

FIELD NOTES

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.

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Exteriors

of T. 3 S

R. 35 E

Willamette Meridian, Oregon.

Chains

1/4 S on E & W faces

A pine 14 in diam bears

N 63° W 49 lbs dist marked

1/4 S B T no other trees in limits raised around
of stone along side.

N 21° E

Descend

72.00

Ascend in open pine timber

80.00

Set post 5 ft long 4 1/2 in square

2 1/2 ins in the ground for cor

to Tps 2 & 3 S R 34 & 35 E

(Summit of ridge in open pine

timber at head of ravine

course east) marked

T 2 S S 31 on NE

R 35 E S 6 on SE

T 3 S S 1 on SW and

R 34 E S 36 on NW faces

with 6 notches on each edge

raised a mound of stone about

post 3 ft at base 1 1/2 ins high, from

A pine 12 ins diam bears

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0137

Exteriors of T. 3 S R. 35 E

Willamette Meridian, Oregon.

Chains S 12° W 57 lks dist marked
 T 3 S R 34 E S 1 B T
 A leaning pine 12 ins diam bears
 S 42° E 51 lks dist marked
 T 3 S R 35 E S 6 B T
 A fir 14 ins diam bears
 N 72° E 71 lks dist marked
 T 2 S R 35 E S 31 B T
 Land high rolling and
 mountainous, Soil gravelly
 and rocky 3rd rate
 Timber pine and fir
 Aug 23 1881

This township is rolling and
 hilly in the southern part,
 Soil medium. The valleys
 along some of the small streams
 that empty into the Grand
 Ronde river, are very fertile and
 are occupied by settlers who

45-

Exteriors

of T 2 S

R. 35-E 155

Willamette Meridian, Oregon.

Chain

Timber fir pine and tamarack,

Thence I run

N. Bet Secs. 31 and 36

Va 20° E.

Descend and enter timber

6.50

A ravine course E.

Ascend.

10.00

Table land with heavy pine and
fir timber, undergrowth the
same, with much fallen timber

19.25

Center of Baly road course
N. W. and S. E.

40.00

Set post 3 1/2 ft long, 3 ins square
18 ins in the ground in open
timber on W. side of gentle
slope, for 1/4 sec. cor. marked
1/4 S. on the E and W faces, from which
A tamarack 12 ins diam bears,
N 66° W 67 the dist marked,

Exterior

of T. 2 S. R. 35 E

Willamette Meridian, Oregon.

Chains

1/4 S. B.T.

A pine 7 in diam bears

S. 7° E. 27 lbs dist marked

1/4 S. B.T.

N. 20° 45' E

50.00

Descend through open timber
Some down timber and
dense undergrowth

80.00

A fir 18 in diam which I mark

T. 2 S. S. 30 on N.E.

N. 35° E S 31 on S.E.

N. 34° E S 36 on S.W. and

S 25 on the N.W. faces.

with one notch on the S.

and 5 notches on the N. edges from within

A fir 16 in diam bears

S 60° E 13 lbs dist marked

T. 2 S. N. 35° E. S 31 B.T.

A fir 18 in diam bears

N. 43° E 42 lbs dist marked

T. 2 S. N. 35° E. S 30 B.T.

Extremities of T 2 S R. 35 E 157

Willamette Meridian, Oregon.

Chains
 A fir 20 in diam bears,
 N. 44° W 38 lbs dist marked
 T 2 S R. 34 E S. 25 B.T.
 A pine 2 in diam bears,
 S 31° E 35 lbs dist marked
 T 2 S R. 35 E S. 31 B.T.
 Land high mountain table
 land.
 Soil gravelly 2nd rate,
 Timber pine fir and tamarack.

N. bet. Secs 25 and 30

N 18° 50' E

Descend through dense timber

15.00 Leave dense timber

17.25 A pine 2 ft in diam.

21.00 Enter timber

29.75 Bottom of ravine course N. E.

Ascend through open timber

36.25 Summit of point

37.00 Enter dense forests of young

Chains 40.00	timber, and much fallen timber Set post 3 ft long 3 ins square 1 1/2 ins in the ground, on table land covered with dense forest of timber, 3,000 ft above stream on the N.E. for 1/4 sec cor marked 1/4 S on the E and W faces, from which A fir 5 in diam bears W, 31 lbs dist marked 1/4 S. B.T. A tamarack 10 ins diam bears, N 87° W 30 lbs dist marked 1/4 S. B.T.
	Va 20° E
51.50	Descend through dense timber Leave timber
52.15	Point of rocks
52.50	Reavine course N.E.
54.00	Point of basaltic rock, descend along eastern base of bluff.
58.40	A fir 3 1/2 ins diam

Exterior of T. 2 S. R. 35 E. 159

Willamette Meridian, Oregon.

Chains
80 00

Descend over loose rocks, abruptly
Set post 4 ft long 4 ins square
2 ft in the ground among
loose rock, 20 ft above stream
course N. W. in deep rugged
canyon for cor. to secs 19, 24,
25, and 30 marked

T 2 S R 19 on N. E.

R 35 E S 30 on S. E.

R 34 E S 25 S W and

S 24 on the N. W. face
with 2 notches on the S.

and 4 notches on the N. edges,
A fir 40 ins diam bears, ^{from which}

S 79° E. 44 lbs dist marked.

T 2 S R 35 E S 30 B. T.

A tamarack 15 ins diam bears.

N 4° E. 58 lbs dist marked.

T 2 S R 35 E S 19 B. T. no other trees in limits

raised mound of ^{stone} along side

The first-half mile is mount-
ain table land.

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Extremes

50

of T. 2 S. R. 35 E

Willamette Meridian, Oregon.

Chain

Soil gravelly 2nd rate.
Timber pine fir and tamarack.
The last half mile diagonally
down over precipices 3000 ft.
Soil rocky in the extreme
Timber zone.

No. Bet. secs. 19 and 24

Pa 19° 40' E

5.00

Brook course N. W.

Ascend over rugged rocky
mountain side.

36.54

Summit of bluff 3000 ft.
above bottom of canyon
course N. W.

40.00

Set post 3 ft long 3 in square
18 ins in the ground on table
land in open timber for $\frac{1}{4}$ sec.
cor. marked $\frac{1}{4}$ S. on the E. and
W. faces, from which
A pine 18 ins diam bears.

Willamette Meridian, Oregon.

Chain N. 73° E. 83 lks. dist. marked $\frac{1}{4}$ S. B. T.
 Apine Line diam bears
 N. 81° W. 165 lks. dist. marked $\frac{1}{4}$ S. B. T.
 Pa 19° E

Descend through heavy timber
 with underbrush of willow and
 fallen timber

80.00

Lava stone $36 \times 60 \times 12$ ins. above
 ground marked with 3 notches
 on the N. and S. edges. on a
 bluff on the S. side of canyon
 in open timber cor. to secs.
 13, 18, 19. and 24 from which
 A tamarack bms. diam. bears
 N. 85° E. 13 lks. dist. marked.
 T. 2 S., R. 35 E., S. 18. B. T.
 A tamarack bms. diam. bears
 N. 35° W. 25 lks. dist. marked
 T. 2 S., R. 34 E., S. 13. B. T.
 A tamarack 7 ins. diam. bears
 S. 66° W. 16 lks. dist. marked.

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Exterior

52

of T. 2 S. R. 35 E

Willamette Meridian, Oregon.

Chain

T. 2 S. R. 34 E. S. 24. B. T.

Atamarack 7 in diam bears
S 39° E. 33 lbs dist marked.

T. 2 S. R. 35 E. S. 19. B. T.

Last half mile mountain
table landSoil gravelly 3rd rate
Timber fir.

No. bet. secs. 13 and 18.

Pa 24° 45' E

2.50

Brink of canyon 1000 ft deep
course W. measure with
micrometer to

13.52

No. brink of canyon. course W.
Over table land covered with
heavy timber.

40.00

Set post 3 ft long, 3 ins. square
18 ins. in the ground in open
pine timber, for $\frac{1}{4}$ sec. cor.
marked $\frac{1}{4}$ S on the E & W faces.
from which

53

Exteriors of T 2 S R. 35 E 163

Willamette Meridian, Oregon.

Chains A fir 5 ins diam bears
 N 37° W 18 lks. dist. marked, $\frac{1}{4}$ S. B. T.
 A pine 4 ins diam bears
 N 43° E 70 lks. dist. marked $\frac{1}{4}$ S. B. T.
 Va 20° 15' E
 Descend through heavy timber
 45.00 Enter dense fir thicket
 55.00 Leave thicket
 77.50 Bank of canyon, Descend.
 80.00 Set post 4 ft long 4 in square
 2 ft in the ground, on steep
 N. hillside 400 ft above bottom
 of canyon in dense fir timber
 for cor. to secs. 7, 12, 13, and 18,
 marked
 T 2 S 7 on N. E.
 R 35 E, S 18, on S E.
 T 2 S, S 13, on S W and
 S 12 on the N. W. faces with
 4 notches on the S, and
 2 notches on the N. edges,
 from which

Chains

A fir 16 ins diam bears,

N 52° E 44 lbs dist marked.

T. 2 S. R. 35 E, S 7. B. T.

A fir 16 ins diam bears,

N 14° W 73 lbs. dist marked.

T. 2 S. R. 34 E. S. 12. B. T.

A fir 10 ins diam bears,

S 31° E 32 lbs, dist marked

T. 2 S. R. 35 E, S 18. B. T.

A fir 10 ins diam bears,

S 3° W 12 lbs dist marked.

T. 2 S. R. 34 E S 12 B. T.

Land rough, mountainous
and broken.

Soil rocky 4th rate

Timber Pine fir and
tamarack

Aug 24 1881

55

Exposure

of T 2 S

R. 35 E 165

Willamette Meridian, Oregon.

Chain

No. bet. secs. 7 and 12

Va 17° 30' E

Descend through dense forest
of pine undergrowth and fallen
timber

10.00

A spring branch at bottom of
canyon, course N. W.

13.00

Point of ridge course N. E.
Descend through dense fir
thicket

16.00

Bottom of canyon, course S. W.
Water course dry
Ascend and leave timber

25.15

A scrubby pine 20 ins diam on
edge of rock - a lone tree -

30.50

Enter heavy open timber

40.00

Set post 3 ft long 3 ins square
3 ins in the ground on summit
of mountain, in open timber
for $\frac{1}{4}$ sec cor marked $\frac{1}{4}$ S. on the
E. and W. faces from which

1866

56

of T. 2 S

R. 35 E

Willamette Meridian, Oregon.

Chains

No. 19° E

A pine 30 in diam bears
 No 54° W. 46 lks. dist marked.
 1/4 S. B.T.

A pine 4 in diam bears
 S 64° E, 62 lks. dist marked. 1/4 S. B.T.

80.00

Descend through heavy timber
 Set post 4 1/2 ft long 4 in square
 24 in in the ground on table
 land in heavy pine timber
 near a bunch of willow for cor
 to secs 16, 7 and 12 marked,
 T. 2 S, S 6 on N. E.

No 35 E, S 7 on S E

No 34 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. edges, from which

A pine 30 in diam bears
 No 54° W. 44 lks dist marked
 T. 2 S. No. 34 E, S. 1. B.T.

Exposure

57

of T

2 S

R.

35 E 167

Willamette Meridian, Oregon.

Chain

A pine 20 ins diam base.

S 25° W, 44 lbs dist. marked

T 2 S. R. 34 E, S 12, B. T.

A pine 30 ins diam base

S 28° E 186 lbs dist marked

T 2 S. R. 35 E, S 7, B. T. no other trees in

limits raised mound of stone along side

Land mountain table land

with occasional pines

Soil rocky. 3rd rate

Timber fir pine and tamarack

No. bet secs 1 and 6

Pa 24° 10' E

Descend through open timber

15.00

Head of hollow-dense timber and undergrowth.

35.00

Leave dense timber and enter open pine timber

40.00

Set post 3 ft long 3 ins square
10 ins in the ground for 1/4 sec
cor. marked 4 S. on the E

Chains and W. faces. - set on W side
of a ravine sloping W. from where
A pine 34 ins diam bears
S 17° W 42 lbs dist. marked $\frac{1}{2}$ S. B. I.
Leave timber
50.00 Enter heavy pine timber
65.00 Brink of canyon. Descend.
75.50 Bottom of canyon. Ascend.
76.50 Leave timber.
80.00 Set post 4 $\frac{1}{2}$ ft long 4 ins square
2 ft in the ground on steep
hillside facing E and 300 ft.
above bottom of canyon and
400 ft. below summit. for
cor. to Tps 1 and 2 S R. 34 and
35 E marked
T. 1 S. S. 31 on N. E.
R. 35 E. S. 6. on S. E.
T. 2 S. S. 1 on the S. W. and
R. 34 E. S. 36 on the N. W. faces.
with 6 notches on E edge. from where

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Extremes of T. S. R. 35 E 169
 Willamette Meridian, Oregon.

A pine & spruce forest bears

N 26° E 112 lbs dist marked.

T 1 S R 35 E S 31 B T. no other trees in
 raised mound of stone along side

N 17° 50' E

Land rough mountainous
 and broken.

Soil rocky 4th rate

Timber pine, fir, and tamarack

This line runs across the head
 canyons of McKay creek and
 they are almost impassable
 for man or beast.

The tableland in this township
 is near the summit of the
 Blue Mountains, and is
 covered with heavy timber,
 of pine, fir, and tamarack,
 of good quality.

The soil in places on table-
 lands is good if not too high

60

1890

Exteriors

of T. 2 S

R. 35 E

Willamette Meridian, Oregon.

for agricultural purposes.
 Grass is good and abundant
 Water is scarce

Aug. 25. 1881.

From the cor. to Tps. 1 and 2 S.
 R. 35 and 36 E which is a post
 marked,

T 1 S. S 31. on N E

R. 36 E. S 6 on S E

T 2 S. S 1 on S W and

R. 35 E S 36 on N W faces from which
 A fir 12 ins diam bears

N 64° W 24 lbs dist marked.

T 1 S. R. 35 E S 36 B T

A pine 7 ins diam bears

S 17° W 21 lbs dist marked

T 2 S. R. 35 E. S 1 B T

A pine 7 ins diam bears,

N 23° E 35 lbs dist marked

T 1 S. R. 36 E. S 31 B T

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.....

[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 EWillamette 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.