. Cor.
80.00 Set post in Mound and drove charred stake, as per instructions, for Cor. to secs. 32 & 33.
Land high rolling prairie - Soil 2d rate.

Along the South boundary of sec. 32. T. 1 N.
West on true line.

Va. 11° 45' E.

4.00 Drain, course S.
23.00 Drain, course S.
32.50 Drain, course S. E.
40.00 Set post in Mound and drove charred stake, as per instructions, for 1/4 sec. Cor.
53.00 Drain, course N. W.
80.00 Set post in Mound and drove charred stake, as per instructions, for Cor. to secs. 31 & 32.
Land high rolling prairie - Soil 2d rate.

Along the South boundary of Sec. 31. T. 1 N.
West on a true line.

Va. 11° 30' E.

Base Line, Range 4 W.

5 00 Drain, Course S.

30 60 Drain, Course S.

40 00 Set post in Mound and ~~drove~~ charred stake, as per instructions for 1/4 sec. Cor.

51 40 Drain, Course S.

80 00 Set post in Mound and drove charred stake, as per instructions for Cor. to Township one North between Ranges 4 & 5 West.

Land high rolling prairie - Soil 2d rate.

Base Line, Range 5 West

Along the South boundary of Sec. 36, T. 17 N.

West on a true line.

Va. 11° 30' E.

18 60 Drain, Course S. 20° W.

38 50 Drain, Course S. W.

40 00 Set post in Mound and drove charred stake, as per instructions for 1/4 sec. Cor.

42 75 Drain, Course S.

44 00 Same Drain, Course N. E.

Base Line, Range 5 West.

51 00 Same Drain, Course S.

80 00 Set post in Mound and drove charred stake, as per instructions for Cor. to secs. 35 & 36.

Land rolling prairie - Soil 2d rate.

Along the South boundary of sec. 35, T. 17 N.

West on a true line.

Va. 11° 45' E.

1 00 Drain, Course S. E.

35 50 Drain, Course S.

40 00 Set post in Mound and drove charred stake, as per instructions for 1/4 sec. Cor.

45 00 Drain, Course S.

66 20 Drain, Course S.

80 00 Set post in Mound and drove charred stake, as per instructions for Cor. to secs. 35 & 34.

Land high rolling prairie - Soil 2d rate.

Along the South boundary of Sec. 34, T. 17 N.

West on a true line.

Va. 12° 00' E.

Base Line. Range 5 West

6 00 Drain, course S. W.

11 00 Drain, course S.

38 60 Drain, course S. W.

40 00 Set post in Mound, and Drove charred stake, as per instructions for 1/4 secs. Cor.

49 30 Drain, course S. W.

49 00 Same Drain, course S.

59 00 Drain, course S. E.

80 00 Set post in Mound and drove charred stake, as per instructions for Cor. to secs. 33 & 34,

Sand rolling prairie - Soil 2d rate.

Compared the measuring chains with the Standard and found them Correct.

July 15, 1858.

Along the South boundary of Sec. 33, T. 1 N.
West on a true line,

Va. 12° 05' E.

18 80 Branch, 5 lks wide, course S. 20° E.

23 50 Same Branch, 5 lks wide, course S. W.

24 80 Same Branch, 5 lks wide, course S. Its general course S

Base Line. Range 5 West.

40 00 Set post in Mound and drove charred stake, as per instructions, for 1/4 secs. Cor.

45 60 Drain, course S.

51 10 Indian trail, bearing S. W. & N. E.

55 00 Drain, course S. 30° E.

80 00 Set post in Mound and drove charred stake, as per instructions for Cor. to secs. 32 & 33,

Sand rolling prairie - Soil 2d rate

Along the South boundary of Sec. 32, T. 1 N.
West on a true line,

Va. 12° 05' E.

2 50 Branch, 10 lks wide, course S.

22 50 Drain, course S.

37 90 Drain, course S.

40 00 Set post in Mound and drove charred stake, as per instructions, for 1/4 secs. Cor.

47 00 Wagon road, bearing N. W. & S. E.

50 40 Drain, course S.

59 50 Drain, course S.

79 90 Branch, 15 lks wide, runs S. 20° E.

Base Line, Range 5 West

80 00 Corner in Branch. As this corner cannot be permanently located in its true place, I select as the nearest suitable witness point, a point 30 lks. West of the true corner, where I set post in mound and drove charred stake as per instructions, for a Witness corner to secs. 31 & 32.

Land gently rolling prairie - Soil sandy 3rd rate

Along the South boundary of Sec. 31 - T. 1 N.
West on a true line.

Va. 12° 03' E.

0 10 Right bank of Branch - Leave rolling uplands and enter level bottom, bearing N. W. & S. E.

40 00 Set post in mound and drove charred stake as per instructions for 1/4 sec. cor.

63 00 Wagon road bearing N. W. & S. E.

80 00 Set post in mound and drove charred stake as per instructions for cor. to secs. 31 & 36, Township one North Ranges 5 & 6 West

Land level bottom prairie - Soil sandy 3rd rate

Base Line, Range 6 West

Along the South boundary of Sec. 36 T. 1 N.
West on a true line.

Va. 12° 06' E.

24 00 Indian trail, bearing N. 30° E. & S. 30° W.

40 00 Set post in mound and drove charred stake as per instructions for 1/4 sec. cor.

80 00 Set post in Mound and drove charred stake as per instructions for cor. to secs. 35 & 36.

Land level bottom prairie - Soil sandy 3rd rate

Along the South boundary of Sec. 35 T. 1 N.
West on a true line

Va. 12° 03' E.

40 00 Set post in mound and drove charred stake as per instructions for 1/4 sec. cor.

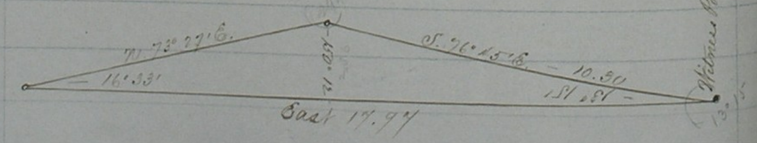
80 00 Set post with bench and elevations as per instructions for cor. to secs. 34 & 35. from which
A Cottonwood, 28 in. dia. bears N. 70 1/4° W. 370 lks. dist.
A Cottonwood, 30 in. dia. bears S. 44° W. 235 lks. dist.
No other trees convenient to mark
Land level bottom prairie - Soil sandy 3rd rate

Base Line, Range 6 West

Along the South boundary of sec. 34. T. 1 N.
West on a true line,
Va. 12° 00' E.

2 25 Leave prairie and enter Timber, bearing N. 30° W. & S. 30° E.

13 44 Intersected left bank of a River, (either the Republican Fork of Kansas River or North branch of the Same) bearing N. 60° W. & S. 60° E. and Set a "Witness Post" to mark said point of intersection, from which
A Cottonwood, 5 in. dia. bears N. 18° W. 23 lks. dist.
A Cottonwood, 3 in. dia. bears N. 61° E. 30 lks. dist.
Leave Timber on left bank of River, bearing with Bank.
To obtain the distance across the River, I set a flag on the right bank in line, and then from the Witness post on left bank measured a Base (on a Sand bar) N. 76° 45' W. 10.30 chains to a Station, from which the flag on the right bank bears S. 73° 27' W. making the distance from the Witness post to the flag = 17.97 chains.



Base Line, Range 6 West

Sine 16° 33 = 9.454619
Sine 150° 12' = 9.696334
Log 10.30 = 1.012837
10.709171
9.454619
To dist. across 17.97 chains = 1.254552
13.44 + 17.97 chains = 31.41 chains

31 41 To flag on the right bank of the River, at which point I set a post in Mound with charred stake as per instructions for a "Witness Point" as required in case of "insuperable objects on line"
Right bank of River bears N. 60° W. and S. 60° E.
This Stream is not navigable. Water about 2 feet deep, Current rapid, banks low and bottom sandy.
Compared the measuring chains with Standard and found them Correct.

July 16, 1858.

From the post in Mound at the Witness point on the right bank of the River, I run West 8.59 chains (31.41 + 8.59 = 40.00) to the 1/4 sec. Cor. and at

40 00 Set a post in Mound and drove charred stake as per

Base Line, Range 6 West

intersections for 1/4 sec. Cor.

80 00 Set post in Mound and drove charred stake as per instructions for Cor. to secs. 33 & 34.

Land level bottom. Soil sandy 2d rate.

Timber, Cottonwood, and Willow.

Undergrowth Vines & Vines.

Along the South boundary of sec. 33, T. 1 N.

West on true line.

Va. 12° 00' E.

40 00 Set post in Mound and drove charred stake, as per instructions for 1/4 sec. Cor.

41 61 Intersected the right bank of River, bearing N. 40° E. and S. 40° W., and Set post in Mound and drove charred stake as per instructions for a "Witness Point"

To obtain the distance across the River, I set a flag in line on left bank, and then measured a Base from the Witness Point on the right bank, South 6.00 chs. to a station, from which the flag on left bank bears N. 54° 20' W. – making the distance across the river on line – 8.36 chains.

Base Line, Range 6 West

Nat: Tang: 54° 20' = $\frac{1393 3571}{6}$

Dist. across the river = 8.360 1426

49 97 Intersected the left bank of the River, bearing N. 40° E. and S. 40° W. and Set post (where the flag stood) for a Witness point, from which

A Cottonwood, 18 in. dia. bears N. 21° W. 66 lks. dist.

A Cottonwood 20 in. dia. bears S. 46° W. 51 lks. dist.

From the Witness post on left bank, I run West, 30.03 chains, and at (49.97 + 30.03 = 80.00)

80 00 Set post in Mound and drove charred stake as per instructions for Cor. to secs. 32 & 33.

Land level bottom prairie. Soil sandy 3d rate.

Scattering Cottonwood, and Willow trees skirting the banks of the River

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Along the South boundary of Sec. 32, T. 1 N.

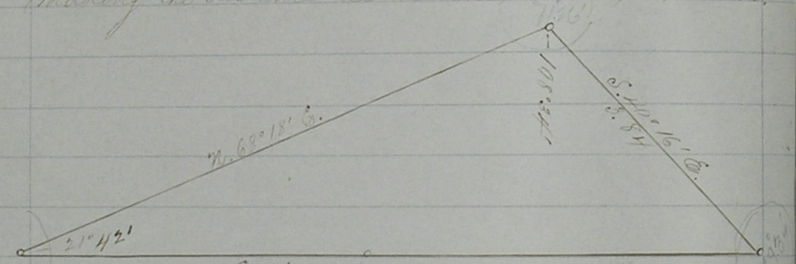
West on a true line.

Va. 11° 55' E.

35 46 Intersected the left bank of River, bearing S. 40° E. and N. 40° W. and Set Post in Mound with charred stake as per instructions for a "Witness Point".

Base Line, Range 6 West

To obtain the distance across the river, I caused a flag to be set in line on the right bank, and then from the Witness Point on the left bank, measured a base N. 40° 16' W. 3.84 chains to a Station, from which the flag on the right bank bears S. 68° 18' W. making the distance across the river = 9.84 chains.



As the sine of 21°42' = 9.567904
So to the sine of 108°34' = 9.976787
So is the Base 3.84 = 0.584331
10.561118
9.567904

Hence dist across = 9.84 chains = Log. 0.993214.

35.46 added to 9.84, makes 45.30 chains

45 30 Intersected the right bank of the river, bearing N. 35° W. and S. 35° E., 5.30 chains West of the 1/4 sec. Cor., at which point I set Post for a Witness Point, and also, for a Witness to the 1/4 sec. Cor., from which post A Willow, 5 in. dia. bears S. 27° E. 29 lks. dist.

Base Line, Range 6 West.

A Cottonwood, 20 in. dia. bears N. 35° W. 249 lks. dist.

80 00 Set post in Mound and drove charred stake, as per instructions for cor. to secs. 31 & 32.

Land level bottom prairie – Soil sandy 2d rate. Scattering Cottonwood & Willow trees skirting the banks of the Stream.

Along the South boundary of sec. 31, T. 1 N. West, on a true line.

Va. 11° 55' E.

40 00 Set post in Mound and drove charred stake, as per instructions for 1/4 sec. Cor.

46 34 Intersected the right bank of River, bearing N. 10° E. and S. 10° W. and Set a post in Mound and drove charred stake, as per instructions, for a "Witness point"

To obtain the distance across the river, I set a flag in line on the left bank, and from Witness Point on the right, measured a base South 5.00 chains to a Station, from which the flag on the left bank bears N. 53° 18' W. = making the distance across the river 6.71 chains

Base Line, Range 6 West

Nat: Tang: 53° 18' = 1.3416029
5
Distance across River = 6.7080145.

46.34 added to 6.71, makes 53.05 chains

53 05 Intersected the left bank of River, bearing N. 10° E. and S. 10° W. and Set a Post for a Witness point, from which A Cottonwood, 9 in. dia. bears N. 89° W. 31 lks. dist.
A Willow, 3 in. dia. bears S. 2° W. 17 lks. dist.
Enter Timber on left bank of River, bearing with bank

60 00 Leave timber and enter Prairie, bearing N. 30° E. & S. 30° W.

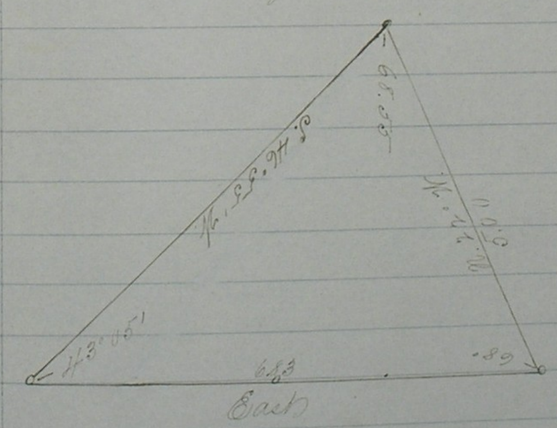
80 00 Set post in Mound and drove charred stake as per instructions for Cor. to Township one N. Ranges 6 & 7 W.
Land level bottom - Soil sandy 2d rate.
Timber, Cottonwood and Willow.

Base Line, Range 7 West.

Along the South boundary of Sec. 36. T. 1 N.
West, on a true line.

Va. 11° 50' E.

26 30 Intersected left bank of river, bearing N. 25° W. and S. 25° E. and Set Post in Mound and drove charred stake as per instructions for a Witness Point
To obtain distance across river, I set a flag in line on the right bank, and then from the Witness Point on left bank of River, measured a base N. 22° W. 5.00 chs. to a station, from which the flag on right bank bears S. 46° 55' W. - Making distance across on line, 6.83 chains



Base Line, Range 7 West.

As Sine 48° 05' = 9.834460

Is to Sine 68° 55' 9.969909

So is 5.00 chs. Log: = 0.698970

10.668879

9.834460

To dist across 6.83 - Log: = 0.834419

6.83 added to 26.30 makes 33.13 Chains

33 13 Intersected right bank of river, bearing N. 25° W. and S. 25° E. and Set post for a Witness Point, from which A Willow, 5 in. dia. bears N. 60° W. 7 lks. dist.

A Willow, 5 in. dia. bears S. 64° E. 18 lks. dist.

Compared measuring chains with Standard and found them correct. July 18, 1858.

40 00 Set post in Mound and drove charred stake as per instructions for 1/4 sec. cor.

60 00 Leave prairie and enter Timber, bearing S. W. & N. 60° E.

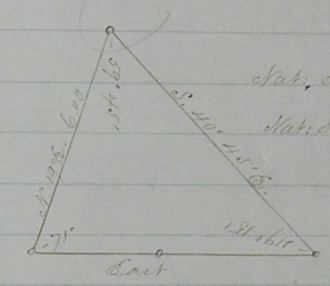
77 00 Intersected right bank of River again, bearing N. 25° E. and S. 25° W. and Set post with charred stake, as per instructions, for a Witness point, from which A Cottonwood, 14 in. dia. bears N. 20° E. 28 lks. dist.

A Cottonwood, 10 in. dia. bears S. 20° W. 22 lks. dist.

To obtain distance across river, I produced

Base Line, Range 7 West.

the line to the left bank and at this point of Intersection, Set a temporary post, from which I measured a base N. 19° E. 6.00 chains to a station, from which the Post at the Witness Point on right bank, bears S. 40° 45' E. - making the distance across river = 6.84 Chains.



Nat: Sine 49° 15' = .7575650

Nat: Sine 59° 45' = .8638355

.7575650 . . .8638355 :: 600 lks.

600

.7575650) 518.3013000 (684 links = distance across

45453900

63.762300

60605200

31571000

30302600

.1268400

6.84 chains added to 77.00 chains, makes 83.84 chains

Consequently the post on left bank of river is 3.84 chs. West of Cor. to secs. 35 & 36, Hence at

80 00 Corner in river - inaccessible -

Base Line, Range 7 West

As the Corner cannot be located in its true place, I select the point where the temporary posts stands on the left bank of River, as the nearest suitable Witness point, and there Set post with charred stake as per instructions, 38.4 lks. West of the true corner, for a Witness Corner to secs. 35 & 36, from which

A Cottonwood, 30 in. dia. bears N. 20° E. 218 lks. dist.

A Cottonwood, 8 in. dia. bears S. 75° W. 117 lks. dist.

A Cottonwood, 10 in. dia. bears S. 16° E. 42 lks. dist.

A Cottonwood, 8 in. dia. bears N. 45° E. 61 lks. dist.

Land level sandy bottom. Soil 2d rate.

Timber, chiefly Cottonwood, open wood.

Along the South boundary of sec. 35, T. 17 N.

West on true line.

Va. 11° 50' E.

3 84 Intersected the left bank of river, bearing N. 25° E. and S. 25° W. at the Witness cor. to secs. 35 & 36.

Leave Timber & enter prairie, bearing with the bank

40 00 Set post in Mound and drove charred stake, as per instructions for 1/4 sec. Cor.

Base Line, Range 7 West.

80 00 Set post with charred stake, mound and elevation as per instructions for a Cor. to secs. 34 & 35, from which

A Cottonwood, 24 in. dia. bears S. 32¾° W. 324 lks. dist.

A Cottonwood, 30 in. dia. bears N. 80¾° W. 297 lks. dist.

No other tree convenient to mark.

Land level sandy bottom Prairie. Soil 2d rate.

Along the South boundary of sec. 34, T. 17 N.

West on a true line.

Va. 11° 45' E.

3 00 Leave prairie and enter timber, bearing N. 30° W. & S. 30° E.

5 30 Intersected the left bank of River, bearing N. & S. and Set post for a Witness point, from which

A Willow, 12 in. dia. bears N. 8° E. 13 lks. dist.

A Cottonwood, 18 in. dia. bears S. 8° W. 54 lks. dist.

Leave timber on left bank of river, bearing with bank To obtain distance across River & produced the line West to the right bank, at the intersection of which

Set post for a Witness point, from which

A Cottonwood, 20 in. dia. bears S. 13½° W. 96 lks. dist.

A Willow, 5 in. dia. bears N. 46° E. 21 lks. dist.

Base Line, Range 7 West.

Then from Witness point on right bank, measured a base North, 600 chains to a station, from which the Post at the Witness Point on left bank bears S. 55° E. – making distance across river 8.57 chains

Nat: Tang: 55° = 1.428148 0
600
Dist. across 8.568888 000

8.57 added to 5.30, makes 13.87 chains, and hence at

13.87 Intersected right bank of River, bearing N. & S. at the established Witness Point.

40.00 Set post in Mound and drove charred stake as per instructions for 1/4 secs. Cor.

48.00 Pond, bearing N. 20° E. & S. 20° W.

56.44 Seame Pond, bearing S. 10° W. & N. 10° E.

80.00 Set post in Mound and drove charred stake as per instructions for Cor. to secs. 33 & 34.

Land level sandy bottom; Soil 3rd rate
Timber, Cottonwood and Willow.

Along the South boundary of Sec. 33, T. 1 N.,
West on a true line.

Va. 11° 33' E.

Base Line, Range 7 West.

40.00 Set post in mound and drove charred stake, as per instructions, for 1/4 sec. cor.

42.60 Branch, 5 lks. wide, runs N.

68.75 Branch, 10 lks. wide, course N. 30° E.

79.50 Leave river bottom and enter hilly upland, bearing N. 70° W. & S. 70° E.

80.00 Set post in mound and drove charred stake, as per instructions, for cor. to secs. 32 & 33.

Land level sandy bottom – Soil 3rd rate.

July 19, 1858.

Along the South boundary of sec. 32, T. 1 N.
West on a true line.

Va. 11° 30' E.

22.00 Ravine, 200 lks. wide, 30 feet deep, course N.

31.00 Ravine, 150 lks. wide, 20 feet deep, course N.

40.00 Set a Limestone 24x14x6 for 1/4 sec. cor.

80.00 Set a Limestone, 24x16x3 for cor. to secs. 31 & 32.

Land hilly prairie – Soil 2nd rate.

Along the South boundary of Sec. 31, T. 1 N.

Base Line, Range 7 West

West on a true line.

Va. 11° 30' E.

1	00	Drain, course N.
14	00	Drain, course S. E.
19	00	Summit of a ridge, bearing N. & S.
23	00	Drain, course N.
34	00	Summit of a ridge, bearing N. W. & S. E.
38	50	Drain, course S. W.
40	00	Set a Limestone 24 x 16 x 2 for 1/4 sec. cor.
49	50	Drain, course N. W.
53	30	Point of a ridge, sloping N. W.
65	80	Branch, 5 lks. wide, runs N.
73	20	Drain, course N.
80	00	Set a Limestone 25 x 11 x 6 for cor. to Township one N. Range 7 & 8 West.

Land hilly prairie — Soil 2d rate

Lime stone out cropping on the hills sides.

Base Line, Range 8 West.

Along the South boundary of Sec. 36. T. 1 N.

West on a true line,

Va. 11° 30' E.

4	00	Drain, course N. W.
12	00	Drain, course N.
16	50	Ridge, bearing N. W. & S. E.
40	00	Set a Limestone 21 x 12 x 3 for 1/4 sec. cor.
41	15	Spring branch, 10 lks. wide, runs N.
80	00	Set a Limestone 22 x 15 x 6 for cor. to secs. 35 & 36.

Land hilly prairie — Soil 2d rate.

Lime stone abundant.

Along the South boundary of Sec. 35. T. 1 N.

West on a true line,

Va. 11° 5 1/4' E.

4	50	Branch, 10 lks. wide, runs N.
9	75	Drain, course N. E.
29	80	Branch, 10 lks. wide, runs N.
35	00	Drain, course N. E.
36	30	Lime Drain, course S. E.
40	00	Set a Limestone 25 x 14 x 5 for 1/4 sec. cor.

Base Line, Range 8 West

75.00 Drain, course N.

80.00 Set a Limestone 18x10x5 for cor. to secs. 34 & 35,
Land hilly prairie - Soil 2d rate.
Lime Stone abundant.

Along the South boundary of sec. 34, T. 1 N.
West on a true line,
Va. 12° 15' E.

13.80 Branch, 8 lks. wide, course N. 15° W.

25.00 Ravine, 200 lks. wide, 20 feet deep, course N. E.

36.00 Summit of a Ridge, bearing N. & S.

40.00 Set a Limestone 20x14x7 for 1/4 sec. cor.

55.00 Drain, course N.

59.60 Branch, 15 lks. wide, runs N.

60.60 Branch, 5 lks. wide, course S. E.

61.50 Same Branch, 5 lks. wide, course N. E.

69.40 Drain, course S. E.

80.00 Set a Limestone 24x14x4 for cor. to secs. 33 & 34,
Land hilly prairie - Soil 1st rate.
Limestone on the Surface.

Base Line, Range 8 West

Along the South boundary of sec. 33, T. 1 N.
West on a true line,
Va. 13° 00' E.

17.00 Drain, course N.

33.00 Summit of a ridge, bearing N. & S.

40.00 Set a Limestone 24x6x4 for 1/4 sec. cor.

47.00 Drain, course N.

67.00 Summit of a Ridge, bearing N. 20° E. & S. 20° W.

80.00 Set a Limestone 20x10x10 for cor. to secs. 32 & 33,
Land hilly prairie - Soil 1st rate.
Lime Stone abundant.

Along the South boundary of sec. 32, T. 1 N.
West on a true line,
Va. 12° 40' E.

17.80 Branch, 8 lks. wide, course N. 20° W.

19.60 Same Branch, 8 lks. wide, course S. W.

21.20 Same Branch, 8 lks. wide, course N. Its general course N.

37.00 Drain, course N. E.

40.00 Set a Limestone 16x15x3 for 1/4 sec. cor.

Base Line. Range 8 West

62 00 Summit of a ridge, bearing N. 15° E. & S. 15° W.

74 00 Drain, course N.

80 00 Set a Limestone 30×14×6 for cor to secs. 31 & 32,
Land hilly prairie - Soil 1st rate.
Limestone in ledges.

Along the South boundary of Sec. 31. T. 1 N.
West on a true line,
Va. 12° 40' E.

14 05 Branch, 5 lks. wide, runs N.

15 90 Touch bend in the same branch, bearing S.W. & S.E.

31 50 Drain, course N. E.

40 00 Set a Limestone 20×12×5 for 1/4 sec. cor.

44 00 Summit of a Ridge, bearing N. & S.

54 60 Ravine, 200 lks. wide, 15 feet deep, Course N. 30° W.

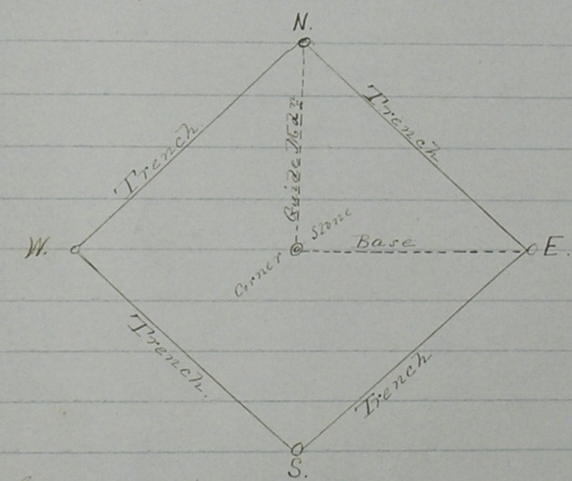
64 50 Drain, course N. 30° W.

73 20 Drain, course N. 20° E.

80 00 Set a Limestone 39×11×5, securely fastened in the ground with stones, for a cor. to Township one North Ranges 8 & 9 West.
Ten links North of this cor. Ten links East, Ten links South

Base Line. Range 8 West.

and Ten links West of it, set a Limestone, for a Witness to the corner, and connected said Witness stone by a quadrangular trench, as shown by the following Diagram:



The Limestone at "N." 23×11×5.
The Limestone at "E." 22×13×5.
The Limestone at "S" 20×14×2½.
The Limestone at "W" 20×11×6.
Land hilly prairie - Soil 2d rate.
Compared measuring chains with Standard, and found them correct.

July 20th, 1858.

General Description

As a whole, the country over which this line passes may be set down as one vast prairie, veined by sparsely wooded streams, with a surface level in the vicinity of the River and Creeks; hilly upon the adjacent uplands and falling or gently undulating as the more elevated summits or dividing ridges are approached.

Some stone suitable for building or fencing was found in great abundance, both on the surface and in ledges, in Ranges 1 & 8, and also in the Eastern part of Range 2 & Western part of Range 7

The large stream or River in Ranges 6 & 7, is not navigable, although we found during the heavy rains that occured during the time of the survey, from 5 to 8 feet of Water in the Channel. Its banks are tolerably well wooded, low, and sandy, and its bottom, a bed of shifting sand. The bottoms adjoining are too sandy to be desirable for cultivation.

The Country is better adapted to grazing than tillage.

Base Line, Range 9 West

I begin at the Stone Monument erected at the

R. HARVEY,
SURVEYOR AND CIVIL ENGINEER.

For several years I have made a specialty of retracing Government Surveys to determine and perpetuate **Lost Corners.**

The Exact Location of the Original Government Corner, Marks the True Boundary Line of Your Land.

...OFFICE OF...
R. HARVEY,
County Surveyor Howard County,
NEBRASKA.

Thirty-three Y
Thirty
Estimates and
Canal

Mr. ..... St. Paul, Neb. .....

Field Notes
of
Base-Line
from
1st to the 2nd Guide Meridian W.
by
Nathan P. Cook
Under Contract No. 274 dated
April 29th 1859

80 00 Drove Charred stake, set post, raised mound with bench as per instructions, for cor. to secs. 34 & 35.

General Description

As a whole, the country over which this line passes may be set down as [illegible]

than tillage.

Base Line, Range 9 West.

I begin at the Stone Monument erected at the point of intersection of the First Guide Meridian West, with the Base Line, from which I run West, along the South boundary of sec. 36, on a true line, T. 1 N. R. 9 W.

Va. by Burts improved Solar Compass 18° 00' E.

32 75 A Drain, descends N.

40 00 Set a Limestone 20x12x4 for 1/4 sec. Cor.

57 00 A Branch, 3 ft. wide, runs N.

80 00 Set a Limestone 20x9x5 for Cor. to secs. 35 & 36,

Land broken prairie - Soil 2d rate.

Met on a true line along South boundary of sec. 35,

Va. 13° 00' E.

20 33 A Drain, descends N.

35 75 A Drain, descends N.

40 00 Set a Limestone 20x12x3 for 1/4 sec. Cor.

58 35 A Branch, 4 ft. wide, 6 in. deep, runs N. soon turns N. E.

80 00 Drove Charred Stake, set post, raised Mound with trench as per instructions for Cor. to secs. 34 & 35.

Base Line, Range 9 W.

Land broken prairie – Soil 2d rate.

West along the South boundary of sec. 34, on a true line,
Va. 13° 45' E.

39.83 A Creek, 5 lks. wide, 6 inches deep, runs N.
40.00 Set a Limestone 18x9x4 for 1/4 sec. Cor. from which
a Willow, 4 in. dia. bears S. 40° E. 120 lks. dist.
No other tree convenient to mark.
66.00 A Drain, descends N. E.
80.00 Drove charred stake, set post, raised mound with
trench, as per instructions, for Cor. to secs. 33 & 34.
Land rolling prairie – Soil 2d rate.
A few Elm, Oak & Willow trees along Creek.

West on true line along the South boundary of sec. 33,
Va. 12° 45' E.

27.75 A Creek, 6 lks. wide, runs N.
40.00 Set Limestone 12x11x6 for 1/4 sec. Cor.
68.70 A Creek, 6 lks. wide, 6 inches deep, runs N.
80.00 Set a limestone 18x12x8 for Cor. to secs. 32 & 33.
Land rolling prairie – Soil 2d rate.

Base Line, Range 9 West.

West on true line along South boundary of sec. 32,
Va. 13° 45' E.

40.00 Set a Limestone 15x10x4 for 1/4 sec. Cor.
70.00 A branch, 6 lks. wide, 6 in. deep, runs N.
80.00 Drove charred stake, set post, raised mound with
trench, as per instructions, for Cor. to secs. 31 & 32.
Land broken prairie – Soil 2d rate.

West on true line along South boundary of sec. 31,
Va. 13° E.

24.75 A Drain, descends N.
40.00 Set a Limestone 18x12x8 for 1/4 sec. Cor.
60.15 A Drain, descends N.
80.00 Set Limestone 30x9x6 for Cor. to Township 1 N. Ranges
9 & 10 West.
Land rolling prairie – Soil 2d rate.
June 7, 1859.

West on true line along South boundary Sec. 36,
Va. 13° 15' E.

14.53 A Drain, descends N.

Base Line, Range 10 West.

41 00 Set a Limestone 15 x 9 x 4 for 1/4 sec. cor.
62 20 A Drain, descends N. W.
73 20 A Drain, descends N.
80 00 Set a Limestone 17 x 11 x 5 for cor. to secs. 35 & 36.
Land rolling prairie – Soil 2d rate.

West along the South boundary of sec. 35. on true line,
Va. 13° 15' E.

40 00 Drew charred stake, Set post, raised Mound, with
trench, as per instructions, for 1/4 sec. cor.
60 50 A Creek, 6 lks. wide, 6 in. deep, runs N. W.
69 50 A Drain, descends N. E.
80 00 Set a Limestone 24 x 10 x 8 for cor. to secs. 34 & 35.
Land broken prairie – Soil 2d rate.
A few Elm trees along the Creek.

West, on true line along South boundary of sec. 34,
Va. 13° 15' E.

10 00 A Drain, descends N.
12 00 A Branch, 5 lks. wide, 3 in. deep, runs N. E.
40 00 Set a Limestone 19 x 9 x 5 for 1/4 sec. cor.

Base Line, Range 10 West.

48 70 A Creek, 20 lks. wide, 3 feet deep, runs N.
72 15 A Drain, descends N.
80 00 Set a Limestone 24 x 11 x 5 for cor. to secs. 33 & 34.
Land rolling prairie – Soil 2d rate.
A grove of timber N. of line, along Creek.

West, on true line along South boundary of Sec. 33,
Va. 13° 20' E.

40 00 Set a Limestone 16 x 12 x 4 for 1/4 sec. cor.
66 90 A Drain, descends N.
78 50 A Drain, descends N.
80 00 Set a Limestone 22 x 10 x 5 for cor. to secs. 32 & 33.
Land rolling prairie – Soil 2d rate.

West, on true line along South boundary of Sec. 32,
Va. 13° 25' E.

40 00 Set a Limestone 18 x 12 x 4 for 1/4 sec. cor.
43 50 A Drain, descends N. W.
49 75 Patriarch timber, bearing N. & S.
49 75 A Creek, 10 lks. wide, 4 feet deep, runs N.
52 15 Left bank of same Creek, 15 lks. wide, 4 ft. deep, runs S. E.

Base Line, Range 10 West

53 15 Right bank of same Creek, 25 lks. wide, 3 feet deep, runs N.E.

53 71 Leave timber, bearing N. & S.

80 00 Set a Limestone 15x13x4 for cor. to secs. 31 & 32,

Land broken prairie - Soil 2d rate.

Timber, Elm, Hickory & Box elder.

West on true line along South boundary of sec. 31,

Var. 13° 25' E.

12 25 A Drain, descends N.

16 75 A Drain, descends N.E.

40 00 Set a Limestone 18x10x5 for 1/4 sec. Cor.

56 50 A Drain, descends N.

80 00 Set a Limestone 17x12x4 for cor. to Township 17 N. Range 10 & 11 West.

Land broken prairie - Soil 2d rate

Base Line, Range 11 West

West on true line along South boundary of sec. 36,

Va. 13° 30' E.

39 60 A Branch, 5 lks. wide, 6 in. deep, runs N.

39 65 Enter Timber, bearing N. & S.

40 00 Set a Limestone 19x14x3 for 1/4 sec. Cor. from which

An Elm, 5 in. dia. bears S. 12 1/2° E. 10 1/2 lks. dist.

An Elm, 5 in. dia. bears N. 48° W. 21 lks. dist.

40 50 Leave timber, bearing N. & S.

55 25 A Drain, descends N.E.

80 00 Drive charred stake, set post, raised mound, with trench, as per instructions, for cor. to secs. 35 & 36.

Land broken prairie - Soil 2d rate.

Timber, Elm.

West along South boundary of Sec. 35, on true line,

Va. 13° 30' E.

40 00 Drive charred stake, set post, raised mound, with trench, as per instructions, for 1/4 sec. Cor.

45 75 A Drain, descends N.

80 00 Set a Limestone 18x12x4 for cor. to secs. 34 & 35,

Land very broken - Soil 2d rate.

June 8, 1857

Base Line, Range 11 West.

West on true line along South boundary of Sec. 34,
Va. 13° 45' E.

23 30 A creek, 5 lks wide, runs N.
23 36 An Elm, 16 in. dia.
40 00 Set a Limestone 21 x 12 x 3 for 1/4 sec. cor.
80 00 Drove charred stake, set post, raised mound with trench
as per instructions for cor. to secs. 33 & 34.
Very broken prairie - Soil 2d rate.
A few Elm trees along creek.

West on true line along South boundary of Sec. 33,
Va. 14° 00' E.

11 40 A Branch, 4 lks wide, 3 in. deep, runs N. W.
35 00 A Drain, descends N. W.
40 00 Drove charred stake, Set post, raise mound with trench
as per instructions for 1/4 sec. cor.
47 40 A creek, 5 lks wide, 3 in. deep, runs N.
80 00 Drove charred stake, Set post, raise mound with trench
as per instructions for cor. to secs. 32 & 33.
Land rolling prairie - Soil 2d rate.

Base Line, Range 11 West.

West on a true line along South boundary of sec. 32,
Va. 14° 00' E.

36 60 A Pond of Water, 40 lks wide, 2 feet deep, from which
a creek, 8 lks wide, 6 in. deep, runs N.
40 00 Drove charred stake, Set post, raised Mound with trench
as per instructions for 1/4 sec. cor.
80 00 Drove charred stake, Set post, raised Mound with trench
as per instructions for cor. to secs. 31 & 32,
Land very broken prairie - Soil 2d rate.

West on a true line along South boundary of Sec. 31,
Va. 13° 45' E.

8 40 A Drain, descends N.
24 80 A Creek, 15 lks wide, 3 feet deep, runs N.
40 00 Drove charred stake, Set post, raised mound with
trench as per instructions for cor. to Township 1 N.
Ranges 11 & 12 West.
Land rolling Prairie - Soil 2d rate.

Base Line, Range 12 West.

West on true line along South boundary sec. 36,
Va. 13° 50' E.

27 90 A Drain, descends N.
40 00 Set a Limestone 16 x 9 x 4 for 1/4 sec. Cor.
69 70 A Drain, descends N.
80 00 Drove charred stake, Set post, raised mound with trench as per instructions, for Cor. to secs. 35 & 36,
Land rolling prairie - Soil 2d rate

West on true line along the South boundary of sec. 35,
Va. 13° 20' E.

34 20 A Branch, 2 lks. wide, 6 in. deep, swift current, runs N.
40 00 Set Post for 1/4 sec. Cor. from which
A Cottonwood, 24 in. dia. bears N. 68° E. 38 lks. dist.
A Cottonwood, 40 in. dia. bears S. 61° E. 190 lks. dist.
80 00 Drove charred stake, Set post, raised mound with trench as per instructions, for Cor. to secs. 34 & 35,
Land broken prairie - Soil 2d rate
A few scattering Cottonwood & Elm trees near Creek.

Base Line, Range 12 West.

West, on true line along South boundary of sec. 34,
Va. 13° 20' E.

40 00 Drove charred stake, Set post, raised mound with trench as per instructions, for 1/4 sec. Cor.
80 00 Drove charred stake, Set post, raised mound with trench as per instructions, for Cor. to secs. 33 & 34,
High rolling prairie - Soil 2d rate.
June 9, 1859.

West, on true line along South boundary of Sec. 33,
Va. 13° 20' E.

35 00 Intersect bottom land, bearing N. & S.
40 00 Drove charred stake, raised Mound, Set post, with trench as per instructions, for 1/4 sec. Cor.
52 30 A brook, 20 lks. wide, 12 in. deep, runs N.
53 00 Ascend a Steep bluff of Chalky limestone, 30 feet high, bears N. & S.
80 00 Set a Limestone 18 x 12 x 4 for Cor. to secs. 32 & 33, from which
A Cottonwood, 7 in. dia. bears S. 27 1/2° W. 76 lks. dist.
No other tree convenient to mark. The above mentioned tree is marked "B. T." only.

Base Line. Range 12 West

Land rolling prairie - Soil along Creek. 1st rate.
Upland 2d rate.

West along South boundary of sec. 32, on true line,
Va. 13° 35' E.

2 00 A Drain, descends N. W.
4 00 Enter timber & leave prairie, bearing N. & S. E.
7 50 Right bank of a large Creek, 40 lks. N. of line
7 80 A Step, Clay bank, 25 feet high
9 00 Enter bottom land, bearing S. W. & S. E. by E.
13 65 A Creek, 30 lks wide, 12 in. deep, Swift current, runs N. then turns E.
14 20 Intersect Prairie, bearing N. & S.
35 00 Begin to ascend Upland
40 00 Drove charred stake. Set post raised mound with trench as per instructions for 1/4 sec. cor.
79 60 A Drain, descends S. E.
80 00 Set a Limestone 17 x 12 x 4 for Cor. to secs. 31 & 32,
Bottom land along the Creek level 1st rate.
Upland rolling - 2d rate
Timber, Elm, Hackberry, Cottonwood & Walnut.

Base Line. Range 12 West.

West on true line along South boundary of Sec. 31.
Va. 13° 30' E.

40 00 Drove charred stake. Set post, raised mound with trench, as per instructions for 1/4 sec. cor.
80 00 Drove charred stake, Set post, raised mound with trench as per instructions for Cor. to Township 1 N. Ranges 12 & 13 West.
High, dry, broken prairie - Vertical clay bluffs frequently occuring.
Soil 2d rate

Base Line. Range 13 West.

West on true line along South boundary of Sec. 36,
Va. 13° 20' E.

40.00 Drove charred stake, Set post, raised mound with trench as per instructions for 1/4 sec. Cor.

80.00 Drove charred stake, Set post, raised mound with trench as per instructions for Cor. to secs. 35 & 36,
Land very broken - Soil 2d rate.

West on true line along South boundary of sec. 35,
Va. 13° 00' E.

40.00 Drove charred stake, Set post, raised mound with trench as per instructions for 1/4 sec. Cor.

50.25 A Branch, 10 lks. wide, 4 inches deep, runs N. W.

80.00 Drove charred stake, Set post, raised mound with trench as per instructions for Cor. to secs. 34 & 35,
Land broken prairie - Soil 2d rate.

West on true line along South boundary of sec. 34,
Va. 13° 30' E.

3.60 A Branch, 6 lks. wide, runs N. W.

25.50 A Branch, 6 lks. wide, 6 in. deep, swift current, runs N.

Base Line. Range 13 West

40.00 Drove charred stake, Set post, raised mound with trench, as per instructions for 1/4 sec. Cor.

74.50 A Branch, 6 lks. wide, 6 in. deep, runs N.

80.00 Drove charred stake, Set post, raised mound with trench, as per instructions for Cor. to secs. 33 & 34,
Land broken prairie - Soil 2d rate.

West on true line along South boundary of sec. 33,
Va. 14° E.

35.90 A Branch, 6 lks. wide, 6 in. deep, runs N.

40.00 Drove charred stake, Set post, raised mound with trench, as per instructions for 1/4 sec. Cor.

80.00 Drove charred stake, Set post, raised mound with trench, as per instructions for Cor. to secs. 32 & 33,
High rolling prairie. Clay bluffs frequent
Soil 2d rate.
The Hills in all directions are covered with buffaloes; the grass is fed off very short by them

Base Line, Range 13 West

West on true line along South boundary of Sec. 32,
Va. 14° 15' E.

34 50 A Drain, descends N.
40 00 Drove charred stake, Set post, raised Mound with trench as per instructions for 1/4 sec. Cor.
80 00 Set a Limestone 20 x 10 x 6 for Cor. to secs. 31 & 32,
Land broken prairie - Soil 2d rate.

West along South boundary of sec. 31, on true line,
Va. 14° 15' E.

5 60 Branch, 6 lks. wide, 4 in. deep, runs N.
40 00 Set flinty limestone 14 x 12 x 6, for 1/4 sec. Cor.
46 85 A Creek, 14 lks. wide, 10 in. deep, runs N.
80 00 Set flinty limestone 24 x 14 x 6 for Cor. to Township 1 N. Ranges 13 & 14 West.
Land rolling Prairie - Soil 2d rate.

June 10th, 1859.

Base Line, Range 14 West

West on true line along South boundary of Sec. 36,
Va. 14° 00' E.

40 00 Set a Limestone 14 x 10 x 4 for 1/4 sec. Cor.
46 10 A Drain, descends N.
80 00 Set a Limestone 18 x 9 x 4 for Cor. to secs. 35 & 36,
Land rolling prairie - Soil 2d rate.

West along the South boundary sec. 35, on true line,
Va. 14° 00' E.

26 10 Drain, descends N. W.
40 00 Set Limestone 14 x 12 x 4 for 1/4 sec. Cor.
46 10 Drain, descends N.
69 05 Drain, descends N. E.
80 00 Set a Limestone 17 x 8 x 5 for Cor. to secs. 34 & 35,
Land rolling prairie - Soil 2d rate.

West on true line along South boundary of Sec. 34,
Va. 14° 20' E.

22 50 A Drain, descends N.
40 00 Set a Limestone 16 x 10 x 4 for 1/4 sec. Cor.
80 00 Set a Limestone 14 x 12 x 4 for Cor. to secs. 33 & 34,

Base Line, Range 14 West

Land rolling Prairie - Soil 2d rate.

West on true line along South boundary Sec. 33,
Va. 14° 30' E.

40 00 Set a Limestone 16 x 15 x 3 for 1/4 sec. cor.

80 00 Set a Limestone 15 x 10 x 6 for cor. to secs. 32 & 33,

High gently rolling prairie - Soil 2d rate.

This line passes along a dividing ridge.

Large bodies of timber to be seen along streams to the North & South of line.

West on true line along South boundary of Sec. 32,
Va. 14° 30' E.

6 60 A Drain, descends N.

39 10 A Drain, descends N.

40 00 Set a Limestone 14 x 8 x 6 for 1/4 sec. cor.

44 00 A Drain, descends N.

70 00 A Drain, descends N. a quarry of lime stone North of the line

80 00 Set a Limestone 24 x 8 x 6 for cor. to secs. 31 & 32,

Land rolling prairie - Soil 2d rate.

Base Line, Range 14 West.

West on true line along South boundary of sec. 31,
Va. 14° 30' E.

40 00 Set a Limestone 21 x 9 x 4 for 1/4 sec. cor. in a prairie

Dog town

75 25 A Drain, descends N.

80 00 Set a Limestone 32 x 9 x 3 for cor. to Township 1 N.

Ranges 14 & 15 West.

Limestone Bluffs from 10 to 20 chains North of this corner.

Land rolling prairie - Soil 2d rate.

Base Line, Range 15 West.

West on true line along South boundary of Sec. 36,
Va. 14° 00' E.

35 25 A Branch, 3 lks. wide, runs N.
40 00 Set a Limestone 18 x 10 x 4 for 1/4 sec. Cor.
67 70 A Branch, 6 lks. wide, 4 in. deep, Swift current, runs N.
80 00 Set a Limestone 22 x 22 x 6 for Cor. to secs. 35 & 36,
Land broken prairie — Soil 2d rate.

West on a true line along South boundary of sec. 35,
Va. 14° 00' E.

8 00 A Lime stone ledge, bears N. E. & S. W.
13 10 A Ravine, descends N. E.
40 00 Set Limestone 22 x 14 x 3 for 1/4 sec. Cor.
50 00 A Ravine, limestone banks, descends S. W.
80 00 Set a limestone 24 x 12 x 3 for Cor. to secs. 34 & 35,
Rolling Prairie - Soil 2d rate.
Limestone comes near the surface of the ground. The top strata is 4 to 6 feet thick, hard & sandy; the lower strata, soft & chalky.
In the Ravine, crossed at 13. 10 chains, I discover

Base Line Range 15 West

the bones (turned to stone) of an extinct species of animals.

West on true line along South boundary of Sec. 34,
Va. 14° 00' E.

1 50 A ledge of Limestone, bears S. W. & N. E.
17 00 A Ravine, limestone banks, descends S. W.
40 00 Set a Limestone 22 x 18 x 2 for 1/4 sec. Cor.
67 65 A Creek, 15 lks. wide, 12 in. deep, swift current, runs N.
77 00 A Drain, limestone bed & banks, descends N.
80 00 Set a Limestone 22 x 14 x 2½ for Cor. to secs. 33 & 34,
Land rolling prairie - Soil 2d rate.

West on true line along South boundary of sec. 33,
Va. 14° 00' E.

30 75 A Drain, descends N. W.
33 12 A Creek, 15 lks. wide, 8 in. deep, gravel bed, swift current, runs N.
35 55 An Elm, 18 in. dia.
40 00 Set a Limestone 21 x 13 x 4 for 1/4 sec. Cor. from which

Base Line, Range 15 West.

A White Oak, 12 in. dia. bears S. 1½° W. 42½ lks. dist.

A Wht. Oak, 7 in. dia. bears N. 69° W. 5 ½ lks. dist.

40 20 Enter Timber, bearing N. & S.

41 15 Same Creek, 15 lks. wide, 18 in. deep. very little current, runs S. E.

45 20 Same Creek, 30 lks. wide, 2 feet deep, very little current, runs N. E.

45 50 Leave timber, bearing N. E. & S. W.

80 00 Set a Limestone 20 x 19 x 3 for Cor. to secs. 32 & 33,

Gently rolling prairie – Soil 2d rate.

Timber, Oak, Elm & Willow.

June 11th, 1859.

West on true line along South boundary of sec. 32,

Va. 13° 45' E.

16 20 A Drain, descends S.

34 90 A Creek, 10 lks. wide, 6 in. deep, swift current, runs S. E.

40 00 Set a Limestone 24 x 12 x 3 for 1/4 sec. Cor.

77 50 A Drain, descends N. E.

80 00 Set a Limestone 17 x 12 x 2½ for Cor. to secs. 31 & 32,

Gently rolling Prairie – Soil 2d rate

Base Line, Range 15 West.

West on true line along South boundary of Sec. 31,

Va. 13° 30' E.

40 00 Set a Limestone 24 x 8 x 4½ for 1/4 sec. Cor.

80 00 Set a Limestone 39 x 16 x 5 for Cor. to Townships 1 N.

Ranges 15 & 16 West.

Land gently rolling prairie – Soil 2d rate.

Base Line, Range 16 West.

West on true line along South boundary of Sec. 36,
Va. 13° 30' E.

24 00 A Drain, descends N. W.
40 00 Set a Limestone 25 x 11 x 3½ for ¼ sec. cor.
80 00 Set a Limestone 24 x 12 x 3 for Cor. to secs. 35 & 36.
Land rolling prairie - Soil 2 & 3 rate.

West on true line along South boundary of secs. 35,
Va. 13° 45' E.

17 50 A Drain, descends N.
18 00 A ledge of Limestone, bears N. & S.
36 00 Top of Limestone Knob
40 00 Set a Limestone 19 x 9 x 7½ for ¼ sec. cor. from which
A bottonwood, 10 in. dia. bears S. 27° W. 11½ lks. dist.
No other tree within 20 chains
80 00 Set a Limestone 24 x 8 x 3½ for Cor. to secs. 34 & 35,
from which a Limestone Knob, bears N. 30° E. 10 lks. dist.
Land rolling Prairie - Soil 2 & 3 rate

West on true line along South boundary of sec. 34,
Va. 13° 45' E.

Base Line Range 16 West

15 20 Rebecca Creek, 25 lks. wide, 6 in. deep, swift
current, high banks, runs N. E. soon turns N.
40 00 Set a Limestone 17 x 13 x 5 for ¼ sec. Cor.
80 00 Set a Limestone 19 x 15 x 5 for Cor. to secs. 33 & 34.
Land rolling Prairie - Soil 2 & 3 rate.

West on true line along South boundary of Sec. 33,
Va. 13° 30' E.

40 00 Set a Limestone 17 x 10 x 5 for ¼ sec. Cor.
80 00 Set a Limestone 20 x 18 x 2 for Cor. to secs. 32 & 33.
Land gently rolling Prairie - Soil 2 & 3 rate.

West on a true line along South boundary of sec. 32,
Va. 13° 30' E.

40 00 Set a Limestone 19 x 10 x 5 for ¼ sec. Cor.
69 15 A Drain, descends S. W.
80 00 Set a Limestone 18 x 14 x 3 for Cor. to secs. 31 & 32,
Land rolling Prairie - Soil 3 & 2 rate.

West on true line along South boundary sec. 31,
Va. 13° 25' E.

Base Line, Range 16 West.

11 75 A Drain, decends N. W.

17 00 Enter Timber, bearing N. & S.

17 50 Crowe's Creek, 20 lks. wide, 18 in. deep, very little current, high banks, runs N.

20 00 Leave Timber, bearing N. & S.

40 00 Set a Limestone 20 x 12 x 8 for 1/4 sec. Cor.

80 00 Set a Limestone 34 x 8 x 3 for Cor. to Township 1 N. Rgs. 16 & 17 West, being also the intersection of the 2d Guide Meridian West with the Base Line. Also rock a Mound of Stone around this stone. In addition to the usual marks for a Township corner, I mark K, on the South side, and N. on the North side of this stone. At ten links North of this Cor. I set a Limestone 18 x 12 x 8, Marked N. – At ten links South of this Cor. I set a Limestone 16 x 14 x 8 marked S. At ten links East of the Cor. I set a Limestone 17 x 14 x 3 marked E. At ten links West of the Corner I set a Limestone 15 x 13 x 4 marked W.

June 12, 1857.

Base Line Range 17 W.

Chain

Having arrived at the S. W. Cor. of Township No 1 North of Range No 16 W. the same being the point of intersection of the 2d Guide Mer. W.

Base Line

Jarret Todd & James Withrow

Contract No. 276

dated June 10th 1859

(From 2d Guide Mer. W. to Summit of the Rocky Mountains estimated at 400 Miles)

Surveyed distance from the 2nd Guide Mer. to intersection of Colorado Line

152 miles + 52.80 chains = 152 Miles + 52.80 chs

June 7th to August 7th 1859

Where are bet. 1st & 2nd Guide?

Base Line Range 17 W.

Chain

Having arrived at the S. W. Cor. of Township No. 1 North, of Range No. 16 W. the same being the point of intersection of the 2d Guide Meridian West with the Base Line, we find it although recently established to be in a dilapidated condition, probably the work of Indians. The Cor. stone & also those set on line at the cardinal points of the compass were thrown down & broken, the elevation of earth remaining & was but little disturbed, & sufficient of the marking on the Cor. stone was visible to identify the Cor. for which it was planted as a monument. We reestablished or repaired the Cor. by setting in its proper place a Limestone 24 x 18 x 10 also due West from said Cor. a Limestone ten ft. dist., due N. a Limestone 10 ft. dist., due E. a Limestone 10 ft. dist. & due S. a Limestone 10 ft. dist. The five stones above describe each being marked according to special instruction for Guide Meridian Corners as furnished by

Base Line Range 17 W.

Chains

the Surveyor General
at this Co. we compass our lines as drawn
by Burts Improved Solar Compass with a line
made by observation of the Polar Star with a
Transit Instrument & find them to agree
From the above described Cor. to Township No. 1
N. of Ranges 16 & 17 W. we run due West on
the Base Line with Burts Improved Solar Compass
Va. 13°15' E.

37 75 Ravine bears S.E.
40 00 Set Sandstone 15 X 10 X 8 for 1/4 Sec. Cor.
80 00 Set Sandstone 22 X 12 X 8, for Cor. to Secs. 35 & 36
Surface rolling, Soil 2d rate, is a light loam

West along S. boundary of Sec. 35
Va. 13°15' E.

25 00 Ravine bears N.
40 00 Set Sandstone 12 X 10 X 6 for 1/4 Sec. Cor.
59 15 Ravine bears N.
80 00 Set Sandstone 16 X 15 X 4 for Cor. to Secs. 34 & 35

Base Line Range 17 W.

Chains

Surface broken, Soil 2d rate

West along S. boundary of Sec. 34
Va. 13°20' E.

35 85 Ravine bears N.
40 00 Set Sandstone 12 X 10 X 6 for 1/4 Sec. Cor.
53 40 Ravine bears N.
80 00 Set Sandstone 18 X 12 X 4 for Cor. to Secs. 33 & 34
Surface broken, Soil 2d rate

West along S. boundary of Sec. 33
Va. 13°20' E.

40 00 Set Sandstone 15 X 9 X 8 for 1/4 Sec. Cor.
74 86 Brook 4 chs. wide runs N. 10° W. Timber im-
-mediately N. of line 1 ch. wide bearing down
as stream & lining both its banks
80 00 Set Sandstone 16 X 13 X 6 for Cor. to Secs. 32 & 33
Surface rather broken, Soil light 2d rate

Base Line Range 17 W.

Chains

West along S. boundary of Sec. 32

Va. 13°27' E.

40 00 Set Sandstone 14X8X6 for 1/4 Sec. Cor.

80 00 Set Sandstone 20X12X6 for Cor. to Sec. 31 & 32

Surface rather broken. Soil light 2d rate

West along S. boundary of Sec. 31

Va. 13°27' E.

40 00 Set Sandstone 16X10X6 for 1/4 Sec. Cor.

45 00 Creek 10 lks wide runs N. E.

47 50 The same Creek 12 lks wide runs S. 75° E.

53 75 Same Creek 10 lks wide runs N. 10° E.

80 00 Set Sandstone 20X12X6 for Cor. to Township 1 N.

Range 17 & 18 W.

Surface broken. Soil 2d rate

Base Line Range 18 W.

Chains

From Cor. to T. 1 N. Rs. 17 & 18 W. [illegible]

West along S. boundary of Sec. 36

Va. 13°24' E.

5 75 Ravine bears N.

40 00 Set Sandstone 16X12X4 for 1/4 Sec. Cor.

80 00 Set Sandstone 16X12X4 for Cor. to Sec. 35 & 36

Surface broken. Soil 2d rate

West along S. boundary of Sec. 35

Va. 13°21' E.

11 90 Brook 3 lks wide runs N.

40 00 Set Sandstone 15X12X4 for 1/4 Sec. Cor.

80 00 Set Sandstone 22X10X4 for Cor. to Sec. 34 & 35

Surface rather broken. Soil 2d rate

West along S. boundary of Sec. 34

Va. 13°21' E.

40 00 Set Sandstone 16X10X5 for 1/4 Sec. Cor.

78 75 Entire Timber & Bottom bears N. & S.

80 00 Set Sandstone 20X12X4 for Cor. to Sec. 33 & 34

Base Line Range 18 W.

Chains

an Elm 12 in. dia. bears N. 75° W. 80 lks. dist.
a Box Elder 5 in. dia. bears N. 22° E. 34 lks. dist.
no other Trees to be "had"
Surface broken. Soil sandy 2d rate
Timber 3d rate Elm.

July 18, 1859

West on South boundary of Sec. 33

Va. 13° 21' E.

75 Creek 10 lks. wide runs N. 20° E. line on creek
2 10 Leave Creek 10 lks. wide runs E.
3 00 Leave Timber bears N. E. & S. W.
9 00 Leave Bottom bears N. & S.
40 00 Set Sandstone 15 X 11 X 4 for 1/4 Sec. Cor.
42 50 Ravine bears N.
58 00 Enter Bottom bears N. & S.
80 00 Set Sandstone 16 X 10 X 4 for Cor. to Secs. 32 & 33
Surface rather broken. Soil 2d rate
Timber on Creek 3d rate Elm

Base Line Range 18 W.

Chains

West along S. boundary of Sec. 32

Va. 13° 24' E.

40 00 Set Sandstone 15 X 12 X 4 for 1/4 Sec. Cor.
80 00 Set Sandstone 20 X 10 X 4 for Cor. to Secs. 31 & 32
Surface of Bottom generally level
Soil 2d rate not subject to overflow

West along S. boundary of Sec. 31

Va. 13° 24' E.

8 40 Enter Timber bears N. & S.
8 95 Brook 4 lks. wide runs N.
11 90 Same Brook 4 lks. wide runs N. 75° W.
15 75 Prairie Dog Creek 40 lks. wide runs N. 1 ft. deep
bank & bed muddy, water cool & current gentle
25 50 Same Creek 40 lks. wide 1 ft. deep runs S. E.
26 50 Leave Timber bears S. E. & N. W.
40 00 Drove charred stake, set post, raised mound
with trench & pits as per instructions for 1/4 Sec. Cor.
80 00 Drove charred stake, set post & raised
mound as per instructions for Cor. to Sections

Bas Lin Range 19 W.

Chains

1 N. Range 18 & 19 W.
Surface level, 2d rate Bottom land

From Cor. to Township 1 N. Range 18 & 19 W. Run
West along S. boundary of Sec. 36
Va. 13° 24' E.

35 w Cross Prairie Dog Creek 40 lks. wide runs N.
Enter Timber bears N. & S.
37 w Lean Timber bears N. & S.
40 w Drove Chained stake, set post & raised mound
as per instruction for 1/4 Sec. Cor.
80 w Set Sandstone 16 x 12 x 4 for Cor. to Sec. 35 & 36
Surface level Bottom 2d rate Timber on Creek
Chiefly Elm & Cottonwood

West along S. boundary of Sec. 35
Va. 13° 24' E.

20 w Enter timber bears S. W. & N.
22 80 Prairie Dog Creek 40 lks. wide runs S. 20° W.
24 50 Lean timber bears N. & S.

Bas Lin Range 19 W.

Chains

36 60 Prairie Dog Creek 40 lks. wide runs N. 20° E.
Enter Timber bears N. E. & S. W.
38 49 Elm 10 in. dia. & lean Timber bears N. & S.
40 w Drove Chained stake, set post raised mound
for instruction for 1/4 Sec. Cor.
55 65 Prairie Dog Creek 45 lks. wide runs S. E.
69 w Enter Timber bears S. W. & N. E.
71 75 Prairie Dog Creek 40 lks. wide runs N. E.
93 w Lean timber bears N. & S. W.
80 w Drove Chained stake, set post & raised mound
as per instruction for Cor. to Sec. 34 & 35
Surface level, Soil 2d rate Bottom land not
subject to inundation
Timber Elm & Cottonwood

West along S. boundary of Sec. 34
Va. 13° 31' E.

7 50 Cross Prairie Dog Creek 45 lks. wide runs S. 80° E.
Enter Timber bears S. 80° E. & N. 80° W.
16 40 Sam Creek 40 lks. wide runs N. E.

Base Line Range 19 W.

Chains

Leave Timber bears N. E. & S. W.

37 80 Ravine bears S.

40 00 Drove Chained stake, set post & raised mound as per instruction for 1/4 Sec. Cor.

80 00 Set Sandstone 16 x 12 x 10 for Cor. to Secs. 33 & 34

Surface level 2d rate Bottom land

July 19, 1859

West along S. boundary of Sec. 33

Var. 13° 50' E.

4 15 Ravine bears W.

6 50 Leave same bears S.

11 00 Enter Timber bears S. E. & N. W.

12 18 Prairie Dog Creek 40 lks wide runs S. E.

13 75 Leave Timber bears S. E. & N. W.

22 40 Enter Timber bears N. & S.

23 70 Prairie Dog Creek 35 lks wide runs N.

40 00 Set post for 1/4 Sec. Cor. from which

An Ash 9 in. dia. bears N. 84 1/2° E. 75 lks. dist.

An Ash 10 in. dia. bears S. 58° W. 53 lks. dist.

Base Line Range 19 W.

Chains

42 12 Prairie Dog Creek 30 lks wide runs S. E.

44 80 Leave Timber bears N. W. & S. E.

65 50 Cross Prairie Dog Creek 35 lks wide runs N. E.

Enter Timber bears N. E. & S. W.

79 25 Prairie Dog Creek 35 lks wide runs S.

Leave Timber bears N. & S.

80 00 Set on right bank of creek as post for Witness Cor. with a chained stake driven the true point for Cor. is in stream and this is the nearest practicable point for Witness Cor. We raise a mound with branch & pits as per instruction for Witness Cor. Secs. 32 & 33

Surface level Bottom not subject to overflow

Soil 2d rate

West along S. boundary of Sec. 32

Var. 13° 50' E.

40 00 Drove chained stake set post & raised a mound as per instruction for 1/4 Sec. Cor.

58 75 Enter Timber bears N. & S.

Base Line Range 19 W.

Chains

59 30 Prairie Dog Creek 30 lks wide runs N.W.
61 00 Lean Timber bears N.W. & S.E.
65 60 Entire Timber bears S.E. & N.W.
66 70 Same Creek 30 lks wide runs S.E.
68 40 Lean Timber bears N.W. & S.E.
80 00 Brass Capped stone set post & raised mound as per instruction for Cor. to Secs. 31 & 32
Surface level Bottom, Soil 2d rate
Timber Elm & Cottonwood

West along S. boundary of Sec. 31

Va. 13° 54' E.

5 50 Entire Timber bears N.E. & S.W.
8 12 Ash 12 in. dia.
8 26 Prairie Dog Creek 30 lks wide runs N.E.
Lean Timber bears N.E. & S.W.
30 00 Lean Bottom land bears N.E. & S.W.
40 00 Set Sandstone 15 x 9 x 5 for 1/4 Sec. Cor.
67 15 Spring Brook 3 lks wide runs S. water pure & good
80 00 Set Sandstone 24 x 16 x 4 for Cor. to Township 1

Base Line Range 20 W.

Chains

Range 19 & 20 W.
Surface out of Bottom rolling 2d rate, upland level also 2d rate not subject to overflow
Timber in Creek Elm & Cottonwood

From Cor. to Township 1 N. Ranges 19 & 20 W. 5 runs West along S. boundary of Sec. 36

Va. 13° 54' E.

40 00 Set Sandstone 16 x 10 x 4 for 1/4 Sec. Cor.
72 15 Brook 4 lks wide runs S.
80 00 Set Sandstone 20 x 12 x 8 for Cor. to Secs. 35 & 36
Surface rolling. Soil 2d rate

West along S. boundary of Sec. 35

Va. 13° 50' E.

16 15 Ravine bears S. 10° E.
40 00 Set Sandstone 10 x 9 x 8 for 1/4 Sec. Cor.
80 00 Set Quarry Stone 16 x 12 x 3 for Cor. to Secs. 34 & 35
Surface rolling, Soil 2d rate

Bass Lin Range 20 W.

Chains

West along S. boundary of Sec. 34

Va. 13°44' E.

40 00 Set Quartz stone 16X12X3 for ¼ Sec. Cor

80 00 Set Quartz stone 18X6X4 for Cor. to Sec. 33 & 34

Surface rolling, Soil 2d rate

West along S. boundary of Sec. 33

Va. 13° 48' E.

40 00 Set Sandstone 14X10X4 for ¼ Sec. Cor

66 70 Ravine bear S. E.

80 00 Set Sandstone 22X12X3 for Cor. to Sec. 32 & 33

Surface rolling, Soil 2d rate

West along S. boundary of Sec. 32

Va. 13° 43' E.

30 00 Ravine bear S.

40 00 Set Sandstone 18X8X4 for ¼ Sec. Cor.

78 05 Ravine bear S. E.

80 00 Set Sandstone 20X12X4 for Cor. to Sec. 31 & 32

Surface rolling, Soil 2d rate July 20, 1859

Bass Lin Range 20 W.

Chains

At this Cor. we take an observation of the Polar Star with a Transit on the morning of the 21st we find the line thus made by that instrument to agree with our line by Burts Solar Compass

West along S. boundary of Sec. 31

Va. 13° 43' E.

40 00 Set Sandstone 14X10X4 for ¼ Sec. Cor

75 75 Ravine bear S.

80 00 Iron Charcoal stake, set pick raised mound with trench & pits as per instructions for Cor. to Township 1 N. Range 20 & 21 W.

Surface rolling, Soil 2d rate

Base Line Range 21 W.

Chains

From Cor. to T. 1 N. Rs. 20 & 21 W. I run
West along S. boundary of Sec. 36

Var. 14° E.

40 00 Deposited sandstone marked thus X & set a post in mound as per instruction for 1/4 Sec. Cor.

80 00 Deposited sandstone marked thus X & built a mound with post as per instruction for standard Cor. to Sec. 35 & 36

Surface rolling, Soil 2d rate

West along S. boundary of Sec. 35

Var. 14° E.

40 00 Deposited sandstone marked thus X & raised a mound around post with pits & trench as per instruction for 1/4 Sec. Cor.

80 00 Deposited a stone marked thus X set a post & raised a mound as per instruction for stand. and Cor. to Sec. 34 & 35

Surface rolling Soil 2d rate

Base Line Range 21 W.

Chains

West along S. boundary of Sec. 34

Var. 13° 58' E.

29 70 Ravine bears S.

40 00 Deposited stone marked thus X set a post & raised a mound as per instruction for 1/4 Sec. Cor.

80 00 Deposited stone marked thus X set post raised mound with trench & pits as per instruction for Cor. to Secs. 33 & 34

Surface rolling Soil 2d rate

West along S. boundary of Sec. 33

Var. 13° 58' E.

7 10 Ravine bears N.

40 00 Set Sandstone 20 X 12 X 4 for 1/4 Sec. Cor.

80 00 Set Sandstone 18 X 12 X 8 for Cor. to Secs. 32 & 33

Surface broken, Soil sandy 2d rate

West along S. boundary of Sec. 32

Var. 13° 51' E.

40 00 Set Sandstone 15 X 9 X 6 for 1/4 Sec. Cor.

Base Line Range 21 W.

Chains

41 20 Ravine bears N. W.

80 00 Set Sandstone 20X12X8 for Cor. to 31 & 32
Surface rather broken. Soil 2d rate

West along S. boundary of Sec. 31
Va. 13° 51' E.

40 00 Set Sandstone 15X10X6 for ¼ Sec. Cor.

53 00 Ravine bears N. 10° W.

80 00 Set Sandstone 18X12X5 for Standard Cor. to
Township 1 N. Range 21 & 22 W.
Surface rather broken. Soil 2d rate

July 21, 1859

At this Cor. we compare our line by Burt's
Solar Compass with a line made by observation
of the Polar Star with a Transit instrument
& find them to agree

Base Line Range 22 W.

Chains

From Cor. to Township 1 N. Ro 21 & 22 W. Run
West along S. boundary of Sec. 36
Va. 13° 51' E.

20 00 Perpendicular edge of Sandstone 20 ft. high N. & S.

21 70 Ravine bears N.

40 00 Set Sandstone 15X12X4 for ¼ Sec. Cor.

53 50 Ravine bears N.

80 00 Set Sandstone 22X10X5 for Cor. to Sec. 35 & 36
Surface very broken. Soil 2d rate

West along S. boundary of Sec. 35
Va. 14° E.

21 00 Ravine bears N.

40 00 Set Sandstone 20X12X5 for ¼ Sec. Cor.

80 00 Set Sandstone 20X12X5 for Cor. to Sec. 34 & 35
Surface broken. Soil 3d rate

West along S. boundary of Sec. 34
Va. 14° E.

5 00 Ravine bears N.

Base Line Range 22 W.

Chains

40 00 Set Sandstone 20X10X8 for 1/4 Sec. Cor.
80 00 Set Sandstone 18X14X6 for Cor. to Secs. 33 & 34
Surface very broken. Soil sandy 3d rate

West along S. boundary of Sec. 33
Var. 14° 10' E.

8 50 Ravine bears N.
24 75 Ravine bears N.
40 00 Set Sandstone 18X12X9 for 1/4 Sec. Cor.
72 00 Enter Timber bears N. & S.
72 15 Cut 10 chs wide runs N.
73 00 Leave Timber bears N. & S.
80 00 Set Sandstone 19X10X7 for Cor. to Secs. 32 & 33
Surface rolling. Soil 2d rate

West along S. boundary of Sec. 32
Var. 14° E.

40 00 Set Sandstone 14X8X6 for 1/4 Sec. Cor.
80 00 Set Sandstone 20X12X7 for Cor. to Secs. 31 & 32
Surface rolling ridge land. Soil light 2d rate

Base Line Range 22 W.

Chains

West along S. boundary of Sec. 31
Var. 14° E.

29 40 Ravine bears N.
35 15 Ravine bears N. 20° E.
40 00 Set Sandstone 14X10X5 for 1/4 Sec. Cor.
80 00 Set Sandstone 24X12X6 for Standard Cor. to
Township 1 N. Range 22 & 23 W.
Surface rolling. Soil 2d rate

Range 23 W.

Comes on to S. 1 N. Rs. 22 & 23 W. on run
West along S. boundary of Sec. 36
Var. 13° 40' E.

10 10 Ravine bears N. 15° W.
40 00 Set Sandstone 18X10X4 for 1/4 Sec. Cor.
45 75 Cut 10 chs wide lined with timber on both
bands & on each side of line strip of timber about
2 chs wide bears N. & S.

Base Line Range 23 W.

Chains

+ 4 chs dist. from line on each side. Stream runs

80 00 Set Sandstone 15 x 9 x 4 for Cor. to Sec. 35 & 36

Land rolling, 2d rate Soil

West along S. boundary of Sec. 35

Va. 13°05' E.

21 00 Ravine bears N. W.

40 00 Set Sandstone 14 x 8 x 5½ for ¼ Sec. Cor.

48 80 Stream 30 lks wide runs N. W.

79 00 Ravine bears S. E.

80 00 Set Sandstone 16 x 8 x 5 for Cor. to Sec. 34 & 35

Surface rolling, Soil 2d rate July 22, 1859

West along S. boundary of Sec. 34

Va. 13°05' E.

14 50 Ravine bears S. E.

40 00 Set Sandstone 17 x 12 x 6 for ¼ Sec. Cor.

80 00 Set Sandstone 18 x 12 x 5 for Cor. to Sec. 33 & 34

Surface rolling, Soil 2d rate

Base Line Range 23 W.

Chains

West along S. boundary of Sec. 33

Va. 13°05' E.

23 70 Ravine bears N. 10° W.

40 00 Set Sandstone 18 x 8 x 4 for ¼ Sec. Cor.

43 90 Ravine bears N.

71 90 Ravine bears N.

80 00 Set Sandstone 19 x 11 x 10 for Cor. to Sec. 32 & 33

Surface rather broken. Soil 3d rate

West along S. boundary of Sec. 32

Va. 13°06' E.

29 60 Ravine bears N. 10° W.

40 00 Set Sandstone 18 x 10 x 3 for ¼ Sec. Cor.

44 00 Cross Creek 12 lks wide runs N.

enter Timber bears N. & S.

47 80 Leave Timber bears N. & S.

80 00 Set Sandstone 23 x 9 x 8 for standard Cor. to

Sec. 31 & 32

Surface of E. ½ mile broken, of W. ½ rolling

Soil 2d rate

Base Line Range 24 W.

Chains

West along S. boundary of Sec. 31

Va. 13° 06' E.

23 05 Ravine bears N.
40 00 Set Sandstone 14 X 12 X 4 for 1/4 Sec. Cor.
80 00 Set Sandstone 24 X 13 X 5 for Standard Cor. to Township 1 N. Range 23 & 24 W.
Surface rolling. Soil 2d rate of a sandy nature

From Cor. to T. 1 N. Rs. 23 & 24 W. we run
West along S. boundary of Sec. 36

Va. 13° 06' E.

3 20 Enter Timber bears N. & S.
4 10 Creek 10 lks wide runs N.
4 91 Leave Timber bears N. & S.
40 00 Set Sandstone 13 X 12 X 6 for 1/4 Sec. Cor.
63 00 Enter Bottom bears N. & S.
71 60 Creek 6 lks wide runs N.
80 00 Set Sandstone 18 X 10 X 6 for Standard Cor. to Sec. 35 & 36 Surface broken Soil 2d rate

Base Line Range 24 W.

Chains

West along S. boundary of Sec. 35

Va. 12° 58' E.

25 50 Enter Timber bears N. & S.
25 90 Sapp Creek 30 lks wide runs N.
Current sluggish 2 ft deep
27 60 Leave Timber bears N. & S.
40 00 Drove charred stake & set post & raised mound as per instruction for 1/4 Sec. Cor.
80 00 Drove charred stake, set post, raised mound as per instruction for Cor. to Sec. 34 & 35
Surface chiefly level Bottom 2d rate not subject to overflow

West along S. boundary of Sec. 34

Va. 12° 58' E.

38 40 Deep Ravine bears S.
40 00 Set Sandstone 15 X 12 X 4 for 1/4 Sec. Cor.
80 00 Set Sandstone 25 X 10 X 2½ for Cor. to Sec. 33 & 34
Surface level 1st rate Bottom not subject to overflow

Base Line Range 24 W.

Chains

West along S. boundary of Sec. 33

Va. 13°06' E.

32 00 Ravine bears S. & leave Bottom bears N. W. & S. E.

40 00 Set Sandstone 14×12×5 for 1/4 Sec. Cor.

60 50 Ravine bears S. 20° E.

80 00 Set Sandstone 20×10×5 for Standard Cor. to Secs. 32 & 33

Surface of Bottom level 1st rate Soil,

W. of Bottom rolling 2d rate

West along S. boundary of Sec. 32

Va. 13°10' E.

40 00 Set Sandstone 18×12×4 for 1/4 Sec. Cor.

41 00 Ravine bears S. 10° E.

80 00 Set Sandstone 23×10×4 for Standard Cor. to Secs. 31 & 32

Surface rolling Soil 2d rate

West along S. boundary of Sec. 31

Va. 13°06' E.

Base Line Range 24 W.

Chains

12 80 Ravine bears S.

40 00 Set Sandstone 24×8×4 for 1/4 Sec. Cor.

77 00 Enter Bottom of Sapp Creek bears S. E. & N. 70° W.

80 00 Set Sandstone 24×14×4 for Standard Cor. to Township 1 N. Range 24 & 25 W. Also set 4 sandstones at the Cardinal Points 10 ft. dist with a marginal elevation of earth between them according to special instructions for 3d Guide Meridian Cor.

Surface rolling Soil 2d rate

July 23d 1859

General Description

The land between the 2d & 3d Guide Meridians W. is generally of good quality, & is adapted to most branches of Agriculture commonly prosecuted in this Latitude, There is however a scarcity of Timber & to some extent of water, on & near the line,

Base Line

Prairie Dog + Sapp Creeks, are good running streams, they cross the line in a N. easterly direction + emptying their waters into the Republican Fork of Kansas River. There are some excellent Bottom lands on both streams + some 2d rate Elm Ash and Cottonwood Timber.

Base Line Range 25 W.

Chains

From Cor. to T. 1 N. Rs. 24 + 25 W. the same being the 3d Guide Meridian Cor. we run West along S. boundary of Sec. 36

Va. 13° 30' E.

12 50 Ravine bears S.
40 00 Set Sandstone 20 X 10 X 3. for 1/4 Sec. Cor.
65 85 Brook 4 lks wide runs S. + leaves Sapp Creek
Bottom bears S. 70° W. + N. E.
80 00 Set Sandstone 30 X 5 X 4 for Cor. to Secs. 35 + 36
Surface E. 2/3 level Bottom W. 1/3 rolling Upland
Soil 1st rate

West along S. boundary of Sec. 35

Va. 13° 31' E.

40 00 Set Sandstone 18 X 12 X 3 for 1/4 Sec. Cor.
70 00 Ravine bears S.
80 00 Set Sandstone 14 X 13 X 4 for Cor. to Secs. 34 + 35
Surface rolling, Soil 2d rate

West along S. boundary of Sec. 34

Base Line Range 25 W.

Chains

Va. 13°45' E.

31 55 Ravine bears S. 20° E.
40 00 Set Soft Limestone 15X10X4 for 1/4 Sec. Cor.
54 40 Ravine bears S. 25° E.
80 00 Set Limestone 24X9X6 for Standard Cor. to Secs. 33 & 34
Surface gently rolling. Soil 2d rate

West along S. boundary of Sec. 33

Va. 13°44' E.

40 00 Set Sandstone 16X12X3 for 1/4 Sec. Cor.
65 50 Ravine bears S. 20° E.
80 00 Set Sandstone 23X12X3 for Standard Cor. to Secs. 32 & 33
Surface E. 1/2 rolling W. 1/2 broken. Soil 2d rate

West along S. boundary of Sec. 32

Va. 13°44' E.

35 00 Ravine bears S. 25° W.
40 00 Set Sandstone 18X12X3 for 1/4 Sec. Cor.

Base Line Range 25 W.

Chains

49 30 Ravine bears S.
80 00 Set Sandstone 22X12X8 for Cor. to Secs. 31 & 32
Surface broken. Soil 3d rate

West along S. boundary of Sec. 31

Va. 13° E.

11 50 Ravine bears S.
22 50 Ravine bears S.
40 00 Set Sandstone 19X9X8 for 1/4 Sec. Cor.
50 60 Ravine bears S.
70 16 Ravine bears S. 20° E.
80 00 Set Sandstone 22X14X4 for Cor. to Fractional Secs. Range 25 & 26 W.
Surface broken. Soil 3d rate

Base Line Range 26 W.

Chains

From Cor. to T. 1 N. R. 25 & 26 W. on an West along S. boundary of Sec. 36

Va. 13° 14' E.

40 00 Set Sandstone 14 X 10 X 5 for 1/4 Sec. Cor.
48 40 Ravine bears S. E.
65 20 Ravine bears S. 10° E.
80 00 Set Sandstone 12 X 10 X 9 for Cor. to Sec. 35 & 36
Surface rather broken. Soil 2d rate

West along S. boundary of Sec. 35

Va. 13° 45' E.

11 30 Ravine bears S. 10° E.
40 00 Set Sandstone 13 X 12 X 8 for 1/4 Sec. Cor.
77 00 Ravine bears S.
80 00 Set Sandstone 13 X 12 X 9 for Cor. to Sec. 34 & 35
Surface broken. Soil 3d rate

West along S. boundary of Sec. 34

Va. 14° 12' E. (Irregular)

12 20 Ravine bears S.

Base Line Range 26 W.

Chains

40 00 Set Sandstone 18 X 10 X 3 for 1/4 Sec. Cor.
52 50 Ravine bears S. E.
80 00 Set Sandstone 16 X 10 X 7 for Cor. to Sec. 33 & 34
Surface rolling. Soil 2d rate

July 25, 1859

At this Cor. we compare our Solar & Transit instruments, after taking an observation of the Polar Star with the latter & find them made parallel lines

West along S. boundary of Sec. 33

Va. 14° 54' E.

40 00 Set Sandstone 18 X 12 X 3 for 1/4 Sec. Cor.
62 55 Ravine bears S.
80 00 Set Sandstone 16 X 12 X 4 for Cor. to Sec. 32 & 33
Surface gently rolling. Soil 2d rate

West along S. boundary of Sec. 32

Va. 14° 51' E.

5 85 Ravine bears S. 11° W.

Base Line Range 26 W.

Chains

40 00 Set Sandstone 14X12X3 for 1/4 Sec. Cor.
59 10 Ravine bears S. 20° W.
80 00 Set Sandstone 16X14X3 for Cor. to Secs. 31 & 32
Surface rolling. Soil light 2d rate

West along S. boundary of Sec. 31
Va. 14° E.

40 00 Set Sandstone 18X9X5 for 1/4 Sec. Cor.
80 00 Set Sandstone 24X15X4 for Cor. to Township 1 N.
Range 26 & 27 W.
Surface rolling. Soil 2d rate

Base Line Range 27 W.

Chains

From Cor. to S. 1 N. Rs. 26 & 27 W. on run
West along S. boundary of Sec. 36
Va. 13° 30' E.

1 30 Ravine bears S.
40 00 Set Soft Limestone 22X10X3 for 1/4 Sec. Cor.
80 00 Set Soft Limestone 20X17X2½ for Cor. to Secs. 35 & 36
Surface rolling. Soil 2d rate

West along S. boundary of Sec. 35
Va. 13° 30' E.

38 50 Ravine bears S. 10° E.
40 00 Set Soft Limestone 18X12X2½ for 1/4 Sec. Cor.
53 50 Ravine bears N. E.
80 00 Set Soft Limestone 16X12X5 for Cor. to Secs. 34 & 35
Surface gently rolling. Soil 2d rate

West along S. boundary of Sec. 34
Va. 13° 16' E.

40 00 Set Soft Limestone 15X14X3 for 1/4 Sec. Cor.
80 00 Set Soft Limestone 20X10X8 for Cor. to Secs. 33 & 34

Base Line Range 27 W.

Chains

Surface rolling. Soil 2d rate

West along S. boundary of Sec. 33

Va. 13°28' E.

4 20 Cross Col. Summers Road of 1857 N. & S.
The point of intersection is ½ mile N. of Summit
of Divide between Sapphe & Beaver Creek
10 80 Ravine bears N.
40 00 Set Soft Limestone 17X13X3 for ¼ Sec. Cor.
52 00 Ravine bears N. 20° E.
80 00 Set Soft Limestone 20X15X8 for Cor. to Secs. 32 & 33
E ½ mile rolling. 2d rate Soil W ½ broken 3d rate

West along S. boundary of Sec. 32

Va. 13°28' E.

40 00 Set Soft Sandstone 14X8X6 for ¼ Sec. Cor.
54 30 Ravine bears N. 30° W.
80 00 Set Soft Limestone 20X10X8 for Cor. to Secs. 31 & 32
Surface rather broken. Soil 3d rate

Base Line Range 27 W.

Chains

West along S. boundary of Sec. 31

Va. 13°28' E.

31 80 Ravine bears N. 10° W.
40 00 Set Sandstone 13X12X7 for ¼ Sec. Cor.
47 70 Ravine bears N. 15° W.
80 00 Set Sandstone 20X12X8 for Cor. to Township 1
N. Ranges 27 & 28 W.
Surface broken. Soil 2d rate

July 26, 1859

Range 28 W.

From Cor. to T. 1 N. Rs. 27 & 28 W. we run
West along S. boundary of Sec. 36

Va. 13°29' E.

40 00 Set Sandstone 15X9X4 for ¼ Sec. Cor.
44 00 Ravine bears N.
49 50 Ravine bears N. 10° W.
80 00 Set Sandstone 22X11X9 for Cor. to Secs. 35 & 36

Base Line Range 28 W.

Chains

Surface broken Soil 2d rate

West along S. boundary of Sec. 35
Va. 13°17' E.

40 w Set Sandstone 17X12X8 for 1/4 Sec. Cor.
51 30 Ravine bears N. 22° W.
80 w Set Sandstone 16X13X8 for Cor. to Sec. 34 + 35
Surface broken. Soil 2d rate

West along S. boundary of Sec. 34
Va. 13°18' E.

40 w Ravine bears N. 30° W. + set Sandstone 16X7
X5 for 1/4 Sec. Cor.
80 w Set Sandstone 18X14X6 for Cor. to Sec. 33 + 34
Surface rather broken. Soil 3d rate

West along S. boundary of Sec. 33
Va. 13°08' E.

3 40 Ravine bears N. 10° E.
40 w Set Sandstone 14X13X3 for 1/4 Sec. Cor.

Base Line Range 28 W.

Chains

68 95 Ravine bears N. 30° W.
80 w Set Sandstone 18X15X8 for Cor. to Sec. 32 + 33
in Ravine bears N.
Surface broken. Soil 3d rate

West along S. boundary of Sec. 32
Va. 13°20' E.

35 w Ravine bears N. 35° W.
40 w Set Sandstone 15X14X5 for 1/4 Sec. Cor.
61 80 Ravine bears N. 50° W. Enter Bottom bears N.E. & S.W.
80 w Set Sandstone 20X12X6 for Cor. to Sec. 31 + 32
E. of Bottom broken 3d rate, Bottom level 1st rate
not subject to overflow

West along S. boundary of Sec. 31
Va. 13°28' E.

32 w To a spruce 15 lks. N. of a perpendicular
projection of a Calcareous Sandstone 15 ft
high bears S.W. + S. E.
40 w Set Sandstone 14X8X6 for 1/4 Sec. Cor.

Base Line Range 28 W.

Chains

80 00 Set Sandstone 27X12X12 for Cor. to Township 1 N. Ranges 28 & 29 W.
Surface level 1st rate Bottom

Range 29 W.

From Cor. to T. 1 N. Rs. 28 & 29 W. we run West along S. boundary of Sec. 36
Va. 13° 31' E.

22 30 Beaver Creek 25 lks wide, 1 ft. deep Clear water & gentle current runs N. 20° E.
40 00 Set Sandstone 16X12X3½ for ¼ Sec. Cor.
45 00 Left Bottom beam N. E. & S. W.
61 20 Ravine beam S.
80 00 Set Sandstone 19X10X9 for Cor. to Secs. 35 & 36
Bottom level, Cottonwood rolling. Soil 2d rate

West along S. boundary of Sec. 35
Va. 13° 31' E.

Base Line Range 29 W.

Chains

12 60 Ravine beam N.
40 00 Set Sandstone 13X11X4 for ¼ Sec. Cor.
43 50 Ravine beam N. E.
80 00 Set Sandstone 16X12X8 for Cor. to Secs. 34 & 35
Surface gently rolling, Soil 2d rate

July 27, 1859

Now we take an observation of the Polar Star with our transit making a line with the same & find it & our line as seen with Burts Solar Compass to agree

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West along S. boundary of Sec. 34
Va. 13° 30' E.

21 00 Ravine beam S.
40 00 Set Sandstone 16X7X5 for ¼ Sec. Cor.
80 00 Set Sandstone 18X10X4 for Cor. to Secs. 33 & 34
Surface rolling. Soil good 2d rate.

West along S. boundary of Sec. 33
Va. 13° 30' E.

Base Line Range 29 W.

Chains

32 30 Ravine bears S. 10° E.
40 00 Set Sandstone 14X10X6 for ¼ Sec. Cor.
53 00 Ravine bears N. E.
80 00 Set Sandstone 17X6X5 for Cor. to Secs. 32 + 33
Surface rolling. Soil 2d rate

West along S. boundary of Sec. 32
Va. 13° 30' E.

12 30 Ravine bears N. 10° E.
40 00 Set Sandstone 15X11X5 for ¼ Sec. Cor.
64 90 Ravine bears N. E.
80 00 Set Sandstone 15X12X7 for Cor. to Secs. 31 + 32
Surface rolling. Soil 2d rate

West along S. boundary of Sec. 31
Va. 13° 30' E.

38 94 Ravine bears N.
40 00 Set Sandstone 13X10X5 for ¼ Sec. Cor.
80 00 Set Sandstone 15X14X8 for Cor. to T. 1 N. Rs. 29 + 30
Surface rolling. Soil sandy 2d rate

Base Line Range 30 W.

Chains

West along S. boundary of Sec. 36
Va. 13° 31' E.

40 00 Set Sandstone 16X9X7 for ¼ Sec. Cor.
52 00 Ravine bears N. 15° W.
80 00 Set Sandstone 18X15X3 for Cor. to Secs. 35 + 36
Surface high + rolling. Soil 2d rate

West along S. side of Sec. 35
Va. 13° 40' E.

16 80 Ravine bears N. 10° W.
40 00 Set Sandstone 16X12X3½ for ¼ Sec. Cor.
43 20 Ravine bears N.
57 90 Ravine bears N. E.
80 00 Set Sandstone 19X13X8 for standard Cor. to
Secs. 34 + 35
Surface high rolling Prairie 2d rate

West along S. boundary of Sec. 34
Va. 13° 45' E.

32 50 Ravine bears S.

Base Line Range 30 W.

Chains

40 00 Set Sandstone 15X8X7 for 1/4 Sec. Cor.
67 45 Ravine bears N.10° E.
80 00 Set Sandstone 15X8X6 for Cor. to Secs. 33 & 34
Surface high & broken. Soil 2d rate

West along S. boundary of Sec. 33
Va. 13°45' E.

40 00 Set Sandstone 14X11X5 for 1/4 Sec. Cor.
80 00 Set Sandstone 18X12X4 for Cor. to Secs. 32 & 33
Surface broken. Soil 3d rate

West along S. boundary of Sec. 32
Va. 13°36' E.

40 00 Set Sandstone 16X11X8 for 1/4 Sec. Cor.
43 00 Ravine bears S.
74 00 Ravine bears S.W.
80 00 Set Sandstone 20X12X5 for Cor. to Secs. 31 & 32
Surface broken. Soil 2d rate

West along S. boundary of Sec. 31

Base Line Range 31 W.

Chains

Va. 13°36' E.

1 40 Ravine bears S.W.
40 00 Set Sandstone 18X11X8 for 1/4 Sec. Cor.
80 00 Set Sandstone 20X12X7 for Cor. to Townships 1 N.
Ranges 30 & 31 W.
Surface broken. Soil 3d rate

July 28, 1859

At this Cor. we take an observation of the Polar Star & make a line with our Transit on the morning of 29th we compare & find it to agree with our line by Burt's Solar Compass

From Cor. to Cor. to Ranges 30 & 31 W. we run
West along S. boundary of Sec. 36
Va. 13°36' E.

9 50 Ravine bears N.E.
40 00 Set Sandstone 15X9X7 for 1/4 Sec. Cor.
42 60 Ravine bears N.10° E.
80 00 Set Sandstone 18X10X6 for Cor. to Secs. 35 & 36

Bas Lin Range 31 W.

Chains

Surface broken. Soil 2nd rate

West along S. boundary of Sec. 35

Va. 13°36' E.

15 70 Ravin bears N.
40 00 Set Sandstone 14 x 8 x 4 for 1/4 Sec. Cor.
47 80 Ravin bears N.
80 00 Set Sandstone 16 x 14 x 3½ for Cor. to Sec. 34 + 35
Surface broken. Soil 3rd rate

West along S. boundary of Sec. 34

Va. 13°40' E.

19 40 Ravin bears N.
37 80 Ravin bears N. 20° E.
40 00 Set Sandstone 16 x 10 x 4 for 1/4 Sec. Cor.
80 00 Set Sandstone 20 x 15 x 4 for Cor. to Sec. 33 + 34
Surface broken. Soil sandy 3rd rate

West along S. boundary of Sec. 33

Va. 13°40' E.

Bas Lin Range 31 W.

Chains

15 60 Ravin bears N.
40 00 Set Sandstone 15 x 10 x 5 for 1/4 Sec. Cor.
50 60 Ravin bears N.
60 55 Ravin bears N. E.
65 50 Ravin bears S. E.
80 00 Set Sandstone 23 x 12 x 4 for Cor. to Sec. 32 + 33
Surface broken. Soil sandy + poor

West along S. boundary of Sec. 32

Va. 13°44' E.

40 00 Set Sandstone 14 x 10 x 4 for 1/4 Sec. Cor.
64 10 Ravin bears N. E.
80 00 Set Sandstone 14 x 9 x 7 for Cor. to Sec. 31 + 32
Surface broken. Soil 3rd rate

West along S. boundary of Sec. 31

Va. 13°45' E.

2 00 Ravin bears N. E.
40 00 Set Sandstone 15 x 10 x 3½ for 1/4 Sec. Cor.
72 00 Ravin bears N.

Base Line Range 32 W.

Chains

80 w Set Sandstone 25 X 16 X 5 for Cor. to Township 1 N. Ranges 31 + 32 W.
Surface broken. Soil light-loam fully 2d rate

From Cor. to Township 1 N. Rs. 31 + 32 W. runs
West along S. boundary of Sec. 36
Var. 14° 30' E.

25 40 Ravine bears N.
40 w Set Sandstone 17 X 9 X 4 for 1/4 Sec. Cor.
80 w Set Sandstone 16 X 15 X 8 for Cor. to Secs. 35 + 36
Surface broken. Soil 3d rate

West along S. boundary of Sec. 35
Var. 14° E.

15 w Ravine bears N.
40 w Set Sandstone 21 X 10 X 4 for 1/4 Sec. Cor.
80 w Set Sandstone 14 X 11 X 7 for Cor. to Secs. 34 + 35
Surface broken. Soil 3d rate

July 29, 1859

Base Line Range 32 W.

Chains

West along S. boundary of Sec. 34
Var. 13° 45' E.

32 60 Deep Ravine bears N.
40 w Set Sandstone 16 X 11 X 6 for 1/4 Sec. Cor.
80 w Set Sandstone 16 X 15 X 8 for Cor. to Secs. 33 + 34
Surface broken. Soil 3d rate

West along S. boundary of Sec. 33
Var. 13° 45' E.

30 30 Ravine bears N. E.
40 w Set Sandstone 14 X 10 X 7 for 1/4 Sec. Cor.
80 w Set Sandstone 16 X 10 X 3 for Cor. to Secs. 32 + 33
Surface broken. Soil 3d rate

West along S. boundary of Sec. 32
Var. 13° 40' E.

40 w Set Sandstone 15 X 10 X 4 for 1/4 Sec. Cor.
80 w Set Sandstone 16 X 13 X 4 for Cor. to Secs. 31 + 32
Surface broken. Soil 3d rate

Base Line Range 32 W.

Chains

West along S. boundary of Sec. 31

Va. 13°35' E.

40 w Set Sandstone 14x9x6 for 1/4 Sec. Cor.

80 w Set Sandstone 30x21x6 for Cor. to Townshh 1 N. Range 32 + 33 W. the same being the 4th Guide Meridian Cor. West

we also set 4 sandstones on at each Cardinal point of the Compass + 10 ft dist. from Cor. raised an elevation of earth between them + establish the Cor. in all respects according to Special instructions

Surface broken. Soil 3rd rate

Base Line

General Description

The land lying between the 3d + 4th Guide Meridian lines, embracing 8 ranges varies considerably in quality. in the E. 2/3 of the district there is a considerable quantity of good farming land with a fine surface, the W. 1/3 of the district is less valuable as a farming country, the surface being quite broken + the soil thin. The Country is well supplied with stone but Timber + Water are scarce

Base Line Range 33 W.

Chains

From Cor. to T. 1 N. Rs. 32 & 33 W. WE run
West along S. boundary of Sec. 36
Va. 14° E.

40 00 Set Sandstone 13X8X5 for 1/4 Sec. Cor.
80 00 Set Sandstone 13X9X8 for Standard Cor. to Secs. 35 & 36
Surface gently rolling. Soil 2d rate

West along S. boundary of Sec. 35
Va. 14° E.

40 00 Set Sandstone 14X8X6 for 1/4 Sec. Cor.
80 00 Set Sandstone 17X12X7 for Cor. to Secs. 34 & 35
Surface gently rolling. Soil 2d rate

West along S. boundary of Sec. 34
Va. 13° 36' E.

40 00 Set Sandstone 13X10X4 for 1/4 Sec. Cor.
71 40 Ravine bean N.
80 00 Set Sandstone 18X9X5 for Cor. to Secs. 33 & 34
Surface rolling. Soil thin 3d rate

Base Line Range 33 W.

Chains

West along S. boundary of Sec. 33
Va. 13° 49' E.

7 41 Ravine bean N.W.
30 10 Ravine bean N.E.
40 00 Set Sandstone 13X10X5 for 1/4 Sec. Cor.
80 00 Set Sandstone 13X11X4 for Cor. to Secs. 32 & 33
Surface rather broken. Soil 2d rate
July 30, 1859

West along S. boundary of Sec. 32
Va. 13° 49' E.

40 00 Set Sandstone 15X9X4 for 1/4 Sec. Cor.
80 00 Set Sandstone 25X14X4 for Cor. to Secs. 31 & 32
Surface rolling. Soil a light sandy loam 2d rate

West along S. boundary of Sec. 31
Va. 13° 49' E.

40 00 Set Sandstone 16X11X4 for 1/4 Sec. Cor.
80 00 Set Sandstone 24X13X4 for Cor. to Township 1 N. Range 33 & 34 W.

Base Line Range 34 W.

Chains

Surface high & rolling. Soil light & sandy 2d rat

From Cor. to T. 1 N. Rs. 33 & 34 W. We run
West along S. boundary of Sec. 36

Va. 13°49' E.

38 30 Ravine bears N. E.
40 00 Set Sandstone 12 X 11 X 5 for 1/4 Sec. Cor.
80 00 Set Sandstone 15 X 12 X 3½ for Cor. to Secs. 35 & 36
Surface high rolling Prairie. Soil light 3d rat

West along S. boundary of Sec. 35

Va. 13°32' E.

31 60 Ravine bears N. 20° W.
40 00 Set Sandstone 13 X 11 X 4 for 1/4 Sec. Cor.
76 26 Jones & Russells Express Road to Denver City
bears N. 35° W. & S. 30° E.
80 00 Set Sandstone 16 X 13 X 6 for Cor. to Secs. 34 & 35
Surface rolling. Soil 3d rat

Base Line Range 34 W.

Chains

West along S. boundary of Sec. 34

Va. 13°30' E.

35 50 Ravine bears N. 15° W.
40 00 Set Sandstone 13 X 12 X 6 for 1/4 Sec. Cor.
80 00 Set Sandstone 24 X 15 X 5 for Cor. to Secs. 33 & 34
Surface rolling. 2d rat. Soil

West along S. boundary of Sec. 33

Va. 13°31' E.

24 90 Ravine bears N. 18° W.
40 00 Set Sandstone 13 X 11 X 4 for 1/4 Sec. Cor.
80 00 Set Sandstone 15 X 11 X 5 for Cor. to Secs. 32 & 33
Surface rolling. Soil 3d rat

West along S. boundary of Sec. 32

Va. 13°35' E.

15 45 Ravine bears N. 10° E.
20 80 Same Ravine bears S.
40 00 Set Sandstone 15 X 13 X 3 for 1/4 Sec. Cor.
80 00 Set Sandstone 20 X 16 X 7 for Cor. to Secs. 31 & 32

Base Line Range 34 W.

Chains

Surface rolling, Soil 2d rate

West along S. boundary of Sec. 31

Var. 13° 36' E.

40 00 Set Sandstone 12 X 8 X 6 for ¼ Sec. Cor.
54 20 Ravine bears S.
68 00 Ravine bears S. 15° E.
80 00 Set Sandstone 25 X 15 X 5 for Cor. to Township 1 N.
Range 34 & 35 W.
Surface rolling, Soil 2d rate

August 1, 1859

Base Line Range 35 W.

Chains

From Cor. to T. 1 N. Rs. 34 & 35 W. We run
West along S. boundary of Sec. 36

Var. 13° 35' E.

40 00 Set Sandstone 14 X 12 X 3 for ¼ Sec. Cor.
62 00 Ravine bears S. 15° E.
80 00 Set Sandstone 23 X 12 X 3 for Cor. to Secs. 35 & 36
Land rolling, 2d rate

West along S. boundary of Sec. 35

Var. 14° E.

9 50 Ravine bears S. 15° E.
38 35 Ravine bears S. 10° E.
40 00 Set Sandstone 21 X 11 X 6 for ¼ Sec. Cor.
80 00 Set Sandstone 23 X 12 X 3 for Cor. to Secs. 34 & 35.
Surface rolling, Soil nearly 2d rate

West along S. boundary of Sec. 34

Var. 13° 51' E.

19 70 Ravine bears S.
40 00 Set Sandstone 12 X 10 X 8 for ¼ Sec. Cor.

Base Line Range 35 W.

Chains

80 00 Set Sandstone 19X14X4 for Cor. to Secs. 33 & 34
Surface rolling, Soil 2d rate

West along S. boundary of Sec. 33
Va. 14° E.

19 00 Ravine bean S.
40 00 Set Sandstone 14X12X4 for 1/4 Sec. Cor.
80 00 Set Sandstone 15X12X4 for Cor. to Secs. 32 & 33
Surface rolling, scarcely 2d rate

West along S. boundary of Sec. 32
Va. 13°59' E.

40 00 Set Sandstone 16X12X3 for 1/4 Sec. Cor.
80 00 Ravine bean N.
80 60 Set Sandstone 17X10X6 for Witness Cor. to Secs. 31 & 32. The Cor. could not be made permanent at true point for same
Land broken 3d rate

West along S. boundary of Sec. 31

Base Line Range 36 W.

Chains

from true point for Cor.
Va. 13°49' E.

33 00 Deep Ravine bean N.W.
40 00 Set Sandstone 15X10X4 for 1/4 Sec. Cor.
68 00 Ravine bean N.W.
77 90 Ravine bean N.E.
80 00 Set Sandstone 23X14X6 for Cor. to Township 1 N. Range 35 & 36 W.
Surface broken, hilly sandy & poor

From Cor. to T. 1 N. Rs. 35 & 36 W. We run
West along S. boundary of Sec. 36
Va. 13°54' E.

25 00 Ravine bean N. 30° E.
40 00 Set Sandstone 14X12X4 for 1/4 Sec. Cor.
55 80 Centre of wide Ravine bean S.E.
66 25 Centre of same Ravine bean N.E.
80 00 Set Sandstone 19X13X4 for Cor. to Secs. 35 & 36
Land broken, Soil 2d rate

Base Line Range 36 W.

Chains

West along S. boundary of Sec. 35

Va. 13°48' E.

40 00 Set Sandstone 13X10X7 for ¼ Sec. Cor.

83 00 Set Sandstone 17X14X6 for Cor. to Secs. 34 & 35

Surface gently rolling. Soil 2d rate

West along S. boundary of Sec. 34

Va. 13°50' E.

40 00 Deposited a Sandstone marked thus X set post & raised mound as per instruction for ¼ Sec. Cor.

80 00 Deposited sandstone marked with a cross, raised a mound around a post as per instruction for Cor. to Secs. 33 & 34

Surface rolling. Soil good 2d rate

West along S. boundary of Sec. 33

Va. 13°55' E.

40 00 Deposited sandstone marked with a cross set post in mound as per instruction for ¼ Sec. Cor.

Base Line Range 36 W.

Chains

80 00 Found a Sandstone marked with a cross X & raised a mound around a post as per instruction for Cor. to Secs. 32 & 33

Surface rolling. Soil 2d rate.

August 2d 1859

At this Cor. we take an observation of the Polar Star with our Transit finding the line it makes. It agrees with our line by Burt's Solar Compass

West along S. boundary of Sec. 32

Va. 13°52' E.

40 00 Deposited sandstone marked with a cross set post in mound with trench & pits as per instruction for ¼ Sec. Cor.

45 25 Ravine bears S. E.

48 85 Ravine bears S. 60° E.

80 00 Deposited sandstone marked with a cross set post & raised mound as per instruction for Standard Cor. to Secs. 31 & 32

Base Line Range 36 W.

Chains

Land broken. 3d rate

West along S. boundary of Sec. 31

Va. 14° E.

40 00 Deposited sandstone marked with a cross set post + raised mound for 1/4 Sec. Cor.

80 00 Deposited sandstone marked with a cross set post + raised mound with trench + pits as per instruction for Standard Cor. to Township 1 N. Range 36 + 37 W.

Land rolling, Soil 2d rate

Base Line Range 37 W.

Chains

From Cor. to Tp. 1 N. Rs. 36 & 37 W. meas.

West along S. boundary of Sec. 36

Va. 14° E.

40 00 Deposited sandstone marked with a cross & set post in mound as per instruction for 1/4 Sec. Cor.

76 30 Racin bear S.

80 00 Deposited sandstone marked with a cross set post & raised mound with trench + pits as per instruction for Standard Cor. to Sec. 35 + 36

Land broken Soil 3d rate

West along S. boundary of Sec. 35

Va. 14° E.

40 00 Deposited sandstone marked with a cross set post in mound as per instruction for 1/4 Sec. Cor.

80 00 See sandstone 20x12x3 for Cor. to Sec. 34 + 35

Surface hilly, Soil sandy 2d rate

West along S. boundary of Sec. 34

Va. 14° E.

Base Line Range 37 W.

Chains

27 90 Stream 10 ch wide runs N. 15° W. water impregnated with Copperas

39 83 Set Sandstone 11x10x8 for Meander to 1/4 Sec. Cor.

40 00 Ravine bears N. here a Cor. mound not stone

80 00 Set Sandstone 14x12x9 for Standard Cor. to Secs. 33 & 34

Surface broken, Soil 2d rat

West along S. boundary of Sec. 33

N. 14° 14' E.

40 00 Set Sandstone 15x10x5 for 1/4 Sec. Cor.

80 00 Set Sandstone 20x12x6 for Cor. to Secs. 32 & 33

Land hilly 3d rat

West along S. boundary of Sec. 32

N. 14° 10' E.

40 00 Set Sandstone 15x10x6 for 1/4 Sec. Cor.

80 00 Set Sandstone 18x10x6 for Cor. to Secs. 31 & 32

Land rolling, Soil 2d rat

Base Line Range 37 W.

Chains

West along S. boundary of Sec. 31

N. 14° 05' E.

9 65 Jones & Russell Wagon Road to Denver City, bears N. E. & S. W.

18 25 Ravine with water in pools bears N. 10° E. & Entire Bottom bears N. E. & S. W.

40 00 Set Sandstone 12x10x8 for 1/4 Sec. Cor.

80 00 Set Sandstone 22x13x8 for Cor. to Secs. 31 & 36 the same being Cor. to Township 10 S. Ranges 37 & 38 W.

Surface chiefly level, 5d rat Bottom not subject to overflow.

August 3. 1869

Base Line Range 38 W.

Chains

From Cor. to T. 1 N. Rs. 37 + 38 W. we run
West along S. boundary of Sec. 36
Va. 14° E.

19 50 Intersect Channel of Republican Fork of Kansas River, run N. 20° E.

35 50 Leave left bank of same never entirely dry water found by digging 2 feet in the sand composing its bed

40 00 Set Sandstone 20×12×5 for 1/4 Sec. Cor.

43 00 Leave Bottom bear S. 30° W. & N. E.

66 10 A perpendicular Bank of sand + clay bear S. 30° W + N. E.

80 00 Set Sandstone 20×12×7 for Cor. to Secs. 35 + 36
Surface E. 3/4 level Bottom does not overflow
Soil sandy 3d rat W. of Bottom broken. 3d rat

West along S. boundary of Sec. 35
Va. 14° E.

40 00 Set Sandstone 20×10×9 for 1/4 Sec. Cor.

80 00 Set Sandstone 20×19×9 for Cor. to Secs. 34 + 35

Base Line Range 38 W.

Chains

Land high rolling Prairie. Soil 2d rat

West along S. boundary of Sec. 34
Va. 14° 00' E.

40 00 Set Sandstone 13×12×9 for 1/4 Sec. Cor.

80 00 Drove charred stake set post + raised mound as per instruction for Cor. to Secs. 33 + 34
Surface gently rolling. Soil 2d rat

West along S. boundary of Sec. 33
Va. 14° E.

40 00 Drove charred stake set post + raised mound as per instruction for 1/4 Sec. Cor.

80 00 Drove charred stake set post + raised mound as per instruction for Cor. to Secs. 32 + 33
Land gently rolling. Soil 2d rat

West along S. boundary of Sec. 32
Va. 13° 58' E.

40 00 Drove charred stake set post + raised a

Base Line Range 38 W.

Chains

mound with trench & pits as per instruction for W Sec. Cor.

57 00 Broad Ravine bears N.

80 00 Brass Chained stake set flat & raised a mound as per instruction for Cor. to Sec. 31 & 32

Land rather broken. Soil sandy 3/4 sat.

West along S. boundary of Sec. 31

Va. 13° 46' E.

6 00 Ravine bears N. E.

40 00 Brass chained stake set flat & raised mound as per instruction for W Sec. Cor.

80 00 Brass chained stake set flat in mound with trench & pits as per instruction for Cor. to Township 1 N. Ranges 38 & 39 W.

Surface broken. Soil sandy & poor.

Base Line Range 39 W.

Chains

From Cor. to T. 1 N. Rs. 38 & 39 W. I run West along S. boundary of Sec. 36

Va. 13° 46' E.

28 30 Deep Ravine bears N. E.

40 00 Brass chained stake set flat in mound as per instruction for W Sec. Cor.

51 25 Ravine bears N. 10° W.

80 00 Set Sandstone 16 x 10 x 4 for Cor. to Sec. 35 & 36

Surface extremely broken consisting of sand hills of conical form & of no value

West along S. boundary of Sec. 35

Va. 13° 45' E.

14 16 Ravine bears N. 10° E.

40 00 Set Sandstone 15 x 12 x 3 for W Sec. Cor.

56 30 Deep Ravine bears N. E.

73 70 Ravine bears N. W.

80 00 Set Sandstone 16 x 9 x 4 for Cor. to Secs. 34 & 35

Surface broken sand hills

Base Line Range 39 W.

Chains

West along S. boundary of Sec. 34

Va. 13°45' E.

3 30 Ravine bears N. 10° E.

34 30 Ravine bears N.

40 00 Set Sandstone 4 x 12 x 3½ for 1/4 Sec. Cor.

57 00 Bed of Creek 20 lks. wide now dry bears N.

80 00 Set Sandstone 18 x 9 x 4 for Standard Cor. to Secs. 33 & 34

Surface very broken being a succession of sand hills of no value

August 4th 1859

West along S. boundary of Sec. 33

Va. 13°43' E.

22 50 Ravine bears N.

26 55 Deep Ravine bears N.

40 00 Set Sandstone 14 x 9 x 4 for 1/4 Sec. Cor.

64 50 A deep cut 1 ch. wide with perpendicular banks of 30 ft. bears N. 10° E.

78 00 Ravine bears N. 10° W.

Base Line Range 39 W.

Chains

80 00 Set Sandstone 14 x 10 x 4 for Cor. to Secs. 32 & 33

Surface broken, sandy & worthless

West along S. boundary of Sec. 32

Va. 13°43' E.

12 50 Ravine bears N. 18° E.

33 40 Ravine bears N.

40 00 Set Sandstone 16 x 9 x 4 for 1/4 Sec. Cor.

80 00 Set Sandstone 16 x 10 x 8 for Cor. to Secs. 31 & 32

Surface broken, Soil 3rd rate

West along S. boundary of Sec. 31

Va. 13°45' E.

6 00 Ravine bears N.

40 00 Set Sandstone 17 x 13 x 4 for 1/4 Sec. Cor.

51 45 Ravine bears N. 15° W.

60 00 Ravine bears N.

80 00 Set Sandstone 17 x 9 x 4 for Corr. to T. 1 N. Rs. 39 & 40 W.

Land broken, Soil 3rd rate

Base Line Range 40 W.

Chains

West along S. boundary of Sec. 36 Township 1 N. Range 40 W.

Va. 13° 45' E.

11 00 Enter flat land between sand hills bear N. & S.

30 00 Leave sand bear N. 10° E. & S. 10° W.

40 00 Set Sandstone 15 x 10 x 4 for 1/4 Sec. Cor.

50 45 Ravine bears N. 10° E.

80 00 Set Sandstone 16 x 10 x 4 for Standard Cor. to Secs. 35 & 36

Surface chiefly broken, sand hills, mixed

West along S. boundary of Sec. 35

Va. 13° 46' E.

40 00 Set Sandstone 12 x 8 x 6 for 1/4 Sec. Cor.

80 00 Set Sandstone 16 x 12 x 3 for Cor. to Secs. 34 & 35

Surface broken sand hills

West along S. boundary of Sec. 34

Va. 13° 46' E.

Base Line Range 40 W.

Chains

40 00 Set Sandstone 16 x 12 x 4 for 1/4 Sec. Cor.

80 00 Set Sandstone 15 x 12 x 4 for Standard Cor. to Secs. 33 & 34

Surface broken sand hills

West along S. boundary of Sec. 33

Va. 13° 46' E.

9 00 Ravine bears N.

21 00 Ravine bears N. 10° W.

34 45 Ravine bears N. 12° E

40 00 Set Sandstone 12 x 10 x 7 for 1/4 Sec. Cor.

80 00 Set Sandstone 16 x 12 x 3 for Cor. to Secs. 32 & 33

Land broken sandy 3rd rate

West along S. boundary of Sec. 32

Va. 13° 46' E.

19 15 Ravine bears N. 15° E.

40 00 Set Sandstone 14 x 10 x 4 for 1/4 Sec. Cor.

80 00 Set Sandstone 16 x 10 x 4 for Cor. to Secs. 31 & 32

Surface broken, Soil 3rd rate

Base Line Range 40 W.

Chains

West along S. boundary of Sec. 31
Va. 13°48' E.

12 15 Ravine bears N. 15° W.
40 00 Set Sandstone 15 X 12 X 3 for 1/4 Sec. Cor.
56 25 Ravine bears N. 10° E.
80 00 Set Sandstone 22 X 9 X 8 for Cor. to Township 1 N.
Range 40 & 41 W. it is also the Cor. to
5th Guide meridian West & is signalized
by 4 stones set at the Cardinal points
of the Compass 10 ft. distant from the Cor.
& an elevation of earth raised between them
as per instructions
Surface broken Soil 3rd rate

August 5th 1859

General Description

The land between the 4th & 5th Guide Meridian
West is generally of rather a poor quality
yet the line runs immediately through the

sand Bluffs that border on the Kansas River
(Republican Fork of that River) The surface & soil a
short distance from line both N. & S. is
much better.
Timber & water are scarce, there is no
Timber worthy of notice on the River
at this Cor. we compared our line by Burts
Solar Compass with a line made by observation
of the Polar Star with a Transit instrument
& find them to agree

Surveyor General's Office
Leavenworth, Kansas June 15, 1867

I certify that the foregoing transcript of the field notes of the survey of the Base Line from the Missouri River to Range 41 West of the 6th Principal Meridian has been correctly copied from the original notes on file in this office.

H. S. Sleeper
Surveyor General

(Copy)

Transcripts of the Original field notes of the Survey of the Base Line through Ranges 41. 42 and 43.

Chs.	Lks.	
		Base Line R. 41 W. 7 6th Prin.l Mer.
		From the Corner to Township one North Ranges 40 & 41
		West. 10 chs
		West along the South boundary of Section 36
		Var. 13° 46' East.
40	00	Set a Sandstone 16 in long 13 in wide & 6 in thick for quarter Sec. Cor.
61	25	Ravine bears North
80	00	Set a Sandstone 14 in long 10 in wide and 4 in thick for Stand. Corner to Sections 35 and 36.
		Surface rather broken; Soil 3d rate.

West along the South Boundary of Section 35.
Var. 13° 46' East

40	00	Set a Sandstone 14 in long 12 in wide & 6 in thick for quarter Sec. Cor.
56	00	Ravine bears N. 10° W.
80	00	Set a Sandstone 14 in long, 12 in wide & 6 in thick for Stand. Cor. to Sec.s 34 & 35
		Surface broken and poor.

West along South boundary of Section 34.
Var. 13° 46' East

22	54	Ravine bears N. 10° W.
40	00	Set a Sandstone 12 in long 10 in wide & 8 in thick for quarter Sec. Cor.
67	90	Ravine bears North
80	00	Set Sandstone 13 in long 12 in wide & 6 in thick for Stand. Cor. to Sec.s 33 & 34
		Surface broken, Soil 3d rate.

Base Line R. 41 W. of 6th Principal Mer.

Chs	Lks	
		West along the South boundary of Section 33. Var. 13° 47' East.
36	70	Ravine bears N. 10 W.
40	00	Set a sandstone 15 in long 10 in wide and 6 in thick for quarter Sec. Cor.
80	00	Set a sandstone 12 in long 10 in wide & 7 in thick for Stand. Cor. to Sec. 32 & 33. Surface broken. Soil Sandy. 2nd rate.
		West along the South boundary of Section 32. Var. 13° 47' East.
40	00	Set a sandstone 15 in long, 9 in wide & 5 in thick for quarter Section Corner in a ravine - bears North.
80	00	Set a sandstone 16 in long 10 in wide and 4 in thick for corner to Sections 31 & 32. Surface broken; Soil 2nd rate.
		West along the South boundary of Section 31. Var. 13° 47' East.
40	00	Set a sandstone 15 in long 10 in wide and 3½ in thick for quarter Section Corner.
80	00	Set a sandstone 15 in long, 12 in wide and 4 in thick for Standard Corner to Township one North. Ranges 41 and 42 West. Surface broken, Soil 2nd rate.

Base Line R. 42 W. of 6th Prin.l Mer.

Chains	Lks.	
		From the corner to Township One North Ranges 41 & 42 West we run West along the South Boundary of Section 36 Variation 13° 37' East.
8	00	Intersect bottom land bears N.E. & S.W.
40	00	Set a sandstone 15 in long 10 in wide and 4 in thick for quarter Section Corner.
46	70	Leave bottom land bears N. 20 E. and S.W. and intersect the right bank of Chickaskia (Crickshose) fork of Kansas river. It is a sandy bed with no water on the surface yet we find it by digging 2 feet in the same. Course of Stream N. 20 E.
52	50	Leave bed of Stream.
80	00	Set a sandstone 16 in long, 11 in wide and 5 in thick for Standard Corner to Sections 35 and 36. Surface of Bottom land not subject to overflow. Most of Bottom broken. Soil 2nd rate. August 6th 1859.
		West along the South Boundary of Section 35 Var. 13° 52' East.
6	00	Ravine bears S.E.
31	30	Ravine bears S.E.

Base Line, Range 42 W. of 6th Prin. Mer.

Chs	Lks	
40	00	Set a Sandstone 16 in long, 12 in wide and 3 in thick for quarter Section Corner.
72	15	Ravine bears S. 20° E.
80	00	Set a Sandstone 16 in long, 10 in wide and 4 in thick for Corner to Sections 34 & 35. Surface broken. Soil 3d rate.

West along the South boundary of Section 34.
Va. 13° 52' East

13	00	Deep Ravine bears N. E.
40	00	Set a Sandstone 15 in long. 12 in wide and 4 in thick for quarter Corner.
52.80		To Colorado line as per measurement Geo. W. Fairfield 1872
60	31	Ravine bears S. 8 E. a few scattering Cottonwood trees on same both North and South of line yet not sufficient to define their boundary. There are numerous fine Springs of water half a mile above (North) of line. The Water sinks however, before reaching the point of intersection.
80	00	Set a Sandstone 16 in long. 12 in wide and 5 in thick for Corner to Sections 33 and 34. Surface broken; Soil 3d rate.

Length of line S. boundary Sec 34 to Colorado line is 52.80 chs. as per measurement of Geo W. Fairfield 1872 and from intersection south to monument 9.76 chs
Remeasurement by Robert Harvey State Surveyor May 1870 found to be 53.10 chs and distance of intersection to the monument 9.33 chs – From Mon. N. 53° 14' E 15.72 chs to the 1/4 cor on S. line Sec 34

Base Line, Range 42 W. of 6th Prin. Mer.

Chs	Lks	
		West along the South boundary of Section 33. Var. 13° 54' E
40	00	Set a Sandstone 12 in long 7 in wide and 6 in thick for quarter Sec. cor.
47	00	Ravine bears South.
54	77	Ravine bears South.
80	00	Set a Sandstone 15 in long 14 in wide and 8 (or 3) in thick for Corner to Secs 32 and 33. Surface broken, Soil 3d rate.

West along the South boundary of Section 32
Va. 13° 54' East

5	15	Ravine bears S. 8 E
40	00	Set a Sandstone 14 in long 12 in wide and 4 in thick for quarter Sec. Cor.
80	00	Set a Sandstone 12 in long 10 in wide and 5 in thick for Corner to Sections 31 & 32 Surface broken, Soil 3d rate.

West along the South boundary of Section 31
Var. 14° 22' East

40	00	Set a Sandstone 22 in long 12 in wide & 5 in thick for quarter Sec. Cor.
42	50	Ravine bears N. 20 E.
80	00	Set a flint stone 18 in long 13 in wide and 6 in thick for Corner to Townships One North Ranges 42 and 43. West Land broken 2d rate.

Base Line. Range 43 West of 6th Prin.l Mer.n

South boundary of T. 1 N. R 43 W. 6th Prin.l Mer.

West along the South boundary of Section 36
Township 1 North Range 43 W.
Var. 14° 36' East

40 00 Set a flintstone 12 in long 10 in wide and 5 in thick for quarter Section Corner.
72 00 Perpindicular Ledge flint mk bears N. W. & S. E.
80 00 Set a flintstone 24 in long 16 in wide and 5 in thick for Standard Corner to Sections 35 and 36
Surface broken; Soil 3d rate.

West along the South boundary of Section 35
Var. 14° 36' East

40 00 Set a flintstone 14 in long 12 in wide and 4 in thick for quarter Sec. Cor.
80 00 Set a flintstone 15 in long 10 in wide and 5 in thick for Standard Corner to Sections 34 and 35.
Surface broken; Soil 3d rate.

West along the South boundary Section 34
Var. 14° 36' East

40 00 Set a flintstone 12 in long 10 in wide and 5 in thick for quarter Sec. Cor.
80 00 Set a flintstone 15 in long 10 in wide and 5 in thick for Standard Corner to Sections 33 and 34.
Surface gently rolling, Soil sandy, 2nd rate. Aug 8. 1859.

Base Line Range 43 West of 6th Prin.l Mer.

Chs lks At this corner we take an observation of the Polar Star with a Transite making a line accordingly, and by comparison we find it to agree with our line made with Burts Solar Compass.

West along the South Boundary of Section 33.
Var. 14° 33' East

40 00 Set a flintstone 14 in long, 8 in wide and 5 in thick for quarter Section Corner.
80 00 Set a Sandstone 14 in long 10 in wide and 5 in thick for Standard Corner to Sections 32 and 33.
Land rolling. Soil 2nd rate.

West along the South Boundary of Section 32
Var. 14° 15' East

40 00 Set a flintstone 14 in long, 12 in wide and 3 in thick for quarter Section Cor.
80 00 Set a flintstone 15 in long 10 in wide and 5 in thick for Standard Corner to Sections 31 and 32.
Land rolling; Soil 2nd rate rather Sandy.

West along the South Boundary of Section 31
Var. 14° 15' East

40 00 Set a flintstone 16 in long 12 in wide and 5 in thick for quarter Sec. Cor.
80 00 Set a flint stone 15 in long 10 in wide and 5 in thick for Standard Corner to Township one North, Ranges 43 and 44 West. Land gently rolling Soil 2nd rate.

Surveyor General's Office
Lawrence Kansas June 12. 1869

I certify that the foregoing field Notes of the Survey of the Base Line through Ranges 41, 42 and 43 West of the 6th Principal Meridian in the States of Kansas and Nebraska, is correctly copied from the Original field Notes on file in this Office

C. W. Babcock
Surveyor General.

(Compd.)

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.