

*Platted* *a* *a* *Revd, April 3 1902* *1*

## FIELD NOTES

*Of the Survey of the Section* *Lines of*  
*Township No. 2 North, Range No. 86 East,*  
*Willamette Meridian, Oregon,*

BY

*Charles S. Campbell*

*Deputy Surveyor,*

UNDER

*his joint Contract No. 733 dated March 22, 1901*

*Survey commenced June 15, 1901.*

*Survey completed June 19, 1901.*

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*Copied for Washington Sept 4-02 - Division*

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## FIELD NOTES

Of the survey of the ~~exterior~~

Lines of Township No. 2 North,

Rang No. 36 East, Willamette Meridian, Oregon,

as surveyed by Charles L. Campbell

<sup>joint</sup>

U. S. Deputy Surveyor, under his contract No. 733

dated March 22, 1901.

Survey commenced June 15, 1901.

Survey completed June 19, 1901.

## NAMES AND DUTIES OF ASSISTANTS.

Lyde W. Riddell, Chairman.

Ray I. Campbell, Chairman.

, Chairman.

, Chairman.

W. A. Best Campbell, Axman.

, Axman.

, Flagman.

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PRELIMINARY OATHS OF ASSISTANTS.

We, Clyde W. Riddell and

Roy T. Campbell

do solemnly swear that we will faithfully execute the duties of chainmen; 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 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 Douglas County No. 2 North, Range No. 36 East  
Willamette Meridian, Oregon.

Clyde W. Riddell, Chainman.

Roy T. Campbell, Chainman.

, Chainman.

, Chainman.

Subscribed and sworn to before me this

day of June, 1901.

Charles L. Campbell

U. S. Dept. Surveyor

[SEAL.]

I, We, W. A. Burd Campbell

and

do solemnly swear that we will well and truly perform the duties of axmen, mound men, and flagman 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

Douglas County No. 2 North, Range No. 36 East,  
Willamette Meridian, Oregon.

W. A. Burd Campbell, Axman.

, Axman.

, Flagman.

Subscribed and sworn to before me this

day of June, 1901.

Charles L. Campbell

U. S. Dept. Surveyor

[SEAL.]

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*Meanders of* ..... *Pages* ..... *to* .....

East boundary of T. & N., R. 86 E.

Chain Survey commenced  
June 15, 1901, and  
executed with a  
W. & L. E. Gurley solar  
compass, No. 210.  
The horizontal limb  
is provided with  
two double verniers  
placed opposite to  
each other, reading  
to single minutes  
of arc, which is  
also the least  
count of the verniers  
of the latitude and  
declination arcs.

The instrument  
was examined,  
set up on the true  
meridian at The  
valley, Oregon, found  
correct and was  
approved by Mr.  
Chas. A. Leffelz, C. E.  
May 23, 1901, under  
acknowledgment given  
him by the surveyor

East boundary of T. & N., R. 86 E. - Cor  
chairs general for Oregon,  
May 7, 1901.

I examined the  
adjustments of the  
instrument and  
find no level or  
collimation error;  
then to test the  
solar apparatus  
by comparing its  
indications  
resulting from  
solar observations  
made during a.  
m. and p. m.  
hours, with a  
true meridian de-  
termined by obser-  
vations of Polaris,  
I proceed as follows:

June 15, 1901:  
At my camp, near  
the cor. of sec. 13,  
14, 23 and 24, T. & N.,  
R. 86 E., latitude  $45^{\circ}$   
 $58' 48''$  N., longitude  
 $118^{\circ} 15' W.$ , at  $4^{\frac{4}{5}} 05^{\text{m}}$

East boundary of S. N. R. 86 E. - Con.  
Chaine P. mt., L. m. t., I  
set off  $45^{\circ} 34'$  on the  
lat. arc;  $23^{\circ} 2' N.$   
on the decl. arc;  
determine with the  
solar a true  
meridian; and  
mark a point  
thereof on a stone  
set firmly in the  
ground 5:00 o'clock  
P.M. of my station.

At  $1\frac{4}{5}^{\text{th}}$  50<sup>m</sup> a.m.,  
by my watch  
Twinkie is  $2^{\text{m}} 30^{\text{s}}$   
past of L. m. t., I  
observe Polaris at  
eastern elongation,  
in accordance  
with manual of  
instructions, and  
mark a point on  
the line thus  
determined on a plug  
driven in the  
ground, 5:00 o'clock. N.  
of my station.

Cost boundary of T. & N., R. 86 E. - Con.  
Chains June 15, 1901.

June 13: At 8<sup>h</sup> 15<sup>m</sup> a.m., L.M.T., I lay off the azimuth of Polaris,  $1^{\circ} 44' 10''$  to the west, and mark the true meridian thus determined, by cutting a small groove in the stone set. June 15, on which the true meridian falls 0.3 inc. east of the mark determined by the solar.

At 8<sup>h</sup> 30<sup>m</sup> a.m., L.M.T., I set off  $45^{\circ} 39'$  on the east. arc;  $25^{\circ} 25'$  N. on the decl. arc; and mark a point in the true meridian determined with

Cost boundary of F. & H. R. & C. - Con.

Chains the solar, by a cross on the stone already set 5000 ft.

W. of my station; this point falls 0.4 mil. east of the true meridian established by the Polaris observations.

The solar app-  
roaches by p.m. and  
a.m. observations,  
defines positions  
for true meridians,  
respectively about  
 $0^{\circ} 21''$  east and  $0^{\circ} 16'$   
west of the meridian  
established by the  
Polaris observation;  
therefore, I conclude  
that the adjust-  
ments of the  
instrument are  
satisfactory.

The magnetic  
bearing of the true  
meridian, at  $\frac{4}{3}$  a.m.

Cost boundary of T. & N. R. & C. Co.  
 chain is St.  $20^{\circ} 30' W.$  The  
 angle thus de-  
 termined, reduced  
 by the table, gives  
 the mean mag-  
 netic declination  
 $20^{\circ} 26' 5''$ .

June 17, 1901

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I commence at the  
 cor. of sec. 13, 18,  
 19 and 24, on the  
 S. bdy. of the T. P.,  
 which is a basalt  
 stone,  $18 \times 9 \times 6$  ins.,  
 set loosely in the  
 ground, and  
 marked and with-  
 ness as described  
 by the surveyor  
 General, with the  
 exception of the  
 S. W. and N. W. bearing  
 trees which have  
 been destroyed  
 by fire from all

Cost boundary of T. & N., R. & C. - con.  
chain of appearance.

I reestablish the old  
coc. at the same  
point as follows:

Let basal stone,  
18 x 9 x 6 ins., 12 ins.  
in the ground for  
coc. of trees. 13, 18, 19  
and 24, marked  
with 3 notches on  
the S. and N. edges.  
From which  
a fir, 8 ins. diam.,  
bears N.  $60^{\circ}$  E., 21 lbs.  
dist., marked T. & N.,  
R. & C., S. 18, B. T.

A fir, 12 ins. diam.,  
bears S.  $29\frac{1}{2}$  W., 46 lbs.  
dist., marked T. &  
N., R. & C., S. 24, B. T.

A fir, 2 ins. diam.,  
bears N.  $36\frac{1}{4}$  W., 47 lbs.  
dist., marked T. &  
N., R. & C., S. 13, B. T.

Raise mound of  
stone, 2 ft. base,  $1\frac{1}{2}$   
ft. high, W. of coc.

Cost boundary of T. & N., P. 86 C. Con.  
chain Pile impracticable.

Prince Creek

W. of tree line  
bet. elev. 10 and 18.  
descend gradually  
along S. slope  
of mountain, through  
scattering pine and  
fir timber.

4000 ft. basal stones,  
20 x 10 x 5 in., 15 in.

is the ground for  
concrete cor., masked  
 $\frac{1}{4}$  on W. face. From  
which a fir, 16  
in. diam., bears  
S.  $57^{\circ}$  W., 69 lbs. dist.,  
masked  $\frac{1}{4}$  S. 13°  
E.T. No other  
tree in limits.

Raise mound of  
stone, 2 ft. base,  
15 ft. high W. of  
cor. Pile imprac-  
ticable.

Timber: At due  
cor., I set off

East boundary of S. & N., R. 86 E., Cont.

Chains 25°-24' N. of the  
decl. arc; and  
at 12<sup>h</sup> 01<sup>m</sup> p.m., l.  
m.s.t., observe the  
sun on the  
meridian. The  
resulting lat. is  
45° 38' which is  
about 0.2 less than  
the proper lat.

4.8.00 Slony point, bears  
N. 36° W.

Abrupt descent into  
canyon, through  
dark undergrowth  
and heavy timber.

54.41 A white fir, 30.  
in. diam., on line;  
on which, I cut a  
notch on N. end.  
S. ridge is

54.41 Foot of steep descent  
creek, 25 lbs. wide,  
slow current, course  
N. 80° W.

This stream sinks  
just W. of line.

East boundary of T. 2 N., R. 86 E. Cont.

- 57.77 Tamarack, 35 in.  
diam, on line, I  
mark with 2  
notches on W. and  
S. sides.
- 67.70 Top of mountain,  
500 ft. below rec.  
cor., bear N.  $80^{\circ}$  E.,  
S.  $80^{\circ}$  W.
- 67.75 S. Fork Umatilla  
River, 30 lbs. wide,  
slow current, pure  
water, course  
N.  $80^{\circ}$  E.  
Pass over timbered  
bottom lands,  
not subject to  
inundation.
- 75.75 Leave bottom  
lands, bear N.  $40^{\circ}$   
E., S.  $40^{\circ}$  W., and ascend  
steep bank.
- 78.00 Top of bank, 20  
ft. high, bear N.  
 $45^{\circ}$  E., S.  $60^{\circ}$  W.  
Outer dense fir  
thicket bear N.

Cost boundary of T. & N., R. 86 E. - Con.

Chains 60° E., N. 60° W.

Ascend gradually along E. slope of mountain.

8000 ft fir, 10 in. diam.,  
for nos. of trees. 2, 12,  
13 and 18, I marked  
T. & N., S. 7 on N.E.,  
R. 86 E., S. 18 on S.E.,  
R. 86 E., S. 13 on S.W., and  
T. & N., S. 12 on W. W. sides;  
with 4 notches on  
S. and 2 notches on  
W. sides; from  
which

A fir, 10 in. diam.,  
bear N. 10° E., 18 lbs.  
dist., marked T.  
& N., R. 86 E., S. 7, B. F.

A fir, 12 in. diam.,  
bear S. 15° E., 26 lbs.  
dist., marked T. & N.  
R. 86 E., S. 18, B. F.

A lamarack, 8 in.  
diam., bear S. 55° W.,  
25 lbs. dist., marked  
T. & N., R. 86 E., S. 13, B. F.

18  
12

East boundary of S. & N. R. 56 C. - Con.  
Chains of fir, 12 in. diam.,  
bear W.  $56^{\circ} W.$ , 29  
ft. elev., marked  
S. & N. R. 56 C., S. 12,  
B. T.

Land mountainous.  
Soil, gravelly loam  
and slate; and  
and with rock.

Timber, pine, fir,  
spruce, tamarack  
and cottonwood;  
undergrowth, maple  
cherry, huckleberry  
and willow.  
Mountainous or  
heavily timbered  
land, 8000 ft.

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June 18: at  $3^{\text{rd}}$  m<sup>in</sup>  
P. M., l. m. t., I  
set of  $45^{\circ} 40'$  of the  
lat. arc;  $28^{\circ} 24' W.$   
of the decl. arc;  
and determine  
a true meridian

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Cost boundary of T. & N. R. & C. Co.

Chains with the solar  
at the cor. of sec's.

7, 12, 13 and 18.

Thence I run

W. of true line  
bet. sec's. 7 and 12.

Ascend along S. slope  
of moraine, through  
heavy timber and  
dense undergrowth.

1.78 A tamarack, 7, 24  
in. diam., on  
line, I mark  
with 2 notches on  
N. and S. sides.

12.00 Leave heavy thicket  
and enter scattering  
timber, bears  
E. and W.

15.00 Ridge point, bears  
E. and W.  
descend into ravine.

20.00 Dry bed of stream,  
100 ft. wide, course  
N.  $80^{\circ}$  E. Water  
sinks just W. of  
line. Ascend.

~~East boundary of T. & R. R. Co.~~

- 56.00 Ridge, 800 ft. high  
bears N. E., S. W.  
descend along E. slope  
of mountain.
- 4000 Det limestone, 15x  
10 x 8 ins., 10 ins. in  
ground for  $\frac{1}{4}$  sec.  
cor., marked  $\frac{1}{4}$  of  
W. face. Front  
which  
a fir, 10 ins. diam.,  
bears N.  $10^{\circ}$  E., 5 lbs.  
dist. marked  $\frac{1}{4}$  l. 7  
B. F.
- A fir, 12 ins. diam.,  
bears S.  $76^{\circ}$  W., 5 lbs.  
dist. marked  $\frac{1}{4}$  l.  
12, B. F. This  
cor. stands about  
1.500 ft. above the  
Umatilla River.
- 62.25 Dry bed of stream,  
1 Lake. Wedge, in  
canyon 500 ft. deep,  
course S.  $50^{\circ}$  E.  
Water strike of mt  
W. of line.

Cast boundary of S. & N., R. 86 E. - con.

Ascend along W. slope  
of mountain, bears  
N. W., S. E.

8000 Let basalt stone, 50x

12 x 6 in., 22 in. in

the ground for

cor. of sec. 1, 6, 7

and 12, marked

with 5 molches by

S. and 1 molch by

W. edge. Found

rotted a jar, 18 in.

diam, bears S. 29° W.,

78 lbs. dist, marked

S. & N., R. 86 E. S., B.T.

No other trees in  
limits. Raise

round of stone,

3 ft. base, 2 ft. high

W. of cor. Thick

cor slands about

1800 ft. above

Umatilla River.

Land monotonous.

Soil sandy gross

loam; very rate.

Timber, pine, fir,

East boundary of T. & N., P. & C. Co.

Chains larch, cottonwood and spruce;  
undergrowth, maple,  
cherries and yew.

Most timbered land  
5 o'clock.

June 18, 1901.

June 19: at  $\frac{4}{2}^{\text{m}}$  250  
a.m., l.m.t., I  
set off  $45^{\circ} 41'$  on  
the lat. arc;  $23^{\circ}$   
 $26'$  N. on the decl.  
arc; and determin-  
ing a true  
meridian with  
the solar at the  
corr. of sec. 1, 6, 7  
and 8.

Hence I run  
N. of true line  
bet. sec. 1 and 6.  
Ascend along W.  
slope of Brown  
lairg Thru a  
scattering timber.

- Coast boundary of S. & N. R. & G. - con  
and occasional  
patches of dense  
undergrowth.
- 85.00 Enter heavy timber  
bears E. and W.
- 4000 Set ironstone, 12 x 8  
8 x nine, 10 nine  
in ground for  $\frac{1}{4}$  sec.  
cor. marked  $\frac{1}{4}$   
or W. face. From  
which a fir, 20 in.  
diam., bears  
N.  $10^{\circ}$  E., 47 lbs. dist.  
marked  $\frac{1}{4}$  L. 6, B. T.  
A fir, 18 in. diam.  
bears S.  $18^{\circ}$  W., 9 lbs.  
dist; marked  $\frac{1}{4}$   
L. 1, B. T. This  
cor. stands about  
800 ft. above sec.  
cor.
- 48.00 Leave timber,  
bears E. and S.  $60^{\circ}$  W.
- 51.00 Summit of main  
divider bet. Umatilla River and  
Meacham Creek,

24  
18

East boundary of T. & N., R. 36 C. - Con.

Chains 1800 ft. above  
Umatilla River,  
bear N.  $10^{\circ}$  E., S.  $60^{\circ}$   
W.

Pass along level  
summit of  
mountain.

61.20 Trail to Gibbons,  
course N.  $10^{\circ}$  E., S.  $60^{\circ}$   
W.

70.20 Enter heavy pine  
and fir timber,  
bear N.  $60^{\circ}$  W., S.  $30^{\circ}$  E.  
descend gradually  
N. slope of mountain.

71.5-9 Intersect Tp line  
24.84 chs. E. of the S. W.  
cor. of T. & N., R.  
37 C.  
Set basalt stone,  
15x12x8 in., 10 in.  
in the ground for  
crossing does of Tp.  
S. W. R. 36 and 37  
E., on S. bdy. of Tp  
S. W., R. 37 S. marked

Coast boundary of T. & N., R. 36 E. - Con.

Chains with C. C. on S.;  
and with 6 grooves  
on S., E., and W.  
faces. From  
which a fir, 10  
ins. diam., bears  
S.  $45^{\circ}$  E., 28 lbs. dist.,  
marked T. & N.,  
R. 36 E., S. 6, B. F.

A fir, 12 ins. diam.,  
bears S.  $50^{\circ}$  W., 39 lbs.  
dist., marked T.  
& N., R. 36 E., S. 1, B. F.

Note - I destroy  
all marks of like  
S. W. cor. of T. p. & N.,  
R. 36 E., which is a  
fir, 24 ins. diam.,  
marked and mis-  
marked as described  
by the surveyor  
General, that  
pertains to T. p.  
& N., R. 36 and 37 E.  
Land, mountainous.  
Soil, stony and  
loamy; drift and 1st. rate.

96  
28

Cast boundary of S. & N. R. & C. Co.  
Champlain timber, pine, fir,  
larch, spruce; undergrowth  
willow, mountain  
laurel and yew.  
Mountainous land  
71.59 acres.

June 14: at  
this closing 3 p.  
m., I set off  
 $23^{\circ} - 24'$  N. on the  
decl. arc; and  
at  $12^{\text{th}} \frac{1}{2}$  01 p. m.,  
L. M. T., observe  
the sun on the  
meridian; the  
resulting lat. is  
 $45^{\circ} 41.5'$ , which  
is about 0' greater  
than the proper  
latitude.

June 19, 1901.

23  
21

Cost boundary of T. & N., R. 86 C. - Con.

North half

Boundaries of T. & N., R. 86 C.

Latitudes, Departures, Closing Error

Line	Bearing dis.	Lat.		Dep.	
		N.	S.	E.	W.
		Chs.	Chs.	Chs.	Chs.
Sbdy Irregular	402.34			.57	482.34
Res., N. 20° E.	246.55	233.50		84.92	
N. " East	246.42		231.58	246.42	
E. " South	231.59		231.59		
Convergence				.86	
<u>Totals</u>		288.50	216.43	170482.44	
		<u>282.16</u>			<u>431.70</u>
Errors in	Lat.	1.34	Dep.	0.34	

General description.

The northern half  
of T. & N., R. 86 C. con-

tain some good  
arable land.

There are several

East boundary of T. & R. S. E. - Con.

patches of good  
fir and pine  
timber. Water  
is very plentiful  
and the entire  
region is covered  
with a rich,  
nutritious growth  
of grass. The  
remaining half of  
the township  
should be subdivi-  
sioned.

Charlie L. Campbell.

U. S. Dept. Surveyor.

Note. - No person  
authorized to ad-  
minister oaths,  
other than myself  
is available with-  
out great delay  
and expense;  
therefore, I administer  
the required pre-  
liminary and final  
oaths.

Charles L. Campbell,  
U.S. Dept. Surveyor.

## FINAL OATHS FOR SURVEYS.

A list of the names of the individuals employed by Charles L. Campbell, U. S. Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the surveys of the exterior

lines of Township No. 2 North,  
Range No. 36 East, Willamette Meridian, Oregon, showing the respective capacities in which they acted:

<u>Clyde W. Riddell</u>	, Compassman.
<u>Roy T. Campbell</u>	, Chainman.
	, Chainman.
	, Chainman.
<u>W. A. Burt Campbell</u>	, Axman.
	, Axman.
	, Flagman.

## FINAL OATHS OF ASSISTANTS.

We hereby certify that we assisted Charles L. Campbell, U. S. Deputy Surveyor, in surveying all those parts or portions of the exterior lines

of Township No. 2 North,  
Range No. 36 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:

<u>Clyde W. Riddell</u>	, Compassman.
<u>Roy T. Campbell</u>	, Chainman.
	, Chainman.
	, Chainman.
<u>W. A. Burt Campbell</u>	, Axman.
	, Axman.
	, Flagman.

Subscribed and sworn to before me, this first day  
of June, 1891.

[SEAL.]

Charles L. Campbell,  
U. S. Deputy Surveyor.

## FINAL OATH OF DEPUTY SURVEYOR.

I, Charles L. Campbell, United States

Deputy Surveyor, do solemnly swear that in pursuance of instructions received from Robert A. Habershon, U. S.

Surveyor-General for Oregon, bearing date of the third

day of April, 1901, 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 Manual of Surveying Instructions, and the laws of the United States, surveyed

all those parts or portions of the exterior lines of Township

No. 2 North, Range No. 36 East,

Willamette Meridian, in the State of Oregon, which 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 Manual of Surveying Instructions and 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.

Charles L. Campbell  
U. S. Deputy Surveyor.

Subscribed by said Charles L. Campbell, U. S.

Deputy Surveyor, and sworn to before me this 8<sup>th</sup>

day of Feb, 1902

Eel River  
County Clerk

## Office of U. S. Surveyor-General,

PORTLAND, OREG., March 4, 1903.

The foregoing field notes of the survey of the Part of the  
East Boundary of Township  
2 South Range 36 East  
Will. Mtn Oregon

executed by Charles L. Campbell U.S.  
Deputy Surveyor

under his contract No. 733, dated March

22d.

, 1901, having been critically examined,

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

Henry Meekins  
U. S. Surveyor-General.