

FIELD NOTES

Of the survey of the First Standard
Parallel Lines of 755 Rps 34, 35,
36 & 37. E, Willamette Meridian,
 Oregon, as surveyed by Jacob C. Cooper,
 _____, U. S. Deputy Surveyor,
 under his Contract No. 397, dated
July 1st, 1881

Survey commenced, July 22 1881
 Survey completed, Aug 15 1881

NAMES AND DUTIES OF ASSISTANTS.

Jacob C. Cooper, Compassman.
W. J. Slater, Chainman.
Jeff D. Fenton Jr, Chainman.
R. M. Morgan, Chainman.
C. D. Goodnough, Chainman.
C. D. Goodnough, Axeman.
R. M. Morgan, Axeman.
 _____, Flagman.

PRELIMINARY OATHS OF ASSISTANTS:

We,

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

..... lines of

..... Willamette Meridian, Oregon.

....., *Chainman.*

....., *Chainman.*

....., *Chainman.*

....., *Chainman.*

Subscribed and sworn to before me, this

day of 188

[SEAL.]

We, 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

..... Willamette Meridian Oregon.

....., *Axeman.*

....., *Axeman.*

Subscribed and sworn to before me, this

day of 188

[SEAL.]

STATE OF OREGON, }
 County of Union. } ss.

We, Jeff D. Fenton, W. S. Slater, R. M. Morgan
 and C. D. Goodnough 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 of the 1st Standard Parallel South through Ranges 34, 35, 36, and 37 E. Willamette Meridian, Oregon

Jeff. D. Fenton p Chairman

W. S. Slater Chairman

R. M. Morgan Chairman

C. D. Goodnough Chairman

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Subscribed and sworn to before me
this 16 day of July 1887

J. M. King
Notary Public for Oregon.

We R M Morgan & C. D. Goodrough
do solemnly swear that we will
and truly perform the duties
of examiners 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 Base
line from its present terminus
to the east line of the State of
Oregon

R M Morgan Aernan
C D Goodrough Aernan
Subscribed and sworn to before me
this 16th day of July 1881

Geo. M. King

Notary Public for Oregon.

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First Standard Parallel South

Will. Weir.

First Standard Parallel of T 58 R. 35 E

Willamette Meridian, Oregon.

Chain Mc Coy house bears $N 1^{\circ} 35' E$ about
35 chs.

Land slightly undulating.

Soil 2nd rate

Timber pine.

West on S boundary of sec 34
Ta $19^{\circ} 55' E$.

Ascend through thick black pine

3.00

Dry branch. Course N.E.

4.80

Fence course S.E. Ascend.

8.00

Summit of knoll.

Descend.

9.50

Center of hollow

Ascend through young pine

35.00

Summit of mountain

Descend through scattering pine
and fallen timber.

40.00

Set post $3\frac{1}{2}$ ft long 3 ins square

3 ins in ground on W. slope of hill
25 ft below top. for Standard & sec.

Chains	cor. marked $\frac{1}{4}$ S. S. E. on N face from which A pine 10 ins diam bears $N 72^{\circ} E$ 11 lks dist marked S E $\frac{1}{4}$ S. B. T. A tamarack 12 ins diam bears $N 43^{\circ} W$ 89 lks dist marked S E $\frac{1}{4}$ S. B. T. Descend
42.00	Bottom of canyon Ascend through wind fall
65.00	Summit of mountain. Descend through pine timber
69.00	Hollow Ascend
71.00	Summit of point.
75.00	Descend through dense thicket of pine and tamarack.
80.00	Set post $4\frac{1}{2}$ ft long 4 ins square 2 ft in ground, for Standard cor to sec 33 and 34 marked S. E. T. S. $N 35^{\circ} E$ $N 35^{\circ} E$ S 34 on E and S 33 on W face with 3 notches on E and W faces from which

First Standard Parallel of T 5 S R. 35 E

Willamette Meridian, Oregon.

Chain
 A tamarack 30 ins diam bears
 N 47° E 68 the dist marked
 T 5 S. R. 35 E S 34 B.T.
 A tamarack 20 ins diam bears
 N 57° W 122 the dist marked
 T 5 S R. 35 E S 33 B.T.
 Land rolling and hilly
 Soil gravelly 2nd rate
 Timber pine and tamarack.

W. on S boundary of sec 33
 Va 9° 50' E

Descend through dense thicket
 of young pine and tamarack.

10.00

Fallen burnt timber.

20.00

Hollow Ascend

35.00

Summit of hill

Descend through open timber.

40.00

Set post 3 1/2 ft long 3 ins square
 18 ins in ground on W hillside
 20 ft above spring branch for

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34

First Standard Parallel of T. 58

R. 35 E

Willamette Meridian, Oregon.

Standard $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ S
 S.E. on N face from which
 A pine 4 in diam bears
 N 87° W 122 lbs dist marked S.E. $\frac{1}{4}$ S.B.T.
 No other tree convenient.

43 00 Spring branch 3 lbs wide, course
 N.E.

Leave creek bottom and ascend
 through burnt timber.

62.58 Summit of ridge

64.00 Descend through heavy pine
 timber

80.00 Set post 4 $\frac{1}{2}$ ft long 4 in square
 2 ft in ground on S.W. hillside
 30 ft below the summit in heavy
 pine timber for Standard cor. to
 secs 32 and 33 marked
 S.E. T58 N 35 E on N
 S33 on E and
 S32 on W faces, with 4 notches

35-

355-

First Standard Parallel of T 58 R. 35 E

Willamette Meridian, Oregon.

Chains on the E and 2 notches on the W face
 A pine 12 ins diam bears ^{from which}
 N 3° E 9 lks dist marked
 T 58 R 35 E S 33 B.T.
 A pine 14 ins diam bears
 N 14° W 31 lks dist marked.
 T 58 R 35 E S 32 B.T.
 Land rolling and hilly
 Soil gravelly 2nd rate.
 Timber pine and tamarack.

W. on S boundary of sec 32
 Ta 20° 40' E

Descend

2.00 Enter black pine forest.
 12.50 Leave timber and enter creek bottom
 17.50 Sheep Creek 10 lks wide course N E
 23.00 Leave creek bottom and ascend
 through heavy pine and fallen
 timber
 38.00 Hollow course S E.

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First Standard Parallel of T. 5 S R. 35 E

Willamette Meridian, Oregon.

Chains

40.00

Set post 3½ ft long 3 ins square
18 ins in ground on S side of hill
50 ft below summit of ridge

for standard ¼ sec cor. marked
½ S S.E. on N face from which

A tamarack 40 ins diam bears

N 15° E 38 lks dist marked S.E. ½ S B.S.

A tamarack 40 ins diam bears

N 31° W 68 lks dist marked S.E. ¼ S B.S.

Descend through open pine and
tamarack

44.00

Enter tableland covered with fallen
timber

62.00

Enter thicket of tamarack and
pine

65.00

Leave thicket

67.50

Having course N.E.

Ascend through heavy tamarack
and down timber.

80.00

Set post 4½ ft long 4 ins square

First Standard Parallel of T 58 R. 35 E 337

Willamette Meridian, Oregon.

Chain

2 ft in ground on E slope of hill
in scattering tamarack burnt logs
and small pine timber for
standard cor to p.c.s 31 and 32
marked

S.E. T58 R. 35 E on N.

S 32 on E. and

S 31 on W face with 5 notches on
the E and 1 notch on the W face
At tamarack 20 ins diam ^{from which} bears
N 71° E. 158 lks dist marked

T58 R. 35 E S 32 B.T.

At tamarack 20 ins diam bears
N 58° W. 159 lks dist marked

T58 R. 35 E S 31 B.T.

Land rolling and hilly.

Soil ashy colored 2nd rate
timber pine and tamarack.

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First Standard Parallel of T. 58 R. 35E

Willamette Meridian, Oregon.

Chains

W. on S boundary sec 31

Va $20^{\circ}30'E$ Ascend through heavy pine
tamarack buckbrush and
down timber.

37.50

Summit of mountain ridge.

Descend through open pine

40.00

Set post $3\frac{1}{2}$ ft long 3 ins square
5 ins in ground in heavy pine
timber near summit of ridge
course N.E. for standard $\frac{1}{4}$ sec. cor.
marked $\frac{1}{4}$ S. S. E. on N. from which
A pine 32 ins diam bearsN $27^{\circ}W$ 40 lks dist marked S. E. $\frac{1}{4}$ S. B. T.

A pine 28 ins diam bears

N $77^{\circ}E$ 20 lks dist marked S. E. $\frac{1}{4}$ S. B. T.Descend through heavy pine
and fir timber.Va $19^{\circ}30'E$.

51.00

Bottom of canyon.

Ascend through pine timber.

Chains

65.00

Summit of ridge course N. W.
Descend through heavy pine
and mountain mahogany

77.10

A cedar 2 ins diam base N. 15 E
dirt

80.00

Set post 4 1/2 ft long 4 ins square
2 ft in ground in glade 200 ft
below summit for Standard
cor to T 5 S R 34 and 35 E marked
S. E. T 5 S. on N.

R 35 E S 31 on E and

R 34 E S 36 on W. face with
notches on N. E. and W. face.

A pine 30 ins diam base ^{from which}

N 10° E 190 lke dirt marked

T 5 S R 35 E S 31 B. S.

No other tree near

Land rolling and mountainous

Soil rocky 3rd rate

Timber pine fir and tamarack.

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Level Standard Parallel of T. 5S R. 35E

Willamette Meridian, Oregon.

General Description

This line runs across the head waters of several small streams emptying into Grand Ronde River and they drain several small fertile valleys, but are too high for any but the most hardy farm products.

It is well watered and has abundant timber.

Aug 11 1881

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First Standard Parallel of T 5 S R. 34 E 349

Willamette Meridian, Oregon.

Chain

W. on boundary of sec 36
N 20° E.

Descend

15.00

Spring branch course N.W. ascend

22.00

Descend

28.00

Enter young pine

30.00

Creek bottom covered with willow
and young pine

33.00

Fly Creek 10k wide course N.E.

38.00

Ascend

40.00

Set post 3 1/2 ft long 3 in square
18 in in ground on point of hill
sloping S. for Standard 1/4 sec cor
marked 4 S.S.C.

A pine 44 in diam bears

N 19° W. 53 k dist marked S.C. 4 S.P.S.

Descend through heavy pine timber

46.00

Meadow land

49.75

Spring branch - course S.E.

55.00

Enter point of black pine timber.

60.50

Leave timber

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 First Standard Parallel of T. 5 S. R. 34 E

Willamette Meridian, Oregon.

Chains

65.75

Spring branch course N.E.

66.90

Fence, Sheep corral, House beam
 S 35° E.

71.00

Enter timber and ascend

80.00

Set post 4½ ft long 4 in square
 2 ft in ground on E slope of hill
 in black pine timber for
 standard cor to sec 35 and 36
 marked

S.E. T 5 S R 34 E on N face

S 36 on E and

S 36 on W face with 1 notch on
 the E and 5 notches on W face from which

A pine 8 in diam beam

N 56° E 28 lbs dist marked

T 5 S R 34 E S 36 B.T.

A pine 12 in diam beam

N 59° W 59 lbs dist marked

T 5 S R 34 E S 35 B.T.

Land high broken and

mountainous
Soil rocky gravelly 4th rate
Timber pine fir and tamarack.

W. on S boundary of sec 35.
Pa 20° E.

Ascend through black pine timber
undergrowth of same and down
timber.

8.50 Rock 10x15x10ft high bears
No 30 lke

22.00 Bluff of rocks 50ft high bears
No.

35.00 Ascend through open pine timber
Descend through thick timber

40.00 Set post 3 1/2 ft long 3 ins square
18 ins in ground on S.W. hillside
50ft from summit for standard
1/4 sec cor marked 1/4 S.S.E. on N face
A pine 4 ins diam bears ^{from which}
No 40° E. 40 lke dist marked S.E. 1/4 S.B.S.

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First Standard Parallel of T. 58 R. 34E

Willamette Meridian, Oregon.

- Chain
A pine 12 in diam bears
N 59° W. 59 lks dist marked S. C. & B. S.
- Descend through thick pine
and tamarack.
- 45.00 Center of hollow course S. E.
Ascend through dense black pine
and fallen timber.
- 77.50 Enter table land densely covered
with black pine.
- 80.00 A pine tree 4 in diam which I
marked for Standard cor to sec
34 and 35.
- S. C. S. S. R. 34E on N
S 35 on E and
S 34 on W. face with 2 notches
on the E and 4 notches on the W. face.
- A tamarack 22 in diam bears ^{from which}
N 39° W. 36 lks dist marked
S. S. R. 34E S 34³⁴ B. S.
- A pine 3 in diam bears
N 70° E 22 lks dist marked

First Standard Parallel of T 5S R. 34E

Willamette Meridian, Oregon.

Chains

T 5S R 34E S 35 B 1

Land high broken and mountainous

Soil rocky and gravelly 4th rate
Timber fir pine and tamarack.

W. on S boundary of sec. 34
Pa. 20° E.

Descend through dense black pine heavy scattering and fallen poles

16.00

Trail course W

17.50

Enter hollow course W

28.00

Ravine course N.W.

Ascend through dense pine

33.00

Descend through dense pine

40.00

Set post 3 1/2 ft long 3 in x 3 in square
18 in in ground on W side of steep hill 100 ft above creek for Standard 1/4 sec. cor. marked S 1/4 S on N. from which
A pine 4 in diam bears.

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First Standard Parallel of T. 58 R. 34E

Willamette Meridian, Oregon.

- | | |
|--------|--|
| Chains | N 27° W. 7 lks dist marked S. C. 4 S. B. T.
A pine 6 ins diam bears |
| 41.75 | N 52° E 16 lks dist marked S. C. 4 S. B. T.
A stream 5 lks wide course N.
Ascend |
| 54.86 | Point of rocks ascend along N.
side of canyon |
| 58.00 | Descend |
| 60.15 | Bottom of ravine
Ascend through open pine |
| 80.00 | Set post 4½ ft long 4 ins square
2 ft in ground on S side of ridge
N side of canyon 30 ft below
summit for Standard cor to
sec 33 and 34 marked
S. C. 58 R. 34 E on N.
S 34 on E and
S 33 on W face with 3 notches
on E and W side from which
A pine 8 ins diam bears
N 63° E 18 lks dist marked |

FINAL OATHS FOR SURVEYS.

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 First Standard
parallel South lines of through Ranges
34, 35, 36, 37 E of Willamette Meridian, Oregon,
 showing the respective capacities in which they acted :

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

FINAL OATHS OF ASSISTANTS.

We hereby certify that we assisted J. C. Cooper
 U. S. Deputy Surveyor, in surveying all
 those parts or portions of the First (1st) Standard
parallel South through Ran-
ges 34, 35, 36 & 37 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 es-
 tablished, according to the instructions furnished by the U. S. Surveyor General of
 Oregon.

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

Subscribed and sworn to before me, this Second 12th day of
September 1887.

[SEAL.]

Robert J. Slater
Notary Public

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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. Tolson

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 first

Standard Parallel South through Ranges 34, 35, 36 & 37

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 sixth

day of February, 1882.

Henry Warner
Notary Public



Office U. S. Surveyor General,Portland, Oregon, *April 5,* 188*2*

The following Field Notes of the Survey of
First Standard Parallel
through T. 5 S. Rgs. 34. 35. 36
37 E. Will. Mer. Or.
executed by *Jacob C. Cooper*
under *his* contract No. *397*
dated *July 14"* 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.