General Land Office • Original Field Notes

Book Number

771

W.W. Alt - 5th Guide Meridian through T 21 - 24 N

The images in this file are microfilm images of the notes of W.W. Alt resurveys of portions of the State of Nebraska on file in the Office of the Nebraska State Surveyor located in Lincoln, Nebraska.

The W.W. Alt resurveys began in the mid 1890's and were completed in the early 1900's.

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Duplicate

Ex OK/TEH 7-13-1903

39

(4—679.)

Received with letter from W. W. Alt, U. S. Surveyor, dated Sept 13, 1896 - 98725 - '96

FIELD NOTES

OF THE Re SURVEY OF

Fifth Guide Meridian West,
through Townships
21, 22, 23 and 24 North of the
Base Line, and West

Of the 6th Principal Meridian,

State of Nebraska

AS SURVEYED BY

Willard W. Alt, U. S. ~~Deputy~~ Surveyor,

Under his Contract ~~No.~~ , dated December 26 1894.

Survey commenced April 2nd , 1895.

Survey completed August 3rd , 1895.

U. S. Surveyor General.

Names and Duties of Assistants.

Sidney Blount, Chainman

Clarence P. Haggard, Chainman

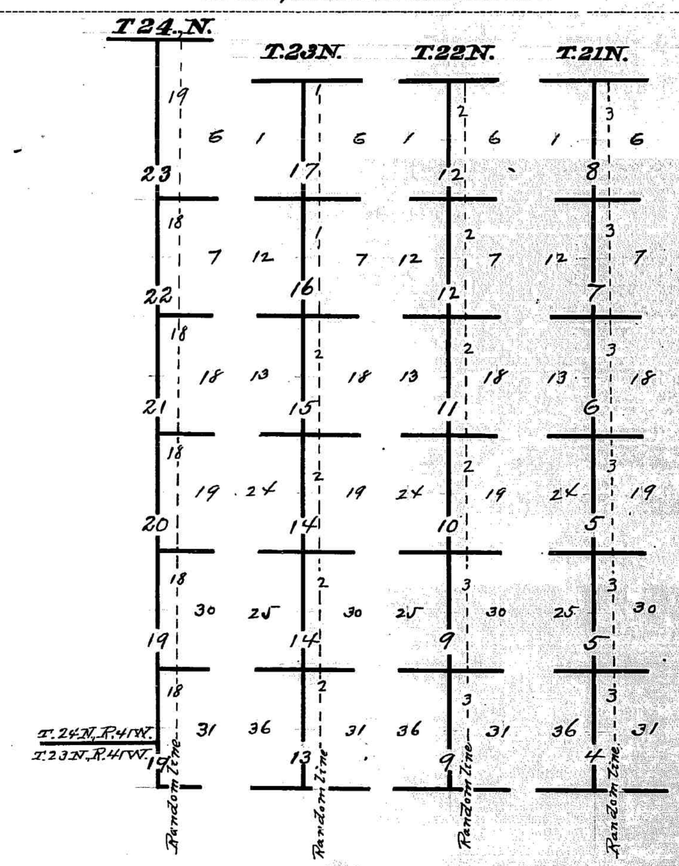
James G. Grover, Flagman

James C. Rosengren, Mound man

Theodore Neeland, Mound man.

INDEX.

5th Guide Meridian W.



INDEX DIAGRAM.

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U.S. Surveyor General

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Preliminary Oaths of Assistants.

We, Clarence P. Hoggard and Sidney Blout

do solemnly swear that we will well and faithfully execute the duties of chain carriers; that we will level the chain over even and uneven ground, and plumb the tally-pins either by sticking or dropping the same; that we will report the true distance to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us in the re survey of the Fourth Guide Meridian West through Townships No 21, 22, 23 and 24 North between Ranges 32 and 33 West of the Sixth Principal Meridian, and the Fifth Guide meridian West, through Townships 21, 22 23 & 24 North between Ranges 40 and 41 West of the Sixth Principal Meridian in the State of Nebraska

Clarence P. Hoggard, Chainman.
Sidney Blout, Chainman.
, Chainman.
, Chainman

Subscribed and sworn to before me this 30th day of March, 1895.

Seal

E. E. Sears
Co-Clerk in
and for Grant Co. Neb

We,

do solemnly swear that we will well and truly perform the duties of ~~axeman~~ Rear Axeman in the establishment of corners and other duties, according to instructions given us, and to the best of our skill and ability, in the re survey of the Fourth Guide Meridian West, through Townships No 21, 22, 23 & 24 North, between Ranges 32 and 33 West of the Sixth Principal Meridian, and the Fifth Guide meridian west, through Townships No 21, 22, 23 and 24 North, between Ranges 40 and 41 West of the Sixth Principal Meridian, in the State of Nebraska

Subscribed and sworn to before me this 30th day of March, 1895.

James C. Rosengren, Axeman.
Theodore Meland, Axeman.

Seal.

E. E. Sears
Co Clerk in
and for Grant Co. Neb

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3/49

(Copy.)

U.S. Surveyor Generals Office
Huron, S. D. Mch. 6. 1895.

Latitude 44°21'.03"
Longitude 6h 32m 56s west from Greenwich.

Mr W. W. Alt, of Wahoo, Nebraska, has forwarded to this office an "Improved Aluminum Alloy Plated Steel Tape No 4" manufactured by Justus Roe & Sons. to be compared with the standard at this office.
The tape is a thin spring steel band, or ribbon about 0.23 ins wide provided with brass loop ends and brass detachable handles and a patent reel. It is marked as follows, namely:
at each link, by a small brass rivet:
at each 5th link, by a brass clamp stamped plainly with the number of links:
at each 10th link, by a copper band similarly stamped:
The zero and 66 ft points are marked by shoulders filed in the brass end pieces to which the handles are attached.
The tape is a suitable one for a field standard.

The tape was compared this day with the standard at this office. The various subdivisions marked on the tape were found to be sensibly correct, and the total distance between the stated filed shoulders was adjusted to the standard length of 66 feet
The comparison was made under authority of letter "E" dated March 2. 1895
The tape is this day forwarded by express to Mr Alt at Wahoo, Nebraska, and he is advised of the comparison as above and instructed to use the tape solely as a field standard during the execution of his Departmental re-survey in Grant and Hooper counties Nebraska.

Richard B. Hughes
U.S. Surveyor General.

(Copy)

Philadelphia. Jan. 1st 1895.

Commissioner of General Land Office;

We hereby certify that we have repaired Young's Transit #4967 for W. W. Alt. C.E. of Wahoo, Nebraska; and that the same was in perfect order and adjustment and had no instrumental errors when it left our hands.

Respectfully
Young & Sons.

I, James G. Gruner, do solemnly swear that I will well and truly perform the duties of Flagman according to instructions given me, to the best of my skill and ability in the Re-Survey of the Fifth Guide Meridian West, through Towns 21, 22, 23 and 24 North, and the Fourth Guide Meridian West, through Towns 21, 22 23 and 24 North, in the State of Nebraska.

James G. Gruner
Flagman

Subscribed and sworn to before me this 30th day of March A.D. 1895

(seal.)

E. E. Lace
Co Clerk in and for
Grant Co. Neb

Resurvey of the 5th Guide Meridian W.,
through Tps. 21, 22, 23 and 24 N., State of Nebraska.

Chains.

Survey commenced April 2, 1895, and Executed with a Young & Sons, Transit No. 6. with horizontal limb being provided with two opposite Verniers reading to minutes.

The instrument was overhauled and placed in perfect repair by Young and Sons, Manufacturers of Philadelphia, Pa., especially for this work.

I begin at the original Corner of Tps. 23 and 24 N., Rs. 40 and 41 W., which is a cedar post in a flat mound, with pits on each line 6 ft. dist., in place of the old stake. I set an Oak Post 3 ft. long 4 ins. sq., with charred stake, and the old stake, 24 ins. in the ground, and drive tack in top of post at the exact corner point.

Latitude 42° N., Longitude 102° W.

At this Corner at 6.35 P. M. local mean time I observe Polaris at Western Elongation in accordance with instructions in the manual, and mark the line thus determined by point in stake driven 3 chains N. of Cor.

April 2. 1895.

April 3, at 7 A.M. I lay off the azimuth of Polaris of 104° 1' to the East, and mark the true meridian thus determined by a tack in stake firmly driven in ground 33.4 chs. N. of Cor., this point being as far as can be seen from the Corner, I also drive tack in stake 20 lks. N. of Cor. on the true meridian.

The magnetic bearing of the true meridian is N. 13° 10' W., which reduced by the table on page 100 of the manual, gives the mean magnetic declination of 13° 06' E.

From this Corner, I run through Tp. 23 N.,

South on Random bet. Secs. 1 and 6.

40.00 Set temp. 1/4 Sec. Cor.

80.00 " " Cor. of Secs. 1, 6, 7 and 12

South on Random bet. Secs. 7 and 12

40.00 Set temp 1/4 Sec. Cor.

80.00 " " Cor. of Secs. 7, 12, 13 and 18.

Resurvey of the 5th Guide Meridian W. through Tps. 22 and 23 N.

Chains.	
	South on Random bet. Secs. 13 and 18.
40.00	Set temp. 1/4 Sec. Cor.
80.00	" " Cor. of Secs. 13, 18, 19 and 24.
	South on Random bet. Secs. 19 and 24.
40.00	Set temp. 1/4 Sec. Cor.
80.00	" " Cor. of Secs. 19, 24, 25 and 30.
	South on Random bet. Secs. 25 and 30.
40.00	Set temp. 1/4 Sec. Cor.
80.00	" " Cor. of Secs. 25, 30, 31 and 36.
	April 3, 1895.
	South on Random bet. Secs. 31 and 36.
40.00	Set temp. 1/4 Sec. Cor.
80.00	" " Cor. of Tps. 22 and 23 N., Rs. 40 and 41 W.

Thence I run through T. 22 N.

	South on Random bet. Secs. 1 and 6.
40.00	Set temp. 1/4 Sec. Cor.
80.00	" " Cor. of Secs. 1, 6, 7 and 12.
	South on Random bet. Secs. 7 and 12.
40.00	Set temp. 1/4 Sec. Cor.
80.00	" " Cor. of Secs. 7, 12, 13 and 18.
	South on Random bet. Secs. 13 and 18
40.00	Set temp. 1/4 Sec. Cor.
80.00	" " Cor. of Secs. 13, 18, 19 and 24
	South on Random bet. Secs. 19 and 24.
40	Set temp. 1/4 Sec. Cor.
80.00	" " Cor. of Secs. 19, 24, 25 and 30.
	April 4 - 1895.

Resurvey of 5th Guide Meridian W. through Tps. 21 and 22 N.

Chains	
	South on Random bet. Secs. 25 and 30
40.00	Set temp. 1/4 Sec. cor.
80.00	" " cor. of Secs. 25, 30, 31 and 36
	South on Random bet. Secs 31 and 36
40.00	Set temp. 1/4 Sec. cor.
80.00	" " cor. of Tps. 21 and 22 N. Rs. 40 and 41 W.

Thence I run through Tp. 21 N.

	South on Random bet. Secs. 1 and 6
40.00	Set temp 1/4 Sec. cor.
80.00	" " cor. of Secs. 1, 6, 7 and 12
	South on Random bet. Secs. 7 and 12
40.00	Set temp. 1/4 Sec. cor.
80.00	" " cor. of Secs. 7, 12, 13, and 18
	South on Random bet. Secs 13 and 18
40.00	Set temp. 1/4 Sec. cor.
80.00	" " cor of Secs. 13, 18, 19, and 24
	April 7 - 1895
	South on Random bet. Secs. 19 and 24
40.00	Set temp. 1/4 Sec. cor.
80.00	" " cor. Secs. 19, 24, 25, and 30
	South on Random bet. Secs. 25 and 30
40.00	Set. temp. 1/4 cor.
80.00	" " cor. of Secs. 25, 30, 31 and 36
	South on Random bet. Secs. 31 and 36
40.00	Set temp. 1/4 Sec. cor
80.00	" " cor. Tp. 21 N. R. 40 and 41 W.
117.53	Intersect 5th Standard Parallel at a point 4.46 chs. E. of Standard cor. of Tps. 21 N. Rs. 40 and 41 W.

Resurvey of the 5th Guide Meridian W. T. 21 N.

Chains.	
	as the falling is 446 chs. and the distance is 1472.53 chs. - a line connecting the cor. T. 21 N. R. 40 and 41 W, and the original cor. of Tps. 23 and 24 N. R. 40 and 41 W. will be located by offsets from the random line decreasing at the rate of 12/10 links per each 1/2 mile - making the true course of the restored meridian N. 0°10' E.
	Apl. 8 - 1895
	N. 0°10' E. bet secs. 31 and 36
	Ascend abruptly along S. E. slope
1.20	Top of ascent 20 ft. above cor thence over rolling ground
15.00	Begin descent
17.50	Bottom descent in ravine course E. and W. ascend along S. slope
23.50	Top of ascent - 40 ft. thence along S. face range over ridges
36.00	Top of range, course E. and W. 75 ft. high descend along N. slope
40.00	Deposit a charred stake 12 ins. in the ground for 1/4 sec. cor. dug pits 18x18x12 ins. N. and S. of cor. 4 ft. dist. and raised a mound of earth 3 1/2 ft. base 1 1/2 ft. high over deposit In S. pit drove an Oak stake 2 ft. long 2 ins. sq. 12 ins in the ground marked 1/4 S. on N. face
	descend over rolling ground
72.00	Bottom descent in pass or ravine, course E. and W.
77.00	Foot of range, course E. and W. ascend along S. W. slope, ravine.
80.00	Set an Oak Post 3 ft. long 4 ins. sq. with charred stake 24 ins. in the ground for cor. of secs. 25, 30, 31 and 36 marked T. 21 N. S. 30 on N. E. R. 40 W. S. 31 on S. E. S. 36 on S. W. and R. 41 W. 25 on N. W. faces with 1 notch on S. and 5 notches on N. edges, dug pits 18x18x12 ins. in each sec. 5 1/2 ft. dist. and raised a mound of earth 4 ft. base 2 ft. high W. of cor. Land Rolling sand hills Soil, Sandy, 3rd rate Sand and Bunch grass

Resurvey of the 5th Guide Meridian W. T. 21 N. Continued

Chains	
	N. 0°10' E. bet. secs. 25 and 30
	Ascend along S. slope over broken ground and ridges
40.00	Deposit a charred stake 12 ins. in the ground for 1/4 sec. cor. dug pits 18x18x12 ins. N. and S. of cor. 4 ft. dist., and raised a mound of earth 3 1/2 ft. base 1 1/2 ft. high over deposit In S. pit drove an Oak stake 2 ft. long 2 ins sq. 12 ins. in the ground, marked 1/4 S on N. face
	Ascend along S. W. slope.
49.80	Top of ascent on Range - E. and W. 100 ft. high descend along N. slope over rolling ground
56.00	Bottom descent in Depression N. 70° W. S 70° E. ascend along S. W. slope foot hills
59.50	Top of ascent 30 ft. thence descend slightly along N. slope
78.00	Enter Rolling Bottom E. and W.
80.00	Set an Oak Post 3 ft. long 4 ins. sq. with charred stake 24 ins. in the ground for cor. of secs. 19, 24, 25, and 30 marked T. 21 N. S. 19 on N. E. R. 40 W., S. 30 on S. E. S. 25 on S. W. and R. 41 W., S. 24 on N. W. faces with 2 notches on S. and 4 notches on N. edges, dug pits 18x18x12 ins. in each sec. 5 1/2 ft. dist. and raised a mound of earth 4 ft. base 2 ft. high W. of cor. Land Rolling and broken sand hills Soil, Sandy, 3rd rate Bunch and Sand grass
	N. 0°10' E. bet. secs. 19 and 24
	Over rolling land
19.00	Foot of Bluffs course S. 60° W. and N. 70° E. ascend abruptly
24.50	Top of abrupt ascent 75 ft. ascend over rolling ground
36.50	Top of range 150 ft. high N. 60° W. S. 60° E., descend over rolling table land
40.00	Deposit a charred stake 12 ins. in the ground for 1/4 sec. cor. dug pits 18x18x12 ins N. and S. of cor. 4 ft. dist. and raised a mound of earth 3 1/2 ft. base 1 1/2 ft. high over deposit.

Chains	
	In S. pit drove an Oak stake 2 ft. long 2 ins. sq. 12 ins in the ground marked 1/4 S. on W. face
	Ascend
42.70	Top of ascent 1 ft above cor. descend along N.E. slope
49.00	Bottom descent thence ascend along N. slope foot hills
71.00	Begin gentle descent along N. slope
80.00	Set at Oak Post 3 ft. long 4 ins. sq. with charred stake 24 ins in the ground, for cor. of secs. 13, 18, 19 and 24, marked T. 21 N., S. 18 on N.E. R. 40 W., S 19 on S.E S. 24 on S.W. and R. 41 W. S. 13 on W.W. faces, with 3 notches on N. and S. edges dug pits 18x18x12 ins. in each sec. 5½ ft. dist. and raised a mound of earth 4 ft. base 2 ft. high W. of cor. Land level and Broken Sand hills Soil, Sandy, 3rd rate Sand and Bunch grass

July 31, 1895

	N. 0° 10' E. bet. secs. 13 and 18 Descend gently along N. slope
12.00	Neck of Valley E. and W.
14.00	Foot of range E. and W. ascend over rolling ground
17.25	Top of gentle ascent 4 ft thence ascend over broken ground ridges and ravines
40.00	Deposit a charred stake 12 ins. in the ground for 1/4 sec. cor. dug pits 18x18x12 ins. N. and S. of cor. 4 ft. dist and raised a mound of earth 3½ ft. base 1½ ft high over deposit. In S. pit drove an Oak stake 2 ft. long 2 ins. sq. 12 ins. in the ground marked 1/4 S. on W. face
	Ascend
44.00	Top of ascent on Bluff E. and W. 75 ft high descend over broken hills
54.00	Bottom descent thence over rolling foot hills
62.00	Foot of low range, S. 20° W., N. 20° E. ascend along S.E slope
66.50	Top of ascent on low sand bluff, descend over foot hills
72.00	Descend slightly along W. slope foot hills

Chains	
80.00	Set an Oak post 3 ft. long 4 ins. sq. with charred stake 24 ins. in the ground for cor. of secs. 7, 12, 13 and 18 marked T. 21 N., S. 7 on N.E. R. 40 W., S 18 on S.E. S. 13 on S.W., and R. 41 W, S. 12 on N.W. faces with 4 notches on S. and 2 notches on N. edges, dug pits 18x18x12 ins. in each sec 5½ ft. dist and raised a mound of earth 4 ft. base, 2 ft. high W. of cor. Land, level and broken sand hills Soil, Sandy, 3rd rate Sand and Bunch grass

	N. 0° 10' E. bet. Secs. 7 and 12 ascend along S.W. slope.
8.00	Top of ascent 3 ft above cor. descend slightly along N.E. slope low hills
21.50	Bottom descent in ravine or pass N.W. and S.E. ascend along S.W. slope
36.00	Top of ascent 30 ft thence descend along W. slope
40.00	Deposit a charred stake 12 ins. in the ground for 1/4 Sec. cor. dug pits 18x18x12 ins. N. and S. of cor. 4 ft. dist. and raised a mound of earth 3½ ft. base 1½ ft. high over deposit
	In S. pit drove an Oak stake 2 ft. long 2 ins. sq. 12 ins. in the ground marked 1/4 S on W. face
50.00	Enter dry Valley course E. and W.
58.75	Trail course N. 50° E., S 50° W.
75.00	Foot of range course N. 80° E. S. 80° W. ascend abruptly
80.00	Set an Oak Post 3 ft. long 4 ins. sq. with charred stake 24 ins. in the ground for cor. of secs. 1, 6, 7, and 12 marked T. 21 N., S. 6 on N.E. R. 40 W., S. 7 on S.E. S. 12 on S.W. and R. 41 W., S 1 on W.W. faces with 5 notches on S. and 1 notch on N. edges, dug pits 18x18x12 ins in each sec. 5½ ft. dist, and raised a mound of earth 4 ft. base 2 ft. high W. of cor. Land, level Valley and rolling Sand hills Soil, Sandy 2nd and 3rd rate

Resurvey of the 5th Guide Meridian W. T. 21 N. continued

Chains	
	Sand grass and Bunch grass
	N. 0° 10' E. bet. Secs. 1 and 6
	Ascend along S. E. slope
5.50	Top of ascent on E. face range 150 ft. high descend abruptly
9.00	Bottom descent 50 ft. below thence over rolling ground descending
35.50	Head of ravine course N. 10° W. descend
40.00	Deposit a charred stake 1 ft. in the ground for 1/4 Sec. cor. dug pits 18 x 18 x 12 ins. N. and S. of cor. 4 ft. dist. and raised a mound of earth 3 1/2 ft. base 1 1/2 ft. high over deposit. In S. pit drove an Oak stake 2 ft. long 2 ins. sq. 12 ins. in the ground marked 1/4 S. on N. face, descend
42.00	Bottom descent in ravine or pass course E. and W.
43.50	Begin ascent along S. slope
46.70	Bluff 30 ft. high ascend over broken ground
61.00	Top of ascent on Ridge 75 ft. high descend along N. E. slope range
72.00	Bottom descent enter rolling Valley E. and W.
77.04	Wire fence course S. 80° E., N. 80° W.
80.00	Set an Oak Post 3 ft. long 4 ins. sq. with charred stake 24 ins. in the ground for cor. of Tps. 21 and 22 N. Rs. 40 and 41 W. marked T. 22 N., S. 31 on N. E. R. 40 W., S. 6 on S. E. T. 21 N., S. 1 on S. W. and R. 41 W. S. 36 on N. W. faces with 6 notches on each edge. dug pits 24 x 24 x 12 ins. on each line 4 ft. N., E. and W. and 8 ft. S. of Post and raised a mound of earth 5 ft. base 2 1/2 ft. high S. of cor. Perry A. Yeast Ranch house bears N. 61° 37' E. Sand level Valley and Broken Sand hills Soil, Sandy 2nd and 3rd rate Prairie and Bunch grass

Thence S. on
Through T. 22 North.

Resurvey of the 5th Guide Meridian W. T. 22 N. continued

Chains	
	N. 0° 10' E. bet. Secs. 31 and 36 Over level Ground
17.00	S. edge marsh N. 70° W., S. 70° E. - extends to W.
24.00	N. edge marsh
28.30	Wire fence, course N. 80° W., S. 80° E.
31.25	Trail course N. 60° W., S. 60° E. Begin ascent along south slope range
40.00	Deposit a charred stake 12 ins. in the ground for 1/4 Sec. Cor. dug pits 18 x 18 x 12 ins. N. and S. of cor. 4 ft. dist. and raised a mound of earth 3 1/2 ft. base 1 1/2 ft. high over deposit In S. pit drove an Oak stake 2 ft. long 2 ins. sq. 12 ins. in the ground, marked 1/4 S. on N. face Ascend along S. W. slope
44.10	Gulch 20 ft. deep
47.00	Top of ascent on N. face range 75 ft. high - thence along N. face range over rolling foot hills
76.50	Descend along N. W. slope -
80.00	Set an Oak Post 3 ft. long 4 ins. sq. with charred stake 24 ins. in the ground for cor. of Secs. 25, 30, 31 and 36, marked T. 22 N., S. 30 on N. E. R. 40 W., S. 31 on S. E. S. 36 on S. W. and R. 41 W., S. 25 on N. W. faces with 5 notches on N. and 1 notch on S. edges, dug pits 18 x 18 x 12 ins. in each Sec. 5 1/2 ft. dist. and raised a mound of earth 4 ft. base 2 ft. high W. of cor. Sand, level Valley and rolling sand hills Soil, sandy 2nd and 3rd rate Prairie, slough and Bunch grass
	N. 0° 10' E. bet. Secs. 25 and 30
	Ascend along W. slope
5.30	Top of ascent 20 ft. above cor. thence along W. slope over ridges and ravines
37.00	Begin gentle descent along W. slope
40.00	Deposit a charred stake 12 ins. in the ground for 1/4 Sec. cor. dug pits 18 x 18 x 12 ins. N. and S. of cor. 4 ft. dist. and raised a mound of earth 3 1/2 ft. base 1 1/2 ft.

Resurvey of the 5th Guide Meridian N. T. 22 N. continued

Chains	
51.00	Bottom descent enter rolling land E. and W.
54.95	Wire fence Course S. 75° E., N. 75° W.
68.00	Enter level land
69.30	Trail N. 60° E., S. 60° W.
80.00	Set an Oak post 3 ft. long 4 ins. sq. with charred stake 24 ins. in the ground for cor. of secs. 19, 24, 25 and 30 marked T. 22 N., R. 19 on N. E. R. 40 W., R. 30 on S. E. S. 25 on S. W. and A. 41 W., S. 24 on N. W. faces, with 2 notches on S. and 4 notches on W. edges, dug pits 18x18x12 ins. in each sec. 5½ ft dist. and raised a mound of earth 4 ft. base 2 ft. high W. of cor. Land, level, and rolling sand hills Soil, sandy 3rd rate Sand and Bunch grass

N. 0° 10' E. bet. secs. 19 and 24
Over level land

6.00	Foot of range course N. 60° E., S. 60° W. ascend abruptly.
14.50	Top of abrupt ascent 60 ft high - thence ascend along S. face range over very broken ground
34.80	Top of ascent 200 ft course of range N. 70° E., S. 60° W. along top over broken ground
40.00	Deposit a charred stake 12 ins. in the ground for ¼ sec. cor. dug pits 18x18x12 ins. N. and S. of cor. 4 ft. dist and raised a mound of earth 3½ ft. base 1½ ft. high over deposit In S. pit drove an Oak stake 2 ft. long 2 ins. sq. 12 ins. in the ground, marked ¼ S. on W. face
48.50	Begin abrupt descent along W. slope
56.00	Bottom of abrupt descent, thence descend slightly over rolling foot hills
79.00	Bottom descent in ravine course E. and W.
80.00	Set an Oak Post 3 ft. long 4 ins. sq. with charred stake 24 ins. in the ground for cor. of secs. 13, 18, 19 and 24 marked T. 22 N., R. 18 on N. E. R. 40 W., R. 19 on S. E. S. 24 on S. W. and

Resurvey of the 5th Guide Meridian N. T. 22 N. continued

Chains	
	R. 41 W., S. 13 on W. N. faces, with 3 notches on N. and S. edges, dug pits 18x18x12 ins. in each sec. 5½ ft. dist. and raised a mound of earth 4 ft. base 2 ft. high W. of cor. Land, level and Broken sand hills Soil, sandy, 3rd rate Sand and Bunch grass

N. 0° 10' E. bet. secs. 13 and 18
ascend slightly

2.80	Top of ascent 20 ft above cor. descend slightly over rolling foot hills
18.00	Bottom descent. Trail course N. 65° W., S. 65° E. ascend over rolling ground
30.50	Top of ascent 50 ft above trail. thence over rolling ground, along top of range
40.00	Deposit a charred stake 12 ins. in the ground for ¼ sec. cor. dug pits 18x18x12 ins. N. and S. of cor. 4 ft. dist. and raised a mound of earth 3½ ft. base 1½ ft. high over deposit. In S. pit drove an Oak stake 2 ft. long 2 ins sq. 12 ins. in the ground, marked ¼ S. on W. face
44.00	Descend abruptly along W. slope.
46.00	Bottom of abrupt descent, thence over rolling land
51.00	Descend over rolling land
56.00	Bottom descent in ravine, course N. W. and S. E. 50 ft below ¼ cor. ascend over foot hills
68.00	Begin ascent along S. W. slope, range
80.00	Set an Oak Post, 3 ft. long 4 ins. sq. with charred stake 24 ins. in the ground for cor. of secs. 7, 12, 13 and 18 marked T. 22 N., R. 7 on N. E. R. 40 W., R. 18 on S. E. S. 13 on S. W. and R. 41 W., S. 12 on W. W., faces with 4 notches on S. and 2 notches on W. edges, dug pits 18x18x12 ins in each sec. 5½ ft. dist and raised a mound of earth 4 ft. base 2 ft. high W. of cor. Land, rolling sand hills Soil, sandy 3rd rate Bunch grass

Resurvey of the 5th Guide Meridian N. T. 22 N. continued

Chains	
	N. 0° 10' E. bet. secs. 7 and 12
	ascend along S. N. face range
8.60	Top of ascent - on N. face range over broken ground
18.00	Begin descent along N. N. slope range
35.00	Bottom descent in N. end valley, ascend
40.00	Deposit a charred stake 12 ins. in the ground for 1/4 sec cor. dug pits 18x18x12 ins. N. and S. of cor. 4 ft. dist. and raised a mound of earth 3½ base 1½ ft. high over deposit. In S. pit drove an Oak stake 2 ft. long 2 ins. sq. 12 ins. in the ground, marked
	1/4 S. on N. face
	Ascend over rolling ground
63.50	Begin abrupt ascent
68.00	Sand Bluff 40 ft. high
71.00	Descend over broken ground along N. E. slope
80.00	Set an Oak Post 3 ft. long 4 ins. sq. with charred stake 24 ins. in the ground, for cor. of secs. 1, 6, 7 and 12 marked T. 22 N., S. 6 on N. E. R. 40 W., S. 7 on S. E. S. 12 on S. W. and R. 41 W., S. 1 on W. W. face with 5 notches on S. and 1 notch on N. edges. dug pits 18x18x12 ins. in each sec. 3½ ft. dist. and raised a mound of earth 5 ft. base 2½ ft. high W. of cor.
	Sand, rolling sand hills
	Soil, sandy 3rd rate
	Bunch grass

August 1 - 1895

	N. 0° 10' E. bet. Secs. 1 and 6
	Ascend over broken ground along S. W. slope
12.00	Top of ascent 30 ft above cor. thence along W. face over low ridges ascending
34.00	Begin descent along W. slope over rolling ground
40.00	Deposit a charred stake 12 ins. in the ground for 1/4 sec. cor. dug pits 18x18x12 ins W. and S. of cor. 4 ft. dist. and raised a mound of earth 3½ ft. base 1½ ft. high over deposit
	In S. pit drove an Oak stake 2 ft. long 2 ins. sq. 12 ins. in the ground marked
	1/4 S. on W. face

Resurvey of the 5th Guide Meridian N. T. 22 N. continued

Chains	
	Descend gulch.
49.00	Bottom descent in S. edge neck of valley E. and W.
51.00	Leave valley ascend gulch, over rolling ground
56.43	Wire fence course N. 80° E., S. 80° W.
60.00	Top of ascent - thence descend gulch along N. E. slope
80.00	Set an Oak Post 3 ft. long 4 ins. sq. with charred stake 24 ins. in the ground for cor of Tps. 22 and 23 N. Rs. 40 and 41 W. marked
	T. 23 N., S. 31 on N. E.
	R. 40 W., S. 6 on S. E.
	T. 22 N. S. 1 on S. W. and
	R. 41 W., S. 36 on N. W. faces with 6 notches on each edge dug pits 24x24x12 ins. on each line, N. E. and W. 4 ft. dist. and S. of post 8 ft. dist. and raised a mound of earth 5 ft. base 2½ ft. high S. of cor.
	Sand, rolling sand hills
	Soil, sandy 3rd rate
	Bunch and sand grass

In T. 23 N

	Thence S. run through T. 23 N.
	N. 0° 10' E. bet. secs. 31 and 36
	ascend along S. E. slope range, course N. 30° E., S. 30° W.
9.70	Top of ascent 50 ft above cor. thence along S. E. face over broken ground ascending
16.50	Ravine or gulch 30 deep
25.50	Sand Bluff 150 ft. above valley ascend over broken ground
36.50	Ridge 20 ft above valley course N. W. and S. E. over broken ground
40.00	Deposit a charred stake 12 ins. in the ground for 1/4 sec. cor. dug pits 18x18x12 ins. N. and S. of cor. 4 ft. dist. and raised a mound of earth 3½ ft. base 1½ ft. high over deposit
	In S. pit drove an Oak stake 2 ft. long 2 ins. sq. 12 ins. in the ground, marked,
	1/4 S. on W. face
44.30	Top of range, course E. and W.
46.00	Descend over broken ground along W. face range
73.00	Descend along W. slope
80.00	Set an Oak Post 3 ft. long 4 ins. sq. with charred stake 24 ins. in the ground for cor. of secs. 25, 30, 31 and 36 marked
	T. 23 N., S. 30 on N. E.
	R. 40 W., S. 31 on S. E.
	S. 36 on S. W. and

Chains	
	R. 41 W., S. 25 on N. W. faces with 1 notch on S. and 5 notches on N. edges, dug pits 18x18x12 ins in each sec. 5½ ft. dist. and raised a mound of earth 4 ft. base 2 ft. high N. of cor.
	Land, rolling sand hills
	Soil, sandy 3rd rate
	Bunch grass
	N. 0°10' E. bet. secs. 25 and 30
	Descend along N. slope
10.00	Enter Valley course N. 60° W., S. 60° E.
14.30	Trail course E. and W.
37.00	Foot of low range, E. and N. ascend
40.00	Deposit a charred stake 12 ins. in the ground for ¼ sec. cor. dug pits 18x18x12 ins. N. and S. of cor. 4 ft. dist and raised a mound of earth 3½ ft. base 1½ ft. high over deposit In S. pit drove an Oak stake 2 ft. long 2 ins. sq. 12 ins. in the ground, marked ¼ S. on W. face
	Ascend over rolling ground
46.00	Top of ascent 50 ft above Valley descend over rolling ground
66.00	Descend along N. W. slope
75.00	Bottom descent in neck of Valley, about E. and W. ascend gently along S. slope
80.00	Set an Oak Post 3 ft. long 4 ins. sq. with charred stake 24 ins. in the ground for cor. of secs. 19, 24, 25 and 30 marked T. 23 N., R. 19 on N. E. R. 40 W., R. 30 on S. E. S. 25 on S. W. and R. 41 W., S. 24 on N. W. faces with 2 notches on S. and 4 notches on N. edges, dug pits 18x18x12 ins. in each sec. 5½ ft. dist. and raised a mound of earth 4 ft. base 2 ft. high W. of cor
	Land, level Valley and rolling sand hills
	Soil, sandy 2nd and 3rd rate
	Prairie and Bunch grass
	N. 0°10' E. bet. secs. 19 and 24
	Ascend along S. W. slope over rolling ground
0.24	Wire fence S. 45° E., N. 45° W.
35.70	Top of ascent, thence along W. face

Chains	
40.00	Deposit a charred stake 12 ins. in the ground for ¼ sec. cor. dug pits 18x18x12 ins. N. and S. of cor. 4 ft. dist. and raised a mound of earth 3½ ft. base 1½ ft. high over deposit In S. pit drove an Oak stake 2 ft. long 2 ins. sq. 12 ins. in the ground, marked ¼ S. on W. face
	Descend along N. slope
56.00	Bottom descent in W. end Valley E. and W.
60.00	Foot of range course N. 60° E., S. 60° W. ascend abruptly
65.00	Top of abrupt ascent ascend over broken ground
73.00	Top of Bluff 100 ft above Valley over broken ground
79.70	Top of ridge extends to the W. descend
80.00	Set an Oak Post 3 ft. long 4 ins. sq. with charred stake 24 ins. in the ground for cor. of secs. 13, 18, 19 and 24 marked T. 23 N., R. 18 on N. E. R. 40 W., R. 19 on S. E. S. 24 on S. W. and R. 41 W., S. 13 on N. W. faces with 3 notches on N. and S. edges dug pits 18x18x12 ins. in each sec. 5½ ft. dist. and raised a mound of earth 4 ft. base 2 ft. high W. of cor.
	Land, rolling sand hills
	Soil, sandy, 3rd rate
	Sand and Bunch grass
	N. 0°10' E. bet. secs. 13 and 18
	Ascend along S. E. face
6.00	Knob or Bluff 150 ft. W. above Valley thence over broken ground
13.00	Descend along N. E. face
20.00	Begin descent along N. slope range
40.00	Deposit a charred stake 12 ins. in the ground for ¼ sec. cor. dug pits 18x18x12 ins. N. and S. of cor. 4 ft. dist. and raised a mound of earth 3½ ft. base 1½ ft. high over deposit In S. pit drove an Oak stake 2 ft. long 2 ins. sq. 12 ins. in the ground marked ¼ S. on W. face
49.10	Trail E. and W.
49.30	Wire fence course E. and W.
49.90	Enter plowed land, course E. and W.
63.00	Foot of descent
64.50	Leave plowing, E. and W. thence over level Valley

Chains	
80.00	Set an Oak Post 3 ft. long 4 ins. sq. with charred stake 24 ins. in the ground for cor. of secs 7, 12, 13 and 18 marked T. 23 N., S. 7 on N.E. R. 40 W., S. 18 on S.E. S. 13 on S.W. and R. 41 W., S. 12 on W.W. faces, with 4 notches on S. and 2 notches on N. edges, dug pits 18x18x12 ins. in each sec. 5½ ft. dist. and raised a mound of earth 4 ft. base 2 ft. high W. of cor. S.G. Cauter's sod house bears N. 70° 30' E. about 10 chs. Land, level Valley and rolling sand hills Soil, sandy 1st and 3rd rate Heavy Prairie grass and bunch grass
	N. 0° 10' E. bet. secs. 7 and 12 over level land
2.00	Wire fence course E. and W.
4.00	Foot of range - Course E. and W. ascend
11.50	Trail N. 20° W. S. 20° E. ascend along S. face
18.00	Top of ascent, thence over rolling ground
32.00	Top of range 75 ft. high course E. and W. over broken ground
40.00	Deposit a charred stake 12 ins. in the ground for 1/4 sec. cor. dug pits 18x18x12 ins. N. and S. of cor. 4 ft. dist. and raised a mound of earth 3½ ft. base 1½ ft. high over deposit. On S. pit drove an Oak Stake 2 ft. long 2 ins. sq. 12 ins. in the ground, marked 1/4 S. on N. face
41.50	Begin descent along N. slope
54.00	Bottom descent in ravine or pass course E. and W.
56.00	ascent along S. slope
75.50	Begin abrupt ~~descent~~ ascent
77.30	South edge, sand blow out, or bluff 75 ft. above Valley descend through "blow out"
80.00	Set an Oak Post 3 ft. long 4 ins. sq. with charred stake 24 ins. in the ground for cor. of secs. 1, 6, 7 and 12 marked T. 23 N., S. 6 on N.E. R. 40 W., S. 7 on S.E. S. 12 on S.W. and R. 41 W., S. 1 on W.W. faces, with 5 notches on S. and 1 notch on N. edges, dug pits 18x18x12 ins. in each sec. 5½ ft. dist. and raised a mound of earth 4 ft. base 2½ ft. high

Chains	
	W. of cor. Land rolling and broken sand hills Soil, sandy 2nd and 3rd rate Prairie, sand and bunch grass
	N. 0° 10' E. bet. secs. 1 and 6. Ascend over very broken sand bluffs and ridges along W. face range
24.85	Ridge course E. and W. S. edge sand blow out over broken ground
29.25	Sand Bluff 50 ft. high, descend over very broken ground
38.00	Begin descent along N.E. slope range
40.00	Deposit a charred stake 12 ins. in the ground for 1/4 sec. cor. dug pits 18x18x12 ins. N. and S. of cor., 4 ft. dist. and raised a mound of earth 3½ ft. base 1½ ft. high over deposit. On S. pit drove an Oak Stake 2 ft. long 2 ins. sq. 12 ins. in the ground, marked 1/4 S. on N. face
61.00	Bottom descent center rolling Valley S. 70° E., N. 70° W.
80.00	Set an Oak Post 3 ft. long 4 ins. sq. with charred stake 24 ins. in the ground for cor. T. ps. 23 and 24 N., R. 40 W. on the E. boundary of T. 23 N. R. 41 W. marked T. 24 N., R. 40 W., S. 31 on N.E. and T. 23 N., R. 40 W., S. 6 on S.E. faces with 6 notches on S. and E. edges, dug pits 30x24x12 ins. 4 ft. dist., N. and S. and 8 ft. dist. E. of Post, and raised a mound of earth 5 ft. base 2½ ft high E. of cor. Land, Broken sand hills and rolling Valley Soil, sandy 3rd rate Bunch grass and sand grass
	In T. 24 N. N. 0° 10' E. on the W. boundary sec 31 - T. 24 N. R. 40 W. and the E. boundary sec. 1 T. 23 N., R. 41 W. over level land
4.96	Wire fence, course N. 80° E., S. 80° W.
25.00	Trail N. 80° E., S. 80° W.
26.10	S. edge Larkin's Sod House - center of house on line. At this point I offset to the N. 10 links, and run on the offset.
26.47	At this point I offset to the E. 10 links to the N. edge of

Resurvey of the 5th Guide Meridian W. T. 24 N. continued

Chains.	
	Larkin's Sod House, and to the line of the 5th Guide Meridian
27.18	Wire fence S. 70° W., N. 70 E., at foot of range course N. 60° E. S. 75° W. ascend abruptly
30.00	Top of ascent 50 high thence ascend gently over rolling ground
32.53	The original cor. of Tps. 23 and 24, R. 40 and 41 W. where I set an Oak Post 3 ft. long 4 ins. sq. 24 ins. in the ground for cor. of Tps. 23 and 24 N. R. 41 W. on the W. boundary of T. 24 N. R. 40 W. marked
	T. 24 N., R. 41 W., Sec. 36 on N. W. and
	T. 23 N., R. 41 W., Sec. 1 on S. W. faces with 6 notches on N. and W. edges dug pits 30x24x12 ins. 4 ft. dist. N. and S. and 8 ft. dist. W. of Post and raised a mound of Earth 5 ft. base 2½ ft. high W. of cor.
	August 2 - 1895
	N. on Random from original cor. of Tps. 23 and 24 N., R. 40 and 41 W., on the W. boundary of T. 24 N., R. 40 W.
7.47	Set temp. ¼ Sec. cor.
47.47	" " cor. of Secs. 30 and 31
	N. on Random along W. boundary Sec. 30
40.00	Set temp. ¼ Sec. cor
80.00	" " cor. of secs. 19 and 30
	N. on Random along W. boundary of Sec. 19
40.00	Set temp. ¼ sec cor.
80.00	" " cor. of secs. 18 and 19
	N. on Random along W. boundary of sec. 18
40.00	Set temp. ¼ sec. cor.
80.00	" " cor. of secs. 7 and 18
	N. on Random along W. boundary of Sec. 7
36.41	Original cor. of secs. 7, 12, 13 and 18 - flat mound with pits and cedar stake in mound, 4.52 chs. E. of random line - The true course of the 5th Guide Meridian from the original cor. of Tps. 23 and 24 N., to this cor. is N. 0° 48' E.
40.00	Set temp. ¼ sec. cor.
80.00	" " cor. of secs. 6 and 7

Resurvey of the 5th Guide Meridian W. T. 24 N. continued

Chains	
	North on Random along W. boundary of Sec. 6
36.82	The original cor. of secs. 1, 6, 7 and 12, mound, Pits and cedar stake, which is 6.28 chs. E. of random line. The true course of the 5th Guide Meridian from the original cor. of Secs. 7, 12, 13 and 18 to this cor. is N. 1° 15' E.
40.00	Set temp. ¼ sec cor.
117.15	Intersect 6th Standard Parallel at a point 8.21 chs W. of the old closing corner of Tps. 24 N., Rs. 40 and 41., the true course of the 5th Guide Meridian from the original cor. of secs. 1, 6, 7 and 12, to the old closing cor. is N. 1° 23' E.
	May 6 - 1895
	From the old Cor. of Tps. 23 and 24 N., Rs. 40 and 41 W. which is on the West boundary of Sec. 31, T. 24 N., R. 40 W., and North 32.53 chs. from the Cor. of Tps. 23 and 24 N. R. 40 W.
32.53	The old cor. of Tps. 23 and 24 N., Rs., 40 and 41 W.
	Thence I run
	N. 0° 48' E. along W. boundary of Sec. 31
	Ascend along S. E. face range, abruptly
36.50	Top of ascent 30 above cor. ascend over rolling ground
40.00	Deposit a charred stake 12 ins. in the ground for ¼ sec cor. dug pits 18x18x12 ins. N. and S. of cor. 4 ft. dist and raised a mound of Earth 3½ ft. base 1½ ft. high over deposit
	In S. pit drove an Oak Stake 2 ft. long 2 ins. sq. 12 ins in the ground marked
	¼ S. on W. face
	Ascend along S. W. slope
62.00	Top of ascent on high point of range 125 course of range E. and W. descend over rolling ground along N. slope
80.00	Set an Oak Post 3 ft. long 4 ins. sq. with charred stake 24 ins. in the ground for cor of secs. 30 and 31 marked
	T. 24 N., S. 30 on N. E. and
	R. 40 W., S. 31 on S. E. with 5 notches on N. and 1 notch on S. edges. dug pits 24x24x12 ins. in each sec. 6 ft. dist and raised a mound of Earth, 4 ft. base 2 ft. high E. of cor.
	Land, level Valley and rolling sand hills
	Soil, sandy 3rd and 2nd rate
	Thin prairie grass in Valley. Bunch grass on hills
	N. 0° 48' E. on W. boundary of sec. 30
	Descend along N. slope over rolling ground

Resurvey of the 5th Guide Meridian N. T. 24 N. Continued

chains	
8.60	Trail course E. and N. to Hyannis.
9.44	Wire fence parallel to the Railroad
11.26	Center of the track of "Burlington and Missouri River railroad in Nebraska" in "deep cut" Course N. 81° 34' E. - the track makes a curve to the N. from a point 20 lks. E.
12.42	Telegraph line parallel to the Railroad
13.07	Wire fence parallel to the railroad. ascend abruptly along S. slope of range of Sand Hills.
21.80	Top of ascent 100 ft. ~~above railroad~~, ~~over rolling~~ ground along S. face of range
40.00	Deposit a charred stake 12 ins. in the ground for 1/4 sec. cor. dug pits 18x18x12 ins. N. and S. of cor., 4 ft. dist. and raised a mound of earth 3 1/2 ft base 1 1/2 ft. high over deposit In S. pit drove an Oak Stake 2 ft. long 2 ins. sq. 12 ins. in the ground marked 1/4 S. on N. face
41.50	High point of range 120 ft. high course N. 75° E., S. 75° W. thence over broken ground along top of range
58.00	Begin descent along N. slope range over broken ground
80.00	Set an Oak Post 3 ft. long 4 ins. sq. with charred stake 24 ins. in the ground for cor. of secs. 19 and 30 marked T. 24 N., S. 19 on N.E. and R. 40 W., S. 30 on S.E. faces with 2 notches on S. and 4 notches on N. edges, dug pits 24x24x12 ins. in each sec. 6 ft. dist. and raised a mound of earth 4 ft. base 2 ft. high E. of cor. Sand, rolling and broken sand hills Soil, sandy 3rd rate Bunch grass August 2 - 1895

	N. 0° 48' E. on W. boundary sec. 19 Descend gently
3.00	Enter Valley, course N. 80° W., S. 60° E.
24.00	Foot of range course S. 80° W., N. 60° E. ascend abruptly
34.50	Top of abrupt ascent 100 ft. ascend gently along S. face range
38.50	Top of range 120 ft. high course N. 60° E., S. 60° W. over rolling ground
40.00	Deposit a charred stake 12 ins. in the ground for 1/4 sec. cor. dug pits 18x18x12 ins. N. and S. of cor. 4 ft. dist. and raised a mound of earth 3 1/2 ft. base 1 1/2 ft. high over deposit In S. pit drove an Oak Stake 2 ft. long 2 ins. sq. 12 ins. in the ground marked

Resurvey of the 5th Guide Meridian N. T. 24 N. continued

chains	
	1/4 S. on N. face
44.00	Descend along N. face range
51.00	Begin descent along N. slope of range
76.60	Trail course E. and N. at foot of range, ascend gently through neck of Valley
80.00	Set an Oak Post 3 ft. long 4 ins. sq. with charred stake 24 ins. in the ground, for cor. of secs. 18 and 19 marked T. 24 N., S. 18 on N.E. and R. 40 W., S. 19 on S.E. faces, with 3 notches on N. and S. edges dug pits 24x24x12 ins. in each sec. 6 ft. dist. and raised a mound of earth 4 ft. base 2 ft. high E. of cor. Sand, Rolling and Broken Soil, Sandy 2nd and 3rd rate Sand and Bunch grass

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	N. 0° 48' E. on W. bdy. of sec. 18 ascend gently over rolling foot hills
13.00	Low ridge, descend
16.00	Enter basin like Valley E. and N.
20.00	Begin ascent along S. W. slope range over rolling ground
40.00	Deposit a charred stake 12 ins. in the ground for 1/4 sec. cor. dug pits 18x18x12 ins. N. and S. of cor. 4 ft. dist. and raised a mound of earth 3 1/2 ft. base 1 1/2 ft. high over deposit In S. pit drove an Oak Stake 2 ft. long 2 ins. sq. 12 ins. in the ground marked 1/4 S. on N. face
41.50	Top of ascent on low range 50 ft. high course E. and N. descend along N. slope
64.00	Enter rolling Valley, course E. and N.
80.00	Set an Oak Post 3 ft. long 4 ins. sq. with charred stake 24 ins. in the ground for cor. of secs. 7 and 18 marked T. 24 N. S. 7 on N.E. and R. 40 W., S. 18 on S.E. faces with 2 notches on N. and 4 notches on S. edges, dug pits 24x24x12 ins. in each sec. 6 ft. dist. and raised a mound of earth 4 ft. base 2 ft. high E. of cor. Rochester Tappan's frame house bears N. 1° 48' E. 14 chs. dist. Sand level and rolling Soil, sandy 2nd and 3rd rate Prairie Sand and Bunch grass

Chains	
	N. 0° 48' E. on the W. bdy. of sec. 7
	Over level ground
8.54	S. W. cor. of Tappans plowed field E. 39 lks.
13.10	N. W. cor. plowed field 3 lks. E.
19.00	Foot of range course E. and N. ascend abruptly
28.70	Top of abrupt ascent, thence ascend over rolling ground along S. face
35.40	Top of range 100 ft. high, course E. and N. over rolling ground
36.41	The old cor. of secs. 7, 12, 13 and 18, being a flat mound with a cedar stake with marks defaced, and pits dug in each sec., where I set an Oak Post 3 ft. long 4 ins. sq. with charred stake 24 ins. in the ground for cor. of secs. 12 and 13 R. 41 W. marked T. 24 N., S. 13 on S. W. and R. 41 W., S 12 on N. W. faces, with 4 notches on S. and 2 notches on N. edges, dug pits 24x24x12 ins in each sec. 6 ft. dist. and raised a mound of earth 4 ft. base, 2 ft. high N. of cor. Thence I run N. 1° 15' E. Over rolling ground
40.00	Deposit a charred stake 12 ins. in the ground for 1/4 sec. cor. dug pits 18x18x12 ins. N. and S. of cor. 4 ft. dist. and raised a mound of earth 3½ ft. base 1½ ft. high over deposit In S. pit drove an Oak stake 2 ft. long 2 ins. sq. 12 ins. in in the ground marked 1/4 S. on N. face
45.70	Begin descent along N. slope of range
67.00	Bottom descent, enter level ground E. and N.
80.00	Set an Oak Post 3 ft. long 4 ins. sq. with charred stake 24 ins in the ground for cor. of secs. 6 and 7 marked T. 24 N., S. 6 on N. E. and R. 40 W., S. 7 on S. E. faces, with 5 notches on S. and 1 notch on N. edges dug pits 24x24x12 ins. in each sec. 6 ft. dist. and raised a mound of earth 4 ft. base 2 ft. high E. of cor. Sand level Valley and rolling sand hills Soil, sandy 2nd and 3rd rate Prairie, sand and Bunch grass

Chains	
	N. 1° 15' E. on the W. boundary of Sec. 6. Over level ground.
7.00	Foot of range, course N. 70° E., S. 70° W., ascend.
16.00	Top of ascent 60 ft. thence over broken ground.
24.00	Top of range - thence over very broken ground
28.00	Begin descent along N. slope over rolling ground.
36.62	The old Cor. of Secs. 1, 6, 7 and 12, flat mound with cedar stake and pits dug in each sec. where I set an Oak Post 3 ft. long 4 ins. sq. with a charred stake, 24 ins. in the ground; in place of the old cedar stake, for Cor. of Secs. 1 and 12, R 41 W. marked T. 24 N. S. 12 on S. W., and R 41 W. S. 1 on N. W. faces, with 5 notches on S. and 1 notch on N. Edges, dug pits 24 x 24 x 12 ins. in each Sec. 6 ft. dist. and raised a mound of earth 4 ft. base 2 ft. high, W. of Cor. Thence I run N. 1° 23' E. Descend over rolling ground along N. W. slope
40.00	Deposit a charred stake 12 ins. in the ground for 1/4 Sec. Cor. dug pits 18 x 18 x 12 ins. N. and S. of Cor. 4 ft. dist., and raised a mound of Earth 3½ ft. base 1½ ft. high, over deposit In S. pit drove an Oak stake 2 ft. long 2 ins. sq 12 ins. in the ground, marked 1/4 S. on W. face ascend gently along W. slope over low ridges and ravines.
60.00	Top of ascent 40 ft. above Cor., descend along N. W. slope
74.00	Bottom of descent in ravine or pass. Course S. 70° E. N. 70° W.
76.00	ascend gently over rolling foot hills, sloping to S. W.
96.00	Top of ascent 30 ft. above ravine, descend along N. E slope over rolling foot hills.
102.00	Bottom descent in ravine or pass, course N. W. and S. E., ascend along S. E. slope over rolling foot hills
117.15	The old closing Corner, being a flat mound, with cedar stake in mound, and pits dug S. E. and W. of mound, where I set an Oak Post 3 ft. long 4 ins. sq. with charred stake 24 ins in the ground; in place of the old stake, for the closing Cor. of T. 24 N., R 40 and 41 W., marked C. C. T. 24 N. and S.

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Chains.

Pt. to W. S. 6 on E., and
Pt. to W. S. 1 on W. faces, with 6 grooves on S. E., and
W. faces, dug pits 30+2++12 lks. crosswise on
each line + ft. E. and W., and S. of post 8 ft. dist.
and raised a mound of earth 5 ft. base 2½
ft. high, S. of Cor.
Land, rolling sand hills.
Soil, Sandy 3rd rate.
Sand and Bunch grass.

August 9. 1895.

General Description.

This line runs over a series of sand ridges or ranges for the whole distance. There is no natural water on the line, except in the S. E. Cor. of T. 22 N. R. 1 W., where there is a slough which overflows in spring of year.

The valleys between the ranges produce a tall sand grass, and upon the hills, a bunch grass grows, which is very strong, and is very good for grazing purposes.

The land is unfit for cultivation. No timber of any description.

Willard W. Alt
U. S. ~~Deputy~~ Surveyor.

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List of Names.

A list of the names of the individuals employed by .....
....., U. S. Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of the .....

..... Meridian, in ....., showing the respective capacities in which they acted:

Final Oath of Assistants:

We hereby certify that we assisted .....
....., U. S. Deputy Surveyor, in surveying all those parts or portions of the .....

..... Meridian, ..., as are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the U. S. Surveyor General for .....

Subscribed and sworn to before me this .....
day of ....., 18 .

SEAL

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Final Oath of U. S. Deputy Surveyor.

I, Willard W Alt, U. S. ~~Deputy~~ Surveyor, do solemnly swear that, in pursuance of instructions received from Commissioner of General, ~~U. S. Surveyor General for~~ Land Office, bearing date of the 8th day of March, 1895, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the ~~U. S. Surveyor General for~~ Commissioner of the General Land Office, the surveying manual, and the laws of the United States, surveyed all those parts or portions of 5th Guide Meridian West, through Townships No. 21, 22, 23 and 24 North of the Base Line and W. 76th

Principal Meridian, in the State of Nebraska, as are represented in the foregoing field notes as having been surveyed by me, and under my directions; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the surveying manual, printed instructions, the special written instructions of the ~~U. S. Surveyor General for~~ Commissioner of the General Land Office and in the specific manner described in the field notes, and that the foregoing are the true field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

Willard W Alt
U. S. ~~Deputy~~ Surveyor.

Subscribed and sworn to before me this 6th day of April, 1897.

SEAL

Patrick J Carey
Clerk of District Court.

Approval.

Office of the ~~U. S. Surveyor General~~ Commissioner of the General Land Office,
Washington D.C. April 30, 1897.

The foregoing field notes of the survey of the 5th Guide Meridian West through Townships 21, 22, 23 and 24 North of the Base Line State of Nebraska

executed by Willard W. Alt, U. S. Surveyor under his Contract No. ....., dated December 26, 1894, having been critically examined, the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Dinger Hermann
~~U. S. Surveyor General.~~
Commissioner and ex officio Surveyor General for Nebraska

I certify that the foregoing transcript of the field notes of the above-described surveys of the 5th Guide Meridian West, has been correctly copied from the original notes on file in this office.

Dinger Hermann
~~U. S. Surveyor General.~~
Commissioner and ex officio Surveyor General for Nebraska

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General Land Office • Original Field Notes

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W.W. Alt - 5th Guide Meridian through T 21 - 24 N

The images in this file are microfilm images of the notes of W.W. Alt resurveys of portions of the State of Nebraska on file in the Office of the Nebraska State Surveyor located in Lincoln, Nebraska.

The W.W. Alt resurveys began in the mid 1890's and were completed in the early 1900's.