

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. S. 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

102

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 Assessor
C D Goodnough Assessor

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

Geo. M. King
Notary Public for Oregon.

118.

Extensive

of T. 1 N.

R. 37 E

228

Willamette Meridian, Oregon.

Chain

Baseline
From cor. to Tps. 1 N. Rcs 36 and 37 E
which is a post 1 1/2 ft long 3 ins
square marked.

T 1 N. R 37 E. S 31 on N E.

R 36 E S 36 on N W face with
a notch on the N. E. and Wedge.

A hemlock 14 ins diam bears

N 10° E 36 lbs dist marked

T 1 N. R 37 E S 31. B.S.

A hemlock 12 ins diam bears.

N 20° W. 22 lbs dist marked.

T 1 N. R 36 E S 36 B.S.

A hemlock 10 ins diam bears.

S 35° W 26 lbs dist marked

T 1 S R 36 E S 1. B.S.

I run.

N. bet secs. 31 and 36

Pa. 21° E.

Descend through fir and
tamarack timber.

Exposure

of T. 1 N. R. 37 E 220

Willamette Meridian, Oregon.

Chain

40.00

Set post 3 $\frac{1}{2}$ ft long 3 in square
18 in in the ground on steep
mountain side sloping E.

2000 ft. above creek N. and 400 ft
below the summit in scattering
fir timber with dense under-
growth. for $\frac{1}{4}$ sec. cor. marked.

$\frac{1}{4}$ S. on E and W faces from which
A fir 14 in diam bears

S 74° E 30 lbs diet marked $\frac{1}{4}$ S. B. S.

A fir 16 in diam bears.

S 52° W 29 lbs diet marked $\frac{1}{4}$ S. B. S.

Pa 20° E.

51.00

Glade on mountain side.

75.00

Descend through timber and
dense undergrowth.

80.00

Set post 4 ft long 4 in square
2 ft in the ground 100 ft below
the summit 1000 ft above
creek on open ridge on the

120

30
Stations

of T. 1 N. R. 37 E

Willamette Meridian, Oregon.

Chains

S side for cor to pccs. 25, 30, 31
and 36 marked:

T 1 N. S 30 on N. E.

N 37 E. S 31 on S E.

N 36 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. edge. from which

A pine 24 ins diam bears

N 6° W 360 lbs dist marked

T 1 N. N 36 E S 25 B. T. no other trees in limits

Raised mound of stone
along side

Land high broken and
mountainous.

Soil rocky 4th rate.

Timber fir pine and tamarack.

N. bet pccs 25 and 30.

Ya 22° E.

Descend through timber and
dense undergrowth.

36.50

Meachum Creek 76 lbs wide

121

Exposure

of T

1 Ne

R.

37 E. 23

Willamette Meridian, Oregon.

Chain Course W.

40.00

A thorn tree 3 ins diam which I marked for $\frac{1}{4}$ sec cor. $\frac{1}{4}$ S on the E and W faces, on the Ne bank of the river in balsam and fir timber. Dense underbrush fr. wh. A balsam 2 8 ins diam bears

S 80° W. 15 lbs dist marked

$\frac{1}{4}$ S B T, no other suitable trees in limits and raised mound of stone along side.

Latitude at noon $45^{\circ} 34'$ Ne.

41.50

Ascend through open pine timber.

56.00

Summit of rocky ridge course Ne. W.

80.00

4 flat stones 14×14 ins laid flat ways on top of each other on steep ridge of canyon facing E. 40 ft above bottom of canyon. which I marked X on top, and

T 1 Ne S 19 on Ne E.

E32

122

Explorations

of T.

1 N

R.

37 E

Willamette Meridian, Oregon.

Chain

N 37 E. S 30 on S E.

N 36 E. S 25 on S W and

S 24 on the N. W. angles of X from the

A fir 18 ins diam base. from

S 28° W 78 the dist marked

S 1 N. N 36 E S 25 B F. no other trees in vicinity

too steep for pits

Land rough broken and
mountainous.

Soil rocky 4th rate.

Timber pine and fir.

Sept. 14. 1881

N. bet secs 19 and 24.

Ta 21° E.

10.00

Cross a canyon course S E.

and ascend over very rocky
ground with dense undergrowth.

40.00

Set post 3 1/2 ft long 3 ins square

18 ins in the ground on S. side

of steep hill 10 ft above bottom

of ravine in open pine timber

Chains for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ S on E and W faces from which

A pine 30 ins diam bears

S 60° W 250 lks dist marked $\frac{1}{4}$ S. B. T. no other marks in vicinity

too steep for pits or mounds

Ascend a point of mountain

64.42 Summit of peak 2000 ft.

above Mesachem Creek.

80.00

Set post 4 ft long 4 ins square

2 ft in the ground with a mound of stone around 3 ft at base

18 ins high for cor to secs.

13. 18. 19 and 24 marked

T 1 N. S 18 on N. E.

R 37 E. S 19 on S. E.

R 36 E. S 24 on S. W. and

S 13 on the N. W. faces with

3 notches on the N. and S. edges. from which

A pine 24 ins diam bears

N. 50° E 119 lks dist marked

T 1 N. R 37 E S 18 B. T.

A fir 24 ins diam bears

Extensions
234

124

of T. 1 N. R. 37 E

Willamette Meridian, Oregon.

Chain

N 61° 20' 80 lbs dist marked
H 1 N. N 36 E S 24 B L

A pine 16 ins diam bears
S 67° 20' 62 lbs dist marked
H 1 N. N 36 E S 24 B L

Land rough broken and
mountainous.

Soil rocky and nearly barren
4th rate.

Timber scattering pine and fir.

N. bet. sec. 13 and 18.

N 23° E.

Descend through heavy timber
and dense undergrowth.

39.00

Cross ravine course S 20° E.

And ascend

40.00

Set post 3 1/2 ft long 3 ins square
18 ins in the ground on the E.
side of canyon 25 ft above the
bottom for 4 sec cor. marked

125-

Exterior

of T 1 N

R. 37 E

235

Willamette Meridian, Oregon.

Chambers 4 S on E and W faces from which
A fir 10 ins diam bears

N 33° W. 20 lbs dist marked 4 S. B. S.

A fir 4 ins diam bears

S 60° E. 10 lbs dist marked 4 S. B. S.

Ascend.

On West side of canyon

80.00

A stone 24 X 30 in mountain
side facing W. 50 ft above bottom
of ravine which I marked with
a X on W face for cor to pces 7. 12.

13 and 18 marked

T 1 N. S 7 on N. E.

N 37 E. S 18 on S. E.

N 36 E. S 13 on S. W. and

S 12 on the N. W angle of X with
4 notches on the S. and 2 notches
on N. edges. from which

A pine 24 ins diam bears

S 2° W. 200 lbs dist marked

T 1 N, N 36 E, S 13, B. S. no other tree in limits

No stumps for pits or mounds

Chains

~~Bluff to steep to take variations
of needle~~

Land broken and mountainous
Soil rocky 4th rate
Timber Pine
Sept. 15. 1881.

No. bet sec 7 and 12
Va 23° E

Ascend through dense undergrowth
buck brush.

10.00

A glade on bench of mountain

40.00

Set post 3½ ft long 3 ins square

12 ins in the ground, with mound

of stone around 3 ft at the base.

18 ins high, on a bald gravelly point

facing N. for ¼ sec. cor. marked

¼ on the E and W. faces, from which

A pine 3 ins diam bears.

No 19° W. 86 lbs dist marked ¼ 8 B. I.

Va 22° 15' E.

127

Extensors

of T 1 N

R. 37 E 237

Willamette Meridian, Oregon.

Chain

A noon latitude $45^{\circ} 36' N$.

41.00

Enter swamp and cross the head
of branch course E.Dense underbrush and down timber
scattering fir and tamarack
timber

75.00

Ascend through dense undergrowth
of willow.

80.00

Set post 5 ft long 4 ins square
2 ft in the ground, on a S. slope
in heavy fir timber and dense
undergrowth, for cor to sec
1 b. 7. and 12. marked.

S 1 N. S 6 on N E

N 36 E S 7 on S E.

N 35 E. S 12 on S W and

S 1 on the N W faces with
5 notches on the S and 1 notch
on the N faces. from which
a fir 12 ins diam base.

S 41 W. 30 lbs dist marked

128

288 Sections

of T. 1 N. R. 37 E.

Willamette Meridian, Oregon.

Chain

S 1 N. N 36 E. S 12 B.T.

Afir 20 ins diam bears

S 51° E. 62 lbs dist marked

S 1 N. N 37 E. S 7. B.T.

Afir 30 ins diam bears

N 38° E. 51 lbs dist marked

S 1 N. N 37 E. S 6 B.T.

Afir 4 ins diam bears.

N 13° W 32 lbs dist marked.

S 1 N. N 36 E. S 1 B.T.

Land high, rough, mountainous,
and broken.

Soil rocky 2nd rate.

Timber fir and tamarack.

Soil in swamps 1st rate

N. bet. sec. 1 and 6.

N 21° E.

Ascend through heavy timber
and dense undergrowth.

Descend gradually.

10.00

129

Exteriors of T 1 N R. 37 E 239

Willamette Meridian, Oregon.

Chain

40 00

Set post 3½ ft long 3 ins square
 12 ins in the ground on
 mountainside sloping N. W.
 in dense alder thicket and
 heavy timber for ¼ sec. cor.
 marked ¼ S on the E and W face.
 A fir 12 ins diam bears from which

N 82° W 24 lbs dist marked ¼ S B.S.

A leaning alder 2 ins diam bears

S 45° W 4 lbs dist marked ¼ S B.S.

Pa 22° 15' E.

65 00

Spring branch, course W.

80 00

Set post 4½ ft long 4 ins square
 2 ft in the ground on W hillside
 in heavy timber with dense
 undergrowth. 100 ft below the
 summit. for cor to Tpe 1 N.
 Res 36 and 37 E marked

T 2 N, S 31 on N E

R 37 E S 6 on S E.

130

Section

of T.

1st N.

R.

37th E

Willamette Meridian, Oregon.

Chains

S 1st N. S 1 on the S W and
 N 36th E S 36 on the N W faces with
 6 notches on each edge from which
 A fir 15 in diam bears

N 32° E. 18 lks dist marked

S 2nd N. N 37th E S 31 B.T.

A fir 12 in diam bears

N 43° W. 75 lks dist marked

S 2nd N. N 36th E. S 36 B.T.

A fir 20 in diam bears

S 57° W. 47 lks dist marked

S 1st N. N 36th E S 1. B.T.

A fir 20 in diam bears

S 18° E. 23 lks dist marked

S 1st N. N 37th E, S 6 B.T.

High table land

Soil gravelly 2nd rate

Timber spruce fir and tamarack.

Sept 16 1881

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Extensions

of T 1 N

R.

37 E

241

Willamette Meridian, Oregon.

General Description.

The Tps. on the E of this line
is a succession of deep craggy
canyons and high mountain
peaks. nearly barren.

Grass is scarce.

Timber is scarce and of inferior
quality.

Water is also scarce except in
the deepest canyons.

Wapachem Creek heads in the
N.E. corner of the Tps.

Black bears are numerous.

FINAL OATHS FOR SURVEYS.

288

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 :

-, Compassman.
- R. D. Cooper*....., Chainman.
- Chas W Ladd*....., Chainman.
- C. D. Goodnough*....., Chainman.
-, 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.

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

Subscribed and sworn to before me, this *13th*..... day of *October*..... 188*1*.....

[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,* 188*2*

The following Field Notes of the Survey of

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

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

dated *July 1,* 188*1*, 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.