

FIELD NOTES

99

Of the survey of the Exterior

Lines of T. 3 S. R. 35 E., T. 2 S. R. 35 E., T. 1 S. R. 35 E.

T. 1 S. R. 34 E., T. 1 S. R. 37 E., T. 1 N. R. 38 E., Willamette Meridian,

Oregon, as surveyed by Jacob C

Cooper, U. S. Deputy Surveyor,

under his Contract No. 397, dated

July 1, 1881

Survey commenced, Aug 22 1881

Survey completed, Sept 27 1881

NAMES AND DUTIES OF ASSISTANTS.

....., Compassman.

W J Slater....., Chainman.

Jeff D Henton....., Chainman.

R. D. Cooper....., Chainman.

Chas W Ladd....., Chainman.

C D Goodrough....., Axeman.

R. M. Morgan....., Axeman.

....., Flagman.

100

PRELIMINARY OATHS OF ASSISTANTS:

We, Riley D. Cooper and
Charles W. Ladd

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. 1. S. R. 37. E. and
T. 1. N. R. 37. T. 38. E. Willamette Meridian, Oregon.

R. D. Cooper, Chainman.
Charles W. Ladd, Chainman.
_____, Chainman.
_____, Chainman.

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

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

We, Chas D. Goodnough and
Rufus M. Morgan

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 lines of T. 1. S. R. 37. E.
and T. 1. N. R. 37. T. 38. E. Willamette Meridian Oregon.

Chas D Goodnough, Axeman.
Rufus Morgan, Axeman.

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

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

STATE OF OREGON,

County of Union.

ss.

101

We Jeff D Fenton & W. P. Slater
R. M. Morgan, & C. D. Goodnough
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
the instructions given us in the Survey of Exterior
lines of Townships 1, 2 ^{and} 3 South Range 35 East
of Townships 1 South Ranges 36 ^{and} 37 East
of Townships 1 North Ranges 37 ^{and} 38 East
Willamette Meridian Oregon

Jeff D Fenton

Chairman

W. P. Slater

Chairman

R. M. Morgan

Chairman

C. D. Goodnough

Chairman

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

Geo. W. King
Notary Public
for Oregon

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 Exterior lines of Townships East 3 South Range 35 East, of Townships & South Ranges 36th & 37 East of Township & North Ranges 36th & 37 East Willamette Meridian Oregon

R M Morgan
C D Goodnough

Assessor
Assessor

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

Geo. M. King

Notary Public for Oregon.

132

E242

of T.

1^{1/2}

R.

38E

Willamette Meridian, Oregon.

Baseline
From cor. to Tps. 1^{1/2} Sec. 37 and 38
E. which is a post decayed and
rotten. I set a new post marked
H1^{1/2} on N^{1/2}

R. 38E S 31 on E.

R. 37E. S 36 on W. and with
~~S 36 on the N. W. face with~~
notches on N. E. and W. faces from
Aspruce 5 in diam bears
N 60° W 61 lbs dist marked
H1^{1/2} R. 37E S 36 B.F.

Aspruce 5 in diam bears
N 20° E 58 lbs dist marked
H1^{1/2} R. 38E S 31 B.F.

Aspruce 12 in diam bears
S 45° W 20 lbs dist marked.
H1^{1/2} R. 37E S 1 B.F.

I run.

N. bet secs 31 and 36.
Va 18° 15' E.

- Chains Ascend through dense buck brush
and young pine timber.
- 5.00 Glade.
- 8.00 Enter timber Descend.
- 28.00 Spring branch, course W
Ascend.
- 31.00 Glade
- 40.00 Set post 3 1/2 ft long 3 ins square
16 ins in the ground for 1/4 Sec. cor.
marked 1/4 S on E and W faces.
on S hillside in sage brush.
20 ft above bottom of ravine.
A fir 16 ins diam base
87° E. 32 lbs dist marked 1/4 S B. L. no
other trees in limits and raised mound of stone along side
Va 18° 30' E.
- 50.00 Top of ridge Course N. and S.
- 74.00 Descend gradually along barren
side of mountain sloping E.
- 80.00 Set post 4 1/2 ft long 4 ins square
2 ft in the ground, on E side
of ridge, 60 ft below the summit

134

244

Sections

of T.

1 N.

R.

38 E

Willamette Meridian, Oregon.

Chain

in small cherry thicket near
western point of timber for cor to
secs. 25, 30, 31 and 36. marked
T1 N. S 30 on N.E.

R 38 E S 31 on S.E.

R 37 E S 36 on S.W and

S 25 on the N.W face with
1 notch on the S and 5 notches on
the N edges from which

A fir 30 ins diam bears

N 56° E 130 lks dist marked

T1 N R 38 E S 30 B.T.

A fir 30 ins diam bears

S 82° E. 104 lks dist marked

T1 N R 37 E S 31 B.T. no other trees in

limits

raised groups of stumps along side

Land high, mountainous and
broken.

Soil rocky 4th rate

Timber, pine, fir and tamarack.

Sept 19 1881.

Extensive of T 1 N R. 38 E

Willamette Meridian, Oregon.

Chain No. bet sec 25 and 30

Val 16° 45' E

200

966

Brink of gravelly slide sloping E.
A craggy fir tree 20 in diam on
point of ridge, course E and W.
The point of this ridge brings
us to the verge of a succession
of steep rocky canyons. Course E.
Chaining impracticable, therefore
I blazed said fir tree distinctly
on the N. side for flag. I sighted a
small fir tree on high peak ahead
on N. and go round to said small
fir tree, and run a base of 14.50 chs.
which I gave an angle of 7° from
blazed fir tree on the S. making
the distance 118.11 chs. where I
erected a mound of stone 3 1/2 ft
at base 18 ins high 4000 ft above
Grand Ronde valley.

A fir 8 ins diam base. N 89° W

E46

136.

Extensive

of T. 1 N.

R. 38 E

Willamette Meridian, Oregon.

Chains

~~No. 320~~ lbs dist marked
 T1 N. R. 37 E S24. W. L. B. J.
 Land high and rugged in
 the extreme
 Soil rocky 4th rate.
 Timber fir.

N. bet. secs 19 and 24

Pa. $20^{\circ}15' E$

47.77

Mound of stone at N. end of
 triangulation mentioned in
 last previous paragraph. Along
 summit of ridge

73.00

Descend through heavy timber
 and windfall.

80.00

A tamarack 5 ins diam in grove
 of young timber 50 ft below the
 summit and 3500 ft above valley
 lying E. which I marked for cor.
 to secs 13. 18. 19. and 24 marked.
 T1 N. S 18 on N. E.

Exteriors

137

of T

1 Ne

R.

38 E

247

Willamette Meridian, Oregon.

Chains

N 38 E. S 19 on S.E.

N 37 E. S 24 on S.W. and

S 13 on the N.W. face with
3 notches on the N. on Sedges.

Atamarack 6 ins diam bears

S 73 E. 22 lbs dist marked

S 1 N N 38 E. S 19. B.T.

Atamarack 7 ins diam bears.

N 58 E. 20 lbs dist marked

S 1 N. N 38 E. S 18 B.T. from which

Atamarack 7 ins diam bears.

N 58 W. 22 lbs dist marked

S 1 N N 37 E. S 13. B.T.

Atamarack 7 ins diam bears

S 39 W. 30 lbs dist marked

S 1 N. N 37 E. S 24 B.T.

Land high craggy peaks

Soil rocky 4th rate.

Timber fir and tamarack.

Sept 20 1881.

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E. 38 E

of T. 1 N

R. 38 E

Willamette Meridian, Oregon.

Chains

N bet sec. 13 and 18

Va $19^{\circ} 45' E$.

Along the E side of mountain
in large windfall and dense
undergrowth over point of rocky
ridge course E and W.

5.00

Descend through fir timber

40.00

Set post $3\frac{1}{2}$ ft long 3 ins square
18 ins in the ground on N hill-
side in fir timber with dense
underbrush 60 ft above bottom
of ravine for $\frac{1}{4}$ sec. cor. marked
 $\frac{1}{4} S$ on the E and W faces. from which
A fir 18 ins diam bears

N $13^{\circ} W$. 20 lks dist marked $\frac{1}{4} S. B. T.$

A willow 4 ins diam bears

N $63^{\circ} E$. 32 lks dist marked $\frac{1}{4} S. B. T.$

43.00

A brook course E.

44.00

Cross point at bottom of ravine

Ascend through pine timber

47.00

Abrupt ascent. Enter glade.

Exteriors

of T

1 N

R.

38 E.

Willamette Meridian, Oregon.

Chains

51.00

Through scattering pine timber.
Dense buck brush, scattering
timber

74.00

Descend abruptly.

80.00

Set post 4½ ft long 4 ins square
2 ft in the ground on N side of
ridge 150 ft below the summit
250 ft above the bottom of ravine,
for cor to pces 7, 12, 13 and 18.
marked

T 1 N S 7 on N E

N 38 E S 18 on S E.

N 37 E S 13 on S W and

S 12 on the N W face with
4 notches on the S. and 2 notches
on the N edges. from which
A is 2½ mi diam base

N 18 E 20 lbs dist marked

T 1 N. N 38 E S 7 B.S.

A is 6 mi diam base

250

140

Expansive

of T. 1 N.

R. 38 E

Willamette Meridian, Oregon.

Chain

S 70° E 18 lks dist marked

T 1 N. R. 38 E. S 18 B. L.

A fir 7 ins diam base

S 53° W. 9 lks dist marked

T 1 N. R. 37 E. S 13 B. L.

A fir 7 ins diam base

N 69° W. 27 lks dist marked

T 1 N. R. 37 E. S 12 B. L.

Land mountainous rough, and
broken.

Soil rocky 4th rate

Timber fir and pine

N. bet secs 7 and 12.

Va 20° E.

Descend abruptly through fir
timber and dense underbrush.

8. 00

Bottom of ravine

Ascend.

31. 00

Va. 28° 50' E.

Summit of ridge. course W.

Exterior of T 1 Ne R. 38 E 251

Willamette Meridian, Oregon.

Chains Descend through heavy forest of
timber Dense underbrush.

40.00 Set post 3½ ft long 3 in square
18 ins in the ground, on steep
N hillside in fir timber and
dense undergrowth for ¼ sec.
cor marked ¼ S. on the E and 20
face from which

A fir 13 in diam bears

S 40° W. 13 lks dist marked ¼ S. B. S.

A spruce 7 in diam bears.

S 38° E. 34 lks dist marked ¼ S. B. S.

42.75 Spring branch course E.
Ascend through heavy timber
and undergrowth.

52.50 Along the mountain side
facing E.

68.25 Descend through heavy forest of
timber and dense underbrush.

80.00 Set post 4½ ft long 4 in square
2 ft in the ground on E side

252

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Extremore

of T. 1 N

R. 38 E

Willamette Meridian, Oregon.

Chains

of mountain 600 ft above valley
lying E. for cor to sec. 1, 6, 7, and 12,
marked

T 1 N. S 6 on N E

R 38 E S 7 on S E.

R 37 E S 12 on S W. and

S 1 on the N W faces with
5 notches on the E. and 1 notch
on the N edges. from which

A fir 10 in diam bears

S 10° E 98 lbs diet marked

T 1 N. R 38 E. S 7. B. T.

A pine 36 in diam bears.

N 27° E 144 lbs diet marked

T 1 N. R 38 E. S 6. B. T. no other trees in
limiting raised mound of stone along side.

Land rough, mountainous and
broken.

Soil rocky ^{gravel} & slate.

Timber Tamarack and fir.

Chain N. bet sec 1 and 2.

Pa 20° E

Descend gradually along mountain side sloping E.

4.00 Cross a small ravine. Course E

10.00 Spring branch. course E.

24.00 Windfall. Dense undergrowth.

40.00 Set post 3 1/2 ft long 3 ins square 18 ins in the ground on E side of mountain sloping E. 100 ft above valley for 1/4 sec. cor. marked 1/4 S. on E and W faces. from which a fir 18 ins diam bear

S 75° E. 18 lbs diet marked 1/4 S. B. F. no other trees in limits & erected mound of stone alongside Pa 13° E.

79.00 A spring

80.00 Set post 5 ft long 6 ins square 2 ft in the ground in heavy fir timber and dense undergrowth. Sloping E. for cor to Tps 1 and 2 N. Rs 37 and 38 E marked

254

144

Extensive

of T. 1st N.

R. 38 E

Willamette Meridian, Oregon.

Chains

T2 N. S31 on N.E.

R38 E. S6 on S.E.

T1 N. S1 on S.W. and

R37 E. S36 on N.W. with

6 notches on each edge. From which

A fir 14 in diam bears.

S47° E. 43 lbs dist marked

T1 N. R38 E. S6 B.T.

A fir 9 in diam bears.

N20° E. 13 lbs dist marked.

T2 N. R38 E. S31 B.T.

A fir 10 in diam bears

N19° W. 32 lbs dist marked

T2 N. R37 E. S36 B.T.

A fir 10 in diam bears.

S36° W. 65 lbs dist marked

T1 N. R37 E. S1 B.T.

Land rolling and mountainous

Soil gravelly 2nd rate

Timber fir and tamarack

Sept 22 1881.

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Extensive

of T

1 N

R.

38 E

255

Willamette Meridian, Oregon.

General Description

This line runs along the peaks extending N. from Mount Nebo overlooking Grand Ronde valley, and is rough in the extreme.

All of the southern and eastern portion of this Tpe. has been subdivided.

It is covered with heavy pine, tamarack, and fir timber of value.

The Tpe. is well watered,

Jacob C. Cooper.

U. S. Dep. Surveyor.

FINAL OATHS FOR SURVEYS.

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

Jacob C. 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 *Townships 1, 2 & 3 S. Range 35 E of T1 S, R, 36 E* Willamette Meridian, Oregon, showing the respective capacities in which they acted :

-, Compassman.
- W. T. Slater*....., Chainman.
- J. D. Fenton*....., Chainman.
-, Chainman.
-, Chainman.
- R. Morgan*....., Axeman.
- C. D. Goodnough*....., Axeman.
-, Flagman.

FINAL OATHS OF ASSISTANTS.

We hereby certify that we assisted.....

Jacob C. Cooper, U. S. Deputy Surveyor, in surveying all those parts or portions of the *Exterior lines of Townships 1, 2 and 3 South Range 35 E. of Town 1 S R 36 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.
- W. T. Slater*....., Chainman.
- J. D. Fenton*....., Chainman.
-, Chainman.
-, Chainman.
- R. M. Morgan*....., Axeman.
- C. D. Goodnough*....., Axeman.
-, Flagman.

Subscribed and sworn to before me, this *second* day of

September 188*1*

[SEAL.]

Robert J. Leach
Notary Public

FINAL OATHS FOR SURVEYS.

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

Jacob C 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

lines of T1SR 37 E and

T1NRs 37 & 38 E Willamette Meridian, Oregon, showing the respective capacities in which they acted :

- R. D. Cooper, Compassman.
Chas W Ladd, Chainman.
C. D. Goodnough, Chainman.
C. D. Goodnough, Chainman.
C. D. Goodnough, Axeman.
R. M. Morgan, Axeman.
, Flagman.

FINAL OATHS OF ASSISTANTS.

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

of T1SR 37 E and

T1NRs 37 & 38 East 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.

- C. D. Goodnough, Compassman.
R. P. Cooper, Chainman.
Charles Gadot, Chainman.
C. D. Goodnough, Chainman.
R. M. Morgan, Axeman.
Charles Gadot, Axeman.
Charles Gadot, Flagman.

Subscribed and sworn to before me, this 13th day of

October 1881

[SEAL.]

Robert J. Staler
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 TolmanU. S. Surveyor General for Oregon, bearing date of the first day ofJuly, 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 ofthe United States, surveyed all those parts or portions of the Exterior lines ofTps 1, 2, 3, 3. S R 35-E, T1 S R 36 & 37 E, T1 N R 37 & 38 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 seventhday of January, 1882.Henry Warner
Notary Public

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Office U. S. Surveyor General,

Portland, Oregon, April 5, 1882

The following Field Notes of the Survey of

The E. 1/4 of Tps. 1-2-3 SR 35 E.
T1 SR 36nd 37 E. and T. 1-
N R 37 and 38 E.

executed by Jacob C. Cooper
under his contract No. 397

dated July 1, 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. Tolman
Surveyor General.