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A ROBERT A. HABERSHAM,
U. S. Surveyor General for Oregon.

FIELD NOTES

of the resurvey
Of the O. S. & W. boundaries & ^{Retraacement} ~~Lines~~ of
of S. 1/4 of Sec. 13-14-15-16-17-18.
T. 3 North R. 37 East

Willamette Meridian, Oregon,

BY

William E. Campbell

Deputy Surveyor,

UNDER

Joint Contract No. 708 dated May 1, 1900

Survey commenced July 24, 1900

Survey completed August 29, 1900

Platted

Copied for Washington 3-28-1901-D

FIELD NOTES

298

Of the ^{re}survey of the *Exterior*

Lines of *Fractional Township No. 3 North*

Range No. 37 East, Willamette Meridian, Oregon,

as surveyed by *William E. Campbell*

U. S. Deputy Surveyor, under his ^{joint} contract No. *718*

dated *May first*, 1900.

Survey commenced *July 24th*, 1900.

Survey completed *August 29th*, 1900.

NAMES AND DUTIES OF ASSISTANTS.

Charles L. Campbell, Chainman.

Boz J. Campbell, Chainman.

_____, Chainman.

_____, Chainman.

Charles L. Campbell, Axman.

Boz J. Campbell, ^{Moundman}
~~Axman~~.

_____, Flagman.

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PRELIMINARY OATHS OF ASSISTANTS.

WE, Charles L. and

Roy I. 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 fractional Township No. 3 North, Range No. 37 East, Willamette Meridian, Oregon.

Charles L. Campbell, Chainman.

Roy I. Campbell, Chainman.

Chainman.

Chainman.

Subscribed and sworn to before me this Twenty-sixth day of July, 1900.

William E. Campbell

U. S. Deputy Surveyor

[SEAL.]

WE, Charles L. and

Roy I. Campbell

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

fractional Township No. 3 N., Range No. 37 East, Willamette Meridian, Oregon.

Charles L. Campbell, Axman.

Roy I. Campbell, Moundman.

Flagman.

Subscribed and sworn to before me this Twenty-sixth day of July, 1900.

William E. Campbell

U. S. Deputy Surveyor

[SEAL.]

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 Township No. 3 North, Range No. 37 East, Will. Mer.

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Resurvey of the E. bdy. of Fractional T. 3 N., R. 37 E., Willamette Meridian.

Preliminary to commencing the subdivisions of this fractional township I run marks on a blank line on E. bdy. of sec. 36; at 6.55 chs. intersect the closing cor. of T. 3 N., R. 38 E.; at 40.00 chs. find the $\frac{1}{4}$ sec. cor. east, 17 lks. dist.; fail to find the $\frac{1}{4}$ sec. cor. W. bdy. of sec. 31; at 80.00 chs. the cor. of secs. 25 and 32 bears E. 90 lks. dist.; therefore I continue my line north and at 92.85 chs. the closing cor. of secs. 30 and 31 bears E., 60 lks. dist.; at 118.75 chs. the $\frac{1}{4}$ sec. cor. E. bdy. of sec. 25 bears E., 94 lks. dist.; fail to find the $\frac{1}{4}$ sec. cor. W. bdy. of sec. 30; at 157.80 chs. the cor. of secs. 24 and 25 bears E., 1 ch. 80 lks. dist.; at 167.55 chs. the closing cor. of secs. 19 and 30 bears E. 1 ch. 80 lks. dist.; at 197.80 chs. fail to find any corner of the $\frac{1}{4}$ sec. cor. E. bdy. of sec. 24; but temp. $\frac{1}{4}$ sec. cor.; fail to find the $\frac{1}{4}$ sec. cor. W. bdy. of sec. 19; at 2 miles, 78.00 chs. intersect S. bdy. of sec. 13, 1 ch. 35 lks. S. $89^{\circ}39'$ W. of the cor. of secs. 13 and 24. As the township on the east has been subdivided I return the range line for the purpose of reestablishing corners common to two secs. as follows:

The S. E. cor. of T. 3 N., R. 37 E., is a basalt stone $18 \times 10 \times 8$ ins., set in mound of stone, on level, open glade, marked and witnessed as described by the surveyor-general, as cor. of two Tps.; I destroy the marks on the S. W. witness-tree and such marks on the cor. stone as pertain to T. 2 N., R. 38 E., viz: 6 notches on S. and E. edges and the numbers 2 N., 38 E., on S. E. face.

Thence I run

Resurvey of the E. bdy. of Fractional T. 3 N., R. 37 E., Will. Mer., concluded.

72.50 Beave timber and undergrowth; bears E. and W.

78.00 At point 300 feet below the $\frac{1}{4}$ sec. cor. and the cor. of sec. 13 and 24, a basalt stone $14 \times 10 \times 8$ ins., on steep south mountain side, with stake and mound of stone around stake; the marks there changed to indicate cor. of two sec. only, as directed by the Manual.

Land, mountainous.

Soil, gravelly and stony; 3rd and 4th rates.

Timber, inferior pine, fir and tamarack.

Undergrowth, pine, fir, tamarack, alder, laurel, willow, huckleberry, pinegrass, elder, fern, thimbleberry and hunkgrass. Good Pasture.

Mountainous land, 78.00 ch. July 27, 1900.

Resurvey of the S. bdy. of T. 3 N., R. 37 E., Will. Mer.

Preliminary to commencing the subdivisions of this Township I run west on S. bdy. of sec. 36; at 40.00 chs. fail to find any trace of the $\frac{1}{4}$ sec. cor.; set temp. $\frac{1}{4}$ sec. cor.; and at 80.00 chs. intersect cor. of secs. 35 and 36; therefore, in accordance with my special written instructions and the Manual, after retracement and resurvey of E. bdy, I resurvey this S. bdy. of sec. 36 as follows:

July 28: At 9.20 a.m., l.m.t., I set off $45^{\circ} 41' 30''$ on the lat. arc; $19^{\circ} 00' N.$, on the decl. arc, and determine a true meridian by the solar at the S. E. cor. of T., already described.

Thence I run

Survey of the S. bdy. of T. 3 N., R. 37 E. - Will. Mer., Continued.

Chains: West, on S. bdy. of sec. 36.

Descending gradually over stony, grassy land.

- 3.50 Enter partially deadened timber and undergrowth.
- 7.50 Steep descent through heavy timber; bears N. and S.
- 13.50 Hill, 2 lbs. wide, runs N.; ascend through dense undergrowth; hill bears N.W. and S.E.
- 25.00 Gradual ascent through partially burnt timber and fallen poles.
- 38.65 At point on old blazed line 300 feet above the Dp. cor. and set a fir post $3\frac{1}{2}$ ft. long, 3 ins. dia., 24 ins. in the ground, for $\frac{1}{4}$ sec. cor. S. bdy. of sec. 36, marked $\frac{1}{4}$ S. on N. face, from which
 A tamarack, 18 ins. diam., bears N. $73\frac{1}{2}^{\circ}$ W., 55 lbs. dist., marked $\frac{1}{4}$ S. 36, B.G.
- After renewed search fail to find any trace of the old $\frac{1}{4}$ sec. cor.
- 43.50 Summit of divide bet. branches of the Comatilla river; trail to Buck Mountain; bears with ridge - N. 30° W. and S. 30° E.;
- August 28: At this point I set off $18^{\circ} 58' 30''$ N. on the decl. arc, and at 0^h 6^m p.m., L.M.T., observe the sun on the meridian; the resulting lat. is $45^{\circ} 41' 30''$.
- 44.00 Descend mountain through cratting timber; bears N.W. and S.E.
- 65.00 Enter heavy timber and dense undergrowth.
- 67.75 Ravine, course S. 30° W.; ascend.
- 69.50 Leave timber; bears N. 30° E. and S. 30° W.; descends stony, grassy hillside; bears N. 70° W. and S. 70° E.
- 78.65 At point 600 feet below the $\frac{1}{4}$ sec. cor. and the corner

Re-survey of the S. bdy. of T. & N., R. 37 E., Will. Mer., Continued.

Chains: position for sec. cor. - 80.00 chs. minus westing of E. bdy., set an ironstone 15 x 15 x 4 ins. 10 ins. in the ground, for cor. of secs. 35th & 36, marked with 1 notch on E. & 5 notches on W. edges, from which

A fir, 10 ins. diam., bears N. 14° E., 52 lbs. dist., marked T. & N., R. 37 E., S. 36, B. D.;

A fir, 18 ins. diam., bears N. 51° W., 1 ch. 32 lbs. dist., marked T. & N., R. 37 E., S. 35, B. D.

The old cor. of secs. 35th & 36, a broken basalt stone, marked & witnessed as described by the surveyor-general, bears W. 1 ch. 25 lbs. dist. I destroy all traces of this old sec. cor.

Land, nearly level & mountainous.

Soil, part arable; gravelly loam & stone; 2^d, 3^d & 4th rates.

Heavily timbered with pine, fir & tamarack, 10.50 chs.

Densely overgrown with pine, fir, tamarack, alder, willow,

carraway, jun, pinegrass, bushberry & bushgrass, 31.00 chs.

Good pasture land.

Mountainous, heavily timbered, or lands densely covered with undergrowth, 72.50 chs. July 28, 1900.

Note: In retracing S. bdy. of sec. 35, for the purpose of re-establishing cor. there common to two secs., I discovered it to be defective in alignment as follows:

August 2: I ran west on S. bdy. of sec. 35th at 40.00 chs. set temp. 1/4 sec. cor.; at 41.06 chs. the old 1/4 sec. cor. bears N. 50 lbs. dist.; at 80.00 chs. set temp. cor. of secs. 34th & 35; at 80.61 chs. the old cor. of secs.

Resurvey of the S. bdy. of T. 3 N., R. 37 E., Will. Mer., Continued.

Chains: 34th & 35 bears N. 82 lbs. dist.; therefore I continue my line west and at 5 miles, no ch. and 34 lbs. fall 1 ch. 84 lbs. S. of the cor. of T. 3 N., R. 36th & 37 E. and as these Townships have not been subdivided I resurvey this portion of the S. bdy. as follows:

August 6: At 7^h 30^m a.m., l.m.t., I set off $45^{\circ}41'30''$ on the lat. arc; $16^{\circ}45'$ N. on the decl. arc and determine a true meridian by the solar at the cor. of sec. 35th & 36,

Thence I run

N. $89^{\circ}44'$ W., on a true line S. bdy. of sec. 35.

Descending steep, stony hill, through heavy timber and undergrowth bears N. 30° W. and S. 30° E.

3.10 Foot; branch of Buck creek, 8 lbs. wide, runs N. 85° W. around steep hill; bears N. W. and S. E.

14.25 Steep, heavily timbered slope N.

17.50 Shallow ravine, course N. 10° E.; thence hill bears N. W. and S. E.

25.00 Top of rise on ridge N. of bald point; descend; bears N. E. and S. W.

29.25 Down steep bank.

30.60 Rill, 1 lb. wide, runs N. 10° W.; thence over point.

32.50 Top of rise and descend.

34.75 Foot; rill, 1 lb. wide, runs N. 30° E.; ascend steep, grassy hill through scattering timber and patches of dense undergrowth; bears N. 20° E. and S. 20° W.

40.00 At point 500 feet above the sec. cor. and set a basalt stone $15 \times 10 \times 4$ ins. 10 ins. in the ground, for $1/4$ sec. cor. S. bdy. sec. 35, marked $1/4$ on N. face, from which
A fir, 18 ins. diam., bears N. 20° E., 96 lbs. dist.,

Resurvey of the S. half of T. 3 N., R. 37 E., Will. Mer., Continued.

Cherms: marked $\frac{1}{4}$ S. 35, B. 9.

The old $\frac{1}{4}$ sec. cor. - post missing - bears $N. 75^{\circ} W.$, 1 ch. 10 lbs. dist. as determined by witness-tree, a fir, 12 ins. diam., marked and witnessed as described by the surveyor-general.

I destroy all traces of this old $\frac{1}{4}$ sec. cor.

49.00 Top of narrow ridge-point - $N. 30^{\circ} E.$; descend through heavy timber and undergrowth; bears $N. E.$ and $S. W.$

54.75 Abund; bears $N. W.$ and $S. E.$

57.50 Same timber and undergrowth; bears $N. W.$ and $S. E.$

59.75 Top of $N. E.$ brow of mountain; thence gradual descent through scattered timber and undergrowth.

70.00 Descend gradually from summit of divide.

78.25 Buck Mt. trail; bears $N. 60^{\circ} W.$ and $S. 60^{\circ} E.$ -

80.00 A point 300 feet above the $\frac{1}{4}$ sec. cor. and at a basalt stone $20 \times 15 \times 8$ ins. 4 ins. in the ground (strikes bedrock and places mound of stones firmly about cor.) for cor. of secs. 34 and 35, marked with 2 notches on $E.$ and 4 notches on $W.$ edges, from which

A pine, 48 ins. diam., bears $N. 28^{\circ} 14' E.$, 1 ch. 29 lbs. dist. marked T. 3 N., R. 37 E., S. 35, B. 9;

A pine, 12 ins. diam., bears $N. 22^{\circ} 10' W.$, 3 chs. 13 lb. dist. marked T. 3 N., R. 37 E., S. 34, B. 9. No tree in limit.

Raise mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, $N.$ of cor. Pts imperishable.

The old cor. of secs. 34 and 35 bears $N. 37^{\circ} 12' W.$, 1 ch. 2 lbs. dist. I destroy all traces of this old sec. cor.

Land, nearly level and mountainous.

Re-survey of the S. ldy. of T. & N., R. 37 E., Will., Minn. - Continued.

Chains: Soil, gravelly and stony; 3rd and 4th rates.

Timber, pine, fir and tamarack.

Undergrowth, pine, fir, tamarack, alder, willow, junegrass, buckbrush and bunchgrass.

Good grazing land.

Mountainous land, 59.75 chs. August 6, 1900.

August 9: At 9.30 a.m., l.m.t., I set off $45^{\circ}41'30''$ on the lat. arc; $15^{\circ}52'30''$ N. on the decl. arc and determine a true meridian by the solar at the cor. of sec. 34 and 35.

Thence I run

N. $89^{\circ}44'$ W., on a true line S. ldy. of sec. 34.

Descending along S. brow of mountain through scattering timber and undergrowth.

- 8.00 Head of cañon south; ascend; bears N. E. and S. W.
- 15.00 Enter small copse on point; bears N. W. and S. E.
- 18.50 Leave copse; thence over stony hill through scattering timber.
- 20.25 Leave point and descend gradually.
- 27.50 Steeper descent; bears N. 10° E. and S. 10° W.
- 28.25 Enter small timber and dense undergrowth.
- 34.50 Leave timber and undergrowth; steep, grassy descent across head of cañon - S. W.
- 37.25 Small, densely overgrown ravine - N. W.
- 38.75 Leave dense undergrowth; steep, grassy slope - N. 20° W.
- 40.00 At point 400 feet below the sec. cor. and set a basalt stone $15 \times 10 \times 6$ ins. 10 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; raise mound of stone, 2 ft. base,

Continuation of the S. bdy. of T. 3 N., R. 37 E., Will. Man., Continued.

Chains: $1\frac{1}{2}$ ft. high, N. of cor. Pits imperceptible.

After careful search fail to find any trace of the old $\frac{1}{4}$ sec. cor., described by the surveyor - ground as a stone $20 \times 12 \times 4$ ins., on N. side of ravine, no trees.

42.25 Enter dense undergrowth.

49.25 Stream, 2 lks. wide, runs S. 70° W.; thence along steep N. side of ravine.

54.45 Leave dense undergrowth - steep slope S.

55.00 August 9: At this point I set off $15^\circ 50' 30''$ N. on the decl. arc, and at 0 h. 5 m. p.m., L.M.T., observe the sun on the meridian; the resulting lat. is $45^\circ 41' 30''$.

69.00 Narrow strip of undergrowth; bears N. and S.

75.25 Patch of undergrowth; bears N. and S.

80.00 At point 350 feet below the $\frac{1}{4}$ sec. cor. and set a basalt stone $15 \times 6 \times 5$ ins. 10 ins. in the ground, for cor. of secs. 33 and 34, marked with 3 notches on E. and W. edges; and raised mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits imperceptible.

The old cor. of secs. 33 and 34, a basalt stone $18 \times 12 \times 10$ ins., on S. face of ridge, bears S. $86\frac{1}{2}^\circ$ W., 1 ch. 28 lks. dist.

I destroy all traces of this old sec. cor.

Land, nearly level and mountainous.

Soil, gravelly and stony; 3rd and 4th rates.

Timber, scattering pine, fir and tamarack on first quarter.

Undergrowth, pine, fir, tamarack, alder, willow, pinegrass, laurel, cherry, birch and bunchgrass. Good pasture.

Mountainous land, 52.50 chs. ~~~~~

Boundary of the S. bdy. of T. 3 N., R. 37 E., Will. Mer., Continued.

Chains: N. $89^{\circ}44'W.$, on a true line, S. bdy. of sec. 33.

Along steep, grassy S. slope.

- 4.00 Steeper descent into cañon of the South Fork; bears N.W. ^{S.E.} & S.E.
- 10.50 Entered scattering timber & undergrowth.
- 19.75 Very steep descent; bears N. $10^{\circ}W.$ & S. $10^{\circ}E.$
- 22.50 Hill bears N. $80^{\circ}W.$ & S. $80^{\circ}E.$
- 30.00 Around steep hillside; bears N. $80^{\circ}E.$ & S. $80^{\circ}W.$
- 37.00 Steep descent; bears N. $20^{\circ}W.$ & S. $20^{\circ}E.$
- 40.00 At point 500 feet below the sec. cor. set a basalt stone $20 \times 8 \times 4$ ins. 15 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; & raise mound of stone, 2 ft. base, $1\frac{1}{2}$ feet high, N. of cor. Pits impracticable.
- Find no trace of the old $\frac{1}{4}$ sec. cor. described by the surveyor-general as a stone $18 \times 8 \times 7$ ins. on S.W. hillside.
- 49.75 Enter timber & dense undergrowth; bears N. & S.
- 52.50 Down steep, bluffy bank of river.
- 52.95 Deep, rapid stream, 10 lbs. wide, runs N. $20^{\circ}W.$; cross stony, heavily timbered bar at bottom.
- 54.15 South Fork of the Armetilla river, 15 lbs. wide, pure water, flows N. $20^{\circ}W.$, over stony bed. Strong current.
- 56.90 Trail — old, abandoned wagon-road; bears N. & S. E.
- 57.75 Fork trail up right-hand fork; bears N. $70^{\circ}E.$ & S. $70^{\circ}W.$
- 59.40 Right-hand fork, 75 lbs. across, runs N. $80^{\circ}E.$ over stony, gravelly bottom.
- 61.00 Around steep, grassy hill; bears N. $50^{\circ}E.$ & S. $60^{\circ}W.$
- 65.75 Leave timber & cross lower end of open point — N. $30^{\circ}W.$
- 67.00 Enter heavy timber; bears N. $30^{\circ}W.$ & S. $30^{\circ}E.$

Resurvey of the S. ldy. of T. 3 N., R. 37 E., Will. Mer. - Continued.

- 70.00 Steep, grassy ascent through scattering timber and undergrowth; bears N. 70° E. & S. 70° W.
- 77.50 Ravine, course S. 30° E.; steep ascent; bears N. 10° E. & S. 10° W.
- 80.00 A point about level with the $\frac{1}{4}$ sec. cor. and set an ironstone 20 x 8 x 4 ins. 15 ins. in the ground, for cor. of secs. 32 & 33, marked with 4 notches on E. & 2 notches on W. edges, from which
 A fir, 14 ins. diam., bears N. 19° E., 1 ch. 69 lbs. dist., marked T. 3 N., R. 37 E., S. 33, B. D.;
 A fir, 16 ins. diam., bears N. 19° W., 1 ch. 74 lbs. dist., marked T. 3 N., R. 37 E., S. 32, B. D.

The old cor. of secs. 32 & 33, a basalt stone 14 x 10 x 5 ins., marked and witnessed as described by the surveyor-general, bears N. 89 $\frac{1}{4}$ ° W., 1 ch. 25 lbs. dist. I destroy all traces of this old sec. cor.

Land, level and mountainous.

Soil, part arable, sandy loam, gravel and stone; 2^d, 3^d and 4th rates.

Timber, pine, fir, tamarack and cottonwood.

Undergrowth, pine, fir, tamarack, alder, willow, cottonwood, cherry, pinegrass, burvine berry and bunchgrass.

Good pasture.

Mountainous, or heavily timbered land, 80.00 chs.

August 9, 1900.

August 10: At 9 a.m., l.m.t., I set off 45° 41' 30" on the lat. arc; 15° 35' 30" N. on the decl. arc, and determine a true meridian by the solar at the cor. of secs. 32 & 33. Thence I run

Resurvey of the S. ldy. of D. 3 N., R. 37 E., Will. Mer. - Continued.

Chains: N. $89^{\circ}44'W$, on a tree line, S. ldy. of sec. 32.

Ascending steep, grassy bank, through crattering timber and undergrowth; bears N. & S.

2.50 Top of point - S. $30^{\circ}E$.; descend; bears N. $70^{\circ}W$. & S. $70^{\circ}E$.

11.25 Leave timber on point - S.; steeper descent into arroyo; bears N. $30^{\circ}W$. & S. $30^{\circ}E$.

18.75 Foot; boulder bed.

19.15 Branch of river, 10 lbs. wide, runs S. $30^{\circ}E$. over bed rock bottom; there are steep bluffs through timber and dense undergrowth; bears N. $40^{\circ}W$. & S. $40^{\circ}E$.

26.50 Steep slope N.

30.00 Ravine, course N.E.; steep ascent; bears N. & S.

33.00 Leave dense undergrowth; there crattering timber and heavy grass.

40.00 At point 400 feet above the sec. cor. & set a basalt stone $12 \times 10 \times 8$ ins. 8 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, from which

A fir, 14 ins. diam., bears N. $61^{\circ}E$., 81 lbs. dist., marked $\frac{1}{4}$ S. 32, B.D.

The old $\frac{1}{4}$ sec. cor., a basalt stone $14 \times 12 \times 5$ ins., marked and witnessed as described by the surveyor-general, bears S. $84^{\circ}W$., 1 ch. 44 lbs. dist.; I destroy all traces of this old cor.

40.25 Top of rock-ridge - N. $60^{\circ}E$.; descend through timber and dense undergrowth; bears N. $75^{\circ}E$. & S. $75^{\circ}W$.

42.00 Slope N.

45.00 Descent abruptly; bears N. $60^{\circ}E$. & S. $60^{\circ}W$.

48.25 Ravine, course N. $20^{\circ}E$.; steep ascent; bears N. $10^{\circ}W$. & S. $10^{\circ}E$.

50.50 Top of rise on point - N.E.; descend.

Resurvey of the S. hdy. of T. & N., R. 37 E., Will. Mer., - Continued.

57.75 Root.

58.00 Bill, 1 lk. wide, runs N. 50° E.; around steep hill; bears N. E. and S. W.

74.00 became dense undergrowth; then through scattering timber.

80.00 A point 600 feet above the $\frac{1}{4}$ sec. cor. and set an ironstone $20 \times 10 \times 8$ ins. 15 ins. in the ground, for cor. of sec. 31 and 32 and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.

The old cor. of sec. 31 and 32, as determined by the witness-trees described by the surveyor-general, stone missing, bears S. 82° W., 1 ch. 50 lks. dist.; I destroy all trees of this old sec. cor.

Land, mountainous.

Soil, gravel and stone; 3rd and 4th rates.

Timber, pine, fir and tamarack.

Undergrowth, huckleberry, service berry, pine, fir, tamarack, willow, pine and brushy grasses.

Good pasture.

Mountainous land, 80.00 lbs.

N. $89^{\circ} 44'$ W., on a tree line, S. hdy. of sec. 31.

Ascending spur through scattering timber and patches of dense undergrowth.

9.00 Steeper ascent; bears N. 20° E. and S. 20° W.

11.25 Stock trail; bears N. 55° E. and S. 55° W.

14.00 Top of ridge bet. cañons; bears N. 50° E. and S. 50° W.; descends through heavy timber and dense undergrowth.

19.75 Ravine, course N. 40° E.; steep ascent; bears N. and S.

Re-survey of the S. ldy. of T. & N., R. 37 E., Will. Mer., continued.

25.75 Top of point - N. 20° E.

August 10: At this station I set off 15° 38' N. on the decl. arc, and at 5³⁰ p. m., l. m. t., observed the sun on the meridian; the resulting lat. is 45° 41' 30". Descend across hollow.

29.25 Grot; ravine, course N. 20° E.; steep ascent; bears N.W. & S.E.

40.00 A point 600 feet above the sec. cor., just E. of summit of divide, and set a basalt stone 12 x 10 x 5 ins. 8 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face, from which
A fir, 12 ins. diam., bears N. 50° E., 66 lbs. dist.,
marked 1/4 S. 31, B. D.

Find no trace of the old 1/4 sec. cor. described by the surveyor - general as a fir post on E. descent from which

A spruce, 4 ins. diam., bore N. 64° E., 10 lbs. dist. and

A willow, 5 ins. diam., bore S. 15° E. 28 lbs. dist.

41.75 To see timber and undergrowth; bears N.W. and S.E. and there across grassy opening on summit of divide bet. branches of Tematilla river.

42.30 Trail to "Eight Mile Ridge"; bears S.E. - S. & N.W.

43.00 Descend gradually.

45.00 Stock trail; bears N. 10° E. and S. 10° W.

47.50 Enter timber and undergrowth; bears N. 20° W. and S. 20° E.

51.25 Grot; ascend gradually through heavy timber.

57.85 Top of rise or ridge; cross narrow opening; bears N.W. and S.E.

58.50 Stock trail; bears N.W. and S.E.

60.00 Enter timber and dense undergrowth; bears N.W. and S.E.

60.50 Descend gradually.

Resurvey of the S. ldy. of T. 3 N., R. 37 E., Will. Mer. - Concluded.

80.34 A point about level with the $\frac{1}{4}$ sec. cor. $\frac{2}{3}$ of the cor. of T. 3 N., R. 36 $\frac{2}{3}$ & 37 E., which is the stump of a fir, 36 ins. diam., (not a post as stated in the field notes furnished me) marked & witnessed as described by the surveyor-general.

Land, nearly level & mountainous.

Soil, part creble; sandy loam, gravel & stone; 2^d, 3^d & 4th notes.

Heavily timbered with pine, fir, tamarack, spruce, alder & birch, 54.69 chs.

Densely overgrown with pine, fir, tamarack, spruce, alder, willow, birch, cypress, elder, huckleberry, thimbleberry, pinegrass, fern, rosebrier & brushgrass, 48.09 chs.

Mountainous, heavily timbered, on lands covered with dense undergrowth, 80.34 chs.

Good pasture land. August 10, 1900.

Resurvey of the W. ldy. T. 3 N., R. 37 E., Will. Mer.

Note: Failing to close random line bet. secs. 30 & 31, as stated in field notes of survey of subdivisions, page 48, I retrace W. ldy. of sec. 31, north from S.W. cor. of Tp. $\frac{2}{3}$ at 40.00 chs. set temp. $\frac{1}{4}$ sec. cor.; at 40.64 chs. intersect the old $\frac{1}{4}$ sec. cor., as determined by the two witness-trees described by the surveyor-general, post missing; at 80.00 chs. set temp. cor. of secs. 30 & 31 $\frac{2}{3}$ at 82.35 chs. fall 1 ch. 25 lbs. E. of the cor. of

FINAL OATHS FOR SURVEYS.

A list of the names of the individuals employed by William E. 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 Coctior lines of fractional Township No. 3 N., Range No. 37 East, Willamette Meridian, Oregon, showing the respective capacities in which they acted :

- Charles L. Campbell, Chainman.
Roy J. Campbell, Chainman.
Charles L. Campbell, Chainman.
Roy J. Campbell, Axman.
Roy J. Campbell, Moundman.
Roy J. Campbell, Flagman.

FINAL OATHS OF ASSISTANTS.

We hereby certify that we assisted William E. Campbell, U. S. Deputy Surveyor, in surveying all those parts or portions of the Coctior lines of fractional Township No. 3 N., Range No. 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 :

- Charles L. Campbell, Chainman.
Roy J. Campbell, Chainman.
Charles L. Campbell, Axman.
Roy J. Campbell, Moundman.
Roy J. Campbell, Axman.
Roy J. Campbell, Flagman.

Subscribed and sworn to before me, this thirtieth day of August, 1900

William E. Campbell
U. S. Deputy Surveyor

[SEAL.]

FINAL OATH OF DEPUTY SURVEYOR.

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I, William E. Campbell, United States

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

Surveyor-General for Oregon, bearing date of the seventh

day of May, 1900, 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 fractional Township No. 3 North, range No. 37 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.

William E. Campbell

U. S. Deputy Surveyor.

Subscribed by said William E. Campbell, U. S.

Deputy Surveyor, and sworn to before me this twenty eighth

day of December, 1900

Alvin E. Lake

Clerk of the Circuit Court

Office of U. S. Surveyor-General,

PORTLAND, OREG., *March 28*, 190*1*

The foregoing field notes of the ^{Re} survey of the *East Sound*
and West boundaries and the
Retracement of South boundaries
of Secs. 13-14-15-16-17+18. of
Township 3 N. R. 37 E Will Met Co
 executed by *William E. Campbell*
U. S. Deputy Surveyor
 under his contract No. *718*, dated *May 1*.

....., 190*1*, having been critically examined,
 and the necessary corrections and explanations made, the said field
 notes and the surveys they describe, are hereby approved.

Robert A. Habersham
 U. S. Surveyor-General.