

FIELD NOTES

365

Of the survey of the Exterior  
Lines of T 2 N R 37 & 38 E and  
T 3 N R 38 & 39 E, Willamette Meridian,  
Oregon, as surveyed by Jacob C  
Cooper, U. S. Deputy Surveyor,  
under his Contract No. 397, dated  
July 14, 1881

Survey commenced, Sept 26 1881  
Survey completed, Oct 10 1881

NAMES AND DUTIES OF ASSISTANTS.

\_\_\_\_\_, Compassman.  
Chas D Goodrough, Chainman.  
R D Cooper, Chainman.  
\_\_\_\_\_, Chainman.  
\_\_\_\_\_, Chainman.  
R M Morgan, Axeman.  
John DeBoie, Axeman.  
\_\_\_\_\_, Flagman.

366

PRELIMINARY OATHS OF ASSISTANTS:

We, R. D. Cooper

do solemnly swear that we will faithfully execute the duties of Chain Carriers, that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distance to all notable objects, and the true length of all lines that we will assist in measuring, to the best of our skill and ability, and in accordance with the instructions given us in

the survey of the Exterior

lines of T 2 N R 37 & 38 E  
and T 3 N R 38 & 39 E Willamette Meridian, Oregon.

R. D. Cooper, Chainman.  
\_\_\_\_\_, Chainman.  
\_\_\_\_\_, Chainman.  
\_\_\_\_\_, Chainman.

Subscribed and sworn to before me, this Twenty sixth  
day of September 1881.

[SEAL.] Jacob C. Cooper  
U.S. Dep Surveyor

We, John De Boie and

do solemnly swear that we will well and truly perform the duties of Axemen in the establishment of corners and other duties, according to instructions given us, and to the best of our

skill and ability, in the survey of the Exterior of T 2 N R 37 & 38 E  
and T 3 N R 38 & 39 E Willamette Meridian Oregon.

\_\_\_\_\_, Axeman.  
John De Boie, Axeman.

Subscribed and sworn to before me, this Twenty sixth  
day of September 1881.

[SEAL.] Jacob C. Cooper  
U.S. Dep Surveyor

STATE OF OREGON,

County of Union.

ss.

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36

We Jeff D Fenton, W. T. Slater  
R. M. Morgan & C. D. Goodrough do  
solemnly swear that we will well and faithfully  
execute the duties of Chain carriers, that we will level  
the chain upon even and uneven ground and  
plumb the tally pins either by sticking or dropping  
the same that we will report the true distance  
to all notable objects and the true length  
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  
the exterior lines of Townships 2 North Ranges  
37<sup>38</sup> & 38 East. Townships 3, 4, 5<sup>omitted</sup> & 6 North  
Ranges 39 East

Jeff. D. Fenton	Chairman
W. T. Slater	Chairman
R. Morgan	Chairman
C. D. Goodrough	Chairman

367A

Subscribed and sworn to before me  
this 16 day of July 1881

J. G. M. King  
Notary Public for Oregon.

STATE OF OREGON,

County of Union.

SS.

367B

We R. M. Morgan & C. D. Goodnough  
do solemnly swear that we will  
well and truly perform the  
duties of assessors in the  
establishment of corners and  
other duties according to instructions  
given us and to the best of our  
skill and ability in the survey  
of the exterior lines of Townships  
2 North Ranges 37 & 38 East,  
Townships 3, 4, 5, & 6 North Range 39  
East

R M Morgan Assessor  
C D Goodnough Assessor

Subscribed and sworn to before me  
this 16 day of July 1881

Geo. W. King  
Notary Public for Oregon.

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# INDEX.

Referring the Lines to the Pages of the Field Notes.

T. *2 N* R. *37 E* Will. Mer.

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	7	8	9	10	11	12
	18	17	16	15	14	13
	19	20	21	22	23	24
<i>19</i>	30	29	28	27	26	25
<i>16</i>	31	32	33	34	35	36
	<i>15</i>	<i>12</i>	<i>10</i>	<i>8</i>	<i>5</i>	<i>2</i>

Meanders of \_\_\_\_\_ Pages \_\_\_\_\_ to \_\_\_\_\_

Meanders of \_\_\_\_\_ Pages \_\_\_\_\_ to \_\_\_\_\_

# INDEX.

Referring the Lines to the Pages of the Field Notes.

T. *2 N.* ----- R. *38 E.* ----- Will. Mer.

<i>53</i>	6	5	4	3	2	1
<i>50</i>	7	8	9	10	11	12
<i>47</i>	18	17	16	15	14	13
<i>45</i>	19	20	21	22	23	24
<i>42</i>	30	29	28	27	26	25
<i>39</i>	31	32	33	34	35	36
<i>38</i>	<i>35</i>	<i>33</i>	<i>30</i>	<i>27</i>	<i>24</i>	

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# INDEX.

Referring the Lines to the Pages of the Field Notes.

T. 3. North. ..... R. 38. East. #39. E. Will. Mer.

6	5	4	3	2	1	82			
7	8	9	10	11	12	80			
18	17	7	16	3	15	N	14	13	79
19	20	R	21	38	22	E	23	24	76
30	29	28	27	26	25	74			
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Meanders of \_\_\_\_\_ Pages \_\_\_\_\_ to \_\_\_\_\_

Meanders of \_\_\_\_\_ Pages \_\_\_\_\_ to \_\_\_\_\_



1

Exteriors of Township No. 2 N Range 371 E  
Willamette Meridian, Oregon.

Survey commenced Sept 26, 1881  
with Light Mountain Transit  
with Solar attachment.

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From the Cor. to Tps 1 <sup>2</sup>/<sub>4</sub> 2  
N. Rs. 236 <sup>and</sup> 37 E, I ran  
East on a ~~spindown~~ line bet-  
ween said Townships, the  
variation of my compass  
being  $19^{\circ} 30'$  East. At this Cor. I  
set temporary mile and half  
mile corners at each 40  
and 80 chains and find  
the township line to be  
6 Miles 20 chs and 58 links  
long, and the falling to be  
46 links north of the Cor. to  
Tps 1 <sup>2</sup>/<sub>4</sub> 2, N. Rs. 37 <sup>and</sup> 38 E.  
The correction for the true  
line will therefore be  
 $7\frac{2}{3}$  lks south and 20.58 chs

2

Exteriors of Township No. 2 N Range 37 E.  
Willamette Meridian, Oregon.

note

east per mile and  
its course will be  
N 89°<sup>57</sup>~~56~~ W.

---

From the cor to T<sup>1</sup> & 2  
R 37 & 38 E. which is a  
post 4 ft long 5 ins square  
Marked

T 2 N S 31 on N.E.

R 38 E & 6 on S E.

T 1 N S 1. on S W and

R 37 E S 36 on N.W. faces  
with 6 notches on each

edge, bearing true described <sup>establish</sup> when

I run

---

chains

North 89°<sup>57</sup>~~56~~ W on a true line  
bet. Secs 1 & 36. (ba 28°15'  
Ascend gradually through  
fir timber and windfall  
Undergrowth and

16.00

Exteriors of Township No. 2 N Range 3 37 E  
Willamette Meridian, Oregon.

Chain W.	Scattering fir timber ascend abruptly
40.00	Set post $3\frac{1}{2}$ ft long 3 ins square $1\frac{1}{2}$ ft in ground, Marked $\frac{1}{4}$ S on N & S faces for $\frac{1}{4}$ Sec Cor from which A fir 30 ins diam bears S $21^{\circ}$ E 43 lbs dis marked $\frac{1}{4}$ S, B, T. A fir 24 ins diam bears N $72^{\circ}$ W 56 lbs dis marked $\frac{1}{4}$ S, B, T var. 24.15
52.00	Summit of Mountain ridge descend through heavy fir timber and dense undergrowth
64.00	Ascend slightly
74.00	Descend slightly
80.00	Set post 4 ft long 4 ins square 2 ft in ground for Cor to secs 1, 2, 35, & 36, in east mar- gin of small glade, marked Y 2 W S 36 on N. E. R 37 E S 1 on S E

E 374

4

Extremes of Township No. 2 N Range 37 E.

Willamette Meridian, Oregon.

71 N S 2 on SW  
D, 35, on N.W. faces and  
with one notch on E  
and 5 notches on W, edges  
Raised mound of stone  
around base of post  
18 in high and 3 ft diam  
at base from which

A fir 28 in diam bears N 76°  
E 79 lbs dist marked,

72, N. R., 37, E, S, 36, B, T

A fir 14 in diam bears S 34°  
E 140 lbs dist. marked -

71, N. R., 37, E, S, 1, B, T

A pine 24 in diam bears S  
59° W 98 lbs dist marked

71, N. R., 37, E, S, 2, B, T

A pine 8 in diam bears N  
55° W 80 lbs dist marked -

72, N. R., 37, E, S, 35, B, T

Land mountainous soil gravelly 3<sup>rd</sup> rate  
timber pine, Tamarac & fir

Exteriors of Township No. 2 N Range 375 E,  
Willamette Meridian, Oregon.

Chs	N 89° 58' <sup>7</sup> W on a true line bet sec 2 & 35
	Pa 21° 30' E
	Descend
1.00	Enter fir timber, dense under- growth of same
14.50	Bottom of ravine, Spring branch course N. E.
	Ascend through heavy timber windfall and dense undergrowth
24.25	Descend gradually
32.00	Bottom of ravine ascend
40.00	Marked fir tree 14 in diam 1/4 S on N & S faces for 1/4 sec cor. 10 ft below summit of ridge on east side of ridge Course of ridge N. & S.
	A fir 8 in diam bears N 3 W 27 the dist marked - 1/4 S B 7 from white
	A pine 26 in diam bears

E 376  
Exterior

6

of Township No. 2 N Range 37 E

Willamette Meridian, Oregon.

Chains N 89 58<sup>1</sup>/<sub>2</sub> S, 10° E, 18 lks, dist.  
marked 14, 5, 13, 3,  
over 22°

41,50

Summit of ridge  
Brink of canyon chain-  
ing impracticable  
Measure with micrometer  
to 70.25 across rocky  
timbered canyon and  
dense undergrowth.

70.25

Ascend through scatter-  
ing fir timber

80,00

Set post in mid of stone  
on summit of ridge  
supposed to be the  
divide between the  
head waters of the  
Amatillo River and  
Meacham Creek.

post is 4 ft long  
4<sup>1</sup>/<sub>2</sub> in square

7

377

Extensions of Township No. 2 N Range 37 E  
Willamette Meridian, Oregon.

1 ft in ground marked  
for cor to secs 2, 3, 35, & 36,  
T 2 N, S 35 on N E  
R 37 E S 2 on S E  
T 1 N S 3 on S W and  
S 34 on N, W faces with  
2 notches on E and 4 notches  
on west edges from which  
A bearing fir 24 in diam bears S  
10° E 1.36 lks dist marked -  
T. 1. N. R. 37. E. S. 2. B. 7  
A fir 12 in diam bears N 34°  
W 70 lks dist marked -  
T. 2. N. R. 37. E. S. 34 B. 7  
A fir 16 in diam bears S 36°  
W. 92 lks dist marked -  
T. 1. N. R. 37. E. S. 3 B. 7  
Land, mountainous rough  
and broken no other trees in limits  
Soil lava gravelly and stony  
Timber fir spruce & pine.

378

8

Exterior of Township No. 2 N Range 37 E

Willamette Meridian, Oregon.

Chains <sup>Wagon</sup> N.  $89^{\circ} 57'$  ~~58'~~ W. on true line bet  
Sec 3 & 34

bar  $21^{\circ} 30'$

Slight descent  
Descend abruptly into  
rugged canyon use  
micrometer to 40.00 on

5,00

40

opposite side of canyon  
Set post  $3\frac{1}{2}$  ft long 3 ins  
square on east slope of  
Mt in heavy fir timber,  
post 18 in. inground marked  
 $\frac{1}{4}$  S for  $\frac{1}{4}$  sec cor from which

40,00

A fir 24 in diam bears  $S 8^{\circ}$   
W 15 lbs dist marked  $\frac{1}{4}$  S, B, T.  
A fir 24 in diam bears  $N 29^{\circ} E$   
14 lbs dist marked  $\frac{1}{4}$  S B, T.

55,00

Summit of ridge c N. & S.  
900 ft above bottom of  
canyon just passed  
Descend



Exterior of Township No. 2 N Range 37 E  
Willamette Meridian, Oregon.

Chs

W

var 17° 30'

66.00

80.00

Bottom of ravine. ascend  
 Set post 4 ft long 4 in square  
 1 ft in ground and raised ~~at~~  
 mound of stone around its  
 base 3 ft in diam and  
 1 1/2 ft high for cor to secs  
 34, 33, & 34, in glade on  
 ridge, from which  
 A fir 20 in diam bears S. 85° W.  
 295 lks dist marked  
 T. 1, N. R. 37, E, S 4 B, T.  
 The above post is marked  
 T 2 N S 34 on N. E.  
 R 37 E S 3 on S E  
 T 1 N S 4 on S W and  
 S 33 on N W faces with 3  
 notches on E & W edges  
 Land mountainous broken & Rocky  
 Soil rocky ridges barren  
 Timber fir pine & tamarack

Exterior<sup>380</sup> of Township No. 2 N. Range 37 E.

Willamette Meridian, Oregon.

Chains	N, 89° 58' 47" W on true line bet, secs 4 & 33 Pa. 21° 30'
3,50	Enter timber, descend
10,50	Bottom of ravine, ascend
20,00	Summit glade 2 chs wide descend
40,00	Spring branch course <del>N E</del>
	Set post 3½ ft long 3 in square 1½ ft in ground marked 1/4 S for 1/4 sec cor on west bank of said stream, from which A tamarack 24 in diam bears S, 22° W 14 lbs dist marked 1/4 S, B, J, A fir 12 in diam bears N 26° E 13 lbs dist marked 1/4 S B J
	Ascend up ravine

Exteriors of Township No. 2 N Range 3, 381  
Willamette Meridian, Oregon.

chains W

53.00

through alder thicket  
ascend abruptly

54.50

Glade 2 chs. wide

80.00

Set post 4 ft long  $4\frac{1}{2}$  in diam  
2 ft in ground for cor to  
Secs 4, 5, 32, & 33, in glade  
Sloping N.W.

Post is marked

T 2 N S 33 on N E

R 37 E S 4 on S E

T 1 N S 5 on S W and

S 32 on N.W. faces with  
4 notches on E and 2 notches  
on W. edges, from which

A fir 16 in diam bears S  $39^{\circ}$  W,  
100 lks dist marked —

T 1 N R 37 S <sup>5</sup> B 7

A fir 24 in diam bears N  
 $38^{\circ}$  E, 130 lks dist marked —

T 2 N R 37 S 33 B 7

A fir 12 in diam bears N

Exteriors

12

of Township No. 2 N. Range 37 E.

Willamette Meridian, Oregon.

no other trees in pits + raised mound of stone alongside  
20° W 48 links dist marked  
T. 2. R. 37 E. S. 32 B. 7.  
Land mountainous and broken.

Soil rocky and worthless at  
rate, barren ridges,  
Timber fir pine + spruce,

Chains <sup>59</sup> N 89° 58' W on a true line bet  
secs 5 + 32

Pa. 24° E

Descend

2.00

Fir timber and underbrush

8.00

Glade 1.50 <sup>chs</sup> wide.

18.00

~~Ascend~~

15.00

Summit of ridge course  
N + S

Descend through timber and  
undergrowth

19.00

Enter glade 2.50 chs wide

30.00

Spruce branch course N

Exterior of Township No. 2 N Range 37 E

Willamette Meridian, Oregon.

Chains	W	Ascend abruptly
40.00		Set post $3\frac{1}{2}$ ft. long 3 in sq marked $\frac{1}{4}$ S on N & S faces for $\frac{1}{4}$ Sec Cor with mound of stone about the base of post, in center of glade 100 chs wide. Mound of stone 3 ft base 18 in high A fir 36 in diam bears N $46^{\circ}$ E. 88. lks dist marked $\frac{1}{4}$ S, B, 7. A pine 24 in diam bears S $82^{\circ}$ W 150 lks dist marked $\frac{1}{4}$ S, B, 7. Ba $13^{\circ}$ E
		Descend
48.70		Bottom of ravine Course N Ascend through windfall
79.00		Summit of ridge Course N & S
80.00		Set post 4 ft long 4 in square 2 ft in ground for cor to Secs 5, 6, 31, & 32. on west slope in dense fir & spruce timber. post is marked -

384  
Esters

14

of Township No. 2 N Range 37 E

Willamette Meridian, Oregon.

T. 2. N. S 32 on N E  
R 37 E S 5 on S E  
S 1 N S 6 on S W and  
S 31 on N W. faces with  
5 notches on east and one  
notch on west edges from  
A spruce 18 in diam bears  
N 68° E. 13. lks dist Marked -  
T 2 R 37 E S 32 B. 7.  
A fir 15 in diam bears N 46° W  
26 lks dist marked  
T. 2. N R 37 E S 31 B. 7.  
A spruce 15 in diam bears S  
60° E. 21 lks dist marked  
T. 1. N. R. 37. E. S 5 B. 7.  
A spruce 18 <sup>in</sup> diam bears S 28°  
W. 24 lks dist marked -  
T 1 N R 37 E S 6 B. 7.  
Land, Mountainous & Broken  
Soil, rocky 4<sup>th</sup> rate  
Timber fir spruce & pine

15

Exteriors of Township No. 2 N Range 38, 5E  
Willamette Meridian, Oregon.

Chain N  $89^{\circ}58'$ <sup>57</sup> W on a true line bet  
secs 6. & 31.

ba.  $22^{\circ}$

Descend

12.00

Bottom of ravine, ascend

40.00

Set post  $3\frac{1}{2}$  ft long 3 in square  
18 in in ground marked  $\frac{1}{4}$  S  
on N & S faces for  $\frac{1}{4}$  Sec Cor,  
on north east slope near  
w. margin of alder thicket  
in heavy timber

A fir 46 in diam bears N  $40^{\circ}$   
E. 6 lbs dist - marked  $\frac{1}{4}$  S B. T.

A fir 15 in diam bears S.  $74^{\circ}$   
W 50 lbs dist - marked  $\frac{1}{4}$  S. B. T.

68.00

Summit of ridge Course N. & S.  
descend

74.00

Bottom of ravine Course North  
Ascend

84.00

Barren table land

97.00

Enter timber gradual descent

386

16

Extremities of Township No. 2 N Range 37 E

Willamette Meridian, Oregon.

Chains  
100.58

W

Township cor to Tps 1 & 2  
N. Rs. 36 & 37, E.

Land, mountainous and  
broken.

Soil, rocky 4th rate

Timber Fir tamarack  
and spruce

Sept 28, 1881

Thence

North bet, Secs. 31, & 36.

Bar  $19^{\circ} 30' E$

Slight ascent through heavy  
timber

5.00

Enter glade barren table  
land

17.50

Descend abruptly through  
dense timber & under  
growth

20.00

Descend gradually

40.00

Set post  $3\frac{1}{2}$  ft long 3 in  
square 18 in in ground



FINAL OATHS FOR SURVEYS.

A list of the names of the individuals employed by Jacob E. Cooper, U. S. Deputy Surveyor, to assist in running, measuring and marking the lines and corners described in the foregoing field notes of the survey of the Exterior lines of T2 N Rs 37 & 38 E and T3 N Rs 38 & 39 E Willamette Meridian, Oregon, showing the respective capacities in which they acted:

- ....., Compassman.
- C. D. Goodrough....., Chainman.
- R. D. Cooper....., Chainman.
- ....., Chainman.
- ....., Chainman.
- R. M. Morgan....., Axeman.
- John DeBlair....., Axeman.
- ....., Flagman.

FINAL OATHS OF ASSISTANTS.

We hereby certify that we assisted Jacob E. Cooper, U. S. Deputy Surveyor, in surveying all those parts or portions of the Exterior lines of T2 N Rs 37 & 38 E and T3 N Rs 38 & 39 E Willamette Meridian, Oregon, as are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the U. S. Surveyor General of Oregon.

- ....., Compassman.
- C. D. Goodrough....., Chainman.
- R. D. Cooper....., Chainman.
- ....., Chainman.
- ....., Chainman.
- R. M. Morgan....., Axeman.
- John DeBlair....., Axeman.
- ....., Flagman.

Subscribed and sworn to before me, this 13<sup>th</sup> day of October 188

[SEAL.]

Robert J. Hale  
Notary Public  
for Oregon

## FINAL OATH OF DEPUTY SURVEYOR.

I, Jacob C. Cooper

United States Deputy Surveyor, do solemnly swear that in pursuance of instructions

received from James C. Tolman

U. S. Surveyor General for Oregon, bearing date of the first day of

July, 1881, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the U. S. Surveyor General for Oregon, the Surveying Manual, and the laws of

the United States, surveyed all those parts or portions of the exterior lines

of T2 NRs 37 & 38 E & T3 NRs 38 & 39 E

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

Jacob C. Cooper  
U. S. Deputy Surveyor.

Subscribed and sworn to before me, this ten~~th~~

day of January

1882

Edmond H. Lewis

Notary Public

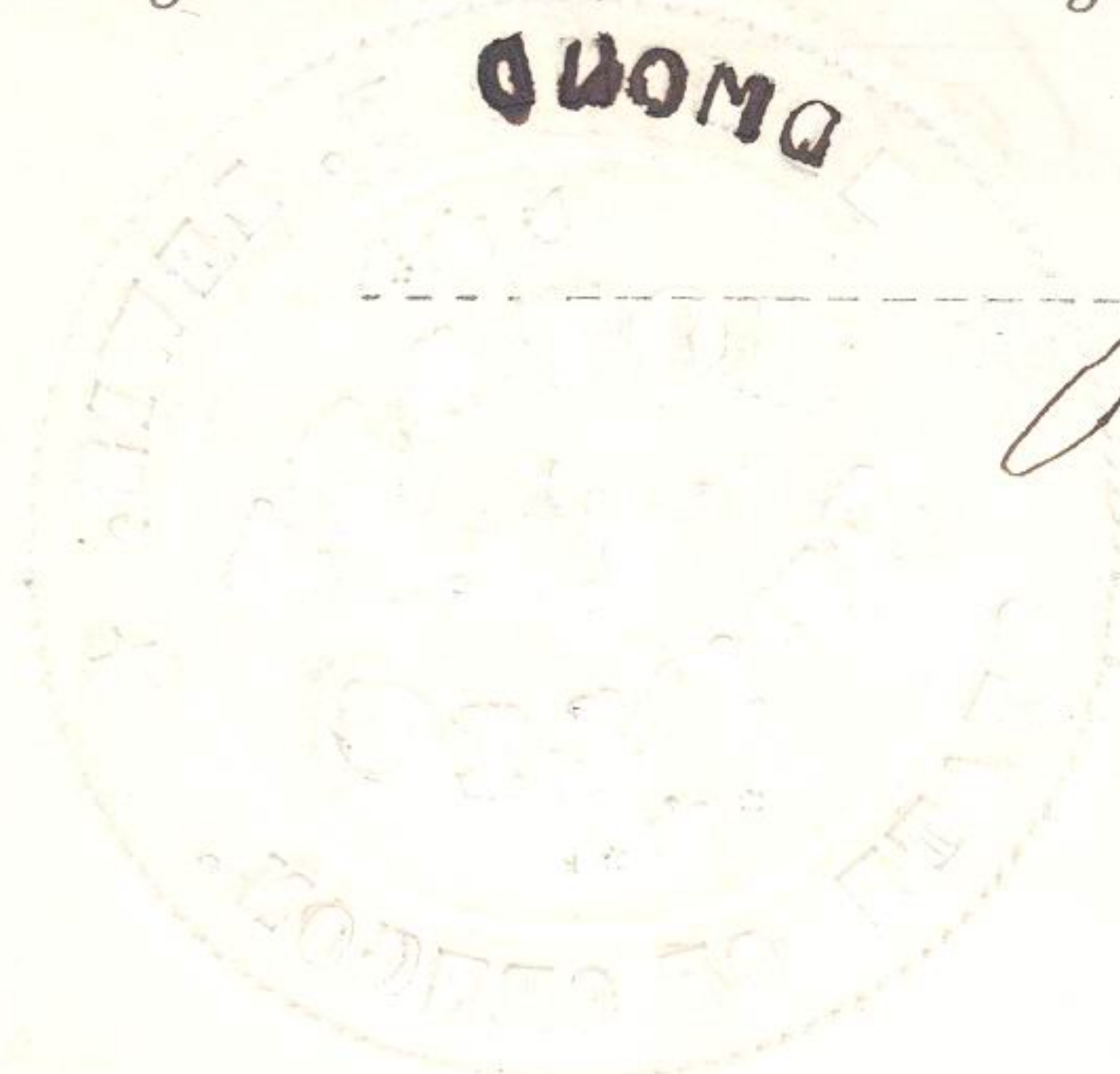
470

*foregoing*

**Office U. S. Surveyor General,**

Portland, Oregon, *April 5,* 1882

The following Field Notes of the Survey of the  
*Exterior lines of*  
*T. 2<sup>d</sup> and N. R. 37, 38, 39 E*  
*T. 3 N. R. 38 and 39 E Willamette*  
 executed by *Jacob C. Cooper*  
 under *his* contract No. *397*  
 dated *July 1<sup>st</sup>* 1881, having been  
 critically examined, the necessary corrections and ex-  
 planations made, the said field notes and the survey  
 they describe, are hereby approved.



*James C. Tolson*  
 Surveyor General.