

FIELD NOTES

Of the ^{re-}survey of the Base Line
 Lines of through Ranges 36 + 37 East

....., Willamette Meridian,
 Oregon, as surveyed by Harman D. Gradin
 U. S. Deputy Surveyor, under his Contract No. 452

dated June 16"....., 1882

Survey commenced, August 29"..... 1882

Survey completed, September 12"..... 1882

NAMES AND DUTIES OF ASSISTANTS.

....., Compassman.
Abraham Blanchard, Chainman.
Henry King, Chainman.
Albert Campbell, Chainman.
Henry Pinto, Chainman.
Geo. H. Huitt, Axeman.
, Axeman.
, Flagman.

316 PRELIMINARY OATHS OF ASSISTANTS:

We, Abraham Blanchard, Henry King,
Albert Campbell and Henry Pinto

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 Base Line through
Ranges 36 and 37 East

Willamette Meridian, Oregon.

Abraham Blanchard, Chainman.

Henry King, Chainman.

Albert Campbell, Chainman.

Henry Pinto, Chainman.

Subscribed and sworn to before me, this twenty-ninth

day of August 1882

[SEAL.]

H. D. Gradon
Notary Public

We, J. Geo. W. Huitt, 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 Base Line through
Ranges 36 + 37 East

Willamette Meridian, Oregon.

J. Geo. W. Huitt, Axeman.

Axeman.

Subscribed and sworn to before me, this twenty-ninth

day of August 1882

[SEAL.]

H. D. Gradon
Notary Public

Re-survey of the Base Line through Range 37 East
 of T. ¹² R.

Willamette Meridian, Oregon.

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- West on Base Line of S. boundary of Sec. 31
 Va. $20\frac{1}{2}^{\circ}$ E
- Ascend mountain
- 29.00 Top of ridge, about 600 ft. above sea level.
 course S-E
- 40.00 Set a baralt line 19 x 10 x 7 in 14 in
 in the ground, for $\frac{1}{4}$ sec. cr., marked ^{B.D.} $\frac{1}{4}$ on
 N. face from which
 A cherry 3 in diam. bears N. 50° E. 15 lb
 dist., marked $\frac{1}{4}$ S. B.D.
- no other tree within limits and raised
 a mound of stones along side
- The old $\frac{1}{4}$ sec. cr., a badly decayed
 post, bears N. 23° 10 the dist. I
 destroy the post and obliterate the
 marks on old bearing trees
- 46.50 Bottom of gulch, about 200 ft. below ridge.
 course S-E
- 103.45 The cor. to Twp 1 N., R. 36 & 37 E.
 which is a post 4 in square, marked
 S 31 T, N. 37 E. on N.E.
 S 36 T, N. R. 36 E. on N.W. with 6 notches

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Re-survey of the Base Line. Through Range 37 East
of T. R. 331

Willamette Meridian, Oregon.

- on N. E. + W. edges. from which
- A hemlock 14 in diam. bears N. 10° E. 46 loc
dist. marked J. N. R 37 E. S 31. B. J.
 - A hemlock 12 in diam. bears N. 20° W. 22 loc
dist. marked J. N. R 36 E. S 36. B. J.
 - A hemlock 10 in diam bears S. 35° W. 26 loc
dist. marked J. S. R 36 E. S 1. B. J.

Land mountainous

Soil 2nd + 3rd rate

Heavily timbered with fir, tamarac
spruce

August 29th 1882

— General Description —

This line runs along the north slope
of the Blue Mountains. The townships
on each side are rough & broken, but
contain large groves of fir, tamarac
spruce timber of fair quality and some
streams of pure, clear water.

Herward D. Graden

U. S. Deputy Surveyor

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Re-survey of the Base Line, through Range ³⁶ East
of T. R.

332

Willamette Meridian, Oregon.

Preliminary to subdividing T. N. R
36 E. I ran West on a Blauk
line on the S. boundary of Sec 36
and at 40.70 chs I found the $\frac{1}{4}$ sec cor.
and at 81.50 chs I found the sec cor.
I continued my line West and found
the chaining to be too long on each
mile through the township and at
6 miles 10 chs and 50 lbs found the
Cor. to Tps 1 N. R. 35 + 36 E. and to
be due W. of the starting cor. as no
subdivision lines had been closed on
either side of this line, I resurveyed
the same as follows:

On the night of September 11th 1882
I took an observation on the star
Polaris in accordance with instruct-
ions contained in the Manual of
Survey, and drove pickets on the line
thus established.

Survey commenced September 12th 1882
with a Burt's improved solar compass

Resurvey of the Base Line through Range 36 East

of T. R.

Willamette Meridian, Oregon.

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Before commencing this survey I test my compass on the line established last night and find it correct. I begin at the cor. to T^{ps} 1 N. R^s 36 + 37 E. which is a post 4 in square, marked

S 31 T, N. R 37 E. on N. E. - end

S 36 T, N. R 36 E. on N. W. with 6 notches on N. E. side, edge. from which a hemlock 14 in diam. bears N. 10° E. 46 lbs dist. marked T, N. R 37 E. S 31 - B. I.

A hemlock 12 in diam. bears N. 20° W. 22 lbs dist. marked T, N. R 36 E. S 36. B. I.

A hemlock 10 in diam. bears S 35° W. 26 lbs dist. marked T, N. R 36 E. S 1 - B. I.

Thence I run

West on Base Line on S. boundary of Sec. 36 N. 20° E.

Through timber

40.00 Set a post 3 ft long, 3 in square, 24 in in the ground, for 14 sec. cor., marked B. L. 14 S. on N. face, from which

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Resurvey of the Base Line through Range 37 East

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of T. R.
Willamette Meridian, Oregon.

A tamarack 8 ins diam. bears N. 30° W. 12 chs
dist., marked 1/4 S. B. I.

A tamarack 20 ins diam. bears S. 30° W. 37 chs
dist., marked 1/4 S. B. I.

The old 1/4 sec. cor. a post bears N. 70 chs
dist. I destroy same and obliterate
marks on old bearing trees, 2 tamaracks

50.00 Leave heavy timber, course N. & S.

80.00 Set a post 4 ft long, 4 ins square, 24
ins in the ground, for cor. to Sec's 35
& 36. marked

B. L. I, N. R 36 on N.

I 36 on E. and

I 35 on N. faces, with 1 notch
on E. side 5 notches on N. faces. Gravel
raised a mound of stone around post

The old sec. cor. a post in mound of
stone bears N. 1.50 chs dist. I destroy
both post and mound

Land mountainous Soil 2 1/2 mts
Heavily timbered with fir, tamarack
& pine on E. 50 chs

Resurvey of the Base Line through Range 37 East

of T.

R.

Willamette Meridian, Oregon.

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Went on Base Line on S. boundary of Sec. 35
T. 20 E.

Descend mountain

40.00 Set a basalt stone $14 \times 12 \times 10$ ins 9 ins in
the ground, for $\frac{1}{4}$ sec. cor., marked ³⁵⁻ $\frac{1}{4}$ on
N. face, and raised a mound of stone
along side -

The old $\frac{1}{4}$ sec. cor. a post in stone
mound bears N. 85° W. dist. I
destroy both post and mound

46.50 Foot of hill, about 100 ft. below sec. cor.
course N.

54.08 I intersect graded Road bed of the
Baker City Railway Line, course N.

80.00 Set a basalt stone $20 \times 8 \times 8$ ins, 15 ins
in the ground, for cor. to Sec's 34 & 35
marked B.L. with 2 notches on E. and
4 notches on N. edges, and raised a
mound of stone along side

I made careful search but could find
no trace of old sec. cor.

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Resurvey of the Base Line through Range 36 East

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of T.

R.

Willamette Meridian, Oregon.

Land rough & mountainous
Soil sandy loam & clay 2nd & 3rd rates
Timber, scattering pine

West on Base Line on S. boundary of Sec 34
Va. 2 30 E.

Ascend about 150 ft. to
10.00 Top of ridge, course N.E.
Descend about 200 ft. to

22.00 Bottom of gulch, course N.E.
Ascend about 200 ft. to

36.00 Top of ridge, course N.E.

40.00 Put a post 3 ft. long, 3 ins square, 24
ins in the ground, for $\frac{1}{4}$ sec. cor., marked
B.L. $\frac{1}{4}$ S. on N. face, from which
A tamarack 18 in diam. bears N. 80° E. 19 cks
dist., marked $\frac{1}{4}$ S. B.D.

A tamarack 12 in diam. bears S. 10° E. 52 cks
dist., marked $\frac{1}{4}$ S. B.D.

I made careful search but could find
no trace of the old $\frac{1}{4}$ sec. cor.

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Resurvey of the Base Line through Range 36 East
of T. _____ R. _____
Willamette Meridian, Oregon. 337

54.00 Bottom of gulch, about 150 ft. below ridge,
course N.E. —

80.00 Set a post 4 ft. long, 4 in square, 24
ins in the ground, for cor. to Secs 33 &
34, marked

B.L. S. 1 N. R. 36 E. on N. —

S 34 on E. end

S 33 on N. face, with 3 notches on
E. & N. faces, from which

A fir 20 ins diam. bears N. 75° E. 62' W.
dist. marked S. 1 N. R. 36 E. S 34. B.D.

no other trees within limits and
raised a mound of stone alongside
I made careful search but could
find no traces of old ~~see~~ see. cor.

Land mountainous
Soil stony & ^{red} rate
Timber scattering pine, fir and
tamarack

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Resurvey of the Base Line through Range 36 East,
of T. R.

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Willamette Meridian, Oregon.

West	<p>on Base Line on S. boundary of Sec. 33 Va. $20\frac{1}{4}^{\circ}$ E.</p>
4,00	Top of ridge, course S.
12,00	Bottom of gulch, about 100 ft below ridge, course S.
40,00	<p>Set a post 3 ft long, 3 in square, 2 1/2 in in the ground, for $\frac{1}{4}$ sec. cr., marked B.L. $\frac{1}{4}$ S. on N. face, from which A pine 12 in diam. bears N. 30° W. 123 cts dist., marked $\frac{1}{4}$ S. B.L. no other trees within limits and raised a mound of stones around post The old $\frac{1}{4}$ sec. cr., a post in mound of oval, bears N. 76.5 cts dist. I destroy both post & mound</p>
42,00	Top of ridge, about 100 ft above gulch, course S.
60,00	Bottom of gulch, about 100 ft. below ridge, course S.
72,00	<p>Top of ridge, about 100 ft above gulch, course S. Descend about 100 ft. to</p>

Resurvey of the Base Line through Range 36 East
of T. R.

Willamette Meridian, Oregon.

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80.00

Set a post 4 ft. long, 4 in square, 24
in in the ground, for cor. to Secs 32 + 33
marked

B.L. T. N. R 36 E.

S 33 on E. end

S 32 on N. faces, with 4 notches
on E. and 2 notches on N. faces, from which

A fir 8 in diam. bears N. 45° E. 24 ch
dist. marked T. N. R 36 E. S 33. B. J.

A tamarack 14 in diam. bears N. 55° W. 33 ch
dist., marked T. N. R 36 E. S 32. B. J.

no other tree within limits raised
a mound of stones around post -

The old sec. cor. a post bears N. 87° W. ch
dist. I destroy same and obliterate
the marks on old bearing trees, 2 pines

Land mountainous

Soil 2nd rate

Timber scattering fir pines and
tamarack

Recovery of the Base Line through Range 3 ~~6~~ East

of T. ²²⁷ R.

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Willamette Meridian, Oregon.

West

on Base Line on S. boundary of Sec. 3 2
 Va. 21° E.

Descend

40.00 Set a post 3 ft. long, 3 in square, 24
 in in the ground, for $\frac{1}{4}$ sec. cor., marked
 B.L. $\frac{1}{4}$ S. on N. face, from which
 a pin 24 in diam, bears N. 45° E. 67 lds
 dist., marked $\frac{1}{4}$ S. B.D.

A pin 30 in diam bears South 17 lds
 dist., marked $\frac{1}{4}$ S. B.D.

The old $\frac{1}{4}$ sec. cor. a post bears N.
 11.00 the dist. I destroy same and
 obliterate the mark on old bearing
 trees. 2 pins.

49.00 Foot of hill, about 1100 ft, below
 last - sec. cor. course N.

50.00 Dry bed of Meacham creek, 100 lds wide,
 course S.

52.50 Hagan road, course N.

53.50 Ascend about 1100 ft. to

80.00 Set a basalt stone 24 x 10 x 4 in 18 in in
 the ground, for cor. to Sec's 3 1 + 3 2,

Recovery of the Base Line through Range 36 East

of T.

R.

Willamette Meridian, Oregon.

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marked B.L. with 5 notches on E
and 1 notch on N. edge, from which
A pine 34 in diam. base S 80° N. 63 lds
dist. marked S, N, R 36 E. S 6. B.L.

A pine 12 in diam. base N. 40° N. 154 lds
dist. marked S, N, R 36 E. S 31. B.L.

The old sec. on a post. base N. 12, 20
the dist. I destroy same, and obliterate
marks on old bearing trees

Land mountainous
Soil stony & gravelly
Timber scattering pine, fir and
Larrea

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Resurvey of the Base Line Through Range 36 East
of T. _____ R. _____
Willamette Meridian, Oregon.

West

on Base Line on S. boundary of Rec. 31
Va. 210 E

11 50 Ascend about 200 ft to
Top of hill, course N + E

40.00 Put a basalt stone 16 x 12 x 4 in. 11 in in
the ground. for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on
N. face, from which

A fir 12 in diam. bears N. 50° W. 23 lks
dist., marked $\frac{1}{4}$ S. B. J.

A pine 6 in diam. bears S. 10° E. 30 lks
dist., marked $\frac{1}{4}$ S. B. J.

The old $\frac{1}{4}$ sec. cor. a post with 2 bear-
ing trees, bears N. 11.50 lks dist. I destroy
the post and obliterate the marks on bearing
trees

9050 The cor. to Tps 1 N. R's 35 + 36 E
which is a post 4 in square, marked
S 31 J, N. R 36 E on N. E
S 36 J, N. R 35 E on N. W. faces, with
6 notches on N. E + W. edges, from which
A spruce 8 in diam. bears N. 60° E. 31 lks
dist., marked S, N. R 36 E. S 31. B. J.

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Resurvey of the Base Line through Range 36 East
of T. R.

Willamette Meridian, Oregon.

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A pine 14 in diam. base N. 150 N. 37 cor
dist. marked J. N. R. 35 E. S. 36 - B. J.

A pine 12 in diam. base S 50 N. 32 cor
dist. marked J. N. R. 35 E. S. 1 - B. J.

Land mountainous

Soil - 2 us oaks

Heavily timbered with pine, fir and
tamarack

September 12th 1882

— General Description —

This line runs across an exceed-
-ingly rough mountainous country.
The townships on each side are
rough & broken, but contain a large
amount of fir pine & tamarack timber
of fair quality

Hiram D. Gradow
U. S. Deputy Surveyor

FINAL OATHS FOR SURVEYS.

A list of the names of the individuals employed by Arman D. Gradin, 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 Base Line through Ranges 36 + 37 lines of East Willamette Meridian, Oregon, showing the respective capacities in which they acted :

- Abraham Blanchard, Compassman.
- Henry King, Chainman.
- Albert Campbell, Chainman.
- Henry Pinto, Chainman.
- Geo. W. Huitt, Axeman.
- _____, Axeman.
- _____, Flagman.

FINAL OATHS OF ASSISTANTS

We hereby certify that we assisted Arman D. Gradin, U. S. Deputy Surveyor, in surveying all those parts or portions of the resurvey of the Base Line through Ranges 36 + 37 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.
- Abraham Blanchard, Chainman.
- Henry King, Chainman.
- Albert Campbell, Chainman.
- Henry Pinto, Chainman.
- Geo. W. Huitt, Axeman.
- _____, Axeman.
- _____, Flagman.

Subscribed and sworn to before me, this twenty fourth day of September 1882

[SEAL.]

A. D. Gradin
Notary Public

FINAL OATH OF DEPUTY SURVEYOR.

I, Heruan D. Gradin

United States Deputy Surveyor do solemnly swear that in pursuance of in-

structions received from James C. Tolman

U. S. Surveyor General for Oregon, bearing date of the 16th

day of June, 1882 I have well, faith-
fully 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, surveying all those

parts or portions of the Base Line
through Ranges 36 + 37 East

Willamette Meridian, in the State of Oregon, as are represented in the fore-
going 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 pro-
visions of an Act of Congress approved August 8, 1846.

Heruan D. Gradin
U. S. Deputy Surveyor.

Subscribed and sworn to before me, this 22^d

day of December 1882

Bamford Robt
Notary Public

Office U. S. Surveyor General,Portland, Oregon, *March 31,* 188*3*

The following Field Notes of the Survey of the resurvey
of the Base Line through Ranges
36 and 37 E., Will. Meridian,
Oregon

executed by *Herman D. Gradon*

under his Contract No. *457*, dated *June*
16th 188*2*, having been critically examined, the

necessary corrections and explanations made, the said field notes
and the survey they describe, are hereby approved.

James C. Tolman
Surveyor General.

