

FIELD NOTES

441

Of the survey of the First Standard Parallel
North ~~Lines of~~ through Rgs 39, 40, 41,

42, 43, 44, 45, 46, 47 and 48 Willamette Meridian,

Oregon, as surveyed by Rufus S.

Moore, U. S. Deputy Surveyor,

under his Contract No. 437, dated

June 3^o 1882, 1882

Survey commenced, June 16^o 1882

Survey completed, July 3^o 1882

NAMES AND DUTIES OF ASSISTANTS.

....., Compassman.

William Jordan....., Chainman.

J. M. Heckart....., Chainman.

James Gutteridge....., Chainman.

John Gutteridge....., Chainman.

Joe Parodi....., Axeman.

....., Axeman.

....., Flagman.

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PRELIMINARY OATHS OF ASSISTANTS:

We, William Jordan, J. M. Beckart

James Guttridge and John Guttridge
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 First Standard Paralled North through
the Range lines of Townships No. 39, 40, 41,
42, 43, 44, 45, 46, 47, 48 East Willamette Meridian, Oregon.

William Jordan, Chainman.

J M Beckart, Chainman.

James Guttridge, Chainman.

John Guttridge, Chainman.

Subscribed and sworn to before me, this Fifteenth

day of June 1882.

[SEAL.]

Rufus S. Moore
Notary Public's

We, _____ and _____

J Joe Parodi, 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 First Standard Paralled North through
Range No. 39, 40, 41, 42, 43, 44, 45, 46, 47 ^{+ 48 East} Willamette Meridian Oregon.

Joe Parodi, Axeman.

_____, Axeman.

Subscribed and sworn to before me, this Fifteenth

day of June 1882.

[SEAL.]

Rufus S. Moore
Notary Public's

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~~446~~

~~447~~

~~448~~

~~449~~

450

of T.

R.

Willamette Meridian, Oregon.

First Standard Parallel North

Index referring the lines to the pages of the field notes

R. 39 E.

31	32	33	34	35	36
2	5	7	9	11	14
6	5	4	3	2	1

R. 40 E.

31	32	33	34	35	36
17	19	21	23	25	27
6	5	4	3	2	1

R. 41 E.

31	32	33	34	35	36
15	17	19	21	23	25
6	5	4	3	2	1

R. 42 E.

31	32	33	34	35	36
15	17	19	21	23	25
6	5	4	3	2	1

R. 43 E.

31	32	33	34	35	36
59	61	63	65	67	69
6	5	4	3	2	1

R. 44 E.

31	32	33	34	35	36
74	76	79	80	83	88
6	5	4	3	2	1

R. 45 E.

31	32	33	34	35	36
87	90	93	95	98	100
6	5	4	3	2	1

R. 46 E.

31	32	33	34	35	36
119	121	124	126	128	129
6	5	4	3	2	1

R. 47 E.

31	32	33	34	35	36
132	134	136	137	137	137
6	5	4	3	2	1

R. 48 E.

31	32	33	34	35	36
138	140	142	144	146	147
6	5	4	3	2	1

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1st Stand Parl N ~~of T.~~ through R. 39 East

Willamette Meridian, Oregon.

On the night of June 15th - 1882
Before commencing this survey
I took an observation on the
star Polaris at its eastern
elongation, the next morning
I compared my compass with
the line thus established
and find it correct.

Beginning at the
Standard Cor. to Sps 4 + 5
N. Rqs 38 + 39 E. The witness
trees are still standing but
the old cor. has been oblit-
erated which I establish by
setting a basalt stone
18 x 15 x 12 ins 12 ins in the
ground marked S. C. and
with 6 notches on the North
East and West faces,

from which
a Fir 5 in dia bears N. 35° E
32 lks dist marked. S. 5 N.

1st Std Parl N. of T. through R. 39 East
Willamette Meridian, Oregon.

R. 39 E. S. 36 B.A.

a yellow Pine 22 in dia
bears N. 43° W, 13 lks dist mark-
ed S. 5 N. R. 38 E. S. 36 B.A.

a yellow Pine 44 in diam
bears S. 20° W, 4 lks. dist
marked S. 4 N. R. 38 E. S. 6 B.A.

E. on S. bdry of Sec. 31.
Var. 20° 30' E.

I find it will be im-
possible to chain E. across
cañon. I therefore send fl
ahead and run base of
250 lks N. which gives an
angle of 3° 35' which by
Nat. sines and cosines gives

39.92 To flag

fine :	cosine "	lks :	lks
.0625	9980	250.	39.92

8.70 S. fork of Walla Walla river

1st 1/4 Part N of T. through R. 39 East
Willamette Meridian, Oregon.

40 rods wide runs S.W. 500
ft below flag.

Ascend from river,

15.00 Branch 5 rods wide runs N.W.
300 ft above river

I then measure E. 8 rods from
flag to

40.00 Set a basalt stone 20 x 10 x 6
ins 15 ins in ground for
1/4 sec bar marked S.C. 1/4 on N.
face from which
a yellow Pine 18 in dia bears
S. 70° E. 162 rods dist marked
S.C. 1/4 S.B.T.

A yellow Pine 44 in dia bears
N. 20° E. 10 rods dist marked ^{S.C.} 1/4
S.B.T.

steep ascend,

78.00 Top of ridge bears N.W. and
S.E. 1000 feet above 1/4 sec bar,

80.00 Set a fir post 4 1/2 ft long
4 in square 24 in in ground

1454 Std Paul N. of T. through R. 39 East,

Willamette Meridian, Oregon,

for Standard Cor. to Secs.
31 & 32 marked S. 5 N on
N. S. 31 on W. and S. 32 on E
faces with 5 notches on E,
and W. faces

from which
A Fir 10 in dia bears N. 59° E,
18 lks dist marked ^{S.C.} S. 5 N.
R. 39 E. S. 32 B.S.

A Fir 25 in dia bears N. 38°
W. 24 lks dist marked ^{S.C.} S. 5
N. R. 39 E. S. 31 B.S.

A Fir 6 in dia bears S. 12° E
30 lks dist marked ^{S.C.} S. 4 N. R.
39 E. S. 6 B.S.

Land rugged broken and
mountainous, Soil 4th rate
and stony, Thick Fir Tama-
rack and pine and dense
undergrowth of fir, tamarack, pine
and huckleberry and maple,

1st Std Part No. 7. through R. 39 East
 Willamette Meridian, Oregon

E. on S. bdy of Sec. 32,
 Through timber,

Var. 20° E.

On account of steep hillside at
 6.00 Offset 300 lks S. thence 2500
 lks E. on offset thence E. on
 true line

31.50 Top of mountain ridge
 bears N and S, 500 ft above cor.
 and descend gradually,

40.00 Set a fir post 3 ft long
 3 in square 24 in in ground
 for Standard $\frac{1}{4}$ Sec cor. marked
 S.C. $\frac{1}{4}$ S. on N. face, 75 ft below
 top of mountain,

from which

a Spruce 15 in dia bears
 N. 10° W. 23 lks dist marked
 S.C. $\frac{1}{4}$ S.B.S.

a Fir 16 in dia bears S. 2° W
 22 lks dist marked S.C. $\frac{1}{4}$
 S.B.S.

1st Sid. Rail N. of F. through R. 39 East.

Willamette Meridian, Oregon.

62.00 Branch 4 lks wide runs S.W.
100 ft below cor.

42.97 Spruce 26 in dia.

80.00 Set a spruce post $4\frac{1}{2}$ ft
long 4 in square 24 in in
ground for Standard lev.
to Secs. 32 & 33, marked S.C.
T. 5 N. R. 39 E. on N. Sec. 33
on E. and Sec. 32 on W. faces,
with 4 notches on E. and 2
notches on W. faces
from which
a spruce 18 in dia bears
N. 18° E 17 lks. dist. marked S.C.
T. 5 N. R. 39 E. S. 33 B.S.

a spruce 34 in dia bears
N. 32 W. 41 lks dist marked
S.C. T. 5 N. R. 39 E. S. 32 B.S.

a spruce 26 in dia bears
S. 67° E. 27 lks dist marked
S.C. T. 4 N. R. 39 E. S. 5 B.S.

Land high and mountainous. Soil

1st Std. Pail No. of T. through R. 39 East
Willamette Meridian, Oregon.

third and fourth rate,
Heavily timbered with
spruce, fir, tamarack and
pine timber, and dense
undergrowth of tamarack,
maple, spruce, fir & pine.

E. on S. bdy of Sec. 33,
Through heavy timber,
Var. 21° 45' E.

2,277 Branch 7ers wide runs SE. 20
ers below cor. and ascend to

2,777 Branch 3ers wide runs S.W. and
ascend to

40,000 Set a fir post, on top of ridge,
3ft long 3in square 24in in
ground for Std 44 Sec. cor., bears
N and S. 1000 ft above branch, post
marked S. 44 S. on North face
from which
a Fir 12 in dia bears N. 12° N. 68

1st Std Paul N. of T. through R. 39 East
 Willamette Meridian, Oregon,

ers dist marked sb. 74 S. B. J.

A Spruce 22 in dia bears S. 6° E.

14 ers dist marked sb. 74 S. B. J.

and descend to

50.90 Ravine course S. 200 ft below
 Cor. and ascend to

75.00 Top of mountain bears N + S.
 300 ft above ravine

80.00 Set a spruce post 4 ft long
 4 in square 24 in in ground
 for Std Cor. to Secs. 33 and 34
 marked sb. J. 5 N. R. 39 E on
 N. S. 34 on E, and S. 33 on N. faces
 with 3 notches on E and W
 faces. from which

A spruce 10 in dia bears N.

25° E. 35 ers dist marked sb.

J. 5 N. R. 39 E. S. 34 B. J.

A spruce 14 in dia bears N. 56° W.

40 ers dist marked sb. J. 5 N.

R. 39 E. S. 33 B. J.

A spruce 34 in dia bears S. 73°

1st Std Parl N of T through R. 39 East 459

Willamette Meridian, Oregon.

E. 14 eks dist marked S. 6. S. 4
N. R. 39 E. S. 4 B. 1.

Land high and mountainous
soil 2^d and 3^d rate. Heavily
timbered with spruce, fir &
Tamarack timber and under-
growth of spruce, fir & Tamarack shrubs
June 16th - 1882

E. on S. Bdry of Sec 34.
var 21° 30' E.

Gradually descend through timber

23.21 Tamarack 36 in dia. 50 ft below Cor.

33.10 Branch of eks, ^{wide} runs S. E. 25 ft below
tree

34.50 Same branch of eks wide runs N 70° E
10 eks below last Branch,

37.00 Same branch of eks wide runs S. 70° E.
10 eks below last branch,

40.00 Set a fir post 3 ft long, 3 in square
24 in in ground for Std 1/4 Sec
Cor, marked S. 6. 1/4 S. on N. face.

1st Std Paul N ~~of T.~~ through R. 39 East
 Willamette Meridian, Oregon,

from which

a spruce 34 in dia bears N. 13 W.
 16 eks dist marked S. 6. 7/4 S. B. S.

A spruce 36 in dia bears N 13°
 W. 16 eks dist marked S. C 7/4
 S. B. S.

48.25 Branch 7 eks wide runs N.E.
 40 ft below Cor.

68.44 Branch 10 eks wide runs S.E.
 500 ft below last branch,
 and ascend.

75.00 Top of ridge bears N + S. 200
 ft above branch, and
 ascend to

80.00 Set fir post 4 ft long 4 in
 square 24 in in ground for
 Std Cor. to Secs 34 + 35, marked
 S. 6. S. 5 N. R. 39 E. on N face
 S. 35 on E + S. 34 on W. face. with
 2 notches on E. and 4 notches
 on W. face

from which

1st St' Paul ~~N. of T.~~ through R. 39 East,

Willamette Meridian, Oregon.

A Tamarack 40 in dia bears
N. 65° E. 4 lks dist marked
S. C. I. 5 N. R. 39 E. S. 35 B. I.

A Hemlock 36 in dia bears
N. 53° W. 70 lks. dist marked
S. C. I. 5 N. R. 39 E. S. 34 B. I.

A Hemlock 40 in dia bears
S. 80° E. 38 lks dist marked
S. C. I. 4 N. R. 39 E. S. 3. B. I.

Land high and mountainous
Soil 2^d and 3^d rate. Heavily
timbered with Spruce, Tama-
rack, Hemlock and fir. Dense
undergrowth of spruce, fir,
tamarack & hemlock 8000 chs.

E. on S. Bdry of Sec. 35.
Mar. 22^o E.

Descend to

9.11 Branch 7 lks wide runs S.E.

100 ft below lev. and ascent

15.50 Top of ridge bears N.W. + S.E.

1st Std Part N of T. through R. 39 East.

Willamette Meridian, Oregon,

- 150 ft above branch
- 21.00 Branch 3 lks wide runs SE.
- 100 ft below last branch
- 23.09 Brook 1 lk wide runs S.
- 37.45 Ravine course S. 50 ft below brook
- 40.00 Set fir post 3 ft long 3 in square
24 in in ground for Std $\frac{1}{4}$.
See cor. marked S. 6 $\frac{1}{4}$ S on
N. face
- from which
- A Spruce 34 in dia bears
S. 15° E. 16 lks dist marked
S. 6 $\frac{1}{4}$ S B $\frac{1}{2}$.
- A Fir 6 in dia bears N. 73° W.
46 lks dist marked S. 6 $\frac{1}{4}$ S,
B $\frac{1}{2}$.
- 70.59 Brook 2 lks wide runs SE.
100 ft below cor.
- 80.00 Set fir post 4 ft long 4 in
square 24 in in ground for
Std. cor. to sees 35 + 36 marked
S. 6 $\frac{1}{4}$ S N. R 39 E. on N. face, S. 36

W. St Paul N. of T. through R. 39 E. 463
Willamette Meridian, Oregon.

on E. and S. 35 on W. faces with
1 notch on E. and 5 notches on
W. faces.

from which

A Fir 24 in dia bears N. 28° E.
95 lks dist marked S. 6. S. 5 N.
R. 39 E. S. 36 B.S.

A Fir 36 in dia bears N. 30° W.
30 lks dist marked S. 6. S. 5 N.
R. 39 E. S. 35 B.S.

A Spruce 4 in dia bears S. 47° E.
101 lks dist marked S. 6. S. 4
N R. 39 E. S. 2 B.S.

Land high and mountainous
soil 3d rate.

Heavily timbered with
spruce fir and Tamarack
Hemlock and Pine timber
and dense undergrowth
of spruce, fir, tamarack
hemlock & pine 80.00 chs

464
 1st Std Paul N of T. through R. 39 E,
 Willamette Meridian, Oregon,

E. on S. b'dry of Sec. 36,
 Var $21^{\circ} 45' E$,

10.26 Brook 3 lks wide runs S.E.

12.26 Creek 15 " " " South
 and ascend to

29.92 Branch 5 lks wide runs
 N.W. 400 feet above creek

40.00 Set a fir post 3 ft long
 3 in square 24 in in ground
 for Std 1/4 Sec. Cor. 200 ft above
 Branch, marked S. 6 1/4 S. B. S.
 from which

a Spruce 36 in dia bears $N 32^{\circ}$
 W. 25 lks dist marked S. C.
 1/4 S. B. S.

a Fir 14 in dia bears $S. 61^{\circ}$
 W. 33 lks dist marked S. C.
 1/4 S. B. S.

47.09 Branch 4 lks wide runs N.W.
 100 ft above cor.

67.69 Sawtooth 40 in dia 100 ft
 above branch

1st 1/2nd Std Rail N. & T. through R. 39 East,
 Willamette Meridian, Oregon

8000 Set a Fir post $4\frac{1}{2}$ ft long
 4 in square 24 in in ground
 for Cor. to Sps 5 N. Rqs 39
 and 40 E. marked S. C. S. 5
 N. on N. R. 40 E. S. 31 on E and
 R. 39 E. S. 36 on W faces with
 6 notches on the N.E. and W
 faces. from which
 a Spruce 26 in dia bears
 N. 18° E. 112 lks dist marked S. C.
 S. 5 N. R. 40 E. S. 31 B. S.
 a Spruce 30 in dia bears
 N. 13° W. 25 lks dist marked
 S. C. S. 5 N. R. 39 E. S. 36 B. S.
 a spruce 36 in dia bears
 S. 270° W. 43 lks dist marked
 S. C. S. 4 N. R. 39 E. S. 1 B. S.
 Land high and mountainous
 Soil 2^d and 3^d rate. Heavily
 timbered with spruce, Tamarack
 Fir and Hemlock, and dense under-
 growth of fir, spruce, hemlock ^{tamarack and} alder 80, chs
 June 17th - 1882

General Description

This line through Range 39 East is high and mountainous. The townships on either side are heavily timbered with fir, spruce, tamarack and hemlock of good quality, and are well watered by numerous Springs and Brooks,

1st Standard Parallel

North through Range
Number 40 East.

1st Stand. Pa. N. of ~~T~~ through R. 40 East
Willamette Meridian, Oregon

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Q. on S. bdy of Sec. 5,
Var. $21^{\circ} 45' E$.

20.00 Top of hill bears N + S. 150
feet above cor.

23.00 Descend hill bears N.E. + S.W.

38.40 Brook 1 ek wide runs S.E.,
100 feet below hill

40.00 Set a spruce post 3 ft
long 3 in square 2 1/4 in in
ground for std 1/4 sec. cor.
marked S. C. 1/4. S. on N. face
from which

A spruce 40 in dia bears
N. $52^{\circ} E$. 30 eks dist marked
S. C. 1/4 S. B. S.

A spruce 50 in dia bears
S. $19^{\circ} W$. 30 eks dist marked S. C.
1/4 S. B. S.

42.39 Branch 2 eks wide runs S.E.

57.00 " " " " " " S.E.
100 eks below last branch

57.50 Brook 2 eks wide runs South.

General Description of W. 1st Staud Park N., from R. 39 to 48^e
Willamette Meridian, Oregon, (included)

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This line passes over the summit of the Blue Mountains and the breaks of the Grande Ronde & Snake Rivers,

The Tps on either side are very mountainous, rough and broken, through Ranges No. 39 & 40 East. The mountains are very heavily timbered with a dense growth of Fir, Spruce, Tamarack and Hemlock of good quality, as the summit of the mountains is in Ranges 39 & 40 East, the timber is very large and thrifty.

East of the Grande Ronde River which runs through Range No. 41 East the country is not so high and timber is not so dense

Gen. Des. of 1st Std of T. Pacif Nitro: Rgs 39 to 48 E ⁵⁹¹
Willamette Meridian, Oregon. (inclusive)

and the country is more open and the line passes over a succession of deep canons and high ridges and very little table land.

The canons are all leading North, and are almost impassable, but contain small streams of pure cold water, which are the tributaries of the Grande Ronde and Snake Rivers, The soil can be classed as 2nd 3^d & 4th rate Bunch grass grows in abundance through Ranges 47 and 48 East.

The line approaches Snake River at a point about 1/4 mile below the mouth of Salmon River,

FINAL OATHS FOR SURVEYS.

A list of the names of the individuals employed by.....

Rufus S. Moore, 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 *First Standard Parallel North* through the *Range* lines of *Townships No. 39, 40, 41, 42, 43, 44, 45, 46, 47, 48* East of *Willamette Meridian, Oregon*, showing the respective capacities in which they acted :

-, **Compassman.**
- William Jordan*....., **Chainman.**
- J. M. Heckart*....., **Chainman.**
- James Guttridge*....., **Chainman.**
- John Guttridge*....., **Chainman.**
- Joe Parodi*....., **Axeman.**
-, **Axeman.**
-, **Flagman.**

FINAL OATHS OF ASSISTANTS.

We hereby certify that we assisted *Rufus S. Moore*....., U. S. Deputy Surveyor, in surveying all those parts or portions of the *First Standard Parallel North* through *Ranges No. 39, 40, 41, 42, 43, 44, 45, 46, 47, & 48* East of *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.**
- William Jordan*....., **Chainman.**
- J. M. Heckart*....., **Chainman.**
- James Guttridge*....., **Chainman.**
- John Guttridge*....., **Chainman.**
- Joe Parodi*....., **Axeman.**
-, **Axeman.**
-, **Flagman.**

Subscribed and sworn to before me, this *Tenth*..... day of *August*..... 188*2*.

[SEAL.]

Rufus S. Moore.....
Notary Public.....

FINAL OATH OF DEPUTY SURVEYOR.

I, Rufus S. Moore

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 Third day of

June, 1882, 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 1st Standard Parallel N. through Ranges 39, 40, 41, 42, 43, 44, 45, 46, 47 & 48 East of

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.

Rufus S. Moore

U. S. Deputy Surveyor.

Subscribed and sworn to before me, this 10th

day of February, 1883.

Bamford Robb

Notary Public

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Office U. S. Surveyor General,

Portland, Oregon, *April 11th* 1883

The following Field Notes of the Survey of the
First Standard Parallel North through
Ranges 39. 40. 41. 42. 43. 44. 45. 46
47 and 48 East. Willamette Meridian Or.
executed by *Rufus S. Moore*
under *his* contract No. *437*
dated *June 3* 1882, 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. Tolman

Surveyor General.

