

WILLIAM AUSTIN BURT

From the portrait illustration in the *National Cyclopedia of American Biography*,
edition of 1907.

ANNALS OF IOWA

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ORIGINAL FIELD NOTES OF WILLIAM AUSTIN BURT OF THE SURVEY OF THE FIFTH PRINCIPAL MERIDIAN (NOW IN) IOWA, NOVEMBER, 1836

The National Cyclopaedia of American Biography (1907), Volume V, page 196, presents a portrait of William A. Burt and the following biography:

Burt, William Austin, surveyor, was born at Worcester, Mass., June 13, 1792, son of Alvin and Wealthy Austin Burt. In 1798 he removed with his parents to Montgomery County, New York. Although his advantages were few, yet by dint of much industry and effort he succeeded in educating himself, and at the age of fourteen was proficient in both surveying and astronomy. When he was seventeen years old the family emigrated to Erie County, New York, and in 1813 he joined the American forces in the war then being carried on against England. At the close of the war he engaged in mercantile pursuits, was elected magistrate of his district, and in 1824 settled near Detroit, Michigan. He held various local offices, and in 1833 was appointed United States deputy surveyor, in which capacity he surveyed northern Michigan (1840-47). He was the originator of the solar compass, which, after many honorary awards in America, received the prize medal at the London Industrial Exhibition in 1851. Mr. Burt also invented an equatorial sextant, but died before bringing it to perfection. He was judge of the Michigan circuit court, and as a member of the legislature in 1852 was prime mover in the construction of the Sault Sainte Marie canal. In 1813 he was married to Phoebe Cole, daughter of John Cole of Erie County, New York. Mr. Burt died August 18, 1858.

While the land surveys of Burt's were not earliest, they are first in utility. The description of all Iowa real estate for its precise location resulted. The course of every stream was noted and the situation of every lake. Burt's survey became the very basis of maps and mapping in Iowa. It is, has been and will remain well beyond calculation in value for the uses of mankind. The sheer amount of labor required and the bulk of material moved and applied by these men in erecting the markers at each

section and half section corner (where trees, as witness objects, did not occur), must amount to the largest physical achievement in construction, previous to railroad building. Witness trees were precisely named and measured. These notes answer forever the question where Iowa timber was, and amount to an inventory of the original forest resources of our state.

Herewith we present Mr. Burt's notes of his survey in Iowa of the Fifth Principal Meridian. That line was not, however, entirely Mr. Burt's work. He determined its location and ran it out, marked and established it only between the first and second correction lines, that is between the south boundaries respectively of townships 79 and 89, North. That was part of his engagement with the United States surveyor general. His points of beginning and ending left portions of it to be extended northward fourteen miles to the Mississippi River, by Orson Lyon, and southward some nine miles also to the Mississippi River, which was done by Harvey Parke. Their notes are included to complete this most important survey. We add Burt's notes for the second correction line (south boundary of Township 89) to the Mississippi River, the beginning of the second correction line.

We have encountered no adequate printed comment on the implications toward the history of the people of Iowa, of this work of Mr. Burt. Of course there were many surveyors who could have done the work he did. But opportunity did not come to them. It came to him and was fully met. That advances his name to conspicuousness as a lone performer. He determined the initial point of the Fifth Principal Meridian, which also fixed the initial points for locating the first and the second correction lines. These three lines control precise location of all Iowa land descriptions. It never is, nor will be, correct, to omit from any deed, lease or easement in Iowa land parcels, reference to the Fifth Principal Meridian. And each repetition of the vital phrase "west (or east) of the Fifth Principal Meridian in Iowa" in every land title in our state forever, is an equivalent to saying "W. A. Burt." This approaches nearer to immortality than any other act of any other man of Iowa. Burt's was a job, like that of every other surveyor. Under oath and under his contract, and on the usual honor of a responsible and a

capable professional man, he made his observations and measurements and registered them in his field books, then certified and transmitted them complete in autograph. It is that point in both time and fact that marks the passing into order and out of uncertainty from the world of the old "metes and bounds" system of location to that of right lines and rectangles in the affairs of man; from "spots" to "areas" in verbal usage; from archaic to modern practices, in relation to the earth's surface, in industry, agriculture and in jurisprudence. They are boundaries between owners or occupants of land, between political townships, between counties, judicial and congressional districts. They are fixed and the admeasurement is made in acres of those areas individuals possess, and over which corporate authority is exercised.

Natural advantages and disadvantages to human life in the pioneer stage are impartially noted. This led toward wisdom on the part of the government and of the settlers in the sale and patenting of the public lands. Where there were mineral deposits known or suspected, the description of these were noted. If there were stone or other building materials, these were listed and described. If there were streams, springs or other water sources, they were noted, charted and their use suggested for health or industry. No man came into the country through the medium of the general land office unaware of a local land adaptability to specific use, or without specific knowledge which aided in the exercise of prudence for the health and wealth of a settler or his family. Burt and his kind were well trained, albeit self-educated. The humble maxim "settle 'cordin' to wood and water" was thus by the land survey in better grammatical form bulletined with the more formal and technical description of the country to be settled. It was good policy. The land surveyor was required to bilk nor bludgeon no one. That was left for later "business"—often shady business—the land "merchant" or land "shark."

In presenting these notes we followed the style, page by page, in which they appear in the original; abbreviations, capitalization, punctuation, surveyors' characters, etc.

It is little short of astonishing to observe Mr. Burt and his

staff could, and did, survey in this rough country the Fifth Principal Meridian and the beginning of the Second Correction Line in eight days a total of seventy-two miles.

The footnotes alone are in fact and style those of the editor of the ANNALS.

WM. A. BURT, DEPT. SURVEYOR

[Vol. 4, Books 17-21, Book 18, pp 1-60]

North on 5th principal Mer. from 1st correction Line Wisconsin Territory

Var. 8° 5' E

North on East Side of Section 36 Township 79 N. Range 1 West¹

40.00^{1a} Set qr. Section Post & made Mound

80.00 Set Post Cor. of Sections 25 & 36 & made Mound

Land Rolling good 2nd Rate Prairie Soil Sandy Loam

P 2

East Boundary of T 79 N R 1 W 5th pr. Mer

North on East Side of Sect 25

22.50 Road C. N. W., [Road, course northwest.]

40.00 Set qr. Section Post & made Mound

63.00 Trail C. N W

80.00 Set Post Cor. of Sects 24 & 25 & made Mound

Land same as before

P 3.

East Boundary of T 79 N. R 1 W. 5th pr Mer.

North on East Side of Section 24

40.00 Set qr. Section Post & made Mound

80.00 Set post cor. of Sections 13 & 24 & made Mound

Land Same

P 4.

East Boundary of T 79 R. 1 W 5th pr Mer.

Var 7° 45'

North on East Side of Section 13

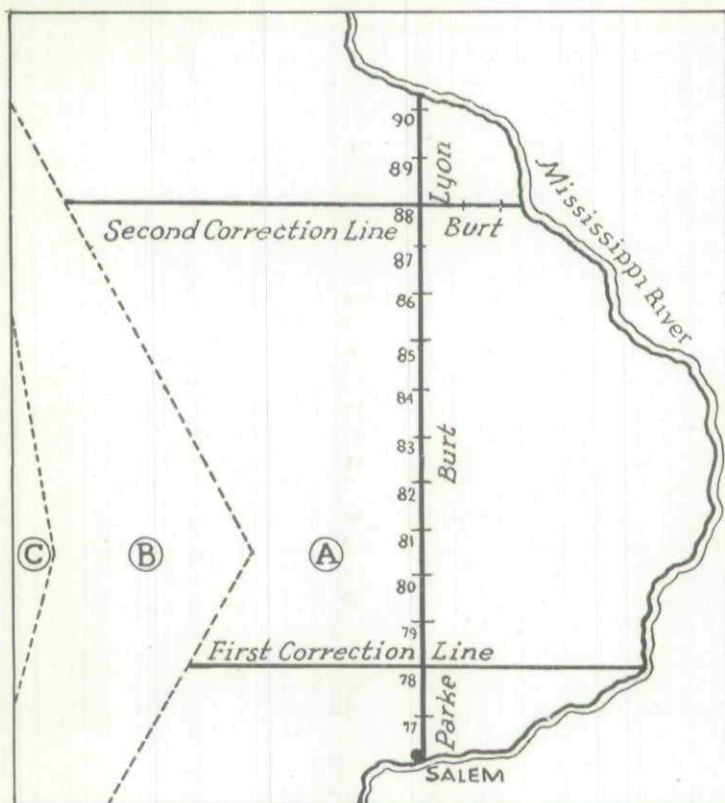
40.00 Set qr Section Post & made Mound

80.00 Set Post cor of Sects 12 & 13 & made Mound

Land first $\frac{1}{2}$ Same last $\frac{1}{2}$ Level & wet

¹This point where Mr. Burt began the survey was at the southeast corner of what is now Farmington Township, Cedar County, and the southwest corner of Caleona Township, Scott County. The present town of Durant lies immediately to the northwest, in the south half of Section 36, Farmington Township. It was platted in 1854, eighteen years after this survey was made.

^{1a}40.00 = 40 chains, no links.



THE FIFTH PRINCIPAL MERIDIAN (NOW IN) IOWA

Explanations

(A) A portion of the Black Hawk Purchase, 1832; surveyed in 1836-37.

(B) A portion of the Second Purchase, 1837; surveyed 1838.

(C) The New Purchase, 1842, surveyed 1843-53.

Note: Burt established the intersection of the First Correction Line with the Fifth Principal Meridian; the six-mile intersections on the Fifth Principal Meridian of the township lines, including that of the south boundary of Township 89 which is the Second Correction Line, then turned east and established the range lines on it to the Mississippi River.

Lyon continued the Fifth Principal Meridian north beyond the Second Correction Line to the Mississippi River. Parke continued it south beyond the First Correction Line to the Mississippi River.

P 5.

East Boundary of T 79 N. R 1 W. 5th pr Mer.

North on East Side of Section 12

40.00 Set qr Section Post & made Mound

76.20 Stream² 10 L. C. ESE [stream 10 links, course, east southeast]

80.00 Set Post cor of Sect 1 & 12 & made Mound

Land Rolling 2nd Rate Soil Loam & Sand

P 6

E boundary of T. 79 N. R. 1 W. 5th pr Mer.

North on East Side of Section 1

40.00 Set qr Section Post & made Mound

80.00 Set Post corner of Ts 79 & 80 Between R's 1 E & 1 W & made Mound³

Land Same

P 7

East Boundary of T 80 N. R. 1 W 5th Mer.

North on East Side of Section 36

16.75 Trail C. WNW

40.00 Set qr Post & made Mound

80.00 Set Post Cor. of Sects 25 & 36 & made Mound

Land Rolling good 2nd Rate Prairie Soil Loam & Sand

P 8

East Boundary of T. 80 N. R. 1 W. 5th pr Mer.

Var. 7° 10'

North on East Side of Section 25

40.00 Set qr Section Post & made Mound

80.00 Set Post cor. of Sects. 24 & 25 & made Mound

Land Same

P 9

East Boundary of T 80 N. R. 1 W. 5th pr. Mer.

Var. 7° 15' E

North on East Side of Section 24

40.00 Set qr Section Post & made Mound⁴

80.00 Set Post Cor. of Sects 13 & 24 & made Mound

Land Same

P 10

East Boundary of T 80 N. R 1 W 5th pr. Mer.

Var 7° 25' E

North on East Side of Section 13

²Head waters of Mud Creek which runs east and northeast some twelve miles where it flows into the Wapsipinicon River.

³This now is the southeast corner of Inland Township, Cedar County, and the southwest corner of Liberty Township, Scott County.

⁴The present town of New Liberty, Scott County, is one half mile east.

BURT'S SURVEY OF FIFTH PRINCIPAL MERIDIAN 89

24.50 Trail C. WNW
 40.00 Set qr Section Post & made Mound
 80.00 Set Post cor. of Sects 12 & 13 & made Mound
 Land Same

P 11.

East Boundary of T. 80 N. R. 1 W 5th pr Mer.
 Var 7° 40' E

North on East Side of Section 12

18.00 Leave Prairie C E & W
 20.29 Cherry 12 in dia
 40.00 Set qr Section Post
 B Oak 10 N 8 W 58 }
 Do 15 South 61 } Bearings
 42.50 Stream 15 L. C. NW
 64.50 B. Oak 13
 80.00 Set Post Cor. of Sects 1 & 12
 B. Oak 16 S 63 W 64 }
 Do 15. N 25 W 93 } Bearings
 Land Rolling good 2nd Rate W & B Oak Hickory Hazle &c
 November 13, 1836
 Rainey

P 12

East Boundary of T. 80 N. R 1 W 5th pr. Mer.
 Var 8° 00' E

North on East Side of Section 1

5.00 Leave timber C NE
 8.00 Creek 25 L. C. NE
 12.50 Do 25 L. C. N. W.
 17.00 Do 25 L. C. E
 40.00 Set qr Section Post
 Burr Oak 12 N 34 W 307
 Do 10 N 37 W 336
 42.00 Enter timber
 53.32 W. Oak 12 in dia
 80.00 Set Post Cor. of T's 80 & 81 N R's 1 E & 1 W⁵
 W. Oak 11 S 32 E 39 }
 B. Oak 12 N 17 W 32 }
 Land Same

P 13

East Boundary of T 81 N. R. 1 W. 5th pr Mer. 9. O. C. A. M.
 Var 8° 45'

North on East Side of Section 36

⁵Now the southeast corner of Springfield Township, Cedar County, and the southwest corner of Spring Rock Township, Clinton County, and of Clinton County.

17.48 W. Oak 20
 31.67 B. Oak 18
 40.00 Set qr Section Post
 W. Oak 11 N 21 W 41 } Bearings
 Hickory 12 S 22 W 98 }
 47.75 Stream 12 L. C. E.
 80.00 Set post cor of Sects 25 & 36
 W Oak 6 N 42 W 69 } Bearings
 B Oak 6 S 75 W 58 }
 Land Rolling 2nd Rate W & B Oak Hickory Hazel

P 14.

East Boundary of T. 81 N. R. 1 W. 5th pr Mer
 Var 8° 50' E

North on East Side of Section 25

19.30 B. Oak 10
 40.00 Set qr Section Post
 B Oak 12 S 72½ W 321 } Bearings
 Do 5 N 6 W 55 }
 49.51 B. Oak 13
 80.00 Set Post cor. of Sects 24 & 25
 Hickory 10 N 35 W 11 } Bearings
 B Oak 19 S 19 W 61 }
 Land Rolling 2nd Rate W & B. Oak Hickory Hazel Soil Loam

P 15

East Boundary of T 81 N. R 1 W. 5th pr. Mer.
 Var 8° 50' E

North on East Side of Section 24

30.00 Enter prairie C. E&W
 40.00 Set qr Section Post & made Mound
 53.50 Stream 10 L. C. ENE
 80.00 Set Post Cor. of Sects 13 & 24 & made Mound
 Land &c Same

P 16

East Boundary of T 81 N. R 1 W 5th pr Mer.
 Var 8° 45'

North on East Side of Section 13

40.00 Set qr. Section Post & made Mound
 50.00 Leave Prairie C. NW
 52.23 W. Oak 12
 80.00 Set Post cor of Sects 12 & 13
 W. Oak 18 N 18 W 276 Bear.
 No other near Land Same

P 17

East Boundary of T. 81 N. R. 1 W. 5th pr. Mer.

Var 8° 45'

North on East Side of Section 12

6.63 W. Oak 12

10.00 Enter Prairie C. NW

40.00 Set qr. Sect Post made Mound

65.80 Creek 20 L. C. SE

80.00 Set Post cor. of Sects 1 & 12⁶ & made Mound

Land first $\frac{1}{2}$ Rolling Last $\frac{1}{2}$ Level & wet 2nd Rate W & B
Oak &c Soil Sand & Loam

P 18

East Boundary of T. 81 N. R. 1 W. 5th pr. Mer.

North on East Side of Section 1

40.00 Set qr. Section Post & made Mound

80.00 Set Post cor. of T's 81 & 82 N⁷ & made Mound

Land level & wet Prairie

P 19

East Boundaries of T. 82 N. R. 1 W. 5th pr. Mer.

North on East Side of Section 36

40.00 Set qr Section Post & made Mound

50.00 Enter grove

75.00 Leave Do

80.00 Set Post cor. of Sects 25 & 36 & made Mound

Land Rolling good 2d Rate Elm Thorn Hazel Boxwood &c
Soil Loam & Sand

P 20

East Boundary of T. 82 N. R. 1 W. 5th pr Mer.

Var 8° 40'

North on East Side of Section 25

40.00 Set qr. Section Post & made Mound

80.00 Set post Cor. of Sects. 24 & 25 & made Mound

Land Rolling good 2d Rate Prairie

P 21

East Boundary of T. 82 N. R. 1 W. 5th pr Mer.

Var 8° 20' E

North on East Side of Section 24

40.00 Set qr Section Post & made Mound

⁶The main line of the Chicago & Northwestern Railway now crosses the Fifth Principal Meridian near this point.

⁷Now the southeast corner of Massillon Township, Cedar County, and the southwest corner of Liberty Township, Clinton County.

80.00 Set post Cor. of Sects 13 & 24 & made Mound
 Land Same as before
 November 14, 1836
 Same Cloudy

P 22

East Boundary of T. 82 N. R. 1 W 5th pr. Mer.
 Var 8° 00' E

North on East Side of Section 13

4.00 Leave Prairie C. E & W
 15.22 Stream⁸ 10 L. C. E
 22.76 Br. Oak 14
 40.00 Set qr Section Post
 W. Oak 7 N 10 W 94 } Bearing
 No other
 53.46 B Oak 18
 67.00 River Bottom C. SE
 [Several words struck out in here]
 80.00 Cor. of Sections 12 & 13⁹
 B. Oak 12 S 66 W 53 } Bearing
 Do 16 N 57 W 39
 Land Rolling & Some broken 2d Rate W & B Oak Hickory
 Hazel Plumb Soil Loam

P 23

East Boundary of T 82 N. R. 1 W. 5th pr. Mer.

North on East Side Sec. 12

4.00 Intersect Wapsipinecon R. & set post
 Sycamore 18 S 66 W. 27 Bearing
 8.37¹⁰ Over River from Sect Cor & Set Post
 11.00 Leave Bottom
 W. Ash 10 N 88 E 58 } Bearings
 Birch 8 S 54½ W 25
 13.06 W. Oak 16
 40.00 Set qr. Section Post
 B. Oak 18. North 604 } Bearings
 no other
 47.50 Enter Prairie C NW
 80.00 Set Post Cor. of Sections 1 & 12 & made Mound
 Land good 2nd Rate W & B Oak Elm & C

⁸Now called Plum Creek, running east into Wapsipinecon River.

⁹The present town of Massillon is in the northern part of the northeast quarter of Section 14, Massillon Township, about one and one-fourth miles west of this point.

¹⁰The difference between 4.00 chains and 8.37 chains is 4.37 chains. As the length of one chain is 66 feet, 4.37 chains is 288.42 feet, or 17.48 rods, which was the width of the river at that place.

P 24

East Boundary of T. 82 N. R. 1 W. 5th pr. Mer.

Var 8° 00' E

North on East Side of Section 1

20.00 A granite Boulder 25 feet Dis. & 14 ft. in height bears S 83 W.
280 Links

40.00 Set qr Section Post & made Mound

50.00 Pond

62.50 Over Pond

80.00 Set Post Cor. of T's 82 & 83 N & made Mound¹¹

Land Rolling 2d Rate Soil Sand & Loam

P 25

East Boundary of T. 83 N. R. 1 W. 5th pr. Mer.

North on East Side of Section 36

40.00 Set qr. Section Post & made Mound

60.00 Enter Marsh C. E & W

68.50 Leave Do

80.00 Set Post Cor. of Sects 25 & 36 & made Mound

Land poor 2d Rate Soil Sandy

Var 8° 20' E

P 26

East Boundary of T 83 N. R. 1 W. 5th pr. Mer.

North on East Side of Section 25

40.00 Set qr Section Post & made Mound

80.00 Set Post cor. of Sects. 24 & 25 & made Mound

Land Rolling 2d Rate Soil Sandy

P 27

East Boundary of T 83 N. R 1 W. 5th pr. Mer.

Var 8° 25' E

North on East Side of Section 24

40.00 Set qr. Section Post¹² & made Mound

80.00 Set Post Cor. of Sects 13 & 24 & made Mound

Land Rolling & some broken 2d Rate Soil Sand Loam

November 15 1836

Some cloudy P M

P 28

East Boundary of T 83 N. R 1 W. 5th pr Mer.

Var 8° 30' E

North on East Side of Section 13

35.30 Br. Oak 12 enter prairie

¹¹Now the southeast corner of Oxford Township, Jones County, and of Jones County, and the southwest corner of Sharon Township, Clinton County. It is also now the northeast corner of Cedar County.

¹²The present town of Oxford Junction is in the western part of Section 22, about three miles west of this point.

- 40.00 Set qr. Section Post
 W. Oak 8 S 71 W 97 } Bearing
 Do 15 S 68 E 43 }
 80.00 Set Post Cor. of Sects 12 & 13
 B. Oak 9 S 7½ W 1.56 } Bearings
 No other }
 Land Rolling 2d Rate Br. W. & B. Oak Soil Sandy Loam

 P 29

East Boundary of T. 83 N. R. 1 W. 5th pr Mer.
 Var 8° 40' E

North on East Side of Section 12

- 40.00 Set qr. Section Post
 B. Oak 7 West 1.23 } Bearings
 Do 9 S 59½ W 191 }
 51.17 Bur Oak 6 in dia
 80.00 Set Post Cor. of Sects 1 & 12
 Hickory 16 N 6 W 452 } Bearings
 No other near }
 Land & timber Same

 P 30

East Boundary of T. 83 N. R 1 W 5th pr. Mer.
 Var. 8° 45' E

North on East Side of Section 1

- 40.00 Set qr. Section Post
 Br. Oak 10 S 56 E 70 } Bearings
 W. Oak 20 N 12½ W 338 }
 41.20 Stream 8 lks. C. SW
 42.90 limestone ledge 8 lks west of line
 67.30 Br Oak 12
 80.00 enter Prairie C. E. & W
 80.00 Set Post Cor. of T's 83 & 84 N.¹³
 Bur Oak 12 West 114
 Land & timber Same

 P 31

East Boundary of T. 84 N. R. 1 W. 5th pr. Mer.
 Var 8° 45' E

North on East Side of Section 36

- 2.32 Stream 6 L. C. East
 40.00 Leave Prairie C NW
 40.00 Set qr Section Post
 Bur Oak 8 N 56 W 159 } Bearing
 Do 9 N 61 E 100 }

¹³Now the southeast corner of Wyoming Township, Jones County, and the southwest corner of Monmouth Township, Jackson County, also of Jackson County, and the northwest corner of Clinton County.

55.57 W Oak 14 in dia
 72.31 Do 12 " "
 80.00 Set Post Cor. of Sects 25 & 36
 W. Oak 14 N 63 W 52 } Bearings
 Do 14 N 85 W 81 }
 Land Broken poor 2d Rate W. & B. Oak Lynn Elm &c
 X Lime Stone Ledge (See next page)

 P 32

East Boundary of T 84 N. R. 1 W. 5th pr. Mer.
 Var 8° 47' E

North on East Side of Section 25

4.40 descend limestone ledge Bank of creek
 13.90 Creek 35 L C. E¹⁴
 15.00 Ascend Bank
 41.09 W. Oak 14
 40.00 Set qr. Section Post
 W. Oak 12 N 30 W 47 } Bearings
 Do 12 South 33 }
 72.04 Br Oak 12
 80.00 Set Post Cor. of Sections 24 & 25
 W. Oak 12 S 54 W 93 } Bearings
 W. Oak 12 North 6 }
 Land Broken Poor 2d Rate W & B & Br Oak Soil Clay & Loam

 P 33

East Boundary of T. 84 N. R 1 W. 5th pr. Mer.
 Var. 8° 50' E

East Boundary of Sect 24

00.06 W Oak 10
 21.22 Br. Oak 12
 26.00 Stream 10 L. C. ESE
 40.00 Set qr. Section Post
 W. Oak 14 N 43 W 109 } Bearing
 B. Oak 22 S 1 W 300 }
 80.00 Set Post Cor. of Sects 13 & 24¹⁵
 B. Oak 8 N 6½ W 620 } Bearings
 W. Oak 15 S 2 W 464 }
 Land Same

 P 34

East Boundary of T. 84 N. R 1 W. 5th pr Mer.
 Var. 8° 50'

North on East Side of Section 13

1.00 Trail E & W

¹⁴Bear Creek, which empties into the Maquoketa River about seven miles northeast from this point.

¹⁵The present town of Monmouth, Jackson County, is located one mile east of this point.

- 43.90 B Oak 11
 40.00 Set qr Section Post
 W. Oak 24 N 80 W 147 } Bearings
 B. Oak 8 S 57 W 85 }
 48.38 Stream 20 L. C.E
 68.50 Descend ledge of Lime Rock
 71.00 Stream 5 L C SE.
 80.00 Set Post Cor. of Sects 12 & 13
 B. Oak 15 S 80 W 493 } Bearings
 Br. Do 14 N 57 W 422 }
 Land Rolling 2d Rate B & W Oak Hickory Soil Loam

 P 35

East Boundary of T. 84 N. R 1 W. 5th pr. Mer.

Var 8° 50' E

North on East Side of Sect. 12

- 5.35 Spring Brook 3 L C W
 7.00 Stream 5 L. C. SW
 16.00 Descend Limestone Ledge
 18.00 Stream 5 L C NE
 30.50 Ravine 250 L wide C. SW
 40.00 Set qr. Section Post
 W Oak 12 S 67 W 66 } Bearings
 Oak 12 N 83 W 159 }
 75.96 W Oak 14
 80.00 Set Post cor of Sects 1 & 12
 W. Oak 14 S 50 W 14 } Bearings
 Do 15 West 21 }
 Land Rolling 2d Rate W. & B. Oak Soil Clay Land & gravel

 P 36

East Boundary of T. 84 N. R 1 W. 5th pr. Mer.

Var 9° 00'

North on East Side of Section 1

- 7.54 W. Oak 12
 22.30 B Oak 15
 40.00 Set qr. Section Post
 W. Oak 24 N 22 W 15 } Bearings
 Do 26 S 80 W 45 }
 61.30 W. Oak 24
 80.00 Set Post Cor of Ts 84 & 85 N¹⁶
 Bur Oak 18 N 38 W 30 } Bearings
 W —Oak 11 S 52 E 68 }
 Land &c Same
 November 16, 1836
 Same Cloudy

¹⁶Now the southeast corner of Clay Township, Jones County, and the southwest corner of Brandon Township, Jackson County.

P 37

East Boundary of T. 85 N. R. 1 W. 5th pr. Mer.

Var. $9^{\circ} 10' E$

North on East Side of section 36

40.00 Set quarter Section post

Bur Oak 14 S. 64 E 113

Do. 15 S 37 E 122

} Bearings

80.00 Set post cor. to Sec. 25 & 36

Bur Oak 7 N. 79 W. 191

Do. 8 S. 54 W. 127

} Bearing

Land rolling good 2d rate, — Timber, W. B. & Br. Oak, Hazel,
thinly timbered

P 38

East Boundary of T 85 N. R. 1 W. 5th Mer

Var. $9^{\circ} 3' E$

North on East Side of Section 25

22.00 Descend bank

24.00 Creek 35 L. crs. E.

26.50 Do 35 L. crs. N. W.

29.80 Do. 35 L. crs. E

30.25 Ascend Bank

40.00 Set $\frac{1}{4}$ r Section postBur Oak 12 N. $50\frac{1}{2}$ E. 819

No other near

} Bearing

63.64 Br. Oak 8

80.00 Set post cor. of Sec. 24 & 25

Bur Oak 12 N. $70\frac{1}{2}$ W. 198, bearing No other nearLand rolling & some stoney 2d rate — W. B & Br Oak Soil
sandy loam

P 39

East Boundary of T. 85 N. R. 1 W. 5th pr. Mer.

North on the East side of Section 24

15.00 Descend Bank

17.37 Intersect Maquockety River & set post

Elm 12 S. 86 W. 27

Do 13 S. 60 E 41

} Bearings

19.64 Over River & set post

Elm 13 N. 55 W. 33

Do 12 N. $39\frac{1}{2}$ E. 54

} Bearings

36.39 Elm 12

40.00 Set qr. section post

Sugar 12 N. 19 W. 28

Lynn 10 S. 6 W. 17

} Bearing

49.62 Cherry 14

- 56.95 Intersect Mequockety River & set post
 Butternut 18 S. $73\frac{1}{2}$ W 62 } Bearing
 Birch 18 N 83 E. 6 }
 59.17 Over River, Maple 7 Corner
 Maple 10 S. 88 W. 34
 73.28 B. Oak 14
 80.00 Set post cor. of Sec. 13 & 24
 W. Oak 12 N. 1 W 114 }
 Do 16 S. 18 W. 84 }
 Land good 2d rate, — W. & B Oak, Lynn, Sugar, Walnut &c

 P 40

East Boundary of T 85 N. R. 1 W. 5th pr. Mer.

North on East Side of Section 13

- 14.95 Intersect Mequockety River
 Elm 12 in. dia Corner
 17.33 Over River & set post
 Red Cedar 11 N $77\frac{1}{2}$ W. 65 } Bearing
 Birch S 4 B. 80 E 55 }
 18.50 Ascend Bank
 26.61 Sugar 12
 37.93 W. Oak 14
 40.00 Set qr. Section Post
 73 Oak 15 N. 38 W. 23 } Bearings
 W. Oak 16 S. 44 W. 70 }
 50.00 Stream 5 L. crs. S. E.
 53.80 B. Oak 7
 80.00 Set post corner of Sections 12 & 13
 Lynn 14 N. 8 W. 96 } Bearings
 W. Oak 15 S. 11 W. 71 }
 Land, broken poor 2 rate W & B. Oak, Lynn, Sugar, — Soil
 sand & clay

 P 41

East Boundary of T. 85 N. R. 1 W. 5th Pr. Mer.

North on East Side of Section 12

- 1.80 Foot of perpendicular ledge of rock 25 ft. high
 25.28 B. Oak 12
 40.00 Set qr. Section post
 Lynn 18 S. 42 W. 60 } Bearings
 W Ash 12 N. 84 W. 42 }
 43.00 W. Ash 14
 62.15 W. Oak 20
 80.00 Set post corner of sections 1 & 12
 B. Oak 12 N. 32 W. 42 } Bearings
 Do. 11 S. 27 W. 26 }
 Land rolling good 2d rate W. & B. Oak, Lynn, Sugar & W.
 Ash. Soil Clay & Loam

P 42

East Boundary of T. 85 N. R. 1 W. 5th pr. Mer.

North on East Side of Section 1

1.03	B. Oak 12	
10.27	Walnut 11	
35.47	B. Oak 12	
40.00	Set qr. section post	
	B. Oak 14 S. 79 W. 17	} Bearings
	W. Oak 11 N. 42 W. 60	
48.41	B. Oak 15	
76.30	Do. 14	
80.00	Set post cor. of Ts 85 & 86 N. ¹⁷	
	W. Oak 15 S. 70 E. 55	} Bearings
	B. Oak 14 N. 69 W. 53	
	Land same	

P 43.

East Boundary of T. 86 N. R. 1 W. 5th Pr. Mer.

North on East side of Section 36

5.50	Descend Bank	
11.75	Stream 8 lks. crs. E	
13.00	Ascend Bank	
22.50	Top of Bank	
27.00	Descend Bank	
32.00	Creek 1.10 L. crs. S.E. ¹⁸	
36.00	Ascend Bank	
40.00	qr. section corner	
	W. Oak 13 corner tree	
45.75	Top of precipice 75 feet high	
51.00	Creek 110 L. crs. W.	
52.50	Ascend Bank of Creek	
59.72	Top of precipice 75 feet high	
60.05	Creek 110 L. crs. S.E.	
72.95	Foot of perpendicular Lime rock 50 ft. high	
77.34	W. Oak 12	
80.00	Set post cor. of Sections 25 & 36	
	W. Oak 10 S. 76 W. 95	} Bearing
	B. Oak 14 N. 85 W. 124	
	Land broken & rocky poor 2d rate W. & B. Oak, lynn, elm & Sugar Soil Clay & gravel	
	Nov. 17th 1836 clear	

¹⁷Now the southeast corner of Washington Township, Jones County, and the southwest corner of Butler Township, Jackson County.

¹⁸The North Maquoketa River, which they crossed three times in running the line this mile.

P 44

East Boundary of T. 86 N. R 1 W. 5th pr. Mer.

North on East side of section 25

12.34 W. Oak 12

40.00 Set qr. Section post

W. Oak 11 N. $5\frac{1}{2}$ W. 126

W. Oak 14 S. 68 W. 145

74.41 W. Oak 22

80.00 Set post cor. of Sections 24 & 25

W. Oak 13 S. 26 W. 46

Do 13 N. 8 W. 60

Land rolling 2d rate, — timber, W & B. oak, Soil, Clay & Loam

Nov. 17. 1836

some cloudy

P 45

East Boundary of T. 86 N. R 1 W. 5th pr. Mer.

North on East Side of Section 24

28.70 B oak 15

40.00 Set qr Section Post

W. Oak 21 N 40 W 54

Do 13 S 26 W 89

80.00 Set Post cor of Sections 13 & 24

W. Oak 14 S 38 W 69

W. Oak 15 N 34 W 83

Same

P 46

East Boundary of T. 86 N. R. 1 W. 5th pr Mer.

North on East Side of Section 13

18.05 W. Oak 13

33.30 Do 18

40.00 Set qr. Section Post

W. Oak 18. N. 62 W 94

W. Oak 15 S $66\frac{1}{2}$ W 138

71.00 W. Oak 14

80.00 Set Post corner of Sections 12 & 13

B. Oak 16 S 54 W 30

Do 20 N 72 W 49

Land Rolling good 2d Rate W. & B. Oak Soil clay & Loam

P 47

East Boundary of T. 86 N. R. 1 W. 5 pr Mer.

North of East Side of Section 12

27.11 B Oak 14

40.00 Set qr. Section Post

Bur Oak 8 S 62 W 137

Do 8 S 31 W 229

BURT'S SURVEY OF FIFTH PRINCIPAL MERIDIAN 101

52.00 Bur Oak 10
 80.00 Set Post cor. of Sections 1 & 12
 W. Oak 16 N 47 E 67
 no other near
 Land Rolling poor 2d Rate W. & B. Oak Bur Oak Soil Sandy

P 48

East Boundary of T. 86 N. R. 1 W. 5th pr. Mer.
 North on East Side of Section 1
 13.03 top of precipice 50 ft
 17.25 Stream 18 L. C. W.
 19.25 Ascend Bank
 22.68 W Oak 13
 39.00 top of Precipice 55 ft
 39.60 Elm 15
 40.00 Set qr Section Post
 Hickory 10 S 79 W 49
 B Oak 12 N 81 W 33
 47.00 foot of precipice 60 ft
 69.78 W Oak 14
 77.54 Do 10
 80.00 Set Post cor of Ts 86 & 87 N¹⁹
 W Oak 15 N 80 E 49
 Do 12 S 35 W 124
 Land Rolling & Some Broken rather poor 2d Rate W. & B.
 Oak Elm &c Soil Clay & Sand

P 49

East Boundary of T. 87 N. R. 1 W. 5th pr Mer.
 Var 9° 15' E
 North on East Side of Section 36
 24.47 W. Oak 11
 26.00 Road C. N.E.
 40.00 Set qr. Section Post
 B. Oak 13 S 50½ W 227
 55.00 Enter Prairie C E&W
 80.00 Set Post cor. of Sects 25 & 36 & made Mound
 Land Rolling & Rocky 2d Rate W & B Oak Soil Sand gravel

P 50.

East Boundary of T. 87 N. R. 1 W. 5th pr. Mer.
 North on East Side of Section 25
 40.00 Granite Boulder 40 in dia.
 bears S 20 W 4 links
 Do 40 in dia. N 20 E 32 lks

¹⁹Now the northeast corner of Jones County, the northwest corner of Jackson County, and the southeast corner of White Water Township and the southwest corner of Prairie Creek Township, both of Dubuque County.

- 80.00 Set Post cor of Sec. 24 & 25 & made Mound²⁰
Land Rolling 2 rate Prairie Soil Sand gravel & Loam

P 51

- East Boundary of T. 87 N. R 1 W. 5th pr. Mer.
North on East Side of Section 24
6.00 Stream 3 L. C. W
8.00 Road C. E&W
10.00 Leave Prairie C. N.E.
40.00 Set qr. Section Post
W. Oak 14 N 20 W 47
Do 22 N 80 E 14
53.51 W. Oak 13
71.80 Do 12
73.75 foot of perpendicular Rock 45 ft high
80.00 Set Post cor of Sections 13 & 24
W Oak 16 N 78 W 71
B. Oak 14 S 18½ W 81
Land Rolling & Rocky 2d Rate W. & B. Oak Soil Sand Clay
& gravel

P 52

- East Boundary of T 87 N. R 1 W. 5th pr. Mer.
North on East Side of Section 13
35.72 W. Oak 13
40.00 Set qr. Section Post
Bur Oak 13 N 58 W 27
Do 14 S 51 W 50
76.80 W Oak 13
80.00 Set Post cor. of Sections 12 & 13
W. Oak 18 N 75 W 140
Do 12 S 85½ W 134
Land Rolling 2d Rate W & B Oak Bur Oak Soil Clay & Sand
November [18] 1836
Same cloudy

P 53

- East Boundary of T. 87 N. R 1 W. 5th pr. Mer.
North on East Side of Section 12
20.17 W. Oak 18
40.00 Set qr. Section Post
Bur Oak 8 N 35 W 94
W. Oak 14 S 88 W 140
65.87 W. Oak 12

²⁰The present village and railroad station of Fillmore is one mile west of this point.

80.00 Set Post cor. of Sections 1 & 12
W. Oak 16 N 86 W 85
W. Oak 14 S 67 W 240
Land Broken poor 2d Rate W. & B. Oak Bur Oak Soil Clay
gravel & Sand

East Boundary of T. 87 N. R 1 W. 5th pr. Mer.
North on East Side of Section 1

80.00	Set Post cor of Ts 87 & 88 N & made Mound ²² Land Rolling 2d Rate N. $\frac{1}{2}$ Prairie S $\frac{1}{2}$ W. & B. Oak Soil clay & Sand
-------	--

East Boundary of T. 88 N. R 1 W. 5th pr. Mer.
Var. $9^{\circ} 8' E$

North on East Side of Section 36
10.65 Creek 20 L C.S.E.
40.00 Set qr. Sec. post in Mound
45.00 leave Prairie C. E & W
65.98 B. Oak 11
79.30 Do 12
80.00 Set Post cor. of Sections 25 & 36
B. Oak 12. N 55½ W 37
B. Oak 10. S. 21 W 72
Land Rolling 2d Rate W. & B. Oak Bur Oak Hickory Soil Same

East Boundary of T. 88 N. R 1 W. 5th pr. Mer.
North on East Side of Section 25

39.73	B. Oak 12
40.00	Set qr. Section Post
	W. Oak 11 N 63 W 53
	W. Oak 12 S 84 W 48
71.56	B. Oak 12

22Now the southeast corner of Taylor Township and the southwest corner of Vernon Township, Dubuque County.

80.00 Set Post cor. of Sections 24 & 25
B. Oak 10 S 27½ W 30
W Oak 15 N 65 W 55
Land Rolling 2d Rate B. & W. Oak Soil clay & Sand

P 57

East Boundary of T. 88 N. R 1 W. 5th pr. Mer. Var 9° 00'

North on East Side of Section 24
38.00 Enter Prairie
40.00 Set qr Section Post
Br. Oak 12 S 9 E 186
no other near
49.00 Leave Prairie
80.00 Set Post cor of Sections 13 & 24
B. Oak 12 N 16 W 88
W. Oak 15 N 1½ W 109
Same

P 58

East Boundary of T. 88 N. R 1 W. 5th pr. Mer.
North on East Side of Section 13
2.18 W. Oak 18 in dia
13.00 Enter Prairie C. S. W.
15.55 Stream 18 L. C. W SW²³
40.00 Set qr. Section Post & Made Mound
80.00 Set Post Cor. of Sects. 12 & 13 & made Mound
Land Rolling good 2d Rate. Soil Sandy Loam

P 59

East Boundary of T. 88 N. R 1 W 5th pr. Mer.
North on East Side of Section 12
3.20 Road C. E & W
40.00 Set qr. Section Post & made Mound²⁴
75.00 Leave Prairie C. N.W.
80.00 Set Post Cor. of Sects. 1 & 2
Br. Oak 6 Corner
W. Oak 18 N 19½ W 85
Land Rolling 2d Rate W. & B. Oak Soil Sandy Loam

P 60

East Boundary of T. 88 N. R 1 W. 5th pr. Mer.
Var. 9° 5' E

North on East Side of Section One
32.81 W. Oak 15 in dia

²³Here they again cross White Water Creek.

²⁴The main line of the Illinois Central Railroad now crosses the Fifth Principal Meridian very near this point.

East Boundary of T. 88 N. R. 1 W. 5th pr. Mer.	South Boundary of T. 89 N. R. 1 E. 4th pr. Mer.
<p>For 9 56 North or East side of Section One 32.51 W. Oak 15 in dia 40.00 Set gr. Section Post W Oak 14 57 1/4 171 } Range Do 14 182 11 2 1/4 } 57.63 W. Oak 28 " 85.00 Set Post Corner of townships 88 & 89 N. in 4 pr. Mer. W. Oak 26 North 89 W. Oak 28 N. 34 E. 36 " W. Oak 12 S 67 W 81 and Broken. Soil 2 Note W & B Oak Aspin.</p>	<p>For 9 56 East or South side of Section 31 4.00 Trail C. N. 8.00 Road C. N. 5 40.00 Set gr. Section Post W Oak 12 N 69 W 170 } Range Do 12 N 36 W E 169 } 54.83 W Oak 10 75.00 W Oak 12 76.75 Stream 10 S. E. N. E. 80.00 Set Post Cor. of Sections 31 & 32 W Oak 10 N 20 W 50.2 } Range Do 16 N 37 W 26 39 } and Broken. Soil 2 Note W & B Oak Hazel</p>
<p>November 19 1836. 3 P.M. Cloudy Note. The Country to the N. & W. appeared to be Cherry Broken. Survey nearly out of provisions decided to Run East on 2 Correction on other side of</p>	<p>Note. In this place East not not to give away except of measured in the Ranges East of the 5th pr. Mer in as much as these Ranges will soon terminate at the Mississippi River</p>

WILLIAM A. BURT'S ORIGINAL SCRIPT, PAGES 60 AND 61, VOL. 4, BOOK 18

Page 60 is the last mile of the Fifth Principal Meridian, that is, the east boundary of Section 1, Township 88, Range 1, West, of the Fifth Principal Meridian up to the Second Correction Line.

Page 61 is the first mile running east which he surveyed and marked as the Second Correction Line, being the south side of Section 31, Township 89, Range 1, East, of the Fifth Principal Meridian.

- 40.00 Set qr. Section Post
 W. Oak 14 S 74 W 191 } Bearings
 Do 14 N 82 W 214 }
- 50.63 W. Oak 28
- 85.00 Set Post corner of townships 88 & 89 N. in 5th pr. Mer.²⁵
 W. Oak 26. North 39 } Bearings
 W. Oak 28. N 84 E 36 }
 W. Oak 12 S 67 W 81 }
- Land Broken. Soil 2d Rate W. & B. Oak Aspin
 November 19 1836. 3 P M
 Cloudy

Note. the country to the N & W appeared to be verry Broken
 being nearly out of provisions decided to Run East on 2d Cor-
 rection Line to the Mississippi

EAST ON SECOND CORRECTION LINE

As set out by Mr. Burt in his note above, he turned at this
 point and ran a line east to the Mississippi River, thus com-
 mencing this important parallel.

[Vol. 4, Books 17-21. Viz: 18, pages 61 to 74 inc.]

P 61

South Boundary of T. 89 N. R. 1 E. 5th pr Mer.

Var. 9° 5' E

East on South Side of Section 31

- 4.00 Trail C N.
 8.00 Road C N & S
- 40.00 Set qr. Section Post
 W Oak 12 N 59 W 170 } Bearings
 Do 12 N 36½ E 169 }
- 54.83 W Oak 10"
 75.00 W Oak 12"
- 76.75 Stream 10 L. C N. E.
- 80.00 Set Post cor. of Sections 31 & 32
 W. Oak 10 N 20½ W 50 } Bearings
 Do 16. N 37½ E 39 }
- Land Broken. Soil 2d Rate W & B. Oak Hazel
- Note. it was thought best not not to give aney excess of measur
 in the Ranges East of the 5th pr. Mer in as much as these
 Ranges will soon terminate North on the Mississippi River

P 62

South Boundary of T. 89 N. R 1 E. 5th pr Mer

East on South Side of Section 32

²⁵Now the northeast corner of Taylor Township and the northwest corner
 of Vernon Township, Dubuque County.

5.96 W. Oak 14
 11.40 Stream 8 L. N E
 37.25 Stream 6 L N W
 40.00 Set qr Section Post
 W. Oak 12. N 57 W 76 } Bearings
 Do 15. N 20 E 28 }
 64.90 W. Oak 20
 73.50 Stream 5 L. C N W
 80.00 Set Post Cor. of Sections 32 & 33
 W. Oak 26. N 81½ W 70 } Bearings
 Do 18 N 75 E 91 }
 Land W ½ Level E ½ Broken Soil Sand & gravel 2d Rate
 W. & B. Oak Lynn &c thinly timbered
 Novem 19 1836
 Cloudy
 Novem 20 Stormy Lay by

P 63

South Boundary of T. 89 N. R 1 E 5th pr. Mer
 East on South Side of Section 33
 2.75 W. Oak 22
 40.00 Set qr Section Post
 W. Oak 10. N 53 E 28 } Bearings
 B. Oak 10 N. 23 W 29 }
 46.93 W. Oak 12
 58.75 Road C. N & S
 80.00 Set Post Cor. of Sections 33 & 34
 B. Oak 12. N 30 E 309 } Bearings
 Do 11 N 24¾ W 274 }
 Land Rolling 2d Rate W & B Oak thinly timbered Soil Clay
 & Loam

P 64

South Boundary of T 89 N. R 1 E. 5th pr. Mer
 East on South Side of Section 34
 23.29 W. Oak 7
 40.00 Set qr. Section Post
 W. Oak 6 N 37 E 71 } Bearings
 B. Oak 11 N 73 W 196 }
 50.05 W. Oak 10
 65.03 B. Oak 16
 80.00 Set Post Cor. of Sectsions 34 & 35
 W. Oak 13. N 15 W 37 } Bearings
 Do 12. N 67 E 67 }
 Land Rolling & Some Broken 2d Rate W. & B. Oak &c Soil
 Clay & Loam

P 65

South Boundary of T. 89 N. R 1 E. 5th pr. Mer

East on South Side of Sect. 35

13.59 W. Oak 12

27.90 B Oak 10

40.00 Set qr. Section Post

W. Oak 7 N 7 E 34 }
Do 12 N 59 W 12 } Bearings

48.00 Road C. N W

55.75 Stream 5 L. C S E

80.00 Set Post Cor. of Sections 35 & 36²⁶

W. Oak 11 N 69 E 115 }
Do 12 N 7 W 251 } Bearings

Land Rolling & some Broken 2d Rate W. & B. Oak

P 66

South Boundary of T. 89 N. R 1 E 5th pr. Mer.

Var. 9° 00' E

East on South Side of Sect 36

22.63 Br. Oak 18 in dia.

40.00 Set qr. Section Post

B. Oak 10 N 30 E 261 }
W. Oak 9 N 34 W 226 } Bearings

55.70 Br. Oak 5

57.00 Road course N E

80.00 Set Post Cor. of T 89 N. Between R's 1 & 2 E²⁷

Br. Oak 11 N 89½ W 170 }
Do 10 N 57½ E 111 } Bearings

Land Rolling good 2d Rate W. B. & Br. Oak Soil Sandy Loam

P 67

South Boundary of T. 89. R 2 E. 5th pr Mer.

Var. 9° 00' E

East on South Side of Section 31

16.00 Stream 18 L. C N E

40.00 Set qr. Section Post

Bur Oak 13 N 26½ E 86 }
W. Oak 8 N 48½ W 161 } Bearings

49.78 B Oak 15

63.00 Enter Prairie C S E

66.50 Stream 5 L. C N.

80.00 Set Post Cor. of Sections 31 & 32 & made Mound

Land Rolling 2d Rate W. B. Br. Oak Soil Sandy Loam

²⁶The main line of the Illinois Central Railroad now crosses this correction line near this point, its course being here west of southwest.

²⁷Now the southeast corner of Center Township and the northeastern corner of Vernon Township.

P 68

South Boundary of T. 89 N. R 2 E 5th pr. Mer
 East on South Side of Section 32
 40.00 Set qr. Section Post & made Mound
 79.75 Stream 5. L. C E N E.
 80.00 Set Post cor. of Sects. 32 & 33
 Land Rolling & Some Broken 2d Rate

P 69

South Boundary of T. 89 N. R 2 E. 5th pr Mer.
 East on South Side of Sect 33
 19.50 Stream 5. L. C N E
 40.00 Set qr. Section Post & made Mound
 80.00 Set Post cor. of Sections 33 & 34 & made Mound
 Land Rolling 2d Rate Soil Sand Loam & gravel
 Note. Some diggings for Leed mineral was discovered a few
 chains North of Line on Last $\frac{1}{2}$ mile

P 70

South Boundary of T 89 N. R 2 E. 5th pr. Mer.
 Var 8° 50' E
 East on South Side of Section 34
 12.00 Road C N E.²⁸
 38.00 Creek 18. L. C. S. E.
 35.50 House 50 L. North
 40.00 Set qr. Section Post & made Mound
 76.50 Road C. N & S.
 80.00 Set Post cor. of Sections 34 & 35 & made Mound²⁹
 Soil Loam & gravel Supposed to be Mineral Land

P 71

South Boundary of T 89 N. R 2 E. 5th pr. Mer.
 East on South Side of Section 35
 40.00 Set qr. Section Post & made Mound
 55.00 Hulett's Smelting Furnace bears South about 20 chains
 70.00 Road C. S E.
 76.00 descend Bank C. E S E
 80.00 Set Post cor. of Sections 35 & 36 & made mound of Stone
 Land Broken & Rocky Soil 2d Rate mineral land

P 72

South Boundary of T 89 N. R 2 E. 5th pr. Mer.
 Var 8° 35' E
 East on South Side of Section 36

²⁸Apparently the road leading from Dubuque to Cascade.

²⁹Now the southeast corner of Dubuque Township and the southwest corner of the incorporation of the present city of Dubuque. See *Atlas of Dubuque County, Iowa* Publishing Co., Davenport, 1906.

- 4.50 House 100 L North
 5.00 Road C. South
 Huttons grist Mill South about 12 chains
 13.60 Creek 30 L C. S S E
 14.25 Asscend Bank
 18.00 foot of Ledg 45 ft in hight
 38.00 Road C. S. Leave Prairie
 40.00 Set qr. Section Post
 B. Oak 8 N $13\frac{1}{2}$ E 265 }
 W. Oak 15 S $57\frac{1}{2}$ E 114 }
 76.00 Descend Bank
 80.00 Set Post Cor of T.s 89 N Between Ranges 2 & 3 E
 Elm 13 N $50\frac{1}{2}$ W 197 }
 W Oak 14 N 57 E 109 } Bearings
 Land Broken & Rocky Soil 2d Rate. W & B Oak &c Mineral
 Land

P 73

South Boundary of T 89 N. R 3 E 5th pr. Mer.

Var 8° 35' E

East on South Side of Section 31

- 8.00 Asscend Bank
 15.16 B. Oak 12
 33.00 descend Bank
 39.60 Pricepic 60 ft
 39.63 foot of pricepic
 40.00 qr. Section Post
 W. Oak 18 West 33 Bear
 *42.50 foot of Bank
 48.50 Intersect Mississippi River³⁰ & Set a Block of Lime Stone for
 cor*
 Elm 20 N $15\frac{1}{4}$ W 171 Bearing the S. W. cor of P. A.
 Lairmier & Co Hous bears N 41 W 228 Links from cor.
 the uprite part of the house is here refered to
 November 20. 1836 Cloudy
 Note. Lairmiers & Co Smelting Furnace for Lead is about 250
 Links South of qr. Section cor this place is known by the
 name Riprow
 *From this cor. the qr. sec Post on North Side of Section 33
 729 N. R 2 W. 4th Mer. Ill. bears N 75° 10' E 138 chains
 10 L

P 74

I hereby Certify that in pursuance of a Contract with Robert T. Lytle Surveyor General of the United States for the State of Ohio Indiana & Michigan bearing date the 28th day of September 1836 an in

³⁰The grave of Julien Dubuque is about one-third of a mile southeast of this point.

strict conformity to the Laws of the United States & the Instructions of said Surveyor general I have Surveyed the exterior township lines described in the foregoing pages of this Book which are the true & original field notes of the Survey they purport to be as taken on the Said Lines.

Certified this 2d day of December 1836

Wm A Burt

Dept. Surveyor

Wm. C Mynderse	}	Chain
J. F. Munro		Men
John Seaugale		
Marker		

[Vol 4, Book 21, pp 70-73 Inc]

P 70.

Remarks on an Error found in the 5th principal Meridian T 82 N. R 1 W N $\frac{1}{2}$ Section 24 when the East Side of Section 24 was run & measured their was a disagreement as to the No of outs the next day erly I Sent the Chainmen to remeasure that Line to ascertain if aney error had taken place at the Same time I went to a convenient pace to get a Solar observation to asertain the variation of the needle the chainmen returned Mr. Mynders & Mr. Monro & reported the Said Line correctly measured from the closeing of T 82 N R 1 E gave strong Suspicion that an Error was made Somewhere the Meridian was first measured in T 82 N

P 71.

& on E. Side of Section 24 N $\frac{1}{2}$ was found to be one out or 5 chains too long the Line which the chain Men reported correct by measured the 2d time Since the error has been discovered the chain men Say that they measured Seven outs 4 was satisfied that no Error had taken place judging them Selves to be one out from Post, So deceived were they that it has since proved to be two on mature consideration I decided to throw this axcess of Measure next to the 2d Correction Line & am now makeing my Survey correspondent their to & Shall Soon moove all the Sections & qr. Section Posts 5 chains South, next page

p 72

from the 2d Correction Line to Cor. of Sections 13 & 24 T 82 N on the 5th principal Meridian & forthwith transmit the Notes to the corners to remove & establish to your office

I regret exceedingly that this Error has happened & the chain Men are much mortified on the account

Wm. A. Burt
Dept Sury

Robert T. Lytle
Surveyor General of the U. S.

P 73

Remarks on the Length of a Chain in winter weather

Experiment 1st Compared the measuring Chain with the Standard & adjusted it precisely theirto warmed the measuring chain by the fire to a Summer Heat & compared it with the Standard a difference was found of about $\frac{4}{10}$ of an inch this was done in a cold day & further it was found that my chain men did not measure the Same in deep Snow that they did on bear ground. Measured on the Meridian & fel Short of Measure 28 Links in a Mile these remarks are made for the information of Practical Surveyors.

Wm A. Burt
Dept Surveys

FROM THE SECOND CORRECTION LINE NORTH TO THE
MISSISSIPPI RIVER

At this point from which Mr. Burt turned east, Deputy Surveyor Orson Lyon began and ran the survey north on the Fifth Principal Meridian to the Mississippi River.

[Vol. 7, Books 33-37, Book 35, p. 13]

P. 13.

5 Principal Meridian T 89 N R 1 W 5th Meridian

Var 9° 8' E

North on East Side of Section 36³¹

- .40 White Oak 30 inches in diameter
- 2 18 Black Oak 15 inches in diameter
- 22 50 Waggon Road leading N W & S E
- 34 17 Black Oak 30 inches in diameter
- 40 00 Lynn tree 8 inches in dia Sec Cor $\frac{1}{4}$ th
- 60 20 To bend of creek
- 63 18 Creek 65 links wide crs E N E³²
- 70 11 Lynn 8 inches in diameter
- 80 00 Set post corner to Sections 25 & 36

{Lynn 22 S 35 W 42

{Aspen 10 N 21 $\frac{1}{2}$ W 12

Land Hilly broken & 2nd rate Timber White Oak B. Oak Lynn

Sugar Aspen Elm & Iron wood undergrowth same

P 14

5th Meridian

T 89 N R 1 W 5th Meridian

North on East Side of Section 25

- 18 00 Spring Brook 5 links wide crs S. E.

³¹This survey starts at what now is the southeast corner of Iowa Township and the southwest corner of Center Township, Dubuque County.

³²Headwaters of the Little Maquoketa River which flows northeasterly into the Mississippi River.

BURT'S SURVEY OF FIFTH PRINCIPAL MERIDIAN 113

40 00 Set quarter Section post
 { White Ash 9 S 44 W 12
 { Red Oak 30 N 15 W 45
 60 05 B. Oak 20 inches in diameter
 80 00 Set post corner to Sections 24 & 25
 { White Oak 23 S 71 W 69
 { Do 20 N 39 W 80
 Land Hilly & first rate Timber White Oak Black Oak Sugar
 Lynn Ash & cherry Undergrowth same
 Sunday Dec 18th 1836

P 15

5th Meridian

T 89 N R 1 W 5th Meridian
 North on East Side of Section 24
 15 11 Lynn 8 inches diameter
 15 50 Entered creek bottom
 24 10 Creek 12 links wide crs S E
 28 00 Left bottom
 40 00 Set quarter Section post
 { Sugar tree 15 S 80 W 8
 { Do 6 N 25 W 22
 44 15 brook 15 crs S W
 46 00 Entered bottom
 54 15 Sugar tree 9
 80 00 Set post corner to Sections 13 & 24
 Sugar 8 N 40 W 7
 Do 10 S 87 W 36
 First 46 chains Hilly last 34 chains level & first rate Timber
 Lynn White Oak Sugar tree Hackberry Ironwood & Butter-
 nue undergrowth same

P 16.

5th Meridian

T 89 N R 1 W 5th Meridian
 North on East Side of Section 13
 21 60 Brook crs S E
 40 00 Set quarter Section post
 { Ironwood 6 S 68½ W 8
 { Red Oak 20 N 29½ W 25
 49 50 Brook 5 lks wide crs S W
 60 00 Red Oak 20
 80 00 Set post corner to Sections 12 & 13
 { Red Oak 32 S 33 W 34
 { White Oak 12 N 29 W 95
 First H M rolling last H M Hilly & first rate Land Timb
 White Oak Red Oak Sugar tree Elm & Lynn under growth
 Iron wood oak prickly ash & vines

P 17

5th Meridian

T 89 N R 1 W 5th Meridian

North on East Side of Section 12

29 00 Brook 3 links wide crs N E

32 50 Spring crs N E

40 00 Set quarter Section post

{ Red Oak 15 S 43 W 95

{ Aspen 6 N 38 W 37

80 00 Set post corner to Section 1 & 12

{ White Oak 28 S 20 W 73

{ Do 20 N 68½ W 69

Land Hilly & 2nd rate Timber White Oak Black Oak & Red
Oak & Lynn undergrowth same with Aspen & Grape vine

P 18

5th Meridian

T 89 N R 1 W 5th Meridian

North on East Side of Section 1

27 70 White Oak 13

37 00 Spring brook 3 links wide N E

40 00 Set quarter Section post

{ Red Oak 13 S 45 W 102

{ Do 19 N 20 W 38

58 70 Black Walnut 24

80 00 Set temporary post*

Land Hilly & 2nd rate Timber Black Oak White Oak Sugar
tree & Elm undergrowth same with Hickory & Grape vines

*See cor. established—page 30

[The following is not in the survey of the Fifth Meridian, but of the parallel line one mile east. It is copied because of the reference to this page in the note regarding the establishing of the corner of T's 89 & 90.]

P 30

T 90 N R 1 E 5th Meridian

West on South Side of Section 31

5 63 White Oak 20 inches in diameter

40 00 Set quarter Section post

{ White Oak 24 N 17 E 142

{ Do 30 N 25 W 85

44 43 Black Oak 20 inches in diam

79 62 Intersected the 5th Meridian at post & established cor of Ts
89 & 90, Ranges 1 E & 1 W³³

Bearings { White Oak 32 N 49 E 97

{ Do 16 S 6½ E (86 or 87)

³³Now the southeast corner of Concord Township and the southwest corner of Jefferson Township, Dubuque County.

BURT'S SURVEY OF FIFTH PRINCIPAL MERIDIAN 115

Land rolling & first rate thinkly timbered with White & Black
Oak undergrowth Same
Sunday Dec 25th 1836

P 31

5th Meridian

T 90 N R 1 W 5th Meridian

Var 8° 42' E

North On East Side of Section 36

10 00 Entered creek bottom

12 60 creek 40 links wide crs N E³⁴

25 00 Mr Bunkers house 18 00 West

29 80 Road N E & S W

32 50 Left bottom

40 00 Set quarter Section post

{ Black Oak 17 N 47 W 439

{ White Oak 14 N 10 E 236

Brook 4 crs East

80 00 Set post corner to Sections 25 & 36

B. Oak 11 N 42½ W 643

B. Oak 8 N 81¾ W 622

Land Hilly, good 2nd rate Timber South of creek Timbered
with Oak Lynn Elm & Sugar tree North of creek thinly
timbered with Oak Except creek bottom which is prairie.

P 32

5th Meridian

T 90 N R 1 W 5th Meridian

North on East Side of Section 25

24 88 Bur Oak 7

40 00 Set quarter Section post

B Oak 10 S 34 W 132

White Oak 15 N 48 W 23

53 33 Black Oak 20

80 00 Set post corner to Sections 24 & 25

Aspen 22 S 49 W 03

White Oak 16 N 65 W 106

Land Hilly, good 2nd rate Last H M Well timbered with White
& Black Oak

P 33

T 90 N R 1 W 5th Meridian

North on East Side of Section 24

40 00 Set quarter Section post

Black Oak 14 N 39 W 148

Do 16 N 83½ W 166

³⁴Headwaters of the Middle Fork of the Little Maquoketa River which flows
eastwardly about seven miles into the Little Maquoketa River.

47 30 Brook 12 links wide course East
 63 00 Left bottom prairie
 80 00 Set post corner to Secs 13 & 24
 Bur Oak 6 S $37\frac{3}{4}$ W 518
 Do 10 N $\frac{1}{2}$ W 1144
 Land Hilly, good 2nd rate Thinly timbered with Black White
 & Bur Oak undergrowth Same

 P 34

T 90 N R 1 W 5th Meridian
 North on East Side of Section 13
 20 59 Bur Oak 8 inches in diameter
 40 00 Set quarter Section post
 Bur Oak 7 S $13\frac{1}{2}$ W 92
 Do 7 N 79 W 54
 80 00 Set post corner to Secs 12 & 13
 Bur Oak 8 S 64 W 119
 Hickory 13 N 78 W 155
 Land Hilly & 2nd rate Thinly timbered with Bur White &
 Black Oak

 P 35

T 90 N R 1 W 5th Meridian
 North on East Side of Section 12
 25 00 Left scattering timber Entered prairie
 33 00 Brook 13 course S W
 40 00 Set quarter Section post
 Bur Oak 16 S 73 E 513
 Do 12 S $37\frac{1}{2}$ E 924
 42 75 Left brook course S W
 74 50 Entered Marsh, House 10 00 West
 80 00 Set post corner to Secs 1 & 12
 On N E Side of Marsh
 Bur Oak 18 S 52 W 454
 B. Oak 9 N $15\frac{1}{2}$ W 604
 Land rolling prairie & first rate. Growth grass

 P 36

T 90 R 1 W 5th Meridian
 North on East Side of Section 1
 26 70 White Oak 26 inches in diameter
 40 00 Set quarter Section post
 Bur Oak 24 S $62\frac{1}{2}$ W 454
 White Oak 20 S 39 W 117
 45 00 To Summit of high Ridge E & W
 78 20 Black Oak 16 inches in diameter

BURT'S SURVEY OF FIFTH PRINCIPAL MERIDIAN 117

80 00 Set temporary post corner to Townships 90 & 91 N Range 1
E & Range 1 W³⁵ Land Hilly broken & 2nd rate
Monday Dec 26 1836

Page 52
5th Meridian

T 91 N R 1 W 5th Meridian

Var 8° 57'

North on East Side of Section 36

24 00 Spring brook 8 crs N E

31 04 Black Oak 15 inches in diameter

40 00 Set quarter Section post

{ Black Oak 10 S 17 E 53

{ White Oak 12 S 22 W 53

49 20 White Oak 18 inches in diameter

80 00 Set post corner to Sections 25 & 36

White Oak 30 S 7 W 40

Do 12 N 47 W 37

Land Hilly broken & 2nd rate Thinly timbered with Oak under-
growth Same

P 53
5th Principal Meridian

T 91 N R 1 W 5th Meridian

North on East Side of Section 25

25 90 White Oak 16 inches in diameter

40 00 Set quarter Section post

Lynn 15 S 56 W 56

Black Walnut 9 n 27 W 36

54 40 White Oak 15 inches in diameter

59 50 To a Sugar tree 12 inches in diameter corner to Section 25 on
High bluff Right bank of Mississippi River course East
(From Mr. Parke's correction)

3 17 From post on bluff to post at foot of Same, R. Bank of Missis-
sippi River

Elm 10 S 70 E 39

Maple 10 N 80½ W 53

62.67 Whole length of E. Side Sec 25

P 81.
(Certificate)

I hereby certify that in pursuance of a contract with Robert T Lytle
Surveyor General of the United States for the states of Ohio Indiana
Michigan an Wisconsin Territory bearing date the 8th day of Nov
(1836) eighteen hundred & thirty six And in strict conformity to the

³⁵Now the northeast corner of Concord Township and the northwest corner
of Jefferson Township, Dubuque County.

laws of the U S and Instructions of Said Surveyor General I have Surveyed and laid of into Town Ships. Nos 88 & 89 N & fract T 91 North of the 2nd correction line in R 1 East of the 5th Principal meridian & T 89 & 90 & Fract T 91 R 2 E. Fract Ts 89 90 91 R 3 E & Townships 89 Ranges 1. 2. 3 & 4 West of the 5th Principal Meridian in the Territory of Wisconsin And I do further certify that the foregoing are the true and Original Field notes of Said Survey Executed as afore Said certified this 5th day of May A D 1837

Orson Lyon

Deputy Surveyor

Philip M Leer

Jose C Priddy

Philander French

FROM THE FIRST CORRECTION LINE SOUTH TO THE
MISSISSIPPI RIVER

At this point from which Mr. Burt began his survey of the Fifth Principal Meridian and ran north, Deputy Surveyor Harvey Parke began and ran south through Muscatine County to the Mississippi River.

[Vol. 2, Book 8, pp 29-39 Inc. Cert. p 67.]

P 29

T 78 N. R 1 W 5th Principal Meridian

South on east boundary Section 1³⁶

8.20 Stream 40 west

*51.82 Set quarter Section post in prairie, where made mound of earth and sod

Pit 3 links east

91.82 Set post in prairie corner Sections 1,12, where made mound of earth and sod

Pit 3 links south

Land 1st rate rolling prairie. Und[g]th Prairie grass

Var 8.00

*Corresponding with the W B Sec 6

P 30.

T 78 N. R 1 W

South On east By section 12

40.00 Set quarter section post on the E side of point of timber

Bur Oak 16 W 66 W 3.14

do 24 S 41 W 2.45

43.00 Leave prairie & enter a narrow skirt of timber

³⁶This survey starts at what now is the southeast corner of Cedar County, or the northeast corner of Wilton Township and northwest corner of Fulton Township, Muscatine County.

75.00 Enter prairie
 80.00 Set post corner Sect. 12.13
 Bur Oak 20 N 3 W 6.11
 No other tree
 Land first rate and rolling
 Land first rate and rolling

P 31.

T 78 N. R. 1 W.
 South On East By section 13
 40.00 Set quarter section post in prairie where made mound of earth
 & sod. Pit 3 lks east
 80.00 Set post corner Sections 13.24 in prairie, where made mound
 of earth & sod.
 Pit 3 lks south
 Land quite rolling & rich Und[g]th Prairie grass

P 32

T 78 N. R 1 W
 South On east boundary Sec 24
 40.00 Set quarter section post in prairie, where made mound of earth
 & sod
 Pit 3 links east
 78.80 Stream 10 west
 80.00 Set post corner sections 24.25 at the E end of a small grove
 Hickory 12 S 19½ W 77
 Aspin 5 N 15 W 83
 Land same as last mile

P 33.

T 78 N. R. 1 W.
 South On East boundary section 25
 40.00 Set quarter section post in prairie, where made mound of earth
 and sod
 Pit 3 links east
 80.00 Set post in prairie corner sections 25.36 where made mound of
 earth and sod
 Pit 3 links south
 Land &c same

P 34

T 78 N. R 1 W.
 South On east boundary section 36
 40.00 Set quarter section post in prairie, where made mound of earth
 & sod
 Pit 3 links east
 75.00 Leave prairie & enter thin timber land

80.00 Set post corner Towns 77.78 N R 1 west³⁷

Bearings { Bur Oak 5 S 21 W 17½
 Y Oak 6 N 6½ W 89
 Witness { Bur Oak 14 S 87 W 1.45
 do 8 N 26 W 1.44

Land same as last mile

February 19, 1837

Var 7° 50'

P 35.

T 77 N. R 1 W 5th Principal Meridian

South on East By Section 1

40.90 Set quarter section post

Bur Oak 20 S 12½ E 1.70

Hickory 14 N 35½ W 1.92

80.00 Set post corner sections 1.12

Y Oak 26 S 32 W 2.62

do 22 N 4 W 52

Land 2nd rate rolling and very thinly timbered, principally
 with a young growth of oaks, a hickory

Und[g]th willow hazle

P 36

T 77 N. R 1 W

South on East boundary of Sec 12

40.00 Set quarter section post

Bur Oak 17 N 49½ W 1.19

do 20 S 51½ W 57

64.80 Run run 14 East³⁸

80.00 Set post corner sections 12.13

Bearings { Y Oak 5 N 20½ W 29
 do 8 S 6½ W 63

Marked { Y Oak 8 N 23½ W 1.09
 do 8 S 6½ W 63

Land Uneven 2nd rate Timber, Scattering Oak & hickory's:
 principally of a young growth

P 37

T 77 N. R 1 W

South On east boundary sec 13

40.90 Set quarter section post

Y. Oak 9 N 83 W 61½

do 6 S 45½ W 1.17

46.00 Enter small prairie

63.50 Waggon road E & W

³⁷Now the northeast corner of Sweetland Township and the northwest corner
 of Montpelier Township, Muscatine County.

³⁸West Branch Pine Creek.

- 68.00 Opposite improved field 5 Chs E
 73.00 To N. E. corner of an improved field
 80.00 Set post in prairie Corner sections 13.24, where raised a mound
 the center of which bears N. dist. 5 lks
 Land same except prairie

p 38

- T 77 N. R 1 W
 South On East boundary Sec 24
 35.00 Leave prairie
 40.00 Set quarter section post
 W Oak 22 S 50 W 2.20
 Bur Oak 9 S 83 W 2.34
 52.00 Run 3 S. E.
 52.50 Run 7 S. W.
 64.71 Tribble W. Oak 22 in
 80.00 Set post corner sections 24.25
 W. Oak 10 N 60½ W 2.57
 Cottonwood 18 S 32 W 1.94
 Land 1st ½ principally rich prairie. Last hilly & broken Bur
 W & B. Oak, hickory, cotton elm &c.

P 39

- T 77 N. R 1 W
 South On east boundary sec 25
 2.70 Run 4 S. E.
 3.40 Same 5 S. E.
 4.20 Same 5 S. E.
 11.50 Same 5 west
 13.70 Stream 8 west (another Stream)
 24.62 W. Oak 22
 40.00 Set quarter section
 W. Oak 24 N 40 W 72½
 do 16 S 44 W 30
 47.52 W. Oak 15 in
 59.54 do 10
 76.00 Sled or waggon road N. E.
 77.78 Set meander post on the right bank of Mississippi River
 Cottonwood 10 Corner tree from which a Hickory 16 N 11
 W 43
 Elm 18 87½
 Land poor with broken hills except near Riv. Course of Riv
 S 60 W
 Note. Adjoining & extending below is the Town of Salem³⁹
 Feby 20th [1837]

³⁹The pioneer name of the present village and railroad station of Fairport. It was platted as Salem and is shown as Salem on maps of 1833 and 1839.

P 67

I hereby certify that in pursuance of a contract with Robert T. Lytle, Surveyor General of the United States, for the States of Ohio and Indiana and the Territory of Michigan, bearing date, the 1st October 1836, and in strict conformity to the laws of the United States and the instructions of said Surveyor General I have surveyed the exterior Township lines within mentioned and the foregoing are the true and original field notes.

Certified this 14th day of June 1837

Harvey Parke
Dep Sur

M. E. VanBuren	}	Chainmen
M. B. Smith		
Daniel Gould		

REMARKS

The Winnebago Indians evacuated the County of Alimokee late in the summer of 1848. In the Winter and Spring of 1849 the first Settlements were commenced. No agricultural yeald was realized during that year, by any one farmer, amounting to the sum of \$100. Except in the two foregoing Enumerations.

This County is well watered by the Iowa, and Yellow rivers,—and has a fair proportion of Timber,— The soil rich and productive.— The prairies undulating.— Led ore is found along the Iowa, and Mississippi rivers.

The far famed *Paint Rock*, is situated in this County upon the Shore of the Mississippi river—

This rock is composed of Sand Stone, and rises to the heighth of 300 feet above the Mississippi,—about 100 feet from its base may be seen a number of aboriginal Hieroglyphics, executed in red paint,— Its discovery by the Whites, was made 106 years ago,— The Speckled Trout abounds in the waters of the Iowa. And is no where to be met with South of this Latitude in the valley of the Mississippi.—

Nov. 18th 1850

ELIPHALET PRICE

for taking the Census of 1850

Whole No. of Inhabitants in Alimokee Co—777

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