General Land Office • Original Field Notes

Book Number

775

W.W. Alt - North, East & West bdy. T 21 - 23 N, R 47 W

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.

775

Dup. Copy — 347

4—679.

FIELD NOTES

OF THE SURVEY OF THE

North, East and West Boundaries

of

Townships 21, 22 and 23 North,

Range 47 W

also

Note, random lines in T. 21 N. and in Range 46 and 48 W, T. 22 and 23 N., investigating alleged conditions and locations of claimed original Government Section and Township Corners, and auxiliary surveys being deemed necessary for the proper establishment of the E. and W. boundaries of Townships 21, 22 and 23 N. Range 47 W.

Of the 6th Principal Meridian,

State of Nebraska

AS SURVEYED BY

Willard W. Alt, United States ~~Deputy~~ Surveyor,

Under his Contract ~~No.~~ ——, dated May 26, 1900

Survey commenced October 16, 1900

Survey completed January 7, 1901

6—151

NAMES AND DUTIES OF ASSISTANTS.

Joseph B. Kern, Chainman

Jim H. Winsor, " until Oct. 20

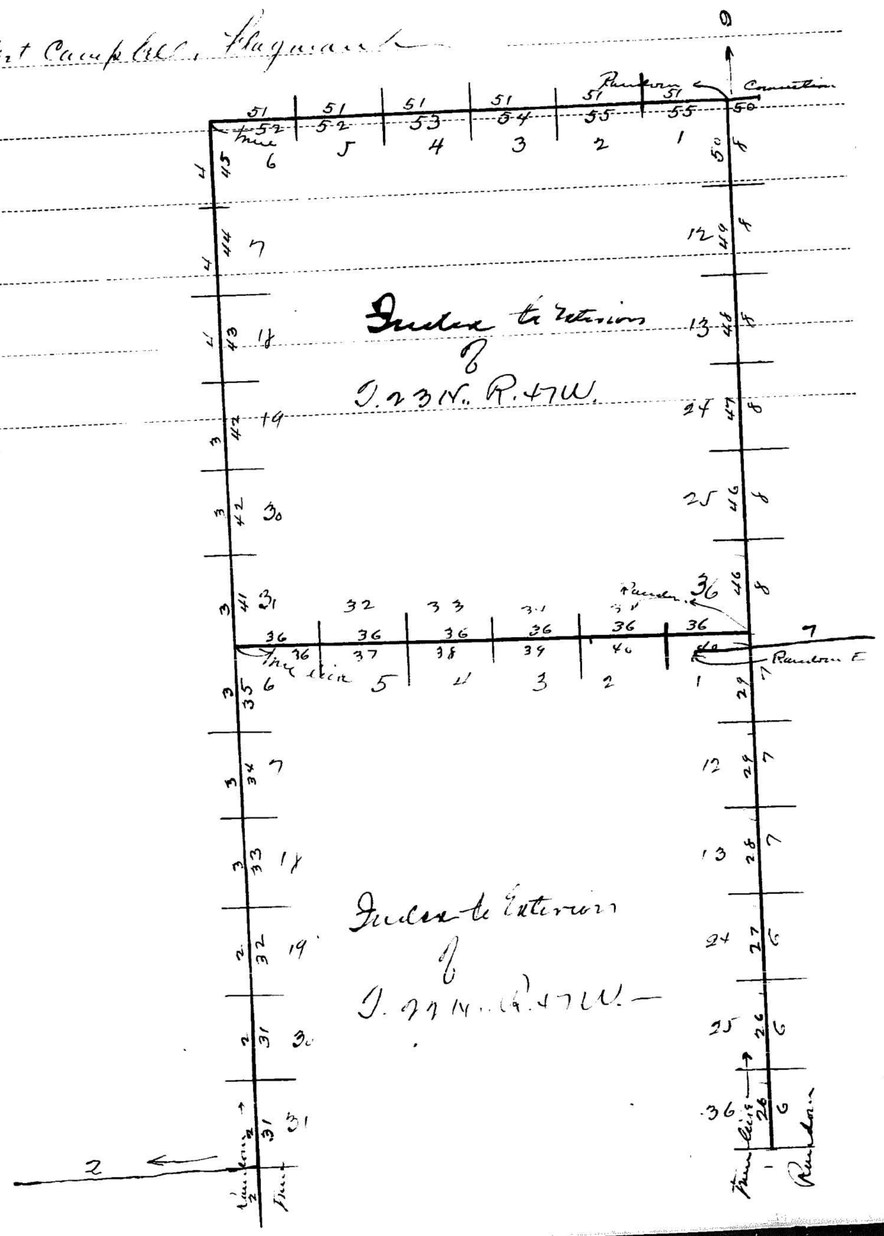
Harry Coralt, " from Nov. 5 to Dec. 22

Earl J. Martin " from Dec. 22

Earl J. Martin, Moundman, until Dec. 22

Fred Newman, " " from Dec. 22

Herbert Campbell, Flagman



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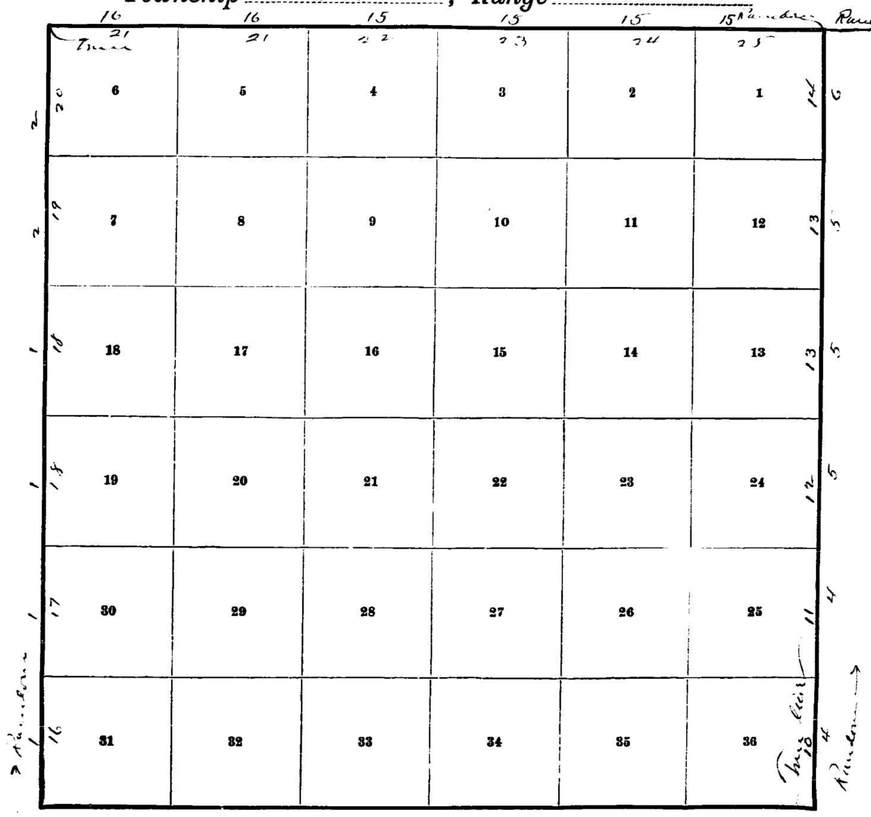
INDEX DIAGRAM.

Township 21 N. (Exterior), Range 47 W



Meanders Page

6—151

PRELIMINARY OATHS OF ASSISTANTS.

We, Joseph B. Koon and Jim A. Winsor do solemnly swear that we will well and faithfully execute the duties of chainmen; 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 distances 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 survey ~~of~~ and resurveys of the East, West and North boundaries of Townships No 21, 22 and 23 North, Range 47 W. of the 6th Principal Meridian, State of Nebraska.

Joseph B. Koon, *Chainman.*

Jim A. Winsor, *Chainman.*

Subscribed and sworn to before me this 14th day of October, 1900

Willard W. Alt
U. S. Surveyor

SEAL

We, ... and ..... do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of .....

....., *Moundman.*

....., *Moundman.*

Subscribed and sworn to before me this ..... day of ....., 189

SEAL

We, ... and ..... do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of .....

....., *Axman.*

....., *Axman.*

Subscribed and sworn to before me this ..... day of ....., 189

SEAL

I, Herbert Campbell, 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 survey ~~of~~ and resurveys of the East, West and North boundaries of Townships 21, 22 and 23 North Range 47 West of 6th Principal Meridian, State of Nebraska.

Herbert Campbell, *Flagman.*

Subscribed and sworn to before me this 14th day of October, 1900

Willard W. Alt,
U. S. Surveyor.

SEAL

6—151

I, Harry Covalt, do solemnly swear that I will well and faithfully execute the duties of chainman, that I will level the chain over even and uneven ground and plumb the tally pins, either by sticking or dropping the same, that I will report the true distances to all notable objects, and the true length of all lines that I assist in measuring, to the best of my skill and ability, and in accordance with instructions given me in the Survey and re-survey of the East, West and North boundaries of Townships No. 21, 22 & 23 North, Range 47 West of 6th. Principal Meridian, State of Nebraska.

Harry Covalt
Chainman.

Subscribed and Sworn to before me this 5th. day of November 1900.

Willard W. Alt.
U. S. Surveyor.

I, Earl J. Martin, do solemnly swear that I will well and truly perform the duties of Moundman in the establishment of corners, according to the instructions given me to the best of my skill and ability, in the Survey and Re-surveys, of the East, West and North boundaries of Townships No. 21, 22 & 23, North, Range 47 West of the 6th. Principal Meridian State of Nebraska.

Earl J. Martin
Moundman.

Subscribed and Sworn to before me this 24th. day Nov. 1900.

William W. Alt.
U. S. Surveyor.

I, Earl J. Martin, do solemnly swear that I will well and faithfully perform the duties of chainman; that I will level the chain upon even and uneven ground and plumb the tally pins either by sticking or dropping the same; that I will report the true distances to all notable objects and true length of all lines that I assist in measuring, to the best of my skill and ability, and in accordance with instructions given me, in the Survey of re-survey of the North, East and West boundaries of T. 23 N. R 47 W. of 6th. Principal Meridian, State of Nebraska

E. J. Martin
Chainman.

Subscribed and sworn to before me this 22nd day of December 1900.

Willard W. Alt
U. S. Surveyor.

I, Fred Newman, do solemnly swear that I will well and truly perform the duties of moundman in the establishment of Corners according to the instructions given me, to the best of my skill and ability, in the Survey and re-Survey of the North, East and West boundaries, Township 23 North, Range 47 West of 6th. Principal Meridian, State of Nebraska.

Fred Newman
Moundman.

Subscribed and sworn to before me this 22d. day of Dec. 1900.

Willard W. Alt.
U. S. Surveyor.

Re-Survey of N. Bdry T. 21 N. R. 47 W. 6th P. M. Nebraska.

Chains

Survey commenced Oct. 16. 1900. and executed with a W. and L. E. Gurley Transit #2 – the instrument is provided with two double verniers placed opposite to each other and reading to single minutes of arc. The instrument was thoroughly examined and placed in perfect adjustment before commencing these survey.

My chain is also compared and adjusted to Standard Tape –

The direction of the random lines are determined by turning an angle of 89°44'. from the tangent run in the re-Survey of 5th Stand and Parallel from the East to the W. from a point on said tangent N. of the Standard Cor. of Tps. 21 N. R. 47 and 48 W. From the Standard Cor. of Tps. 21 N. R. 47 and 48 W.

I run – N. on a random line bet Secs. 31 and 36.

40.00 Set temp 1/4 Sec. Cor.

71.55 Old mound with pits N. S. E. and W. 1.05 links W. of random.

80.00 Set temp. Cor of Secs 25, 30, 31, and 36.

N. on a random line bet Secs. 25 and 36.

40.00 Set temp 1/4 Sec. Cor.

80.00 Set temp Cor of Secs. 19, 24, 25 and 30.

N. on a random line bet Secs. 19 and 24.

40.00 Set temp 1/4 Sec. Cor.

80.00 Set temp Cor. of Secs. 13, 18, 19 and 24 which temp Cor. is S. 0.48 chs and W. 2.83 chs. dist from a cedar post in mound properly marked for the Cor of Secs 13, 18, 19 and 24. I offset with my random line to a point S. 0.40 W. 48 lks. dist from the old Cor.. and run a new random from the old Cor.

N. on a random line bet Secs. 13 and 18.

0.48 The old Cor of Secs. 13, 18, 19 and 24

Re-Survey of W. bdry. T. 21 N. R. 47 W. Continued

Chains
40.00 Set temp 1/4 Sec. Cor.
80.00 Set temp Cor. of Secs. 7, 12, 13 and 18.

N. on a random line bet. Secs. 7 and 12.
40.00 Set temp 1/4 Sec. Cor.
80.00 Set temp Cor. of Secs. 1, 6, 7 and 12.

N. on random line bet. Secs. 1 and 6.
40.00 Set temp 1/4 Sec. Cor.
80.00 Set temp Cor. of Tp. 21 and 22 N. R. 47 and 48 W.

From the temp Tp. Cor. I run W. on a random bet. T. 21 and 22 N. in R. 48 W. making a diligent search at each 4 and 8 chs. for corners on town line at a point 240 72 chs. W. and 4.24 chs. N. I find what is claimed by settlers as the Cor of Secs. 3, 4, 33 and 34 & consider the Cor indentified

October 16. 1900.

W. bdry T. 22 N R 47 W — Random line
From the temp Cor. of T. 21 and 22 N. I run in T. 22 N.
N. on a random line bet Secs. 31 and 36.
9.80 A magnesia limestone 6 ins. sq. 6 ins. above ground with 6 notches on each edge with pits N. S. E. and W. 10 ft dist. this is claimed by settlers as the original Township Corner.
40.00 Set temp 1/4 Sec. Cor.
80.00 Set temp. Cor of Secs. 25, 30, 31 and 36.

N. on a random line bet Secs. 25 and 30.
40.00 Set temp 1/4 Sec. Cor.
80.00 Set temp Cor of Secs. 19, 24, 25 and 30.

N. on a random line bet. Secs. 13 and 18.
40.00 Set temp 1/4 Sec. Cor.

N. on a random line bet Secs. 19 and 24.
40.00 Set temp 1/4 Sec. Cor.
80.00 Set temp. Cor. of Secs. 13, 18, 19 and 24.

Re-Survey of W. bdry T. 22 N. R. 47 W.

Chains
80.00 Set temp Cor. of Secs. 7, 12, 13 and 18

N. on a random line bet. Secs 7 and 12.
40.00 Set temp 1/4 Sec. Cor.
80.00 Set temp Cor. of Secs 1, 6, 7 and 12.

N. on a random line bet. Secs. 1 and 6.
40.00 Set temp 1/4 Sec. Cor.
80.00 Set temp Cor. of T. 22 and 23 N. R. 47 and 48 W. being at a point N. 6 miles dist. from temp. Cor. [illegible] Oct. 19. 1900.

W. bdry T. 23 N. R 47 W
From the Temp Cor. of T. 22 and 23 N. I prolong my random line through Tp. 23 N. and run N. on a random line bet Secs 31 and 36.
40.00 Set temp. 1/4 Sec. Cor.
80.00 Set temp Cor. of Secs. 25, 30, 31 and 36.

N. on a random line bet. Secs. 25 and 30.
40.00 Set temp 1/4 Sec. Cor.
80.00 Set temp. Cor. of Secs. 19, 24, 25 and 30.

N. on a random line bet Secs 19 and 24.
12.18 Point 6.60 chs. W. of what is claimed by settlers as the original 1/4 Sec. Cor. on W. bdry. Sec. 19 which is a flat mound with pits N. S. and W. I offset with my random line to this Cor and run from said old Cor.
40.00 Set temp 1/4 Sec. Cor.
53.12 Point 1.67 chs. W. of the original Cor of Secs. 13, 18, 19 and 24 as claimed by old settlers, which Cor is a flat mound with pits dug in each Sec.
80.00 Set temp Cor. of Secs. 13, 18, 19 and 24.

Re-Survey W. bdry T. 23 N. R. 47 W. Continued.

Chains

N. on a random line bet. Secs. 13 and 18.
40.00 Set temp. 1/4 Sec. Cor.
80.00 Set temp. Cor. of Secs. 7, 12, 13, and 18.

N. on a random line bet. Secs. 7 and 12.
40.00 Set temp. 1/4 Sec. Cor.
80.00 Set temp. Cor. of Secs. 1, 6, 7, and 12.

N. on a random line bet. Secs. 1 and 6.
40.00 Set temp. 1/4 Sec. Cor.
58.06 Intersect N. bdry of Tp. at a point W. 3.68 chs. dist. from the original Cor. of T. 23 and 24 N. R. 47 and 48 W. which Cor. is a leader post in mound and which Cor. is represented and claimed by all old settlers as the original Government Cor.
Oct. 20. 1900

E. bdry. T. 21. N R 47 W – Random line.

Re-Survey of E. bdry of T. 21 N. R. 47 W. – From the claimed original Cor. of Secs. 19, 24, 25 and 30 mound with pits dug in each Sec. the direction being determined from the observation made and the lines run in starting the re-survey of the 5th Standard Parallel N. which direction is maintained throughout this survey the direction of all random and auxilary lines being determined from angles turned from this line – from this old Cor. I run

S. on a random line bet. Secs. 25 and 30.
40.00 Set temp. 1/4 Sec. Cor. which falls E. 14 lks. dist. from original 1/4 Sec. Cor. flat mound with pits N. and S.
80.00 Set temp. Cor. of Secs. 25, 30, 31 and 36.

S. on random line bet. Secs. 31 and 36.
39.22 Original 1/4 Sec. Cor. flat mound with pits

Re-Survey of E. bdry of T. 21 N. R. 47 W. Continued

Chains

86 lks. W. of random.
78.91 Intersect 5th Standard Parallel N. at a point E. 54 lks. dist. from the original Cor. of T. 21 N. R. 46 & 47 W.
Oct. 15th. 1901.

From a point 109 chs. N. of the old Cor. of Secs. 19, 24, 25 and 30 which point is N. 2 miles dist. from the 5th Standard Parallel I prolong my random line and run.
N. on a random line bet. Secs. 9 and 24.
40.00 Set temp. 1/4 Sec. Cor.
78.24 Leader stake in mound said to be the old Cor. of Secs. 13, 18, 19 and 24. E. 24 lks. from random line
80.00 Set temp. Cor. of Secs. 13, 18, 19 and 24.

N. on a random line bet. Secs. 9 and 18.
40.00 Set temp. 1/4 Sec. Cor.
80.00 Set temp. Cor. of Secs. 7, 12, 13 and 18, which is claimed to be the Cor. of Secs. 7, 8, 17 and 18, T. 21 N. R. 46 W. is shown one which Cor. is 20.56 chs. and S. 7.27 chs. from temp. Cor. Settlers also stated that an old range line Cor. had been found at a point mile W. of this old Cor. of Secs. 7, 8, 17 and 18. I run a line W. from this old Cor. but fail to find the Cor. refered to.

N. on a random line bet. Secs. 7 and 12.
40.00 Set temp. 1/4 Sec. Cor.
80.00 Set temp. Cor. of Secs. 1, 6, 7 and 12.

N. on a random line bet. Secs. 1 and 6.
40.00 Set temp. 1/4 Sec. Cor.
80.00 Set temp. Cor. of Tps. 21 and 22 N. R. 46 and 47 W. from the temp. Tp. Cor. I run a tangent W. through R. 47 bet. T. 21 and 22 N. at a point S. 7.13 chs. from a point W. 58.96 chs. dist. I find what is claimed by part of the old settlers as the old Tp. Cor. which is a piece of barrel stave drawn in

Re-Survey of E. bdry of T. 21 N. R. 47 W. Concluded.

Chains

mound indistinctly marked probaly by a surveyor - I prolong my tangent to intersect the W bdry: but find no original Corners except those Corners that are shown one as corners of Claims which are mentioned and described in the field notes of the Survey of the Claims

October 17. 1910.

E. bdry T. 22 N. R 47 W

From the temp. Cor of T. 21 and 22 N. R. 46 and 47 W. I run a random line East in R. 46 W at 18.83 chs. E. and 6 of T. 22 find what is claimed to be the old Cor of Secs. 5, 6, 31 and 32, which is a cedar post in mound - I prolong my line E. from this "old Cor" and make a dilligent search at each 20 chs. for old Corners, without success until at a point E. 5 miles 3 chs and 2 links and 104 chs S I find what is said by old settlers to be the original Cor. of T. 21 and 22 N. R. 45 and 46 W. which is a cedar post in mound properly marked with pits N. S. E and W. the settlers state that no old Corners were ever found S of this Cor. but say that there are old Corners 2 or 3 miles N. - they also state that the sections along the town line in R. 45 are about 90 chs. long from E. to W.

Oct. 18. 1900.

From the temp Cor. of T. 21 and 22 N. R. 46 and 47 W. I run in T. 22 N.

N. on a random line bet. Secs. 31 and 36.

40.00 Set temp 1/4 Sec. Cor.

80.00 Set temp Cor. of Secs. 25, 30, 31 and 36.

N. on a random line bet. Secs. 25 and 30.

40.00 Set temp 1/4 Sec. Cor.

80.00 Set temp Cor. of Secs. 19, 24, 25 and 30.

N. on a random line bet. Secs. 19 and 24

40.00 Set temp. 1/4 Sec. Cor.

80.00 Set temp. Cor. of Secs. 13, 18, 19 and 24

Re-Survey of E. bdry. T. 22 N. R 47 W.

Chains

N. on a random line bet Secs. 13 and 18.

40.00 Set temp 1/4 Sec. Cor.

80.00 Set temp Cor. of Secs. 7, 12, 13 and 18.

N. on a random line bet Secs. 7 and 12

40.00 Set temp 1/4 Sec. Cor.

80.00 Set temp Cor. of Secs. 1, 6, 7 and 12

N. on a random line bet. Secs. 1 and 6.

40.00 Set temp 1/4 Sec. Cor.

80.00 Set temp. Cor of T. 22 and 23 N. R. 46 and 47 W.

November, 5, 1900.

From the temp. Cor of T. 22 and 23 N. R. 46 and 47 W. I run through R. 47 W.

W. on a random line bet. Secs 1 and 36.

52.04 Point 4.50 chs. N. of what is claimed by settlers as the original Cor. of T. 22 and 23 N. R. 46 and 47 W. which is an Oak stake in mound properly marked with pits N. S. E. and W. 1 ft. dist at a point S 3 ft. from Corner Post there is an N. S. Geological survey monument elevation 3901.

I prolong my line through the Tp. to intersect random line run on W bdry without finding any "claimed" original Corners. I return to the claimed original Tp. Cor. and run a random line East in R. 46 W. from this old Corner.

E. on a random line bet. Secs. 6 and 5 as claimed

76.04 Old Cor. mound with pine stake and 4 pits dug N. S. E. and W. N. 50 lks. from random.

E. on random line bet Secs. 5 and 32. as claimed

89.05 Old Cor mound with 4 pits N. 2.42 chs from random line.

Nov. 6 1900.

Re- Survey E. bdry T. 23 N. R. 47 W. —

Chains E. bdry T. 23 N R 47 W — Random line

From the temp. Cor. of T. 22 and 23 N. R. 46 and 47 W.
I run in T. 23 N.
N. on a random line bet. Secs. 31 and 36.
40.00 Set temp 1/4 Sec. Cor.
80.00 Set temp Cor. of Secs. 25, 30, 31 and 36.

N. on a random line bet. Secs. 25 and 30.
40.00 Set temp. 1/4 Sec. Cor.
80.00 Set temp Cor of Secs. 19, 24, 25 and 30.

N. on a random line bet. Secs. 19 and 24.
40.00 Set temp 1/4 Sec. Cor.
80.00 Set temp Cor. of Secs. 13, 18, 19 and 24.

N. on a random line bet. Secs. 7 and 12.
40.00 Set temp 1/4 Sec. Cor.
80.00 Set temp Cor. of Secs. 1, 6, 7, and 12
November. 5. 1900

N. on a random line bet. Secs 7 and 12.
40.00 Set temp. 1/4 Sec Cor.
80.00 Set temp Cor. of Secs. 1, 6, 7 and 12.

N. on a random line bet. Secs. 1 and 6.
40.00 Set temp. 1/4 Sec. Cor.
85.79 Set temp Cor of T. 23 and 24 N. R. 46 and 47 W.
which temp. Cor. bears W. 25.62 chs. from a claimed old or original Cor. of T. 23 N. R. 46 and 47 which old Cor is a red sand stone 6 x 8 x 24 ins marked
R. 46 S. 31 on N. E.
T. 23 N. R. 46 S. 6 on S. E.
R. 47 S. 1 on S. W. and
T. 24 R. 47 S. 36 on N. W. faces, with 6 notches on each edge with pits dug on each line 8 ft. dist
I run a random line westerly from this old

Re- Survey of E. bdry T. 23 N. R. 47 W. —

Chains

Corner to an intersection with the W. bdry - the corners found on this line are more definately located in field notes of the Survey of the N. Bdry of T. 23 N. R. 47 W. - and Subdivisions and Claim Lines of T. 23 N. R. 47 W. November 7. 1900 —

Through T. 24 N between Ranges 46 and 47 W. Random Line

From the temp. Cor. of T. 23 and 24 N. R. 46 & 47 W.
I prolong my random line through T. 24 N and run N. on a random line siting temporary points for 1/4 and Sec. Corners making a diligent search for original corners. at
485.26 Intersect 6th Standard Parallel N. at a point W. 6 chs. dist. from the original closing Cor which is a flat mound with pits E. W. and S. 6 ft. dist. this random line being run from the claimed original Cor. of Secs. 19. 24. 25 and 30 in T. 21 N. which Cor. is E. 54 chs dist. from the Standard Cor. of T. 21 N. R. 46 and 47 W. a line runs N. from the said Standard Cor. would intersect 6th Standard Parallel at a point W. 6.54 chs. dist. from the above described closing Cor. This closing Cor is easterly 2.89 chs. dist from the Standard Cor. of Secs. 32 and 33. T. 25 N. R. 46 W.
To verify the location of this Cor. I run a random line E. from the Standard Cor at 80.46 chs. the old Cor. of Secs. 33 and 34 at a point 1.63 chs. N. of random - which Standard Cor. is W. 2.45 chs. from the old closing Cor.
I also consult a Mr. Wilson who is County Surveyor of Sheridan Co. Nebr. and he stated that all of the closing Corners on this line so far as he had investigated were E. of the Standard Corners, he also stated that he had made a survey of a considerable portion of this line in this vicinity. I therefore conclude that the original field notes are in error as to the location of these closing Corners
Nov. 8. 1900.

Survey of the E. bdry T. 21 N. R. 47 W.

East boundary

Chains

In accordance with supplemental special instructions Dated Nov. 20th 1908 and diagram accompanying said instructions I establish the E. bdry of T. 21, 22 and 23 N. on right line from the Standard Cor. of T. 21 N. R. 46 and 47 W. run to the closing Cor. on 6th Standard Parallel N. the measurement of each tp. being in proportion to the recorded original measurement of this line the E. bdry of T. 21 N. being 482.65 chs. of T. 22 N. 482.66 chs. the E. bdry of T. 23 N. 482.66 chs. and the E. bdry of T. 24 N. 483.00 chs. The bearing of this E. bdry will be N. 0°11½' E.

West boundary

The W. bdry is established on a right line run from Standard Cor. of T. 21 N. R. 47 and 48 W. to the old Corp. Secs. 13, 18, 19 and 24 the bearing being N. 0°40' E. from this Cor. a right line is run to the claimed old Corp. T. 21 and 22 N. R. 47 and 48 W. with a bearing of N. 0°3' E. the measurement of the W. bdry of T. 21 N. is made equal to the E. bdry plus the northing of the 5th Standard Parallel through this range or 2.66 chs. making its length 482.65 + 2.66 = 485.31 chs. The alignment of the W. bdry of T. 22 and 23 N. is determined by the location of the old Cor. of T. 21 and 22 N. the claimed original ¼ Sec. Cor. on W. bdry of Secs. 19 & 30 T. 22 N. the claimed original Cors. of Secs. 13, 18, 19 and 24 T. 23 N. and the original N.W. Cor. of T. 23 N. the respective bearings being N. 0°33' E. N. 2°21' E. and N. 0°28' E. The measurement of the W. bdry of T. 22 N. is made equal to the E. bdry or 482.66 chs.

E. bdy T. 21 N. R. 47 W. — True line

From the Standard Cor. of T. 21 N. R. 46 and 47 W. run N. 0°11½' E. bet Secs. 31 and 36.

Over broken ground on N. face hills.

2.00	Descend N.E. face.
21.70	Descend N.E. slope hills.
36.92	Wire fence bears N.W. and S.E.
39.69	Original ¼ Sec. Cor. W. 46 Chs. dist. which Cor. I obliterate
41.00	Deposit marked limestone 12 ins. in the ground for ¼ Sec. Cor. dig pits 18 in. x 12 ins. N. and S. of Cor. 4 ft. dist. and raise a mound of earth 3½ ft. base 1½ ft. high over deposit.

Survey of E. bdy T. 21 N. R. 47 W. Continued

Chains

Dig F. pit. drive an Oak stake 2 ft. long 2 ins. sq. 12 ins. in the ground, marked.
¼ S. in W. face.
Thence over valley land
48.75 Trail bears N. 30° W. and S. 30° E.
65.00 Ascend low hills
79.00 W. face low ridge - descend.
80.00 Deposit marked limestone 12 ins. in the ground for Cor. of Secs. 25, 30, 31 and 36. dig pits 18 in. x 18 in. in each Sec. 4 ft dist and raise a mound of earth 4 ft base 2 ft. high over deposit
Dig S.E. pit. drive an Oak stake 2 ft long 2 ins. sq. 12 ins. in ground, marked
T. 21 N. T. 30 in N. E.
R. 46 W. T. 31 in S. E.
T. 36 in S. W. and
R. 47 W. S. 25 in N. W. faces with 1 notch on S. and 5 notches on N. edge.

Land, rolling and broken
Soil sandy 3rd and 4th rate
Vegetation, sand grass.

N. 0°11½' E. bet Secs. 25 and 30.
Ascend over broken ground.
34.90 Top of ascent on E. face sand bluffs.
36.00 Descend N. E. slope.
38.71 Original ¼ Sec. Cor. on line which Cor. I obliterate
40.00 Deposit marked limestone 12 ins. in the ground for ¼ Sec. Cor. dig pits 18 in. x 12 ins. N. and S. of Cor. 4 ft dist and raise a mound of earth 3½ ft. base 1½ ft. high over deposit.
Dig S. pit. drive an Oak stake 2 ft. long 2 ins. sq. 12 ins. in the ground marked.
¼ S. in W. face
41.50 Trail bears N. W. and S. E. in depression
54.70 Descend low hills
74.67 Wire fence bears E. and W.
74.71 The old Cor. of Secs. 19, 24, 25 and 30 which I obliterate
80.00 Set an Oak Post 3 ft. long 4 ins. sq. with number

Survey E. bdry T. 21 N. R. 47 W. Continued

Chains

Limestone 24 ins. in the ground for Cor. of Secs. 19, 24, 25 and 30, marked.
T. 21 N. S. 19 on N. E.
R. 46 W. S. 30 on S. E.
S. 25 on S. W. and
R. 47 W. S. 24 on N. W. faces with 2 notches on S. and 4 notches on N. edges. dig pits 18 x 18 x 12 ins. in each Sec. 5½ ft. dist and raise a mound of earth 4 ft. base 2 ft. high W. of Cor.

Land, rolling and broken
Soil sandy 2nd and 4th rate
Vegetation, sand grass.

N. 0°11½' E. bet. Secs. 19 and 24
Over rolling ground.
2.25 Trail bears E. and W.
7.00 Ascend S. slope low hills.
10.60 Top on E. face low ridge, thence over low hills.
40.00 Deposit marked limestone 12 ins. in the ground for ¼ Sec. Cor. dig pits 18 x 18 x 12 ins. N. and S. of Cor. 4 ft. dist and raise a mound of earth 3½ ft. base 1½ ft. high over deposit.
In S. pit drive an Oak stake 2 ft. long 2 ins. sq. 12 ins. in the ground, marked.
¼ S. on W. face.
46.69 Wire fence bears N. W. and S. E.
49.00 Ravine bears N. W. and S. E. ascend.
57.00 Top of ascent thence over rolling ground.
69.00 Descend N. E. slope gradually.
78.24 The old Cor. of Secs. 13, 18, 19 and 24 a Ck. W. ~~which~~ Cor. I obliterate
80.00 Deposit marked limestone 12 ins. in the ground for Cor. of Secs. 13, 18, 19 and 24. dig pits 18 x 18 x 12 ins. in each Sec. 4 ft. dist and raise a mound of earth ~~4~~ ft. base 2 ft. high over deposit.
In S. E. pit drive an Oak stake 2 ft. long 2 ins. sq. 12 ins. in the ground, marked
T. 21 N. S. 18 on N. E.
R. 46 W. S. 19 on S. E.

Survey of E. bdry T. 21 N. R. 47 W. Continued

Chains

S. 24 on S. W. and
R. 47 W. S. 13 on N. W. face with 3 notches on N. and S. edges.

Land, rolling and broken
Soil sandy 2nd and 3rd rate
Vegetation sand grass.
November 27 - 1900

N. 0°11½' E. bet. Sec. 13 and 18.
Descend N. E. slope gradually -
[illegible].00 Bottom descent in ravine - ascend gentle S. W. slope.
29.00 Top of ascent 30 ft. on W. face low hills.
40.00 Deposit marked limestone 12 ins. in ground for ¼ Sec. Cor. dig pits 18 x 18 x 12 ins. N. and S. of Cor. 4 ft. dist and raise a mound of earth 3½ ft. base 1½ ft. high over deposit.
In S. pit drive an Oak stake 2 ft. long 2 ins. sq. 12 ins. in the ground marked
¼ S. on W. face.
57.00 Descend gently.
52.24 Wire fence bears E. and W.
57.50 Bottom descent, thence over level meadow land.
80.00 Set an Oak Post 3 ft. long 4 ins. sq. with a marked limestone 24 ins. in the ground for Cor. of Secs. 7, 12, 13, and 18. marked.
T. 21 N. S. 7 on N. E.
R. 46 W. S. 8 on S. E.
S. 13 on S. W. and
R. 47 W. S. 12 on N. W. faces with 2 notches on S. and 2 notches on N. edges. dig pits 18 x 18 x 12 ins. in each Sec. 5½ ft. dist. and raise a mound of earth 4 ft. base 2 ft. high W. of Cor.

Land, level and rolling
Soil sandy 2nd and 3rd rate
Vegetation sand & meadow grass

N. 0°11½' E. bet. Secs. 7 and 12.
Over valley land.

Survey of E. bdy. of T. 21 N. R. 47 W. Continued.

Chains

6.60 Trail bears E and W.
19.00 Ascend gently over low hills.
24.00 Top of ascent 30 ft. in W face low hills.
27.00 Enter rolling ground.
34.18 Wire fence, bears N. W and S. E.
40.00 Deposit marked limestone 12 ins. in the ground for 1/4 Sec. Cor. dig pits 18 x 18 x 12 ins. N. and S. of Cor. 4 ft. dist and raise a mound of earth 3 x 2 ft. base 1½ ft. high over deposit.
In S pit, drive an Oak stake 2 ft. long 2 ins. sq. 12 ins. in the ground, marked
1/4 S. on W. face.
Ascend S. W. slope over ridges and broken ground.
47.00 Ridge
73.40 Ravine or depression, ascend.
80.00 Deposit a marked limestone 12 ins. in the ground for Cor. of Secs. 6, 7 and 12. dig pits 18 x 18 x 12 ins. in each Sec. 4 ft. dist and raise a mound of earth 4 ft. base 2 ft. high over deposit.
In S.E. pit, drive an Oak stake 2 ft. long 2 ins. sq. 12 ins. in the ground, marked.
T. 21 N. S. 6 on N.E.
R. 46 W. S. 7 on S.E.
S. 12 on S. W. and
R 47 W S. 1 on N.W face. with 5 notches on S and 1 notch on N. edge.

Land level and broken
Soil sandy 2nd and 4th rate
Vegetation meadow and sand grass.

N. 0° 11½' E. bet. Secs. 1 and 6.
Ascend S. slope ridge.
1.60 Top of ascent 30 ft. above Cor. and 150 ft. above valley.
Descend over broken ground.
23.00 Bottom descent. Enter alkali valley land.
40.00 Deposit marked limestone 12 ins. in the ground for 1/4 Sec. Cor. dig pits 18 x 18 x 12 ins. N. and S. of Cor. 4 ft dist and raise a mound of earth 3½ ft base 2 ft. high over deposit

Survey of E. bdy. of T. 21 N. R. 47 W. Concluded

Chains

In S pit drive an Oak stake 2 ft. long 2 ins. sq. 12 ins. in the ground, marked.
1/4 S. on W. face
73.00 Ascend gently.
77.90 Low ridge in S. face hills descend.
82.62 Set an Oak stake 2 ft. long 4 ins. sq. with a marked limestone 24 ins. in the ground for Cor. of T. 21 and T. 22 N. R. 46 and 47 W. marked.
T. 22 N. S. 31 on S.E.
R. 46 W. S. 6 on S.E.
T. 21 N. S. 1 on S W. and.
R. 47 W. S 36 on S.W. faces with 6 notches on each edge. dig pits 24 x 24 x 12 ins. in each line E and W. 4 ft. dist and N. of first 8 ft. dist and raise a mound of earth 3 ft. base 2 ft. high S. of Cor.

Land rolling
Soil sandy and alkali 3rd 2nd and 4th rate
Vegetation, sand and alkali grass.
November 28 1900.

Between Tps 21 and 22 N. R. 47 W — Random line
I turn a angle of 90° 11½' from the range line from N. to W. and run.
W. on a tangent through Sec. 1.
40.00 Set temp 1/4 Sec. Cor.
80.00 N. 1 ch. from tang. Set temp Cor. of Secs. 1, 2, 35 and 36.

S 89° 59' W. on tangent through Sec. 2
40.00 N. 2½ chs. from tang Set temp 1/4 Sec. Cor.
80.00 N. 3½ chs from tang. set temp Cor. of Secs. 2, 3, 34 + 35.

S. 89° 58' W. on tang. through Sec. 3.
40.00 N. 6 chs. from tang. Set temp. Cor. of Secs. 3, 4, 33 + 34.
80.00 N. 8 ch. from tang. set temp. Cor. of Secs. 3, 4, 33 and 34

S. 89° 58' W. on tang. through Sec. 4
40.00 N. 11 chs. from tang. Set temp 1/4 Sec Cor.

Survey of N. bdy T. 21 N. R. 47 W.

Chains

80.00 N. 14 lks. from targ. Set temp. Cor. of Secs. 4, 5, 32 and 33.

S. 89° 57' W. on a targ. through Sec. 5.
40.00 N. 18 lks. from targ. Set temp. 1/4 Cor.
80.00 N. 23 lks. from targ. Set temp. Cor. of Secs. 5, 6, 31 and 32.

S. 89° 56' W. on a tangent through Sec. 6.
40.00 N. 27 lks. from targ. Set temp. 1/4 Sec. Cor.
79.40 N. 35 lks. from targ. Set temp. Cor. of T. 21 and 22 N., R. 47 and 48 W., which falls N. 0 lks. dist. from the Cor. of T. 21 and 22 N., R. 47 and 48 W. the true bearing of the Township line will therefore be N. 89° 59' E. and the temporary Corners will be set S. by 47 links, decreasing 2 1/2 lks. per mile.

November 28, 1900.

W. bdy T. 21 N. R. 47 W. — True Line

From the Standard Cor. of T. 21 & 22 N., R. 47 and 48 W.
Run N. 0° 42' E. Secs. 31 and 36.
Over broken ground.
15.00 Enter S. slope hills.
25.00 Top of ascent 75 ft. thence over broken ground & ridges.
36.00 Ravine bears N. W. and S. E. a mound.
40.00 Deposit marked limestone 12 ins. in the ground for 1/4 Sec. Cor. dig pits 18 & 18 & 12 ins. N. and S. of Cor. 4 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high over deposit.
In S. pit drive an Oak stake 2 ft. long 2 ins. sq. 12 ins. in the ground, marked.
1/4 S. on W. face.
44.00 Ridge thence over broken ground.
57.00 Descend W. E. slope.
77.00 Old Cor. of Secs. 25, 30, 31 and 36, W. 119 lks. dist. which Cor. I obliterate.
80.00 Deposit marked limestone 12 ins. in the ground for Cor. of Secs. 25, 30, 31 and 36, dig pits 18 & 18 & 12 ins. in each Sec. 4 ft. dist. and raise a mound of earth 4 ft. base 2 ft. high over deposit.

Survey of W. bdy of T. 22 N. R. 47 W. Continued

Chains

In W. E. pit drive an Oak stake 2 ft. long 2 ins. sq. 12 ins. in the ground marked.
T. 21 N. 0.30 in N. E.
R. 47 W. S. 31 in S. E.
S. 36 in S. W. and
R. 48 W. S. 25 in N. W. face with 1 notch in S. and 2 notches in N. edge.

Land broken
Soil sandy 3rd and 4th rate
Vegetation, sand grass.

N. 0° 40' E. bet. Secs. 25 and 30.
Descend N. E. slope
13.00 Bottom descent, thence over rolling ground.
40.00 Deposit marked limestone 2 ins. in the ground for 1/4 Sec. Cor. dig pits 18 & 18 & 2 ins. N. and S. of Cor. 4 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high over deposit.
In S. pit drive an Oak stake 2 ft. long 2 ins. sq. 12 ins. in the ground marked
1/4 S. on W. face.
46.00 Descend S. slope low hill.
55.80 Wire fence bears N. W. and S. E.
78.00 Top of ascent, on ridge — descend.
80.00 Set an Oak post 3 ft. long 4 ins. sq. with a marked limestone 24 ins. in the ground for Cor. of Secs. 19, 24, 25 and 30, marked.
T. 21 N. S. 19 in N. E.
R. 47 W. S. 30 in S. E.
S. 20 in S. W. and
R. 48 W. S. 24 on N. W. face with 2 notches on S. and 4 notches on N. edge — dig pits 18 & 18 & 12 ins. in each Sec. 3 1/2 ft. dist. and raise a mound of earth 4 ft. base 2 1/2 ft. high W. of Cor.

Land rolling and broken
Soil sandy 3rd and 4th rate
Vegetation, sand grass

Survey of W. bdry of T. 22 N. R. 47 W. Continued

Chains

N. 0° 40' E. bet. Secs. 19 and 24.
Over very broken ground and ridges.
40.00 On S face hills. Deposit marked limestone 12 ins. in the ground for 1/4 Sec. Cor. dig pits 18x18x12 ins. N. and S. of Cor. 4 ft. dist and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high, over deposit.
In S pit, drive an Oak stake 2 ft. long 2 ins. sq. 12 ins. in the ground, marked.
1/4 S. on W. face
63.00 Ridge bears N. W. and S. E.
77.00 Descend N. slope ridge.
80.00 Deposit marked limestone 12 ins. in the ground for Cor. of Secs. 13, 18, 19 and 24. dig pits 18x18x12 ins. in each Sec. 4 ft. dist and raise a mound of earth 4 ft. base 2 ft. high over deposit.
In S.E. pit, drive an Oak stake 2 ft. long 2 ins. sq. 12 ins. in the ground, marked.
T. 21 N. R. 18 W. N.E.
R. 47 W. R. 19 on S.E.
S. 24 on S.W. and.
R. 48 W. S. 13 on N.W. faces with 3 notches on N. and S. edges.

Land broken
Soil sandy & 4th rate
Vegetation, sand grass.

N. 0° 40' E. bet. Secs. 13 and 18.
0.48 The original Cor. of Secs. 13, 18, 19 and 24, cedar post in mound, marked.
18 on N.E.
19 on S.E.
24 on S.W. and
13 on N.W. faces with 3 notches on N. and S. edges.
I remove markings from post. Thence I run N. 0° 3' E. over rolling ground.
3.50 I descend N. slope.
9.00 Bottom descent enter rolling valley.
20.25 Here land bears N. 65° W. and S. 65° E.
27.75 Trail bears E. and W.

Survey of W. bdry of T. 21 N. R. 47 W. Continued

Chains

40.00 Deposit marked limestone 12 ins. in the ground for 1/4 Sec. Cor. dig pits 18x18x12 ins. N. and S. of Cor. 4 ft. dist and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high over deposit.
In S pit drive an Oak stake 2 ft. long 2 ins. sq. 12 ins. in the ground, marked.
1/4 S. on W. face.
64.50 Low ridge - descend gently.
80.00 Set an Oak post 3 ft. long 4 ins. sq. with scribed limestone 24 ins. in ground for Cor. of Secs. 7, 12, 13 and 18, marked
T. 21 N. R. 7 W. N.E.
R. 47 W. S. 18 on S.E.
S. 13 on S.W. and
R. 48 W. S. 12 on N.W. faces, with 4 notches on S. and 2 notches on N. edges. dig pits 18x18x12 ins. in each Sec. 5 1/2 ft. dist and raise a mound of earth 4 ft. base 2 ft. high W. of Cor.

Land, level and rolling
Soil sandy 2nd & 3rd rate
Vegetation, sand grass.

N. 0° 3' E. bet. Secs. 7 and 12
Over rolling valley land.
30.00 Ascend low hills gently.
40.00 Deposit marked limestone 12 ins. in the ground for 1/4 Sec. Cor. dig pits 18x18x12 ins. N. and S. of Cor. 4 ft. dist and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high over deposit.
In S. pit drive an Oak stake 2 ft. long 2 ins. sq. 12 ins. in the ground, marked.
1/4 S. on W. face
47.00 Top of ascent on low hills. descend gently.
67.00 Bottom descent. Thence over rolling valley.
80.00 Deposit marked limestone 12 ins. in the ground for Cor. of Secs. 1, 6, 7 and 12. dig pits 18x18x12 ins. in each Sec. 4 ft. dist and.

Survey of W. bdry of T. 21 N. R. 47 W. Concluded.

Chains

raise a mound of earth 4 ft. base 2 ft. high over deposit.
In S.E. pit, drive an Oak stake 2 ft. long 2 ins. sq. 12 ins. in the ground marked.
T. 21 N. S. 6. on N.E.
R. 47 W. S. 7. on S.E.
S. 12 on S.W. and
R. 48 W. S. 1 on N.W. faces. with 5 notches on S and 1 notch on N. edges—

Land rolling
Soil sandy 2nd and 3rd rate.
Vegetation sand grass.

N. 0° 3' E. bet Secs. 1 and 6.
Over rolling ground.
1.82 Wire fence runs E. from point 2 rds. W.
17.60 Trail bears E. and W. at N.E. Cor. of fence.
22.00 Enter low foot hills.
32.00 Ascend S. slope hills, over broken ground.
40.00 Deposit marked limestone 12 ins. in the ground for 1/4 Sec. Cor. dig pits 18x18x12 ins. N. and S. of Cor. 4 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high over deposit.
In S. pit drive an Oak stake 2 ft. long 2 ins. sq. 12 ins. in ground marked.
1/4 S. on W. face.
44.50 Top of ascent on E. face bluffs.
48.70 Descend N.E. slope over broken ground.
73.00 Bottom descent over valley land.
77.00 Low ridge of fine limestones
80.00 Enter meadow
85.31 Set an Oak Post 3 ft. long 4 ins. sq with marked limestone 24 ins. in the ground for Cor. of T. 21 & 22 N. R. 47 and 48 W. marked
T. 22 N. S. 31 on N.E.
R. 47 W. S. 6 on S.E.
T. 21 N. S. 1 on S.W. and
R. 48 W. S. 36 on N.W. face with 6 notches on each edge. dig pits 24x24x12 ins. on each line N.E. and W.

Survey of N bdry of T. 21 N. R. 47 W.—

Chains

4 ft. and S of post 8 ft. dist. and raise a mound of earth 5 ft. base 2 1/2 ft. high ~~S. of Cor.~~

Land level and broken
Soil sandy 2nd and 3rd rate
Vegetation meadow & sand grass.

Between Tps 21 & 22 N. R. 47 W. — True Line.
From the Cor. of T. 21 and 22 N. R. 47 and 48 W. I run N. 85° 59' E. bet. Secs. 6 and 31.
Over valley land.
30.00 Ascend W. slope low ridge.
37.00 Top of ascent 50 ft. on N. face, descend gently—
39.40 Deposit marked limestone 12 ins. in the ground for 1/4 Sec. Cor. dig pits 18x18x12 ins. E. and W. of Cor. 4 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high over deposit.
In E. pit, drive an Oak stake 2 ft. long 2 ins. sq. 12 ins. in the ground, marked
1/4 S. on N. face.
49.73 Wire fence bears N. and S. Enter valley land.
75.00 Ascend gently S.W. slope.
79.40 Deposit marked limestone 12 ins. in the ground for Cor. of Secs. 5, 6, 31 and 32. dig pits 18x12 ins. in each Sec. 4 ft. dist. and raise a mound of earth 4 ft. base 2 ft. high over deposit.
In S.E. pit drive an Oak stake 2 ft. long 2 ins. sq. 12 ins. in ground, marked
T. 22 N. S. 32 on N.E.
R. 47 W. S. 5 on S.E.
T. 21 N. S. 6 on S.W. and
S. 31 on N.W. face with 1 notch on W. and 5 notches on E. edge.

Land level and rolling
Soil sandy 2nd and 3rd rate
Vegetation meadow & sand grass

N. 89° 59' E. bet. Secs. 5 and 32.
Ascend gently.
1.00 Top of ascent 10 ft. above Cor. descend gently.

Chains	
6.00	Bottom descent in rolling valley.
26.00	Ascend E. slope low hills.
32.00	Top. descend gently.
33.62	E. end of Charley Cross house w/ "dug out" center of house in line.
40.00	Deposit marked limestone 12 ins. in the ground for 1/4 Sec. Cor. dig pits 18x18x12 ins. E. and W. of Cor. 4 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high over deposit.
	In E. pit, drive an Oak stake 2 ft. long 2 ins. sq. 12 ins. in ground. marked.
	1/4 S. on N. face
	Enter rolling valley land.
45.00	Rail bears N. E. and S. W.
81.00	Set an Oak Post 3 ft. long 4 ins. sq. with a marked limestone 24 ins. in the ground for Cor. of Secs. 4, 5, 32 and 33. marked.
	T. 22 N. R. 3 W on S. E.
	R. 47 W. S. 4 on S. E.
	T. 21 N. R. 5 on S. W. and
	S. 32 in N. W. faces with 2 notches on W. and 4 notches on E. edge. dig pits 18x18x12 ins. in each Sec. 5 1/2 ft. dist. and raise a mound of earth 4 ft. base 2 ft. high W. of Cor.

Land, rolling
Soil sandy 2nd and 3rd rate
Vegetation. sand grass.

N. 89° 57' E. bet. Secs. 4 and 33.
Over rolling ground.

24.50	Rail bears N. and S. Ascend gently.
31.00	Top of ascent in N. face low hills.
40.00	Deposit marked limestone 12 ins. in the ground for 1/4 Sec. Cor. dig pits 18x18x12 ins. E. and W. of Cor. 4 ft. dist and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high over deposit
	In E. pit, drive an Oak stake 2 ft. long 2 ins. sq. 12 ins. in the ground, marked
	1/4 S. on N. face

Chains	
48.00	Depression, ascend W. face hills.
68.00	Ascend over broken ground.
72.50	Top of ascent in sand bluff - descend.
80.00	Deposit marked limestone 12 ins. in the ground for Cor. of Secs. 3, 4, 33 and 34. dig pits 18x18x12 ins. in each Sec. 4 ft. dist. and raise a mound of earth 4 ft. base. 2 ft. high over deposit.
	In S.E. pit, drive an Oak stake 2 ft. long 2 ins. sq. 12 ins. in the ground, marked.
	T. 22 N. S. 34 on N. E.
	R. 47 W. S. 3 on S. E.
	T. 21 N. S. 4 on S. W. and
	S. 33 on N. W. faces, with 3 notches on E. and W. edges.

Land, rolling and broken
Soil sandy 2nd and 4th rate
Vegetation. sand - grass.

N. 89° 57' E. bet. Secs. 3 and 34.
Over very broken ground on S. face hills.

7.00	S. face sand bluff. descend
20.00	Bottom descent.
21.00	Low sand bluff - descend.
33.00	Bottom descent. thence over low hills.
40.00	Deposit marked limestone 12 ins. in the ground for 1/4 Sec. Cor. dig pits 18x18x12 ins. E. and W. of Cor. 4 ft. dist and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high over deposit.
	In E. pit, drive an Oak stake 2 ft. long 2 ins. sq. 12 ins. in the ground, marked.
	1/4 S. on N. face
50.00	Descend N.E. face low hills.
60.00	Enter rolling valley land.
72.95	Rail bears N. and S.
77.12	Wire fence, bears N. 20° W. and S. 20° E.
80.00	Set an Oak Post 3 ft. long 4 ins. sq. with marked limestone 24 ins. in the ground for Cor. of Secs 2, 3, 34 and 35. marked
	T. 22 N. S. 35 on N. E.

Survey of N. bdry T. 21 N. R. 47 W. Continued.

Chains

R. 47 W. S. 2 on S. E.
R. 21 N. S. 3 on S. W. and
S. 34 on N. W. faces. with 4 notches ~~on~~ W. and 2 notches on E. edge. dig pits 18x18x12 ins. in each Sec. 5½ ft. dist. and raise a mound of earth 4 ft. base 2 ft. high W. of Cor.

Land. level, rolling and broken
Soil sandy and alkali 3rd and 4th rate
Vegetation Sand and alkali grass.

N. 89° 59' E. bet. Secs. 2 and 35
Over valley land.
6.00 N. edge alkali basin
8.00 N. E. Cor. of Alkali basin - ascend.
16.50 N. face low sand ridge - descend.
21.00 Bottom descent over rolling ground.
28.00 Point 1 ch. S. of small alkali basin.
37.00 Ascend N. W. slope ridge.
40.00 Deposit marked limestone 12 ins. in the ground for ¼ Sec. Cor. dig pits 18x18x12 ins. E. and W. of Cor. 4 ft. dist. and raise a mound of earth 3½ ft. base 1½ ft. high over deposit.
In E. pit, drive an Oak stake 2 ft. long 2 ins. sq 12 ins. in the ground, marked.
¼ S. on N face.
Ascend over ridges and ravines.
57.00 Wire fence bears N. W. and S. E.
61.00 Top of ascent. thence over rolling hills.
75.00 Descend N E slope.
78.00 Bottom descent, thence over rolling ground.
80.00 Deposit marked limestone 12 ins. in the ground for Cor. of Secs. 1, 2, 35 and 36. dig pits 18x18x12 ins. in each Sec. 4 ft. base 2 ft. high over deposit.
In S. E. pit, drive an Oak stake 2 ft. long 2 ins. sq. 12 ins. in ground, marked.
T. 22 N. S. 36 on N. E.
R. 47 W. S. 1 on S. E.

Survey of N. bdry of T. 21 N. R. 47 W. Concluded.

Chains

T. 21 N. S. 2 on N. W. and.
S. 35 on N. W. faces with 5 notches on W. and 1 notch on E. edge.

Land, rolling and broken
Soil sandy and alkali 3rd and 4th rate
Vegetation. sand and alkali grass

N. 89° 59' E. bet. Secs. 1 and 36.
Over rolling ground, ascending gently.
4.00 Top of slight ascent.
13.00 Descend gently.
17.00 Bottom descent, enter rolling valley.
24.00 S. edge of alkali lake.
28.00 Leave alkali lake.
40.00 Deposit marked limestone 12 ins. in ground for ¼ Sec. Cor. dig pits 18x18x12 ins. E. and W. of Cor. 4 ft. dist. and raise a mound of earth 3½ ft. base 2 ft. high over deposit.
In E. pit, drive an Oak stake 2 ft. long 2 ins. sq. 12 ins. in the ground, marked.
¼ S. on N. face.
Ascend W. slope low hills.
43.00 Top of ascent 40 ft. thence over low hills.
74.00 Ridge bears N. W. and S. E. descend gently.
80.00 The Cor. of T. 21 and 22 N. R. 46 and 47 W.

Land, rolling
Soil sandy and alkali 3rd rate
Vegetation sand and alkali grass.
Nov. 29 1900.

Chains

E. bdry T. 22 N R 47 W (True line)

From the Cor. of T. 21 and 22 N. R. 46 and 47 W. Thence N. 0° 11½ E. bet Secs. 3 and 34.

Ascend along S.E. slope broken hills.

12.00 Top of ascent 50 ft.

32.00 Descend N.E. face.

40.00 Deposit marked limestone 12 ins. in the ground for ¼ Sec. Cor. dig pits 18x18x12 ins. N. and S. of Cor. 4 ft. dist. and raise a mound of earth 3½ ft base 1½ ft. high over deposit.

In S. pit, drive an Oak stake 2 ft. long 2 ins. sq. 12 ins. in the ground, marked.

¼ S. on W. face.

Ascend gently.

3.00 Top. 20 ft. descend gradual N. slope.

63.90 Wire fence, bears N. W. and S.E.

74.00 Enter meadow land.

80.00 Deposit marked limestone 12 ins. 12 ins. in the ground for Cor. of Secs. 25, 30, 31 and 36. dig pits 18x18x12 ins. in each Sec. 4 ft. dist. and raise a mound of earth 4 ft. base 2 ft. high over deposit.

In S.E. pit, drive an Oak stake 2 ft. long 2 ins. sq. 12 ins. in ground, marked.

T. 22 N. S. 30 on N.E.

R. 46 W. S. 31 on S.E.

S. 36 on S.W. and

R. 47 W. S. 25 on N.W. face with 1 notch on S. and 5 notches on N. edge.

Land, level and broken
Soil sandy 2nd and 3rd rate
Vegetation, meadow and sand grass

N. 0° 11½ E. bet. Secs. 25 and 30.

Over meadow land.

33.30 Ascend gently S.W. slope.

40.00 Deposit marked limestone 12 ins. in the ground for ¼ Sec. Cor. dig pits 18x18x12 ins. N. and S. of Cor. 4 ft. dist. and raise a mound of earth 3½ ft. base ½ ft. high over deposit

In S. pit, drive an Oak stake 2 ft. long 2 ins. sq.

Chains

12 ins. in the ground, marked ¼ S. on W. face

33.00 Top of ascent on W. face low hills.

60.25 Wire fence bears N.W. and S.E.

76.00 W. face ridge - descend

80.00 Set an Oak Post 3 ft. long 4 ins sq. with a marked limestone 24 ins. in the ground for Cor. of Secs. 19, 24, 25 and 30 on point of ridge. marked.

T. 22 N. S. 19 on N.E.

R. 46 W. S. 30 on S.E.

S. 25 on S.W. and.

R. 47 W. S. 24 on N.W. face, with 2 notches on S. and 4 notches on N. edge. - dig pits 18x18x12 ins. in each Sec. 5½ ft. dist. and raise a mound of earth 4 ft. base 2 ft. high. W. of Cor.

Land, level and rolling.
Soil sandy 2nd and 3rd rate
Vegetation meadow and sand grass

N. 0° 11½ E. bet Secs. 19 and 24

Descend N.W. face hills gently.

10.00 Bottom descent.

22.00 Ascend gently S.W. slope.

28.30 Top of ascent on W. face ridge.

40.00 Deposit marked limestone 12 ins. in the ground for ¼ Sec. Cor. dig pits 18x18x12 ins. N. and S. of Cor. 4 ft. dist and raise a mound of earth 3½ ft. base 1½ ft. high. over deposit.

In S. pit, drive an Oak stake 2 ft. long 2 ins. sq. 12 ins. in the ground, marked

¼ S. on W. face.

42.00 Descend N.W. slope gently.

48.00 Trail bears N. W. and S.E. thence over rolling ground.

57.00 Ascend low hills.

72.00 Top of ascent. 50 ft. descend N. E. slope.

80.00 In depression at bottom descent, deposit a marked limestone 12 ins. in the ground for Cor. of Secs. 13, 18, 19 and 24. dig pits 18x18x12 ins. in each Sec. 4 ft. dist. and raise a mound of

Survey of E. bdy. T. 22 N. R. 47 W. Continued

Chains	
	earth - 4 ft. base 2 ft. high over deposit.
	In S.E. pit, drive an Oak stake 2 ft. long 2 ins. sq. 12 ins. in the ground, marked
	T. 22 N. S. 18 on W.
	R. 47 W. S. 19 on S.E.
	S. 24 on S.W. and
	R. 47 W. S. 13 on N.W. faces with 3 notches on N. and E. edges.
	Land rolling.
	Soil sandy 3rd rate
	Vegetation. Sand grass
	Dec. 15. 1910 —

	N. 0° 11½' E. bet. Secs. 13 and 18.
	Ascend gentle - S.W. slope.
9.00	Top of ascent thence over low hills.
15.00	Sand bluffs.
19.00	Descend from ridge.
40.00	In E. face bluff deposit marked limestone 12 ins. in the ground for 1/4 Sec. Cor. dig pits 18 x 18 x 12 ins. N. and S. of Cor. 4 ft. dist. and raise a mound of earth - 3½ ft. base ½ ft. high over deposit.
	In S. pit, drive an Oak stake 2 ft. long 2 ins. sq. 2 ins. in ground, marked.
	1/4 S. on W. face.
	Descend N.E. slope.
45.44	Wire fence, bears N. 80° W. and S. 80° E.
50.50	Bottom descend thence over low foot hills.
65.00	Enter rolling valley land.
80.00	Deposit marked limestone 12 ins. in ground for Cor. of Secs. 7, 12, 13 and 18. dig pits 18 x 18 x 12 ins. in each Sec. 4 ft. dist. and raise a mound of earth 4 ft. base 2 ft. high over deposit.
	In S.E. pit. drive an Oak. stake - 2 ft. long 2 ins. sq. 12 ins. in ground, marked.
	T. 22 N. S. 7 on N.E.
	R. 46 W. S. 18 on S.E.
	S. 13 on S.W. and
	R. 47 W. S. 12 on N.W. faces with - 4 notches on S. and

Survey of E. bdy. of T. 22 N. R. 47 W. Continued

Chains	
	2 notches on N. edge.
	Land, rolling and broken
	Soil sandy 2nd and 3rd rate
	Vegetation, sand grass.

	N. 0° 11½' E. bet. Secs. 7 and 12.
	Over rolling valley land.
40.00	Deposit marked limestone 12 ins. in the ground for 1/4 Sec. Cor. dig pits 18 x 18 x 12 ins. N. and S. of Cor. 4 ft. dist. and raise a mound of earth - 3½ ft. base ½ ft. high over deposit.
	In S. pit. drive an Oak stake - 2 ft. long 2 ins. sq. 12 ins. in the ground, marked.
	1/4 S. on W. face.
42.00	N.W. Cor. of Alkali basin
60.80	Wire fence bears N.W. and S.E.
	As 80 chs. will falls in bed of alkali basin at -
76.00	Deposit marked limestone 12 ins. in the ground for witness Cor. to Cor. of Secs. 6, 7 and 12. dig pits 18 x 18 x 12 ins. N. W. S. W. N.E. and S.E. of Cor. 4 ft. dist. 12 and raise a mound of earth - 4 ft. base 2 ft. high over deposit
	In S.E. pit, drive an Oak stake 2 ft. long 2 ins. sq. 12 ins. in the ground, marked
	A.C. T. 22 N. S. 6 on N.E.
	R. 46 W. S. 7 on S.E.
	S. 12 on S.W. and.
	R. 47 W. S. 1 on N.W. face with 3 notches on S. and 1 notch on N. edge.
77.60	S. edge alkali basin.
80.00	Point for true Cor. falls in basin
	Land level
	Soil sandy and alkali 3rd rate
	Vegetation sand & alkali grass.

	N. 0° 11½' E. bet. Secs. 1 and 6.
	In alkali basin.
1.40	Leave basin over valley land.

Survey of S. bdry of T. 22 N. R. 47 W. Concluded.

Chains	
35.00	Trail bears N. W. and S. E.
40.00	Deposit marked limestone 12 ins. in ground for 1/4 Sec. Cor. dig pits 18 x 18 x 12 ins. N. and S. of Cor. 4 ft. dist. and raise a mound of earth 3½ ft. base 1½ ft. high over deposit.
	In S. pit drive an Oak stake 2 ft. long 2 ins. sq. 12 ins. in ground, marked.
	1/4 S. on W. face.
2400	Ascend S. W. slope hill
76.00	Top of ascent 8 ft. on W. face hills. descend.
78.00	Depression, ascend.
82.66	Set an Oak Post 3 ft. long 4 ins. sq. with a marked limestone 24 ins. in the ground for Cor. of T. 22 and 23 N., R. 46 and 47 W. Marked.
	N. 23 N. S. 31 on N. E.
	R. 46 W. S. 6 on S. E.
	T. 22 N. S. 1 on S. W. and
	R. 47 W. S. 36 on N. W. face. with 6 notches on each edge dig pits 24 x 24 x 12 ins. on each line N. E. and S. 4 ft. dist. and raise a mound of earth 3 ft. base 1½ ft. high S. of Cor.

Land level and broken
Soil sandy 2nd & alkali 3rd & 4th rate
Vegetation sand & alkali grass.
December 18. 1900

Survey of W. bdry T. 22 N. R. 47 W. —

Chains	W. bdry T. 22 N. R. 47 W. — True line
	From the Cor. of T. 21 and 22 N., R. 47 and 48 W. run
	N. 0° 8' E. bet. Secs. 31 and 36.
	Over level meadow
4.49	Stone. the claimed original Cor. heretofore described from this old Cor. I run
	N. 0° 33' E.
5.50	Ascend low hills.
8.70	Top of ascent, on low ridge - thence over broken ground.
40.00	Deposit marked limestone 12 ins. in the ground for 1/4 Sec. Cor. dig pits 18 x 18 x 12 ins. N. and S. of Cor. 4 ft. dist. and raise a mound of earth 3½ ft. base 1½ ft. high over deposit.
	In S. pit drive an Oak stake 2 ft. long 2 ins. sq. 12 ins. in the ground, marked.
	1/4 S. on W. face.
	Ascend S. W. slope ridge.
42.96	Top of ascent on ridge. E. and W. descend.
52.00	Bottom descent in ravine or foam. runs N. and S.
	Ascend gently -
80.00	Deposit marked limestone 12 ins. in ground for Cor. of Secs. 25, 30, 31 and 36. dig pits 18 x 18 x 12 ins. each Sec. 4 ft. dist. and raise a mound of earth 3½ ft. base 2 ft. high over deposit.
	In S. E. pit, drive an Oak stake 2 ft. long 2 ins. sq. 12 ins. in the ground, marked.
	T. 22 N. S. 36 on N. E.
	R. 47 W. S. 31 on S. E.
	S. 36 on S. W. and
	R. 48 W. S. 25 on N. W. face with 1 notch on S. and 5 notches on N. edge.

Land, level and broken
Soil sandy 2nd and 3rd rate
Vegetation, meadow & sand grass

N. 0° 33' E. bet. Secs. 25 and 30 -
Ascend gentle S. E. slope low hill.
12.00 Top of ascent, thence over ridge.
40.00 Deposit marked limestone 12 ins. in ground for 1/4 Sec. Cor. dig pits 18 x 18 x 12 ins. N. and S.

Survey of W. bdry. T. 22 N. R. 47 W. Continued.

Chains	
	of Cor. 4 ft dist and raise a mound of earth 3½ ft. base 1½ ft. high over deposit.
	In S. pit, drive an Oak stake 2 ft. long 2 ins. sq. 12 ins. in the ground, marked.
	¼ S on W. face.
	Descend W. slope low hills.
44.00	Bottom descent in E end of depression.
57.2	Wire fence bears E. and W. ascend gently between hills.
80.00	Deposit marked limestone 12 ins. in the ground for Cor. of Secs. 19, 24, 25 and 30. dig pits 18x18x12 ins. in each Sec. 4 ft. dist and raise a mound of earth 4 ft. base 2 ft. high over deposit.
	In S.E. pit, drive an Oak stake 2 ft. long 2 ins. sq. 12 ins. in the ground, marked.
	T. 22 N. S. 19 on N.E.
	R. 47 W. S. 30 on S.E.
	S. 25 on S.W. and.
	R. 48 W. S. 24 on N.W. faces with 2 notches on S. and 4 notches on E. edges.
	Land, rolling and broken
	Soil sandy 3rd and 4th rate
	Vegetation, sand grass.

	N. 0° 33' E. bet. Secs. 19 and 24.
	Ascend gently S.E. slope.
3.00	Top of ascent on E. face bluff. descend
8.00	Bottom descent over low hills.
31.00	Descend W. slope low hills.
37.00	Enter valley land.
40.00	Deposit marked limestone 12 ins. in the ground for ¼ Sec. Cor. dig pits 18x18x12 ins. N. and S. of Cor. 4 ft. dist and raise a mound of earth 3½ ft. base 1½ ft. high over deposit.
	In S. pit drive an Oak stake 2 ft. long 2 ins. sq. 12 ins. in the ground, marked
	¼ S. on W. face.
42.65	Wire fence bears N.W. and S.E.
78.45	Trail bears E. and W.

Survey of W. bdry. T. 22 N. R. 47 W. Continued

Chains	
80.00	Set an Oak Post 3 ft long 4 ins. sq. with a marked limestone 24 ins. in the ground for Cor. of Secs. 13, 18, 19 and 24. marked.
	T. 23 N. S. 18 on N.E.
	R. 47 W. S. 19 on S.E.
	S. 24 on S.W. and
	R. 48 W. S. 13 on N.W. faces with 3 notches on N. and S. edges dig pits 18x18x2 ins. in each Sec. 5½ ft. dist. and raise a mound of earth 4 ft. base 2 ft. high W. of Cor.
	Land, level and rolling
	Soil sandy 2nd and 3rd rate
	Vegetation, meadow and sand grass.

	N. 0° 33' E. bet Secs. 3 and 18.
	Over low rolling foot hills
12.00	Ascend S.W. slope
26.00	Top of ascent on ridge bears E. and W. thence over broken ground and ridges.
40.00	Deposit marked limestone 12 ins. in the ground for ¼ Sec. Cor. dig pits 18x18x12 ins. N. and S. of Cor. 4 ft. dist. and raise a mound of earth 3½ ft. base 1½ ft. high over deposit.
	In S. pit, drive an Oak stake 2 ft. long 2 ins. sq. 12 ins. in the ground, marked
	¼ S on W. face.
	Ascend
47.10	Ridge bearing N.W. and S.E.
58.00	S.E. face of ridge. descend.
66.00	Bottom descent in depression, over rolling ground.
80.00	Deposit marked limestone 12 ins. in the ground for Cor. of Secs. 7, 12, 13 and 18. dig pits 18x18x12 ins. in each Sec. 4 ft. dist. and raise a mound of earth 4 ft. base 2 ft. high over deposit.
	In S.E. pit, drive an Oak stake 2 ft. long 2 ins. sq. 12 ins. in the ground, marked.
	T. 22 N. S. 7 on N.E.
	R. 47 W. S. 18 on S.E.
	S. 13 on S.W. and.

Survey of W. bdry T. 22 N. R. 47 W. Continued.

Chains	
	R. 48 W. S. 12 on N. W. face, with 4 notches on S. and 2 notches on N. edges
	Land, rolling and broken
	Soil sandy 3rd rate
	Vegetation, sand grass.
	N. 0° 33' E. bet. Secs. 7 and 12.
	Ascend S. W. face hills.
5.00	Top of ascent 40 ft. descend gently over low hills
40.00	Deposit marked limestone 12 ins. in the ground for 1/4 Sec. Cor. dig pits 18x18x12 ins. N. and S. of Cor. 4 ft. dist. and raise a mound of earth 3½ ft. base 1½ ft. high over deposit.
	In S. pit drive an Oak stake 2 ft. long 2 ins. sq. 12 ins. in the ground, marked.
	1/4 S. on W. face.
44.00	Bottom descent over rolling ground.
56.50	Trail bears N. 80° E. and N. 80° W. ascend low foot hills.
62.00	Top.
72.00	Descend gently.
73.00	Wire fence N. 5° W. and S. 5° E.
77.00	Bottom descent over rolling ground.
85.00	Deposit marked limestone 12 ins. in the ground for Cor. of Secs. 6, 7 and 12. dig pits 18x18x12 ins. in each Sec. 4 ft. dist. and raise a mound of earth 3½ ft. base 2 ft. high over deposit.
	In S. E. pit, drive an Oak stake 2 ft. long 2 ins. sq. 12 ins. in ground, marked.
	T. 22 N. S. 6 on N. E.
	R. 47 W. S. 7 on S. E.
	S. 12 on S. W. and
	R. 48 W. S. 1 on N. W. face with 5 notches on S. and 1 notch on N. edge.
	Land, rolling
	Soil sandy 3rd rate
	Vegetation sand grass

Survey of W. bdry T. 22 N. R. 47 W. Concluded.

Chains	
	N. 0° 33' E. bet. Secs. 1 and 6.
	Over rolling ground.
6.00	Ascend gently.
14.00	Top of ascent 20 ft.
33.35	Trail bears E. and W.
36.00	Ascend over broken ground.
40.00	On E. face low ridge, deposit marked limestone 12 ins. in the ground for 1/4 Sec. Cor. dig pits 18x18x12 ins. N. and S. of Cor. 4 ft. dist. and raise a mound of earth 3½ ft. base ½ ft. high over deposit.
	In S. pit drive an Oak stake 2 ft. long 2 ins. sq. 12 ins. in the ground, marked
	1/4 S. on W. face.
45.18	Wire fence bears N. 80° E. from point 2 chs. W.
48.00	Top of ascent 100 ft. on W. face bluffs. descend over broken ground.
57.00	Wire fence bears N. E. and S. W.
65.00	Ridge descend gently.
82.66	Set a grainite stone 5x8x18 ins. 12 ins. in the ground for Cor. of T. 22 and 23 N. R. 47 and 48 W. marked.
	T. 23 N. R. 47 W. S. 31 on N. E.
	T. 22 N. R. 47 W. S. 6 on S. E.
	T. 22 N. R. 48 W. S. 1 on S. W. and
	T. 23 N. R. 48 W. S. 36 on N. W. face with 6 notches on each edge. dig pits 18x18x12 ins. on each line N. E. and W. 4 ft. and S. of stone 8 ft. dist and raise a mound of earth 5 ft. base 2½ ft. high S. of Cor.
	The stone described above and used as Tp. Cor. was originally set for the Tp. Cor. by a locator named George W. Fairfield at a point 27.70 chs. S. and 94 chs. W. of my Tp. Cor. as described above.
	December 17 1900.

Survey of N. bdry. T. 22 N., R. 47 W.

Chains	
	Between Tps 22 and 23 N. R 47 W. — true line
	From the Cor. of Tps. 22 and 23 N. R 46 and 47 W. run an angle from the range line prolonged of 90° 11½' to the W. and run.
	N. on tang. through Sec. 1.
40.00	Set temp. ¼ Sec. Cor.
80.00	N. 1 lks. from the tang. Set temp. Cor. of Secs. 1, 2, 35 and 36.
	S. 89° 59' W. on a tang. through Sec. 2.
40.00	N. 2½ lks. from tang. Set. temp. ¼ Sec. Cor.
80.00	N. 3½ lks. from tang. Set temp. Cor. of Secs. 2, 3, 34 & 35.
	S. 89° 59' W. on a tangent through Sec. 3.
40.00	N. 6 lks. from tang. Set temp. ¼ Sec. Cor.
80.00	N. 8 lks. from tang. Set temp. Cor. of Secs. 3, 4, 33 and 34.
	S. 89° 58' W. on a tang. through Sec. 4.
40.00	N. 11 lks. from tang. Set temp. ¼ Sec. Cor.
80.00	N. 14 lks. from tang. Set temp. Cor. of Secs. 4, 5, 32 and 33.
	S. 89° 57' W. on tang. through Sec. 5.
40.00	N. 18 lks. from tang. Set temp. ¼ Sec. Cor.
80.00	N. 23 lks. from tang. Set temp. Cor. of Secs. 5, 6, 31 & 32.
	S. 89° 56' W. on a tangent through Sec. 6.
40.00	N. 27 lks. from tang. Set temp. ¼ Sec. Cor.
76.00	N. 33 lks. from tang. Set temp. Cor. of Tp. which falls N. 18 lks. dist. from the Cor. of Tp. 22 and 23 N. R. 47 and 48 W. the true bearing of the town line will therefore be N. 89° 59' E. and the temporary Corner will be moved S. decreasing 1½ lks. for each ¼ mile —
	Between Tps 22 and 23 N. R 47 W. — true line
	N. 89° 59' E. bet. Secs. 6 and 31.
	Descend E. face of ridge.
1.17	Wire fence. bears N. W. and S. E. around over ridge.

Survey of N. bdry. T. 22 N., R. 47 W. Continued

Chains	
36.00	Deposit marked limestone 12 ins. in the ground for ¼ Sec. Cor. dig pits 18x18x12 ins. E. and W. of Cor. 4 ft. dist and raise a mound of earth 3½ ft. base 1½ ft. high over deposit.
	In S. pit drive an Oak stake 2 ft. long 2 ins. sq. 12 ins. in ground, marked.
	¼ S. on N. face
	Ascend over broken bluff.
41.00	N. face bluff. descend abruptly.
45.00	Bottom descend on low hills.
54.00	Trail bears N. and S.
56.00	Ascend gently.
76.00	Deposit marked limestone 12 ins. in ground for Cor. of Secs. 5, 6, 31 and 32. dig pits 18x18x12 ins. in each Sec. 4 ft. dist. and raise a mound of earth 4 ft. base 2 ft. high, over deposit.
	In S. E. pit, drive an Oak stake 2 ft. long 2 ins. sq. 12 ins. in ground, marked
	T. 23 N. S. 32 on N. t.
	R. 47 W. S. 5 on S. E.
	T. 22 N. S. 6 on S. W. and.
	S. 31 on N. W. face with 1 notch on W. and 5 notches on E. edges —
	Land, rolling and broken
	Soil sandy 3rd and 4th rate
	Vegetation, sand grass.
	N. 89° 59' E. bet. Secs. 5 and 32.
	Over low hills.
2.50	Descend E. slope hills.
5.50	Bottom descent, thence over rolling ground.
13.15	Trail bears N. 15° W. and S. 15° E.
14.00	Ascend gently low hills.
27.00	Trail bears N. 10° W. and S. 10° E.
40.00	Top of ascent ~~Deposit~~ marked limestone 12 ins. in the ground for ¼ Sec. Cor. dig pits 18x18x12 ins. E. and W. of Cor. 4 ft. dist. and raise a mound of earth 3½ ft. base 1½ ft. high over deposit
	In E. pit, drive an Oak stake 2 ft. long 2 ins. sq.

Chains	
	~~2 ft. long~~ 12 ins. in ground, marked
	1/4 S. on N. face
	Over low hills.
71.50	N. face low ridge, descend.
79.00	Bottom descent, over rolling ground in Sedge valley.
80.00	Deposit marked limestone 12 ins. in the ground for Cor. of Secs. 4, 5, 32 and 33, dig pits 18x18x12 ins. in each Sec. 4 ft. dist and raise a mound of earth - ~~2 ft.~~ 4 base 2 ft. high over deposit.
	In S.E. pit, drive an Oak stake 2 ft long 2 ins. sq. 12 ins. in ground, marked.
	T. 23 N. S. 33 on N.E.
	R. 47 W. S. 4 on S.E.
	T. 22 N. S. 5 on S.W. and
	S. 32 on N.W. face with 2 notches on W. and 4 notches on E. edges.

Land, rolling.
Soil sandy 3rd rate
Vegetation, sand grass.

Chains	
	N. 89° 59' E. bet. Secs. 4 and 33.
	Over rolling ground.
13.00	Ascend N.W. slope low hills.
18.25	Top of ascent 40 ft. thence over low hills
33.00	Descend E. slope, gradually.
37.00	Bottom descent, over rolling ground.
40.00	Deposit marked limestone 12 ins. in the ground for 1/4 Sec. Cor. dig pits 18x18x12 ins. E. and W. of Cor. 4 ft. dist. and raise a mound of earth 3½ ft. base 1½ ft. high, over deposit.
	In E. pit, drive an Oak stake 2 ft. long 2 ins. sq. 12 ins. in ground, marked.
	1/4 S. on N. face
50.12	Wire fence bears N. and S.
57.00	Ascend gentle S.W. slope.
69.00	Top of ascent on N. face low hills.
80.00	Deposit marked limestone 12 ins. in the ground for Cor. of Secs. 3, 4, 33, and 34 dig pits 18x18x12 ins. in each Sec. 4 ft. dist. and raise a mound of

Chains	
	earth - 4 ft. base 2 ft. high over deposit
	In S.E. pit. drive an Oak stake 2 ft. long 2 ins. sq. 12 ins. in the ground, marked.
	T. 23 N. S. 34 on N.E.
	R. 47 W. S. 3 on S.E.
	T. 22 N. S. 4 on S.W. and
	S. 33 on N.W. face with 3 notches on E. and W. edges.

Land rolling
Soil sandy 3rd rate
Vegetation sand grass.

Chains	
	N. 89° 59' E. bet. Secs. 3 and 34
	Over low broken hills.
13.00	Ascend
17.00	S. face low ridge or bluff
30.00	Descend E. slope - gradually.
40.00	Deposit marked limestone 12 ins. in the ground for 1/4 Sec. Cor. dig pits 18x18x12 ins. E. and W. of Cor. 4 ft. dist. and raise a mound of earth - 3½ ft. base 1½ ft. high over deposit
	In E. pit, drive an Oak stake 2 ft long 2 ins. sq 12 ins. in ground. marked
	1/4 S. on N. face.
70.84	Wire fence bears N. 10° W. and S. E. with meadow land.
76.70	Rail bears N. and S.
80.00	Deposit marked limestone 12 ins. in the ground for Cor. of Secs. 2, 3, 34 and 35, dig pits 18x18x12 ins. in each Sec. 4 ft. dist. and raise a mound of earth - 4 ft. base 2 ft. high over deposit
	In S.E. pit, drive an Oak stake 2 ft. long 2 ins. sq. 12 ins in the ground, marked.
	T. 23 N. S. 35 on N.E.
	R. 47 W. S. 2 on S.E. and
	T. 22 N. S. 3 on S.W. [illegible]
	S. 34 on N.W. face, with 4 notches on W. and 2 notches on E. edges.

Land level and rolling
Soil sandy 2nd and 3rd rate
Vegetation, meadow, sand grass.

N bdy of T. 22 N. R. 47 W. Continued

Chains	
	N. 89° 59' E. bet. Secs. 2 and 35.
	Over level meadow land.
33.00	Ascend low hills.
40.00	Deposit marked limestone 12 ins. in the ground for 1/4 Sec. Cor. dig pits 18x18x12 ins. E. and W. of Cor. 4 ft. dist and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high over deposit.
	In E. pit, drive an Oak stake 2 ft. long 2 ins. sq. 12 ins. in the ground, marked
	1/4 S. on N. face.
46.25	Top of ascent on low hills
57.00	Descend over broken ground.
79.00	Bottom descent over low hills.
80.00	Deposit marked limestone 12 ins. in the ground for Cor. of Secs. 12, 35 and 36. dig pits 18x18x12 ins. in each Sec. 4 ft. dist and raise a mound of earth 3 1/2 ft. base 2 ft. high over deposit.
	In S.E. pit, drive an Oak stake 2 ft. long 2 ins. sq. 12 ins. in ground, marked
	T. 23 N. S. 36 on N.E.
	R. 47 W. S. 1 on S.E.
	T. 22 N. S. 2 on S.W. and
	S. 35 on N.W. faces with 1 notch on E. and 3 notches on W. edge.

Land level and low hills.
Soil sandy 2nd and 3rd rate
Vegetation meadow and sand grass

	N. 89° 59' E. bet. Secs. 1 and 36 –
	Over low hills
4.30	Enter valley land.
40.00	Deposit marked limestone 12 ins. in the ground for 1/4 Sec. Cor. dig pits 18x18x12 ins. E. and W. of Cor. 4 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high over deposit.
	In E. pit, drive an Oak stake 2 ft. long 2 ins. sq. 12 ins. in the ground, marked
	1/4 S. on N. face.
41.71	Wire fence runs N. and S. thence over rolling

ground

Survey of N. bdy. of T. 22 N. R. 47 W. Concluded.

Chains	
53.40	Trail, bears N. and S.
55.00	Ascend W. slope range.
75.00	Top of ascent 80 ft. thence along W. face range.
80.00	The Cor. of T. 22 and 23 N. R. 46 and 47 W.

Land, level and rolling
Soil sandy 2nd and 3rd rate.
Vegetation, meadow and sand grass.
December 18, 1900

N. bdy T. 23 N. R. 47 W. — True line

From the Cor. of T. 22 and 23 N. R. 47 and 48 W. run N. 0° 33' E. bet. Secs. 2 and 36.

	Ascend gully over low ridge.
2.30	Wire fence bears N.W. and S.E.
13.50	Ridge, descend.
22.05	Wire fence runs N. 70° E. from point 3 chs. W.
39.00	Depression.
40.00	Deposit marked limestone 12 ins. in the ground for 1/4 Sec. Cor. dig pits 18x18x12 ins. N. and S. of Cor. 4 ft. dist and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high over deposit.
	In S. pit drive an Oak stake 2 ft. long 2 ins. sq. 12 ins. in the ground, marked.
	1/4 S. on W. face.
48.00	Descend gully.
52.00	Enter valley land.
64.40	Trail bears E. and W.
66.30	Wire fence bears E. and W. Ascend E. slope hills.
76.50	Top of ascent on ridge – descend.
80.00	In depression, deposit marked limestone 12 ins. in the ground for Cor. of Secs. 25, 30, 31 and 36 dig pits 18x18x12 ins. in each Sec. 4 ft. dist and raise a mound of earth 4 ft. base 2 ft. high over deposit.
	In S.E. pit, drive an Oak stake 2 ft. long 2 ins. sq. 12 ins. in the ground, marked.
	T. 23 N. S. 30 on N.E.
	R. 47 W. S. 31 on S.E.
	S. 36 on S.W. and
	R. 48 W. S. 25 on N.W. face with 1 notch on S. and 3 notches on N. edge.

Land rolling and broken
Soil sandy 3rd rate. Vegetation sand grass.

Survey of W. bdry. T. 23 N. R. 47 W. Continued

Chains	
	N. 0°33' E. bet. Secs. 25 and 30.
	Ascend S.W. face hills over broken ground.
11.00	Top of ridge.
31.00	Ravine or depression ascend over broken S.W. face.
40.00	Deposit marked limestone 12 ins. in ground for ¼ Sec. Cor. dig pits 18x18x12 ins. N. and S. of Cor. 4 ft. dist. and raise a mound of earth 3½ ft. base 1½ ft. high over deposit.
	In S. pit, drive an Oak stake 2 ft. long 2 ins. sq. 12 ins. in the ground, marked.
	¼ S. on W. face.
43.40	W. face bluff or ridge descend.
57.00	Descend N. slope gently.
80.00	Deposit marked limestone 12 ins. in the ground for Cor. of Secs. 19, 24, 25 and 30. dig pits 18x18x12 ins. in each Sec. 4 ft. dist. and raise a mound of earth 4 ft. base 2 ft. high over deposit.
	In S.E. pit, drive an Oak stake 2 ft. long 2 ins. sq. 12 ins. in the ground, marked.
	T. 23 N. S. 19 on N.E.
	R. 47 W. S. 30 on S.E.
	S. 25 on S.W. and.
	R. 48 W. S. 24 on N.W. face, with 2 notches on 4 notches on N. edges.

Land, rolling and broken
Soil sandy 3rd and 4th rate
Vegetation sand grass.

	N. 0°33' E. bet. Secs. 19 and 24.
	Over rolling ground.
1.46	Wire fence, runs E. and W. Enter meadow.
12.18	Old ¼ Sec. Cor. from this Cor. I run.
	N. 2°21' E.
30.00	Ascend gentle S.E. slope.
40.00	Deposit marked limestone 12 ins. in the ground for ¼ Sec. Cor. dig pits 18x18x12 ins. N. and S. of Cor. 4 ft. dist. and raise a mound of earth 3½ ft. base 1½ ft. high over deposit.
	In S. pit drive an Oak stake 2 ft. long 2 ins. sq. 12 ins.

Survey of W. bdry. T. 23 N. R. 47 W. Continued

Chains	
	in ground, marked.
	¼ S. on W. face.
	Over rolling land.
53.12	Original Cor. of Secs. 13, 18, 19 and 24. from this Cor. I run — N. 0°28' E.
55.10	Wire fence, bears N.E. and S.W. at trail bearing N.W. & S.E.
57.00	Ascend gentle S.W. slope.
60.00	Top of ascent on low hills.
80.00	At foot of low ridge. Set an Oak Post 3 ft. long 4 ins. sq. with a marked limestone 24 ins. in the ground for Cor. of Secs. 13, 18, 19 and 24. marked.
	T. 23 N. S. 13 on N.E.
	R. 47 W. S. 19 on S.E.
	S. 24 on S.W. and.
	R. 48 W. S. 13 on N.W. face with 3 notches on N. and S. edges. dig pits 18x18x12 ins. in each Sec. 5½ ft. dist. and raise a mound of earth 4 ft. base 2 ft. high W. of Cor.

Land, level and rolling.
Soil sandy 2nd and 3rd rate
Vegetation, meadow & sand grass.

	N. 0°28' E. bet. Secs. 13 and 18.
	Ascend S.E. slope ridge.
3.50	Top of ascent 30 ft. on E. face, descend over broken ground.
10.60	Trail, bears N.W. and S.E. Ascend S.W. gentle ~~gentle~~
17.50	Low ridge, descend N.W. face low hills.
40.00	Deposit marked limestone 12 ins. in the ground for ¼ Sec. Cor. dig pits 18x18x12 ins. N. and S. of Cor. 4 ft. dist. and raise a mound of earth 3½ ft. base 1½ ft. high over deposit.
	In S. pit, drive an Oak stake 2 ft. long 2 ins. sq. 12 ins. in the ground, marked.
	¼ S. on W. face.
75.00	Depression N.W. and S.E. Ascend S.W. slope.
79.50	W. face bluff.
80.00	Deposit marked limestone 12 ins. in the ground for Cor. of Secs. 7, 12, 13 and 18, dig pits 18x18x12 ins. in each Sec. 4 ft. dist. and raise a mound of earth

Survey of W. bdry T. 23 N. R. 47 W. Continued

Chains	
	4 ft. base 2 ft. high over deposit.
	In S.E. pit, drive an Oak stake 2 ft. long 2 ins. sq. 12 ins. in the ground, marked
	T. 23 N. S. 7 on N.E.
	R. 47 W. S. 18 on S.E.
	S. 13 on S.W. and
	R. 48 W. S. 12 on N.W. face with 4 notches on S and 2 notches on N. edges.
	Land, rolling and broken
	Soil sandy 2nd and 4th rate.
	Vegetation sand grass.
	N. 0°28' E. bet. Secs. 7 and 12.
	Ascend S.W. face ridge.
4.50	Top 30 ft. thence over ridges and broken ground.
21.00	Ascend gradual S.W. slope.
32.87	Wire fence bears N. 70° W. and S. 75° E.
34.00	Top of ascent.
37.00	Descend N. slope hills gradually.
41.00	Deposit marked limestone 12 ins. in the ground for 1/4 Sec. Cor. dig pits 18x18x12 ins. N and S. of Cor. 4 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high over deposit
	In S. pit, drive an Oak stake 2 ft. long 2 ins. sq. 12 ins. in ground, marked.
	1/4 S. on W. face.
56.56	Wire fence runs W. from point 12 ft. E.
58.00	Bottom descent, thence over rolling valley.
60.85	Trail bears N.W. and S.E.
71.22	Trail bears E. and W.
80.00	Deposit marked limestone 12 ins. in the ground for Cor. of Secs. 1, 6, 7 and 12. dig pits 18x18x12 ins. in each Sec. 4 ft. dist. and raise a mound of earth 4 ft. base 2 ft. high over deposit.
	In S.E. pit, drive an Oak stake 2 ft. long 2 ins. sq. 12 ins. in ground, marked
	T. 23 N. S. 6 on N.E.
	R. 47 W. S. 7 on S.E.
	S. 12 on S.W. and

Survey of W. bdry T. 23 N. R. 47 W. Concluded

Chains	
	R. 48 W. S. 1 on N.W. faces with 5 notches on S and 1 notch on N. edge.
	Land, rolling and broken.
	Soil sandy 2nd and 3rd rate
	Vegetation Sand grass.
	N. 0°28' E. bet. Secs. 1 and 6.
	Over rolling valley land.
24.00	Ascend gently.
32.00	Wire fence runs W. from point 50 lks. E.
40.00	Deposit marked limestone 12 ins. in the ground for 1/4 Sec. Cor. dig pits 18x18x12 ins. N and S. of Cor. 4 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high over deposit
	In S. pit, drive an Oak stake 2 ft. long 2 ins. sq. 12 ins. in ground, marked.
	1/4 S. on W. face.
	Ascend S.W. slope
58.06	Original Tp. Cor. at which point I set an Oak Post 3 ft. long 4 ins. sq. with a brick and the old leader post 24 ins. in the ground for Cor. of Tps. 23 and 24 N. R. 47 and 48 W. marked
	T. 24 N. S. 31 on N.E.
	R. 47 W. S. 6 on S.E.
	T. 23 N. S. 1 on S.W. and
	R. 48 W. S. 36 on N.W. face with 6 notches on each edge. dig pits 24x24x12 ins. on each line N.E. and W. 4 ft. dist. and S. of Post 8 ft. dist. and raise a mound of earth 5 ft. base 2 ft. high S. of Cor.
	Land rolling
	Soil sandy 3rd rate
	Vegetation sand grass
	Jan. 4-1901

Survey of E. bdry T. 23 N. R. 47 W.

Chains	E. bdry. T 23 N. (Free Line)
	From the Cor. of T. 22 and 23 N. R. 46 and 47 W. I run N. 0° 11½' E. bet. Secs. 31 and 36.
	Ascend S. face ridge.
3.60	Top of ascent 20 ft. descend gently over ridge.
36.60	Trail bears N. 55° W. and S. 55° E. at bottom descent.
40.00	Deposit marked limestone 12 ins. in the ground for ¼ Sec. Cor. dig pits 18 x 18 x 12 ins. N. and S. of Cor. 4 ft. dist. and raise a mound of earth 3½ ft. base 1½ ft. high over deposit.
	In S. pit drive an Oak stake 2 ft. long 2 ins. sq. 12 ins. in the ground, marked
	¼ S. on W. face.
	Ascend low hills.
52.00	Top of ascent over low hills.
60.00	Descend gentle N.E. slope.
68.00	Bottom descent over rolling ground.
78.40	Trail bears E. and W.
80.00	Deposit marked limestone 12 ins. in the ground for Cor. of Secs. 25, 30, 31 and 36. dig pits 18 x 18 x 12 ins. in each Sec. 4 ft. dist. and raise a mound of earth 4 ft. base 2 ft. high over deposit.
	In S.E. pit, drive an Oak stake 2 ft. long 2 ins. sq. 12 ins. in the ground, marked.
	T. 23 N. S. 30 on N.E.
	R. 46 W. S. 31 on S.E.
	S. 36 on S.W. and
	R. 47 W. S. 25 on N.W. face with 1 notch on S. and 5 notches on N. edge.
	Land, rolling and broken
	Soil sandy 3rd rate
	Vegetation, sand grass.

	N. 0° 11½' E. bet. Secs. 25 and 30.
	Descend gently over rolling ground.
5.00	Enter valley land.
8.00	W. edge of alkali basin
12.00	Ascend low hills
22.00	Top of ascent 40 ft.
33.81	Wire fence runs E. and W.

Survey of E. bdry of T. 23 N. R. 47 W. Continued

Chains	
40.00	Deposit marked limestone 12 ins. in the ground for ¼ Sec. Cor. dig pits 18 x 18 x 12 ins. N. and S. of Cor. 4 ft. dist. and raise a mound of earth 3½ ft. base 1½ ft. high over deposit.
	In S. pit drive an Oak stake 2 ft. long 2 ins. sq. 12 ins. in the ground, marked.
	¼ S. on W. face.
46.00	Ascend S. slope ridge.
48.15	Top of ascent thence over broken ground.
49.50	Descend.
58.00	Bottom descent. Enter alkali valley
62.23	Trail, bears N.W. and S.E.
80.00	Deposit marked limestone 12 ins. in ground for Cor. of Secs. 19, 24, 25 and 30. dig pits 18 x 18 x 12 ins. in each Sec. 4 ft. dist. and raise a mound of earth 4 ft. base 2 ft. high over deposit.
	In S.E. pit drive an Oak stake 2 ft. long 2 ins. sq. 12 ins. in the ground, marked
	T. 23 N. S. 19 on N.E.
	R. 46 W. S. 30 on S.E.
	S. 25 on S.W. and
	R. 47 W. S. 24 on N.W. faces with 2 notches on S. and 4 notches on N. edges.
	Land, level and rolling and broken
	Soil sandy and alkali 3rd rate
	Vegetation, sand and alkali grass.

	N. 0° 11½' E. bet. Secs. 19 and 24
	Over rolling valley land.
20.50	Ascend S. slope low hills
24.00	Top of ascent 40 ft. descend gently
40.00	Deposit marked limestone 12 ins. in the ground for ¼ Sec. Cor. dig pits 18 x 18 x 12 ins. N. and S. of Cor. 4 ft. dist. and raise a mound of earth 3½ ft. base 1½ ft. high over deposit.
	In S. pit, drive an Oak stake 2 ft. long 2 ins. sq. 12 ins. in the ground. marked
	¼ S. on W. face.
40.50	Trail bears N.W. and S.E.

Survey of E. bdy of T. 23 N. R. 47 W. Continued

Chains	
50.00	Enter dry bed alkali lake E. and W.
75.00	Leave lake bed over valley land.
80.00	Set an Oak Post 3 ft. long 4 ins. sq. with a marked limestone 24 ins. in the ground for Cor. of Sec. 13, 18, 19 and 24. marked
	T. 23 N. S. 8 on N.E.
	R. 46 W. S. 19 on S.E.
	S. 24 on S.W. and
	R. 47 W. S. 13 on N.W. face, with 3 notches on N. and S. edges dig pits 18 x 18 x 12 ins. in each Sec. 5½ ft. dist and raise a mound of earth 4 ft. base 2 ft. high N. of Cor.
	Land, level and rolling
	Soil sandy and alkali 3rd rate
	Vegetation sand and alkali grass.

Chains	
	N. 0° 11½' E. bet. Secs. 13 and 18.
	Over rolling valley-land.
17.40	Trail bears N.W. and S.E. Ascend gentle S.W. slope.
23.00	Top of ascent 50 ft. thence over low hills.
28.40	Wire fence bears N.W. and S.E.
40.00	Deposit marked limestone 12 ins. in the ground for ¼ Sec. Cor. dig pits 18 x 18 x 12 ins. N. and S. of Cor. 4 ft. dist. and raise a mound of earth 3½ ft. base 1½ ft. high over deposit.
	In S. pit, drive an Oak stake 2 ft. long 2 ins. sq. 12 ins. in ground, marked
	¼ S. on W. face
	Ascend gently-
66.80	Low ridge or bluff, descend.
77.80	Wire fence bears N. 20° E. and S. 20° W.
80.00	Bottom descent, deposit marked limestone 12 ins. in the ground for Cor. of Secs. 7, 12, 13 and 18 dig pits 18 x 18 x 12 ins. in each Sec. 4 ft. dist and raise a mound of earth 4 ft. base 2 ft. high over deposit.
	In S.E. pit, drive an Oak stake 2 ft. long 2 ins. sq. 12 ins. in the ground, marked.
	T. 23 N. S. 7 on N.E.
	R. 46 W. S. 18 on S.E.
	S. 13 on S.W. and
	R. 48 W. S. 12 on N.W. faces with 4 notches on S. and 2

Survey of E. bdy T. 23 N. R. 47 W. Continued

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Chains	
	notches on N. edge.
	Land, rolling and broken
	Soil sandy and alkali 3rd rate
	Vegetation sand and alkali grass.

Chains	
	N. 0° 11½' E. bet. Secs. 7 and 12.
	Over low foot hills.
11.00	Trail bears E. and W.
12.37	Wire fence bears E. and W.
22.00	Ascend gentle S.W. slope.
40.00	Deposit marked limestone 12 ins. in the ground for ¼ Sec. Cor. dig pits 18 x 18 x 12 ins. N. and S. of Cor. 4 ft. dist. and raise a mound of earth 3½ ft. base 1½ ft. high over deposit.
	In S. pit, drive an Oak stake 2 ft. long 2 ins. sq. 12 ins. in ground. marked
	¼ S. on W. face.
40.50	Top of ascent thence over low hills.
57.00	Descend gradual N.E. slope
64.00	Bottom descent in depression
68.90	Trail bears N.W. and S.E.
71.90	Wire fence bears N. 15° W. and S. 15° E. ascend gently.
80.00	Deposit marked limestone 12 ins. in the ground for Cor. of Secs. 6, 7 and 12 dig pits 18 x 18 x 12 ins. in each Sec. 4 ft. dist. and raise a mound of earth 4 ft. base 2 ft. high over deposit.
	In S.E. pit, drive an Oak stake 2 ft. long 2 ins. sq. 12 ins. in the ground, marked.
	T. 23 N., S. 6 on N.E.
	R. 46 W. S. 7 on S.E.
	S. 12 on S.W. and
	R. 48 W. S. 1 on N.W. face with 5 notches on S. and 1 notch on N. edge.
	Land rolling
	Soil sandy 3rd rate
	Vegetation sand grass.

Survey of E. bdry T. 23 N. R. 47 W. Concluded.

Chains	
	N. 0°11½' E. bet. Sec. 1 and 6.
	Ascend low hills
4.00	Top of ascent 20 ft —
16.95	Trail bears N.W. and S.E.
39.50	Descend N. slope.
40.00	Deposit marked limestone 12 ins. in ground for 1/4 Sec. Cor. dig pits 18 18 X 12 ins. N. and S. of Cor. 4 ft. dist. and raise a mound of earth 3½ ft. base 1½ ft. high over deposit
	In S. pit, drive an Oak stake 2 ft. long 2 ins. sq. 12 ins. in ground, marked.
	1/4 S on W. face
46.00	Bottom descent in S.E. Cor. of valley
50.06	Wire fence, bears N.W. and S.E. ascend gentle S.W. slope.
69.00	Ascend abrupt S.W. slope.
74.00	Top of ascent 70 ft. on S.W. face ridge.
81.00	Descend N.E. face ridge.
82.66	Set a granite boulder 6 X 8 X 28 ins. 20 ins. in the ground for Cor. of T. 23 and 24 N. R. 46 and 47 W. duly marked.
	R. 46 W. S. 31 on N.E.
	T. 23 R. 46 S. 6 on S.E.
	R. 47 S. 1 on S.W. and
	T. 24 R. 47 S. 36 on N.W. face with 6 notches on each edge. dig pits ~~24 12 X~~ 12 ins. on each line N.E. and W. 4 ft. ~~and~~ S. of Stone 8 ft. dist. and raise a mound of earth — 5 ft. base 2½ ft. high S. of Cor.
	Land, rolling and broken
	Soil sandy & of poor
	Vegetation sand grass.

The Cor. Stone described above is the one removed from the old Tp. Cor. described on page 8. which old Cor. I obliterate. —
Which old Cor. was S. 2.18 chs. and E. 21.26 chs. dist from the established Cor. of T. 23 and 24 N. R. 46 and 47 W. described above.

Jan. 5 - 1901

Survey of the N. bdy. of T. 23 N. R. 47 W —

Chains	N. bdy T. 23 N. R. 47 W — Random line
	By references to a random line run in Nov. 7. 1900 → page 8 from the old Cors of T. 23 and 24 N. R. 46 and 47 W. I calculate the bearing of said N. bdy T. 23 N. and run a new random line on said bearing from the established Cor. of T. 23 and 24 N. R. 46 and 47 W. I turn an angle of 93°14' from the range line prolonged to the W. and run
	S. 86° 57' W. on a tang through Sec. 1 -
40.00	Set temp 1/4 Sec Cor.
80.00	N. 1 lk. from tangent. Set temp Cor. of Secs. 1, 2, 35 & 36.
	S. 86° 56' W. on tang. through Sec. 2.
40.00	N. 2½ lks from tang. Set temp 1/4 Sec. Cor.
80.00	N. 3½ lks. from tang. Set temp. Cor. of Secs. 2, 3, 34 & 35.
	S. 86° 56' W. on a tangent. through Sec. 3.
40.00	N. 6 lks. from tang. Set temp. 1/4 Sec. Cor.
80.00	N. 8 lks. from tang. Set temp. Cor. of Secs. 3, 4, 33 and 34
	Jan. 5 - 1901
	S. 86° 55' W. on a tangent through Sec. 4.
40.00	N. 11 lks. from tang. Set temp 1/4 Sec. Cor.
80.00	N. 14 lks. from tang Set temp. Cor. of Secs. 4, 5, 32 and 33.
	S. 86° 54' W. on a tangent through Sec. 5.
40.00	N. 18 lks. from tang. Set temp 1/4 Sec Cor.
80.00	N. 23 lks. from tang. Set temp Cor. of Secs. 5, 6, 31 and 32.
	S. 86° 53' W. on a tangent through Sec. 6.
40.00	N. 27 lks. from tang. Set temp 1/4 Sec Cor.
71.66	N. 33 lks. from tang & intersect W. bdy of Tp. at the Cor. of T. 23 and 24 N. R. 47 and 48 W. The true bearing of town line is therefore N. 86° 59' E.

Survey of N. bdy of T. 23 N. R. 47 W. Continued

Chains	
	N. bdy T23N (new lines)
	N. 86° 57' E. bet. Secs. 6 and 31.
	Around S.W. face hills over ridges.
0.65	Wire fence runs N. and S.
24.00	Top of ascent on S. face ridge.
31.66	Deposit marked limestone 12 ins. in the ground for 1/4 Sec. Cor. dig pits 18x18x12 ins. E. and W. of Cor. 4 ft. dist. and raise a mound of earth 3½ ft. base 1½ ft. high over deposit.
	In E. pit, drive an Oak stake 2 ft. long 2 ins. sq. 12 ins. in ground, marked.
	1/4 S. on N. face.
	Over ridges on N. face range.
46.00	Descend along N.E. slope.
7.66	Deposit marked limestone 12 ins. in the ground for Cor. of Secs. 5, 6, 31 and 32. dig pits 18x18x12 ins. in each Sec. 4 ft. dist. and raise a mound of earth 4 ft. base 2 ft. high over deposit.
	In S.E. pit, drive an Oak stake 2 ft. long 2 ins. sq. 12 ins. in ground, marked.
	T. 24 N. S. 32 on N.E.
	R. 47 W. S. 5 on S.E.
	T. 22 N. S. 6 on S.W. and
	S. 31 on N.W. face, with 1 notch on W. and 5 notches on E. edges.
	Land rolling and broken
	Soil sandy 3rd rate
	Vegetation, sand grass.

N. 86° 57' E. bet. Secs. 5 and 32.
Over rolling ground.

4.25	Trail bears N.W. and S.E.
8.00	Ascend S.W. slope hills over broken ground.
32.20	Ridge or bluff descend abruptly.
40.00	Bottom descent. deposit marked limestone 12 ins. in the ground for 1/4 Sec. Cor. dig pits 18x18x12 ins. E. and W. of Cor. 4 ft. dist. and raise a mound of earth 3½ ft. base 1½ ft. high over deposit.
	In E. pit, drive an Oak stake 2 ft. long 2 ins. sq. 12 ins. in ground, marked

Survey of N. bdy. T. 23 N. R. 47 W. Continued

Chains	
	1/4 S. on N. face.
53.00	Ridge on S. face broken hills.
71.00	Ridge descend along S. face hills.
80.00	Deposit marked limestone 12 ins. in ground for Cor. of Secs. 4, 5, 32 and 33. dig pits 18x18x12 ins. in each. Sec. 4 ft. dist. and raise a mound of earth 4 ft. base 2 ft. high over deposit.
	In S.E. pit, drive an Oak stake 2 ft. long 2 ins. sq. 12 ins. in the ground marked.
	T. 24 N. S. 32 on N.E.
	R. 47 W. S. 4 on S.E.
	T. 23 N. S. 5 on S.W. and
	S. 32 on N.W. face, with 2 notches on W. and 4 notches on E. edges.
	Land, rolling and broken
	Soil sandy 3rd and 4th rate
	Vegetation, sand grass.

N. 86° 57' E. bet. Secs. 4 and 33.
Over rolling ground at foot of hills.

14.00	Trail bears N.W. and S.E.
20.00	Ascend over low broken hills.
25.00	Top of ascent. Thence along S. face hills.
36.95	Trail, bears N. and S.
40.00	Deposit marked limestone 12 ins. in ground for 1/4 Sec. Cor. dig pits 18x18x12 ins. E. and W. of Cor. 4 ft. dist. and raise a mound of earth 3½ ft. base 1½ ft. high over deposit.
	In E. pit, drive an Oak stake 2 ft. long 2 ins. sq. 12 ins. in the ground, marked.
	1/4 S. on N. face.
43.20	Descend E. slope hills.
57.00	Trail bears N.W. and S.E. at bottom descent.
59.00	Ascend S.W. slope low hills
59.00	Top of ascent. 50 ft. on W. face ridge. Thence over ridge
80.00	Put an Oak Post 3 ft. long 4 ins. sq. with marked limestone 24 ins. in the ground for Cor. of Secs. 34, 33 and 3. marked.
	T. 24 N. S. 34 on N.E.

Survey of N. bdry of T. 23 N. R. 47 W. Continued

Chains

R. 47 W. S. 3 on S.E.
T. 23 N. S. 4 on S.W. and
S. 33 on N.W. face with 3 notches on E. and W. edges
dig pits 18x18x12 ins. in each Sec. 5½ ft. dist. and
raise a mound of earth 4 ft. base 2 ft. high W.
of Cor.

Land rolling and broken
Soil sandy 3rd rate
Vegetation sand grass.

N. 86°57' E. bet. Secs. 3 and 34.
Over broken ground on N. face hills ascending.
26.00 N. face ridge descend N.E. slope abruptly.
33.90 Trail at bottom descent, runs along fence.
34.08 Wire fence bears N.W. and S.E. enter meadow land.
40.00 Deposit marked limestone 12 ins. in ground for ¼
Sec. Cor. dig pits 18x18x12 ins. E. and W. of Cor. 4 ft. dist.
and raise a mound of earth 3½ ft. base 1½ ft. high
over deposit.
In E. pit, drive an Oak stake 2 ft. long 2 ins. sq. 12
ins. in the ground, marked.
¼ S. on N. face.
80.00 Deposit marked limestone 12 ins. in the ground for
Cor. of Secs. 2, 3, 34 and 35 - dig pits 18x18x12 ins. in
each Sec. 4 ft. dist. and raise a mound of earth
4 ft. base 2 ft. high over deposit.
In S.E. pit, drive an Oak stake 2 ft. long 2 ins. sq. 12 ins.
in the ground, marked.
T. 24 N. S. 35 on N.E.
R. 47 W. S. 2 on S.E.
T. 23 N. S. 3 on S.W. and
S. 34 on N.W. face, with 4 notches on W. and 2 notches
on E. edges

Land level and broken
Soil sandy 2nd and 3rd rate
Vegetation meadow and sand grass

Survey of N. bdry of T. 23 N. R. 47 W. Continued.

Chains

N. 86°57' E. bet. Secs. 2 and 35.
Over level alkali valley land.
15.00 Leave old lake bed, over rolling ground.
26.10 Trail bears N. 15° W. and S. 15° E.
28.81 Wire fence parallel to trail.
33.50 Wire fence bears N.W. and S.E.
40.00 Deposit marked limestone 12 ins. in the ground
for ¼ Sec. Cor. dig pits 18x18x12 ins. E. and W. of Cor. 4
ft. dist. and raise a mound of earth 3½ ft. base 1½ ft.
high over deposit.
In E. pit, drive an Oak stake 2 ft. long 2 ins. sq. 12
ins. in ground, marked.
¼ S. on N. face
57.50 Enter N. end dry bed alkali lake.
57.50 Leave lake bed, ascend W. slope ridge abruptly.
67.50 Top of ascent 60 ft. over broken ground
73.50 Descend from ridge.
79.00 Bottom descent over rolling ground.
80.00 Deposit marked limestone 12 ins. in the ground for
Cor. of Secs. 1, 2, 35 and 36. dig pits 18x18x12 ins.
in each Sec. 4 ft. dist. and raise a mound of earth
4 ft. base 2 ft. high over deposit.
In S.E. pit, drive an Oak stake 2 ft. long 2 ins. sq.
12 ins. in the ground marked.
T. 24 N. S. 36 on N.E.
R. 47 W. S. 1 on S.E.
T. 23 N. S. 2 on S.W. and
S. 35 on N.W. face with 5 notches on W. and 1 notch
on E. edges.

Land level and broken
Soil sandy and alkali 3rd rate.
Vegetation alkali and sand grass.

N.
N. 86°57' E. bet. Secs. 1 and 36.
Over rolling ground on N.E. face hills.
12.00 Descend E. slope.
18.71 Wire fence, bears N.W. and S.E. Enter level meadow
40.00 Deposit marked limestone 12 ins. in the ground
for ¼ Sec. Cor. dig pits 18x18x12 ins. E. and W. of

Survey of A. bdy of T. 23 N., R. 47 W. Concluded.

Chains.	Cor. to sec. 21 and 22 dist. and raised a mound of earth - 52 ft. base 1½ ft. high over deposit.
	Set P. fit, and an Oak stake - 2 ft. long 2 ins. sq. 2 ins. in the ground, marked.
	14 Chs on W. face.
49.00	Leave meadow, thence over rolling ground.
59.25	W. cr. find bears W. 10° N. and S. 10° E.
66.00	Ascend W. slope hills - abruptly.
78.70	Top of summit. 80 ft. on ridge. N. and S. descend.
80.00	The Cor. of T. 23 and 24 N. R. 46 and 47 W.

Land level, rolling and broken
Soil sandy and alkali - 2nd and 3rd rate
Vegetation. meadow, sand and alkali grass
Jan. 7. 1901.

635

I hereby certify that I assisted Willard W. Alt, U. S. Surveyor, in surveying and re-surveying all those parts or portions of the North, East and West boundaries of Tps. 21 and 22 N. R. 47 W. of the 6th. Principal Meridian, State of Nebraska which are represented in the foregoing field notes as having been surveyed by him and under his direction and that said surveys and re-surveys have been in all respects to the best of my knowledge and belief, well and faithfully surveyed and the same monuments established according to the instructions furnished by the Commissioner of the General Land Office.

Earl J. Martin
Roundman

Subscribed & sworn to before me this 22nd of Dec. 1900.
Willard W. Alt U. S. Surveyor.

I hereby certify that I assisted Willard W. Alt, U. S. Surveyor, in surveying and re-surveying all those parts or portions of the East, West and North boundaries of Townships 21, 22, and 23 North, Range 47 West, of the 6th. Principal Meridian, State of Nebraska, which are represented in the foregoing field notes as having been surveyed by him and under his directions, and that said surveys and re-surveys have been in all respects, to the best of my knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the Commission of the General Land Office.

Harry Covace
Chainman.

Subscribed & sworn to before me this 22d day of Dec. 1900.
Willard W. Alt
U. S. Surveyor

I hereby certify that I assisted Willard W. Ackt, U.S. Surveyor, in surveying and re-surveying all those parts or portions of the North, East and West boundaries of Tp. 23 North, Range 47 West, of the 6th. Principal Meridian, State of Nebraska, which are represented in the foregoing field notes as having been surveyed by him and under his direction, and said survey and re-surveys have been in all respects, to the best of my knowledge and belief, well and faithfully surveyed and the corner mounments established, according to the instructions furnished by the Commissioner of the General Land Office.

Earl J. Martin
Chainman

Subscribed & Sworn to before me this 28th. day of January 1901.

Willard W. Ackt.
U.S. Surveyor.

I hereby certify that I assisted Willard W. Ackt, U.S. Surveyor, in surveying and re-surveying all those parts or portions of the North, East and West boundaries of T. 23 N. R. 47 W. of the 6th. Principal Meridian, State of Nebraska, which are represented in the foregoing field notes as having been surveyed by him and under his direction and that said surveys and re-surveys, have been, in all respects, to the best of my knowledge and belief, well and faithfully surveyed and the corner mounments established according to the instructions furnished by the Commissioner of the General Land Office.

Fred Newman
Moundman

Subscribed and Sworn to before me this 28th. day of January 1901.

Willard W. Ackt. U.S. Surveyor.

I hereby certify that I assisted Willard W. Ackt, U.S. Surveyor, in surveying and re-surveying all those parts or portions of the Range line, between Ranges 46 and 47 W. through T. 21 N. & between Ranges 47 and 48 W. through Tps. 21, 22 & 23 N. State of Nebraska, which are represented in the foregoing field notes as having been surveyed by him and under his direction, and that said surveys have been in all respects to the best of my knowledge and belief well and faithfully surveyed and the corner mounments established according to the instructions furnished by the Commissioner of the General Land Office.

Jim A. Winer

Subscribed and sworn to before me this 25th day of February 1901.

Willard W. Ackt
U. S. Surveyor.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

(1)

A list of the names of the individuals employed by Willard W. Alt, United States ~~Deputy~~ Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of the N.E. and West Boundaries of Tps. 21, 22 and 23 N., R. 47 W. showing the respective capacities in which they acted:

Joseph B. Kean, Jim A. Winsor, ~~Chainman~~
Harry Covalt and Earl J. Martin, Chainman.
Earl J. Martin, Moundman.
Fred Newman, Moundman.
, Axman.
, Axman.
Herbert Campbell, Flagman.

FINAL OATH OF ASSISTANTS.

(2)

We hereby certify that we assisted Willard W. Alt, United States ~~Deputy~~ Surveyor, in surveying all those parts or portions of the survey and resurvey of the East, West and North boundaries of Townships No. 21, 22 and 23 North, Range 47 West of the 6th Principal meridian, State of Nebraska, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey and resurvey 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 ~~United States Surveyor General for~~ Commissioner of the General Land Office

Joseph B. Kean, Chainman.
, Chainman.
, Moundman.
, Moundman.
, Axman.
, Axman.
Herbert Campbell, Flagman.

Subscribed and sworn to before me this ____ day of ____, 189

SEAL

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(3)

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Willard W. Alt, United States ~~Deputy~~ Surveyor, do solemnly swear that, in pursuance of a contract received from Commissioner of General ~~United States Surveyor General for~~ Land Office, bearing date of the 26th day of May, 1900, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the Commissioner ~~United States Surveyor General for~~ of the General Land Office, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of North, East and West Boundaries of Townships 21, 22 and 23 N., Range 47 W.

Principal meridian, in the State of Nebraska, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the Commissioner ~~United States Surveyor General for~~ of the General Land Office and in the specific manner described in the field notes, and that the foregoing are the original 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
United States ~~Deputy~~ Surveyor.

Subscribed by said Willard W. Alt, and sworn to before me this 5th day of Oct 1901, ~~189~~

W. H. Nickles
Clerk of the District Court
in and for Grant County, Nebraska

SEAL

APPROVAL.

4

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

, 189

The foregoing field notes of the survey of

executed by , dated , 189 , having under his contract No. , critically examined, and the necessary corrections and explanations made, the said field notes, and surveys they describe, are hereby approved.

Binger Hermann
Commissioner and Ex officio Surveyor Gen
for Nebraska

I certify that the foregoing transcript of the field notes of the above-described surveys in State of Nebraska, has been correctly copied from the original notes on file in this offi

Binger Hermann
Commissioner and Ex officio Surveyor Ge
for Nebraska

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gad.

Department of the Interior,
General Land Office,
Washington, D.C., July 19, 1915.

I hereby certify that I have caused to be transcribed from the original field notes on file in this office the hereinafter named portions of the field notes of the survey of the Exterior boundaries of Tps. 21, 22 and 23 N., R. 47 W., 6th P.M., Nebraska, executed by Willard W. Alt, U.S. Surveyor, found missing from these transcripts as certified to as correctly copied from the original notes on file in this office by Binger Hermann, Commissioner and ex officio Surveyor General for Nebraska,

Transcribed on page 350 and attached page 350 A., 350 B. — Preliminary oaths of assistants for Tps. 21, 22 and 23 N., R. 47 W.

Attached pages marked 406 A., 406 B., and 406 C., and transcribed on pages 407 and 408. — List of names, final oaths of assistants and of U.S. Surveyor, for Tps. 21, 22 and 23 N., R. 47 W.

Clay Tallman

See letter "B" "E" J.A.D. 467352
M.L. 328281 July 19th 1915
Commissioner of General Land Office Washington D.C.

Commissioner and ex officio Surveyor General for Nebraska

General Land Office • Original Field Notes

Book Number

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W.W. Alt - North, East & West bdy. T 21 - 23 N, R 47 W

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.