

E
4-679
(April 1933)

FIELD NOTES

OF THE SURVEY OF THE

RETRACEMENT AND DEPENDENT RESURVEY OF THE OREGON AND WASHINGTON

STATE BOUNDARY FROM 51 MILE 48 CHAIN MONUMENT TO 46 MILE

MONUMENT, INDEPENDENT RESURVEY OF THE SOUTH BOUNDARY,

DEPENDENT RESURVEY OF THE WEST BOUNDARY,

and the

SUBDIVISIONAL LINES OF TOWNSHIP 6 NORTH, RANGE 39 EAST.

Of the WILLAMETTE Meridian,

In the State of OREGON

EXECUTED BY

OTIS O. GOULD

U. S. TRANSITMAN

Under special instructions dated April 11, 19 29, which provided

for the surveys included under Group No. 135, bearing the approval of the

Commissioner of the General Land Office under date of May 13, 1929

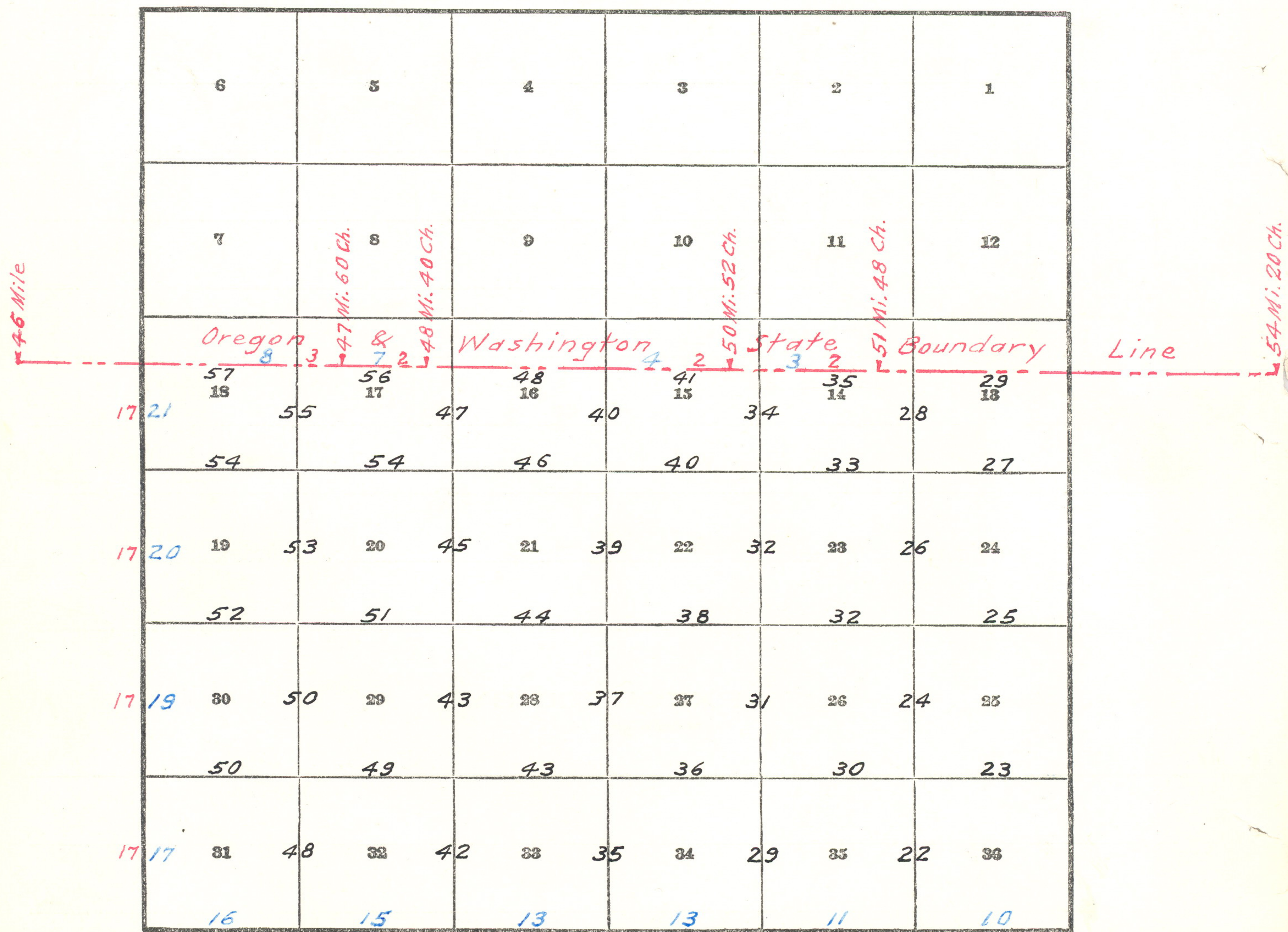
and assignment instructions dated May 19, 19 32.

Survey commenced Aug. 1, 19 32.

Survey completed Sept. 13, 19 32.

INDEX DIAGRAM.

Township 6 North, Range 39 East.



6-151

Retracements indexed in Red.

Resurveys indexed in Blue.

Original surveys indexed in Black.

Township 6 North, Range 39 East.

The retracement and dependent resurvey of the Oregon and Washington state boundary through range 39 east, the retracement and resurvey of the west boundary, independent resurvey of the south boundary and subdivisional lines of fractional township 6 north, range 39 east, were executed with a Burt solar compass made by W. and L. E. Gurley, serial No. 20, U. S. G. S., constructed in accordance with the standard specifications of the General Land Office. The horizontal circle has a diameter of $5\frac{3}{4}$ ins., with opposite double verniers reading to single minutes; the sight vanes have a length of 8 ins. and a spread of 14 ins. The instrument is equipped with a Burt solar attachment; radius of latitude arc 5.4 ins., and decl. arc $4\frac{3}{4}$ ins., each with verniers reading to single minutes.

The observations in camp; on Polaris for the establishment of the meridian; and the altitude observations on the sun on the meridian to verify the latitude and the reading of my watch, were executed with a light mountain solar transit made by Buff and Buff, serial No. 9987, constructed in accordance with the standard specifications of the General Land Office. The horizontal circle has a diameter of $4\frac{1}{2}$ inches, with two double opposite verniers reading to single minutes; the vertical circle has a diameter of 4 ins., with one double vernier reading to single minutes; the telescope has fixed stadia wires, ratio 1:132, with focal constant of 1.2 lks. The instrument is equipped with improved Smith solar attachment: radius of latitude arc $2\frac{1}{2}$ ins., and of decl. arc $3\frac{1}{2}$ ins., each with verniers reading to single minutes. The instruments were in good condition, having been placed in satisfactory adjustment prior to the beginning of the survey, and tested and found free from appreciable error, were approved by the district cadastral engineer on May 19, 1932. I examined all the instrumental adjustments before making the field tests hereinafter recorded.

The direction of all lines was determined by solar compass method. The measurements were made with a Lallie steel tape, 5 chs. in length, graduated every link for the first 100 lks., and the balance at intervals of 10 lks. The tape was tested by comparison with a Lufkin standard 1 ch. steel tape and found correct. The measurements were made on the slope, and the vertical angle of each interval was ascertained by a clinometer in good adjustment: the horizontal equivalents are entered in the field note record.

The data furnished with the special instructions gives the geographic position for the SW. cor. of T. 5 N., R. 39 E., as follows: latitude $45^{\circ}52'N.$, and longitude $118^{\circ}00'W.$

July 23, 1932, in camp located near the center of sec. 25, at 11h 35m 07s p. m., l. m. t., or 11h 26m 40s p. m. by my watch, which reads correct 120th meridian time as determined by radio signal I observe Polaris at eastern elongation, making two sights each with the telescope in direct and reversed positions, and place a tack at the mean point, on a peg driven firmly in the ground 10 chs. N. July 24, after sunrise, I lay off the azimuth of Polaris $1^{\circ}31'44''$, and make a meridian mark on a second peg, 26.68 lks. (17.61 ft.) to the west of the mean point in the line determined by the observation; I verify the angle by a vernier reading of the instrument.

In order to verify the latitude of this station and the reading of my watch, I make a meridian observation of the sun, first setting on the lower limb and noting the transit of the west limb, then after reversal of the instrument, setting on the upper limb and noting the transit of the east limb, as follows:

Mean observed altitude	-----	63° 50' 30"
Reduced latitude	-----	45° 58' 03"
Mean watch time of observation	-----	11h 57m 52s
Watch slow of L. m. t.	-----	8m 27s

Township 6 North, Range 39 East.

Same, by reference to radio time signals and calculated difference in longitude ----- 8m 27s.

Every 30 minutes from 6 to 10.30 a. m. and from 1.30 to 6 p. m., I make proper settings on the arcs of the solar attachment and ascertain that the resulting orientation of the instrument, when compared with the meridian established by Polaris observation, has a maximum error less than 1' 30".

I repeat the tests of the arcs daily by noon observation and verify the meridional indications at frequent intervals throughout the survey.

The observed magnetic declination is 21° 50' E.

Chains Resurvey of Part of the Oregon and Washington Boundary

"Dependent resurvey, reestablishment of the surveys executed by Daniel G. Major, Astronomer and Surveyor, in 1864"

Retracement

From the 51 mile 48 ch. monument, on the Oregon and Washington boundary.

West, retracing the Oregon and Washington boundary.

1.13 Fall 2 lks. S. of the $\frac{1}{4}$ sec. cor. of sec. 14, T. 6 N., R. 39 E., established under group No. 130, Washington.

41.13 Fall 77 lks. S. of the cor. of secs. 14 and 15, T. 6 N., R. 39 E., established under group No. 130, Washington.

78.90 Fall 146 lks. S. of the 50 mile 52 chain monument.

This line is N. 88° 56' W., 78.91 chs.

From the monument,

West, retracing the Oregon and Washington boundary.

2.23 Fall 1 lk. S. of the $\frac{1}{4}$ sec. cor. of sec. 15, T. 6 N., R. 39 E., established under group No. 130, Washington.

42.23 Fall 14 lks. S. of the cor. of secs. 15 and 16, T. 6 N., R. 39 E., established under group No. 130, Washington.

82.23 Fall 27 lks. S. of the $\frac{1}{4}$ sec. cor. of sec. 16, T. 6 N., R. 39 E., established under group No. 130, Washington.

122.23 Fall 39 lks. S. of the cor. of secs. 16 and 17, T. 6 N., R. 39 E., established under group No. 130, Washington.

155.17 Fall 50 lks. S. of the 48 mile 40 chain monument.

This line is N. 89° 49' W., 155.17 chs.

From the monument,

West, retracing the Oregon and Washington boundary.

7.06 Fall 2 lks. S. of the $\frac{1}{4}$ sec. cor. of sec. 17, T. 6 N., R. 39 E., established under group No. 130, Washington.

44.50 Fall 14 lks. S. of the 47 mile 60 chain monument.

This line is N. 89° 49' W., 44.50 chs.

From the monument,

Resurvey of the West Boundary of T. 6 N., R. 39 E.

Chains

from which

A fir, 18 ins. diam., bears S.60°W., 117 lks. dist.,
marked $\frac{1}{4}$ S 13 B T.
A fir, 20 ins. diam., bears N.82°W., 126 lks. dist.,
marked $\frac{1}{4}$ S 13 B T.

Continue to desc. 250 ft. over N. slope.

40.11 A point 40.00 chs. in northing from the closing cor. of
secs. 18 and 19, later determined.

Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the
ground, for $\frac{1}{4}$ sec. cor. of sec. 18 only, with brass cap
marked $\frac{1}{4}$ S 18 B T.

$\frac{1}{4}$ S 18

1932

from which

A fir, 10 ins. diam., bears N.36°E., 15 lks. dist.,
marked $\frac{1}{4}$ S 18 B T.

A fir, 14 ins. diam., bears S.45°E., 27 lks. dist.,
marked $\frac{1}{4}$ S 18 B T.

Continue to desc. 245 ft. over N. slope.

45.10 Creek, 6 lks. wide, course W.; thence over flat.

46.32 Intersect the Oregon and Washington boundary at the pro-
portionate point for the closing cor.

Set an iron post, 3 ft. long, 3 ins. diam., 27 ins. in
the ground, for closing cor. of Tps. 6 N., Rs. 38 and 39
E., with brass cap marked $\frac{1}{4}$ S 18 B T.

W N

S18 | S13

R38E | R39E

T6N

1932

from which

A fir, 9 ins. diam., bears S.32°E., 11 lks. dist.,
marked T 6 N R 39 E S 13 C C B T.

A fir, 10 ins. diam., bears S.63°W., 33 lks. dist.,
marked T. 6 N R 38 E S 18 C C B T.

From this point the 46 mile monument on the Oregon and
Washington boundary, bears N.89°49'W., 60.88 chs. dist.,
previously described.

Land, mountainous.

Soil, sandy loam, rocky; 3rd rate.

Timber, fir, pine, spruce and tamarack.

Undergrowth, huckleberry, salal, willow, vinemaple, rose,
mountain laurel, mountain mahogany, alder and Oregon
grape.

Subdivision of T. 6 N., R. 39 E.

I commence the subdivisional survey at the cor. of secs.
1, 2, 35, and 36, on the S. bdy. of the Tp., herein-
before described.

N.0°01'W., bet. secs. 35 and 36.

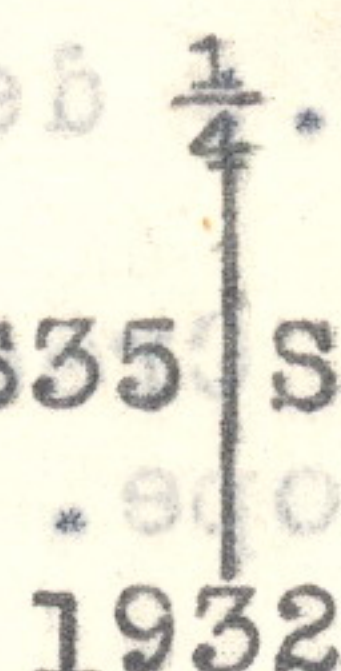
Subdivision of T. 6 N., R. 39 E.

Chains

Asc. 535 ft. over SW. slope, through scattering timber and brush.

36.30 Flat topped ridge, bears N.20°W., and S.20°E.; thence along gradual E. slope.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for 1/4 sec. cor., with brass cap marked



from which

A fir, 14 ins. diam., bears N.25°E., 36 lks. dist., marked 1/4 S 36 B T.

A fir, 11 ins. diam., bears S.25°W., 98 lks. dist., marked 1/4 S 35 B T.

Continue along gradual E. slope.

41.00 Desc. 190 ft. over broken NE. slope.

57.40 Head of ravine, course E.; asc. 80 ft. over SE. slope.

61.75 Small spur, slopes S.65°E.; desc. 75 ft. over NE. slope.

69.15 Head of small ravine, course E.; asc. 85 ft. over SE. slope.

80.00 Set an iron post, 3 ft. long, 2 in. diam., 5 ins. in the ground to solid rock, and in a mound of stone to top, for cor. of secs. 25, 26, 35, and 36, with brass cap marked

T6NR39E

S26 | S25

S35 | S36

1932

from which

A fir, 8 ins. diam., bears N.72 3/4°E., 153 lks. dist., marked T 6 N R 39 E S 25 B T.

A fir, 16 ins. diam., bears S.33°E., 173 lks. dist., marked T 6 N R 39 E S 36 B T.

A fir, 14 ins. diam., bears S.45°W., 128 lks. dist., marked T 6 N R 39 E S 35 B T.

A fir, 22 ins. diam., bears N.22°W., 153 lks. dist., marked T 6 N R 39 E S 26 B T.

Land, mountainous.

Soil, sandy loam, rocky; 3rd rate.

Timber, fir, pine, spruce and tamarack.

Undergrowth, alder, huckleberry, salal, syringa, willow, vinemaple, Oregon grape, rose, buck brush and mountain laurel.

East, on a random line bet. secs. 25 and 36.

40.00 Set temp. 1/4 sec. cor.

80.20 Intersect the E. bdy. of the Tp., 12 lks. N. of the cor. of secs. 25, 30, 31, and 36, as described in the field notes of T. 6 N., R. 40 E., of this group.

Subdivision of T. 6 N., R. 39 E.

Chains

Thence
N.89°55'W., on a true line bet. secs. 25 and 36.
Desc. 425 ft. over W. slope, through timber and brush.

14.85 Spring branch, 2 lks. wide, course SW.; asc. 100 ft. over SE. slope.

19.50 Small spur, slopes S.; desc. 50 ft. over SW. slope.

22.50 East fork of Shoofly Creek, 1 lk. wide, course SE.; asc. 440 ft. over E. slope.

40.10 Set an iron post, 3 ft. long, 1 in. diam., 5 ins. in the ground, to solid rock, and in a mound of stone to top, for $\frac{1}{4}$ sec. cor., with brass cap marked

S25

$\frac{1}{4}$ S36

1932

from which

A fir, 12 ins. diam., bears S.45°W., 76 lks. dist., marked $\frac{1}{4}$ S 25 B T.

A fir, 40 ins. diam., bears N.2°W., 221 lks. dist., marked $\frac{1}{4}$ S 36 B T.

Continue to asc. 15 ft. over E. slope.

42.50 Ridge, bears N. and S.; desc. 490 ft. over W. slope.

62.05 West fork of Shoofly Creek, 1 lk. wide, course S.; asc. 310 ft. over E. slope.

80.20 The cor. of secs. 25, 26, 35, and 36.

Land, mountainous.
Soil, sandy loam, rocky; 3rd rate.
Timber, fir, pine, spruce and tamarack.
Undergrowth, alder, huckleberry, salal, vinemaple, willow, buck brush, mountain laurel, mountain mahogany and mountain ash.

N.0°01'W., bet. secs. 25 and 26.

Asc. 110 ft. over gradual S. slope, along top of ridge, through scattering timber and brush.

17.90 Leave flat topped ridge, bears NE. and S.; desc. 330 ft. over NW. slope.

37.00 Ravine, course W.; asc. 40 ft. over SW. slope.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the ground to solid rock, and in a mound of stone to top, for $\frac{1}{4}$ sec. cor., with brass cap marked

S26 S25

1932

from which

A fir, 10 ins. diam., bears S.39°E., 72 lks. dist., marked $\frac{1}{4}$ S 25 B T.

A pine, 26 ins. diam., bears N.32°W., 190 lks. dist.,

Subdivision of T. 6 N., R. 39 E.

Chains

marked $\frac{1}{4}$ S 26 B T.

Continue to asc. 110 ft. over SW. slope.

51.70 Spur, slopes NW.; desc. 300 ft. over broken NE. slope.

62.80 Small spur, slopes NE.; continue to desc. 325 ft. over N. slope.

71.00 Spring branch, 2 lks. wide, course W.; asc. 155 ft. over SW. slope.; enter heavy timber, bears E. and W.

76.00 Spur, slopes W.; desc. 120 ft. over NW. slope.

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, for cor. of secs. 23, 24, 25, and 26, with brass cap marked

T6NR39E

S23 | S24

S26 | S25

from which,

A tamarack, 20 ins. diam., bears N. $48\frac{1}{2}^\circ$ E., 54 lks. dist., marked T 6 N R 39 E S 24 B T.

A fir, 18 ins. diam., bears S. 39° E., 28 lks. dist., marked T 6 N R 39 E S 25 B T.

A fir, 9 ins. diam., bears S. 61° W., 19 lks. dist., marked T 6 N R 39 E S 26 B T.

A fir, 18 ins. diam., bears N. $25\frac{1}{2}^\circ$ W., 50 lks. dist., marked T 6 N R 39 E S 23 B T.

Land, mountainous.

Soil, sandy loam, rocky; 3rd rate.

Timber, fir, pine, spruce, tamarack and yew.

Undergrowth, alder, huckleberry, rose, vinemaple, Oregon grape, mountain laurel, syringa and salal.

S. $89^\circ 55'$ E., on a random line bet. secs. 24 and 25.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

80.10 Intersect the E. bdy. of the Tp., 12 lks. S. of the cor. of secs. 19, 24, 25, and 30, as described in the field notes of T. 6 N., R. 40 E., of this group.

Thence

West, on a true line bet. secs. 24 and 25.

Asc. 150 ft. over E. slope, through timber and brush.

5.00 Continue to asc. 470 ft. over NE. slope.

23.45 Ridge, bears N. 30° W., and S. 30° E.; Round Butte Trail, bears N. 30° W., and S. 30° E.

24.00 Desc. 380 ft. over W.; slope.

40.05 Set an iron post, 3 ft. long, 1 in. diam., 10 ins. in the ground to solid rock, and in a mound of stone to top, for $\frac{1}{4}$ sec. cor., with brass cap marked

$\frac{1}{4}$ S24 | S25

1932

from which

Subdivision of T. 6 N., R. 39 E.

Chains

A fir, 12 ins. diam., bears N. 23° W., 43 lks. dist., marked $\frac{1}{4}$ S 24 B T.

A fir, 32 ins. diam., bears South, 43 lks. dist., marked $\frac{1}{4}$ S 25 B T.

Continue to desc. 200 ft. over W. slope.

47.80 Ravine, course NW.; asc. 30 ft. over NE. slope.

56.40 Spur, slopes NW.; desc. 150 ft. over W. slope.

60.05 Ravine, course NW.; asc. 245 ft. over NE. slope.

71.00 Spur, slopes N. 10° W.; desc. 310 ft. over NW. slope.

80.10 The cor. of secs. 23, 24, 25, and 26.

Land, mountainous.
Soil, sandy loam, rocky: 3rd rate.
Timber, fir, pine, spruce, tamarack and yew.
Undergrowth, alder, vinemaple, huckleberry, mountain ash, syringa, willow, rose, Oregon grape, buck brush and mountain laurel.

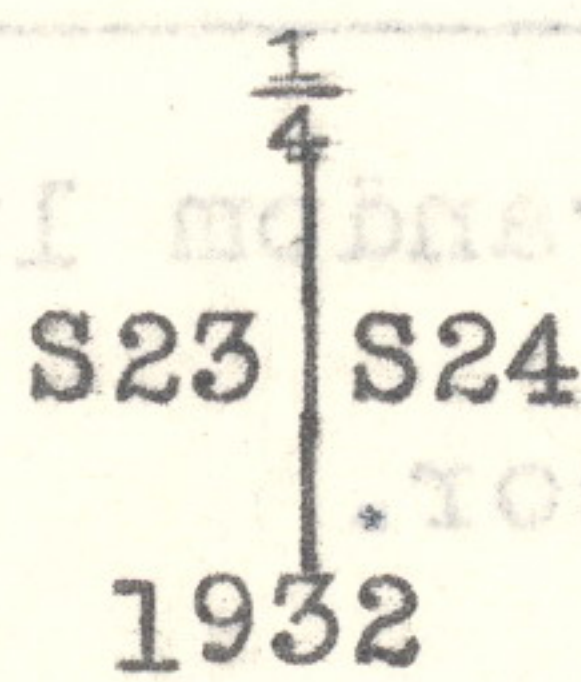
N. 0° 01' W., bet. secs. 23 and 24.

Desc. 280 ft. over NW. slope, through timber and dense brush.

16.00 Milk Creek, 8 lks. wide, course SW.; asc. 250 ft. over SE. slope.

27.00 Top of ascent, bears E. and W.; thence along broken E. slope.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 10 ins. in the ground to solid rock, and in a mound of stone to top, for $\frac{1}{4}$ sec. cor., with brass cap marked



from which

A fir, 28 ins. diam., bears S. 58° E., 59 lks. dist., marked $\frac{1}{4}$ S 24 B T.

A fir, 12 ins. diam., bears S. 63° W., 96 lks. dist., marked $\frac{1}{4}$ S 23 B T.

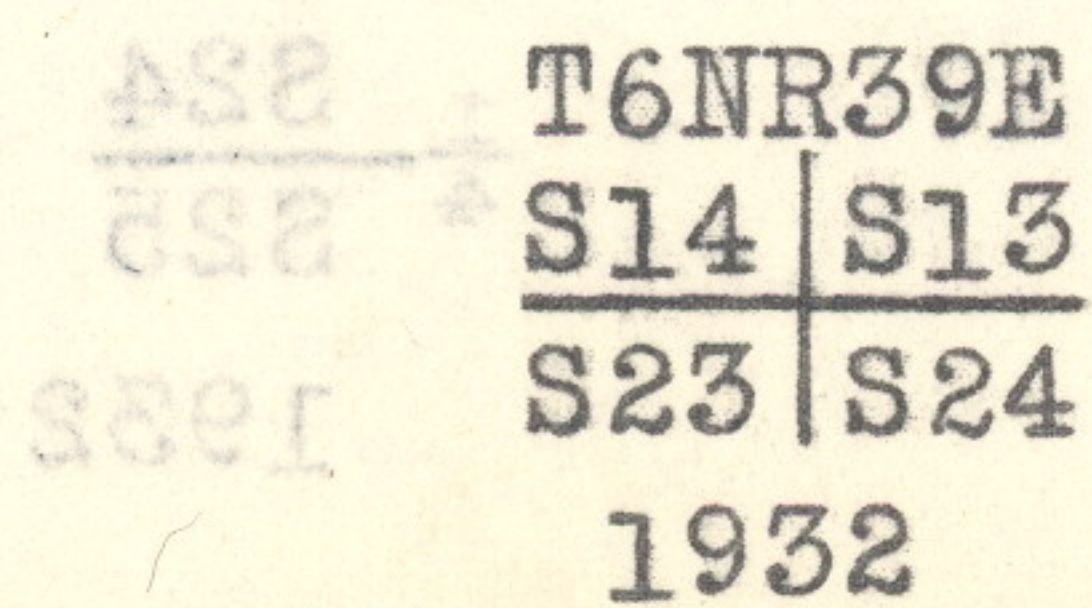
Continue along broken E. slope.

46.20 Desc. 110 ft. over NE. slope.

54.40 Milk Creek, 4 lks. wide, course SE.; asc. 560 ft. over SW. slope.

75.70 Small ravine, course SW.; asc. 160 ft. over S. slope.

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 10 ins. in the ground to solid rock, and in a mound of stone to top, for cor. of secs. 13, 14, 23, and 24, with brass cap marked



Subdivision of T. 6 N., R. 39 E.

Chains	
	<p>A fir, 16 ins. diam., bears N. 24½° E., 46 lks. dist., marked T 6 N R 39 E S 13 B T.</p> <p>A fir, 20 ins. diam., bears S. 46° E., 139 lks. dist., marked T 6 N R 39 E S 24 B T.</p>
	<p>A fir, 20 ins. diam., bears S. 88½° W., 167 lks. dist., marked T 6 N R 39 E S 23 B T.</p> <p>A fir, 12 ins. diam., bears N. 48½° W., 92 lks. dist., marked T 6 N R 39 E S 14 B T.</p>
	<p>Land, mountainous; soil, sandy loam, rocky; 3rd rate.</p> <p>Timber, fir, pine, spruce and tamarack.</p> <p>Undergrowth, alder, vine maple, willow, huckleberry, rose, mountain ash, nettles, Oregon grape, salal and buck brush.</p>
	<p>East, on a random line bet. secs. 13 and 24.</p>
40.00	Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the ground to solid rock, and in a mound of stone to top, for ¼ sec. cor., with brass cap marked
80.44	Intersect the E. bdy. of the Tp., 14 lks. S. of the cor. of secs. 13, 18, 19, and 24, as described in the notes of T. 6 N., R. 40 E., of this group.
	Thence
	S. 89° 54' W., on a true line bet. secs. 13 and 24.
	Asc. 290 ft. over SE. slope, through timber and brush.
12.10	Spur, slopes S. 20° E.; desc. 395 ft. over SW. slope.
24.40	Ravine, course SW.; asc. 125 ft. over SE. slope.
30.45	Spur, slopes S.; desc. 40 ft. over gradual SW. slope.
40.22	Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the ground to solid rock, and in a mound of stone to top, for ¼ sec. cor., with brass cap marked
	$\frac{1}{4} \frac{S13}{S24}$
	1932
	from which
	A fir, 6 ins. diam., bears S. 19° E., 84 lks. dist., marked ¼ S 24 B T.
	A fir, 18 ins. diam., bears N. 44° W., 54 lks. dist., marked ¼ S 13 B T.
	Continue to desc. 10 ft. over SW. slope.
40.95	Ravine, course SE.; asc. 630 ft. over SE. slope.
59.60	Ridge spur, slopes NE.; desc. 215 ft. over NW. slope.
70.40	Head of ravine, course N.; asc. 60 ft. over NE. slope.
78.70	Ridge, bears NW. and SE.; Round Butte Trail, bears NW. and SE.; thence along gradual S. slope.
80.44	The cor. of secs. 13, 14, 23, and 24.

Subdivision of T. 6 N., R. 39 E.

Chains

Land, mountainous.
Soil, sandy loam, rocky; 3rd rate.
Timber, fir, pine, spruce and tamarack.
Undergrowth, huckleberry, alder, vinemaple, rose, Oregon grape, mountain laurel, mountain mahogany, buck brush and syringa.

N. 0° 01' W., bet. secs. 13 and 14.

Asc. 30 ft. over S. slope, through timber and brush.

0.94 Round Butte Trail, bears E. and W.

1.30 Ridge, bears NW. and SE.; desc. 145 ft. over NE. slope.

19.00 Small ravine, course E.; asc. 50 ft. over SE. slope.

23.40 Spur, slopes E.; desc. 245 ft. over broken NE. slope.

36.80 Ravine, course E.; asc. 75 ft. over SE. slope.

39.30 Spur, slopes E.; desc. 20 ft. over NE. slope.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap marked

S14 | S13

1932

from which

A fir, 30 ins. diam., bears N. 37° E., 69 lks. dist., marked $\frac{1}{4}$ S 13 B T.

A fir, 20 ins. diam., bears N. 66° W., 86 lks. dist., marked $\frac{1}{4}$ S 13 B T.

Continue to desc. 30 ft. over NE. slope.

42.80 Spring branch, 1 lk. wide, course NE.; asc. 150 ft. over SE. slope.

44.97 Intersect the Oregon and Washington boundary.

Set an iron post, 3 ft. long, 2 ins. diam., 20 ins. in the ground to solid rock, and in a mound of stone to top, for closing cor. of secs. 13 and 14, with brass cap marked

W N
S14 | S13
T6NR39E

C C

1932

from which

A fir, 7 ins. diam., bears S. 86° E., 8 lks. dist., marked T 6 N R 39 E S 13 C C B T.

A fir, 8 ins. diam., bears S. 83 $\frac{1}{2}$ ° W., 114 lks. dist., marked T 6 N R 39 E S 14 C C B T.

From this point the 51 mile 48 chain monument on the Oregon and Washington boundary, bears N. 89° 54' W., 12.87 chs. dist., as described in the field notes of T. 6 N., R. 40 E., of this group.

Land, mountainous.
Soil, sandy loam, rocky; 3rd rate.

Subdivision of T. 6 N., R. 39 E.

Chains

Timber, fir, pine, spruce and tamarack. Undergrowth, huckleberry, salal, vinemaple, alder, mountain laurel, mountain ash, mountain mahogany and Oregon grape.

To complete the survey of sec. 13, I go to the cor. of secs. 13 and 14 only, established under group No. 130, Washington, and described in the field notes of T. 6 N., R. 40, E., of this group, and run

S.89°54'E., along the Oregon and Washington boundary.

14.13 Mid point on the N. bdy. of sec. 13.

Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for 1/4 sec. cor. of sec. 13 only, with brass cap marked

1/4 S13

from which

A fir, 50 ins. diam., bears S.40°E., 49 lks. dist., marked 1/4 S 13 B T.

A fir, 10 ins. diam., bears S.14°E., 69 lks. dist., marked 1/4 S 13 B T.

Thence from the cor. of secs. 2, 3, 34, and 35 on the S. bdy. of the Tp. N.0°02'W., bet. secs. 34 and 35.

Asc. 225 ft. over SE. slope, through timber and brush.

5.00 Spur, slopes S.70°E.; desc. 60 ft. over NE. slope.

10.60 Ravine, course E.; asc. 145 ft. over SE. slope.

17.00 Spur, slopes E.; desc. 115 ft. over NE. slope.

21.25 Ravine, course E.; asc. 270 ft. over broken SE. slope.

37.40 Spur, slopes E.; desc. 110 ft. over NE. slope.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 18 ins. in the ground to solid rock, and in a mound of stone to top, for 1/4 sec. cor., with brass cap marked

S34 | S35

from which,

A fir, 26 ins. diam., bears S.72°E., 37 lks. dist., marked 1/4 S 35 B T.

A fir, 28 ins. diam., bears N.50°W., 13 lks. dist., marked 1/4 S 34 B T.

Continue to desc. 165 ft. over NE. slope.

43.90 Ravine, course S.65°E.; asc. 260 ft. over SE. slope.

49.90 Spur, slopes E.; desc. 75 ft. over NE. slope.

54.10 Ravine, course E.; asc. 95 ft. over SE. slope.

Subdivision of T. 6 N., R. 39 E.

Chains

57.70 Spur, slopes E.; desc. 330 ft. over NE. slope.

77.60 Creek, 6 lks. wide, course SE.; thence over rolling land.

78.90 Bend in same creek, course SW., from NW.; asc. 15 ft. over SW. slope.

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, for cor. of secs. 26, 27, 34, and 35, with brass cap marked

T6NR39E

S27 | S26

S34 | S35

1932

from which

A fir, 16 ins. diam., bears N.41°E., 117 lks. dist., marked T 6 N R 39 E S 26 B T.

A fir, 30 ins. diam., bears S.36°E., 144 lks. dist., marked T 6 N R 39 E S 35 B T.

A fir, 14 ins. diam., bears S.83 $\frac{3}{4}$ °W., 127 lks. dist., marked T 6 N R 39 E S 34 B T.

A fir, 12 ins. diam., bears N.17 $\frac{1}{2}$ °W., 138 lks. dist., marked T 6 N R 39 E S 27 B T.

Land, mountainous.

Soil, sandy loam, rocky; 3rd rate.

Timber, fir, pine, spruce and tamarack.

Undergrowth, huckleberry, alder, rose, vinemaple, willow, Oregon grape, salal, mountain laurel, buck brush and nettles.

East, on a random line bet. secs. 26 and 35.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

79.92 Intersect N. and S. line, 21 lks. N. of the cor. of secs. 25, 26, 35, and 36.

Thence

N.89°51'W., on a true line bet. secs. 26 and 35.

Over flat topped ridge, through timber and brush.

0.20 Ridge, bears N. and S.; desc. 810 ft. over SW. slope.

39.40 Small spur, slopes SW.; continue to desc. 10 ft. over W. slope.

39.96 Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap marked

S26

$\frac{1}{4}$ S35

1932

from which

A fir, 18 ins. diam., bears S.30°W., 30 lks. dist., marked $\frac{1}{4}$ S 35 B T.

A fir, 11 ins. diam., bears N.28°W., 8 lks. dist., marked $\frac{1}{4}$ S 26 B T.

Continue to desc. 485 ft. over NW. slope.

Subdivision of T. 6 N., R. 39 E.

Chains

55.30 Milk Creek, 8 lks. wide, course S.; asc. 450 ft. over E. slope.

66.80 Spur, slopes SE.; desc. 380 ft. over SW. slope.

79.92 The cor. of secs. 26, 27, 34, and 35.

Land, mountainous. Soil, sandy loam, rocky; 3rd rate. Timber, fir, pine, spruce and tamarack. Undergrowth, huckleberry, alder, vinemaple, willow, rose, salal, mountain laurel, mountain ash, Oregon grape, buck brush, fern and nettles.

N.0°02'W., bet. secs. 26 and 27.

Asc. 1045 ft. over broken SW. slope to 1/4 sec. cor., through timber and dense brush.

24.90 Spring branch, 1 lk. wide, course SW.

26.20 Spring branch, 1 lk. wide, course SW.

27.40 Spring branch, 1 lk. wide, course SW.

39.50 Small ravine, course SW., from N.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 18 ins. in the ground to solid rock, and in a mound of stone to top, for 1/4 sec. cor., with brass cap marked

1/4

1932

from which

A fir, 8 ins. diam., bears S.71°E., 158 lks. dist., marked 1/4 S 26 B T.

A fir, 12 ins. diam., bears N.33°W., 87 lks. dist., marked 1/4 S 27 B T.

40.50 Leave ravine, course S., from NE.; continue to asc. 470 ft. over S. slope.

54.55 Ridge, bears NW. and SE.; desc. 295 ft. over NE. slope, through scattering timber and brush, bears NW. and SE.

70.50 Ravine, course E.; asc. 135 ft. over SE. slope.

75.35 Spur, slopes NE.; desc. 165 ft. over N. slope.

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 14 ins. in the ground to solid rock, and in a mound of stone to top, for cor. of secs. 22, 23, 26, and 27, with brass cap marked

T6NR39E

S22 | S23

S27 | S26

1932

from which

A fir, 30 ins. diam., bears N.37°E., 409 lks. dist., marked T 6 N R 39 E S 23 B T.

A fir, 52 ins. diam., bears S.63°E., 255 lks. dist., marked T 6 N R 39 E S 26 B T.

Subdivision of T. 6 N., R. 39 E.

Chains

A fir, 24 ins. diam., bears S. 40° W., 111 lks. dist., marked T 6 N R 39 E S 27 B T.

A fir, 18 ins. diam., bears N. 39° W., 235 lks. dist., marked T 6 N R 39 E S 22 B T.

Land, mountainous.

Soil, sandy loam, rocky; 3rd rate.

Timber, fir, pine, spruce, tamarack and yew.

Undergrowth, alder, willow, nettles, fern, huckleberry, vinemaple, buck brush, Oregon grape, cherry and thimble berry.

S. 89° 51' E., on a random line bet. secs. 23 and 26.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

80.02 Intersect N. and S. line, 2 lks. N. of the cor. of secs. 23, 24, 25, and 26.

Thence

N. 89° 50' W., on a true line bet. secs. 23 and 26.

Desc. 315 ft. over NW. slope, through timber and brush.

9.00 Milk Creek, 6 lks. wide, course SE.; asc. 265 ft. over SE. slope.

18.00 Spur, slopes S.; desc. 100 ft. over SW. slope.

21.80 Ravine, course S. 20° E., asc. 450 ft. over broken SE. slope.

39.00 Spur, slopes S.; thence along S. slope.

40.01 Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap marked

S23
 $\frac{1}{4}$ S26

from which

A fir, 18 ins. diam., bears N. 24° E., 134 lks. dist., marked $\frac{1}{4}$ S 23 B T.

A fir, 20 ins. diam., bears S. 75° W., 146 lks. dist., marked $\frac{1}{4}$ S 26 B T.

Desc. 540 ft. over SW. slope.

55.50 Creek, 2 lks. wide, course SE.; asc. 745 ft. over NE. slope.

80.02 The cor. of secs. 22, 23, 26, and 27.

Land, mountainous.

Soil, sandy loam, rocky; 3rd rate.

Timber, fir, pine, spruce, tamarack and yew.

Undergrowth, alder, huckleberry, willow, vinemaple, salal, cherry, Oregon grape, syringa, thimble berry and buck brush.

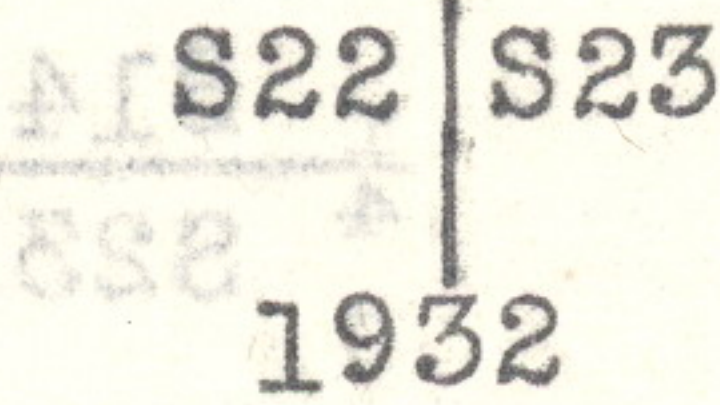
N. 0° 02' W., bet. secs. 22 and 23.

Asc. 55 ft. over SE. slope, through timber and brush.

7.50 Spur, slopes E.; desc. 150 ft. over NE. slope.

Subdivision of T. 6 N., R. 39 E.

Chains
 11.30 Ravine, course E.; asc. 50 ft. over SE. slope.
 14.25 Spur, slopes E.; desc. 400 ft. over NE. slope.
 33.00 Creek, 4 lks. wide, course SE.; asc. 155 ft. over SW. slope.
 40.00 Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap marked



from which

A fir, 10 ins. diam., bears N.83°E., 18 lks. dist., marked $\frac{1}{4}$ S 23 B T.

A fir, 18 ins. diam., bears N.30°W., 77 lks. dist., marked $\frac{1}{4}$ S 22 B T.

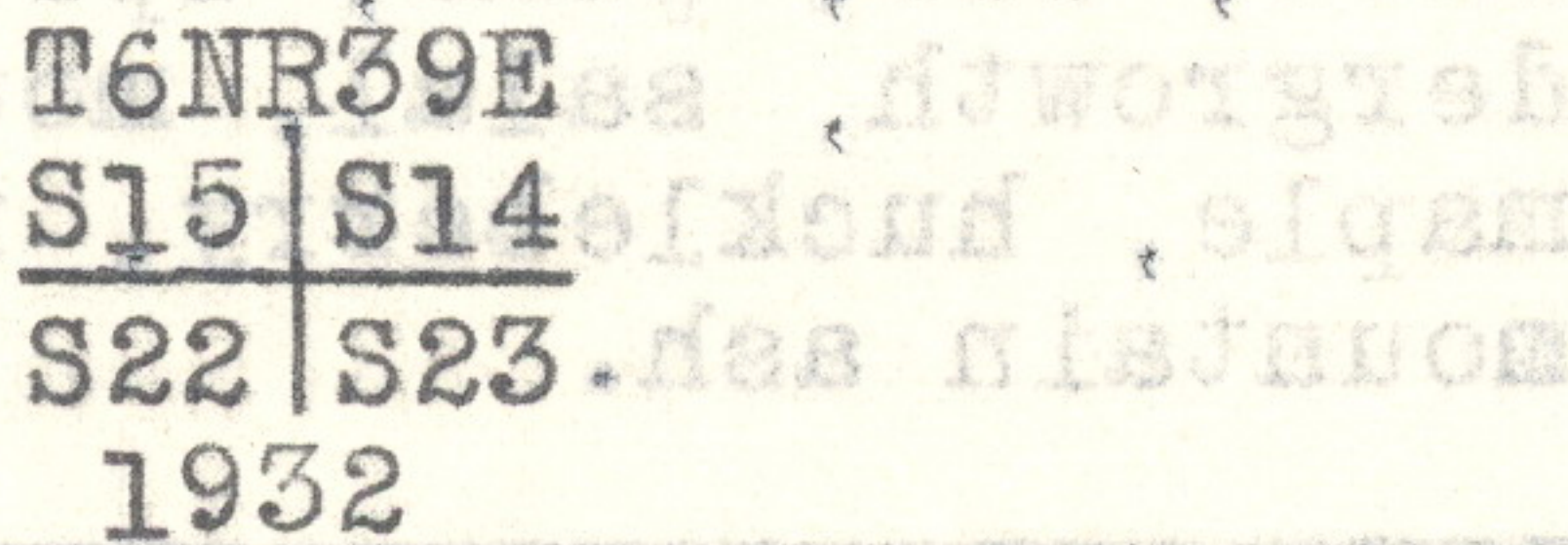
Continue to asc. 155 ft. over SW. slope.

55.55 Spur, slopes W.; desc. 90 ft. over NW. slope.

66.00 Ravine, course SW.; asc. 175 ft. over broken SE. slope.

79.50 Spur, slopes E.; desc. 10 ft. over NE. slope.

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 8 ins. in the ground to solid rock, and in a mound of stone to top, for cor. of secs. 14, 15, 22, and 23, with brass cap marked



from which

A fir, 16 ins. diam., bears N.74°E., 77 lks. dist., marked T 6 N R 39 E S 14 B T.

A fir, 12 ins. diam., bears S.55°E., 20 lks. dist., marked T 6 N R 39 E S 23 B T.

A fir, 14 ins. diam., bears S.83 $\frac{1}{2}$ °W., 23 lks. dist., marked T 6 N R 39 E S 22 B T.

A fir, 6 ins. diam., bears N.14°W., 88 lks. dist., marked T 6 N R 39 E S 15 B T.

Land, mountainous.

Soil, sandy loam, rocky; 3rd rate.

Timber, fir, pine, spruce and tamarack.

Undergrowth, mountain laurel, alder, willow, Oregon grape, huckleberry, mountain ash, syringa, salal, rose and buck brush.

S.89°50'E., on a random line bet. secs. 14 and 23.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

80.00 Intersect N. and S. line, 23 lks. S. of the cor. of secs. 13, 14, 23, and 24.

Thence

West, on a true line bet. secs. 14 and 23.

Subdivision of T. 6 N., R. 39 E.

Chains

Asc. 55 ft. over broken SE. slope, through timber and brush.

7.90 Spur, slopes S.; desc. 310 ft. over SW. slope.

21.00 Milk Creek, 1 lk. wide, course SE.; asc. 455 ft. over SE. slope.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 20 ins. in the ground to solid rock, and in a mound of stone to top, for 1/4 sec. cor., with brass cap marked

S14
1/4 S23

1932

from which

A fir, 14 ins. diam., bears N. 57° E., 35 lks. dist., marked 1/4 S 14 B T.

A fir, 14 ins. diam., bears S. 50° E., 21 lks. dist., marked 1/4 S 23 B T.

Continue to asc. 100 ft. over gradual SE. slope.

57.40 Ridge, bears N. and S.; desc. 475 ft. over W. slope.

76.50 Ravine, course S.; asc. 120 ft. over E. slope.

80.00 The cor. of secs. 14, 15, 22, and 23.

Land, mountainous.
Soil, sandy loam, rocky; 3rd rate.
Timber, fir, pine, spruce and tamarack.
Undergrowth, salal, mountain laurel, willow, alder, vine-maple, huckleberry, rose, Oregon grape, buck brush and mountain ash.

N. 0° 02' W., bet. secs. 14 and 15.

Desc. 60 ft. over NE. slope, through timber and brush.

5.40 Ravine, course SE.; asc. 510 ft. over gradual broken SW. slope, changes to SE.

38.70 Skyline Road, bears NE. and SW.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 18 ins. in the ground to solid rock, and in a mound of stone to top, for 1/4 sec. cor., with brass cap marked.

1/4

S15 S14

1932

from which

A fir, 20 ins. diam., bears N. 26° E., 11 lks. dist., marked 1/4 S 14 B T.

A fir, 10 ins. diam., bears N. 50° W., 18 lks. dist., marked 1/4 S 15 B T.

Continue to asc. 30 ft. over gradual S. slope.

45.89 Intersect the Oregon and Washington boundary.

Set an iron post, 3 ft. long, 2 ins. diam., 20 ins. in the ground to solid rock, and in a mound of stone to top,

Subdivision of T. 6 N., R. 39 E.

Chains

for closing cor. of secs. 14 and 15, with brass cap marked

W N
S15 | S14
T6NR39E
C C
1932

from which

A fir, 6 ins. diam., bears S.28°E., 33 lks. dist., marked T 6 N R 39 E S 14 C C B T.

A pine, 8 ins. diam., bears S.68½°W., 102 lks. dist., marked T 6 N R 39 E S 15 C C B T.

From this point the 50-mile 52 chain monument, on the Oregon and Washington boundary, bears N.88°56'W., 12.12 chs. dist., previously described.

Land, mountainous.

Soil, sandy loam, rocky; 3rd rate.

Timber, fir, pine, spruce and tamarack.

Undergrowth, huckleberry, vinemaple, alder, rose, Oregon grape, mountain mahogany, mountain laurel and buck brush.

To complete the survey of sec. 14, I go to the cor. of secs. 14 and 15 only, established under group No. 130, Washington, as hereinbefore described, and run S.88°56'E., along the Oregon and Washington boundary.

14.18 Mid point on the N. bdy. of sec. 14.

Set an iron post, 3 ft. long, 1 in. diam., 8 ins. in the ground to solid rock, and in a mound of stone to top, for ¼ sec. cor. of sec. 14 only, with brass cap marked

W N
¼ S 14

1932

from which,

A pine, 8 ins. diam., bears S.33¼°E., 45 lks. dist., marked ¼ S 14 B T.

A pine, 14 ins. diam., bears S.47½°W., 85 lks. dist., marked ¼ S 14 B T.

From the cor. of secs. 3, 4, 33, and 34, on the S. bdy. of the Tp.

N.0°03'W., bet. secs. 33 and 34.

Asc. 480 ft. over S. slope, through timber and brush.

11.10 Continue to asc. 355 ft. over SE. slope.

20.70 Spur, slopes E.; desc. 130 ft. over NE. slope.

32.00 Head of ravine, course E.; asc. 115 ft. over SE. slope.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 20 ins. in the ground to solid rock, and in a mound of stone to top, for ¼ sec. cor., with brass cap marked

Subdivision of T. 6 N., R. 39 E.

Chains

$\frac{1}{4}$ sec. cor.
 S33 | S34
 1932

from which

A fir, 14 ins. diam., bears S. 53° E., 63 lks. dist., marked $\frac{1}{4}$ S 34 B T.

A fir, 12 ins. diam., bears N. 82° W., 73 lks. dist., marked $\frac{1}{4}$ S 33 B T.

Continue to asc. 265 ft. over SE. slope.

54.00 Top of ascent, bears NE. and SW.; thence along level top.

64.00 Top of descent, bears NE. and SW.; desc. 90 ft. over NW. slope.

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, for cor. of secs. 27, 28, 33, and 34, with brass cap marked

T6NR39E
 S28 | S27
 S33 | S34
 1932

from which

A fir, 18 ins. diam., bears N. 10° E., 17 lks. dist., marked T 6 N R 39 E S 27 B T.

A fir, 18 ins. diam., bears S. 31 $\frac{1}{4}$ ° E., 18 lks. dist., marked T 6 N R 39 E S 34 B T.

A fir, 12 ins. diam., bears S. 65° W., 74 lks. dist., marked T 6 N R 39 E S 33 B T.

A fir, 12 ins. diam., bears N. 52 $\frac{1}{2}$ ° W., 22 lks. dist., marked T 6 N R 39 E S 28 B T.

Land, mountainous.
 Soil, sandy loam, rocky; 3rd rate.
 Timber, fir, pine, spruce, tamarack and yew.
 Undergrowth, salal, alder, vinemaple, huckleberry, Oregon grape, willow, fern, buck brush, syringa and mountain laurel.

East, on a random line bet. secs. 27 and 34.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

80.16 Intersect N. and S. line, 9 lks. N. of the cor. of secs. 26, 27, 34, and 35.

Thence

N. 89° 56' W., on a true line bet. secs. 27 and 34.

Desc. 30 ft. over SW. slope, through timber and brush.

0.85 Creek, 4 lks. wide, course SE.; asc. 1030 ft. over broken NE. slope.

40.08 Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap marked

$\frac{1}{4}$ S27
 S34
 1932

Subdivision of T. 6 N., R. 39 E.

Chains

from which
 A fir, 18 ins. diam., bears N.62°E., 25 lks. dist.,
 marked $\frac{1}{4}$ S 27 B T.
 A fir, 18 ins. diam., bears S.50°E., 15 lks. dist.,
 marked $\frac{1}{4}$ S 34 B T.

Continue to asc. 575 ft. over NE. slope.

68.70 Rounding ridge, bears N. and S.; desc. 120 ft. over W. slope.

80.16 The cor. of secs. 27, 28, 33, and 34.

Land, mountainous.
 Soil, sandy loam, rocky; 3rd rate.
 Timber, fir, pine, spruce and tamarack.
 Undergrowth, alder, salal, huckleberry, willow, Oregon grape, mountain ash, mountain laurel, buck brush and syringa.

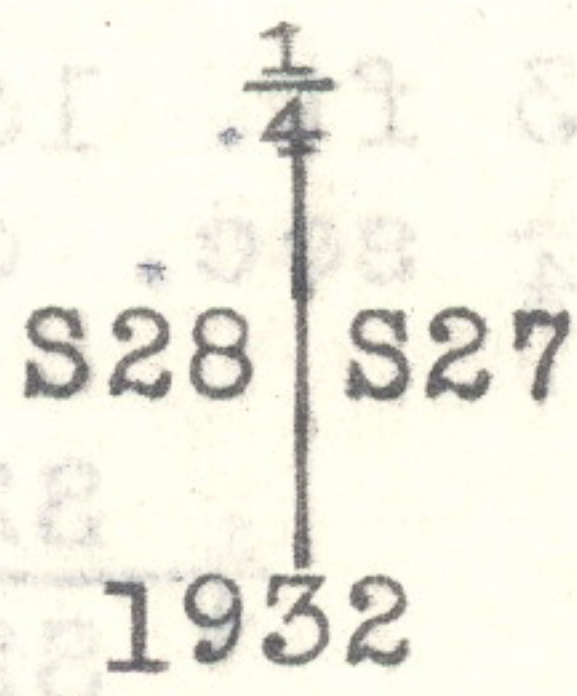
N.0°03'W., bet. secs. 27 and 28.

Along W. slope, through timber and brush.

20.00 Asc. 30 ft. over SW. slope.

34.00 Rounding ridge, bears NW. and SE.; desc. 180 ft. over NE. slope.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap marked



from which

A fir, 14 ins. diam., bears S.63°E., 47 lks. dist., marked $\frac{1}{4}$ S 27 B T.

A fir, 14 ins. diam., bears S.67°W., 31 lks. dist., marked $\frac{1}{4}$ S 28 B T.

Continue to desc. 320 ft. over NE. slope.

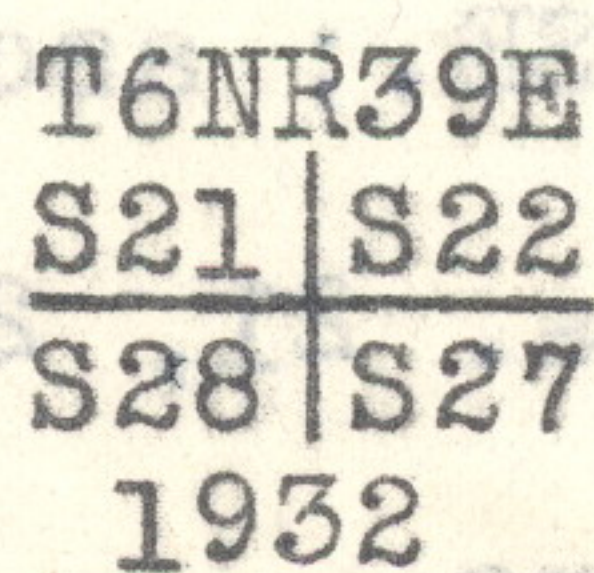
55.70 Ravine, course N.70°E.; asc. 90 ft. over SE. slope.

59.70 Spur, slopes E.; desc. 85 ft. over NE. slope.

68.50 Ravine, course E.; asc. 200 ft. over SE. slope.

77.20 Spur, slopes E.; desc. 80 ft. over NE. slope.

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 12 ins. in the ground to solid rock, and in a mound of stone to top, for cor. of secs. 21, 22, 27, and 28, with brass cap marked



from which,

A fir, 10 ins. diam., bears N.37°E., 70 lks. dist., marked T 6 N R 39 E S 22 B T.

Subdivision of T. 6 N., R. 39 E.

Chains

- A fir, 10 ins. diam., bears S.23°E., 294 lks. dist., marked T 6 N R 39 E S 27 B T.
- A fir, 7 ins. diam., bears S.1°W., 257 lks. dist., marked T 6 N R 39 E S 28 B T.
- A fir, 40 ins. diam., bears N.8½°W., 131 lks. dist., marked T 6 N R 39 E S 21 B T.

Land, mountainous.
Soil, sandy loam, rocky; 3rd rate.
Timber, fir, pine, spruce and tamarack.
Undergrowth, huckleberry, alder, willow, rose, vinemaple, salal, mountain ash, Oregon grape and buck brush.

S.89°56'E., on a random line bet. secs. 22 and 27.

- 40.00 Set temp. ¼ sec. cor.
- 80.04 Intersect N. and S. line, 37 lks. N. of the cor. of secs. 22, 23, 26, and 27.

Thence

N.89°40'W., on a true line bet. secs. 22 and 27.

Asc. 445 ft. over NE. slope, through timber and brush.

- 13.00 Ridge, bears NW. and SE.; desc. 315 ft. over SW. slope.
- 27.90 Ravine, course S.; asc. 75 ft. over SE. slope.
- 30.30 Small spur, slopes S.; desc. 265 ft. over SW. slope.
- 40.02 Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for ¼ sec. cor., with brass cap marked

¼ S22
¼ S27

1932

from which

- A fir, 8 ins. diam., bears North, 29 lks. dist., marked ¼ S.22 B T.
- A fir, 8 ins. diam., bears S.22°W., 11 lks. dist., marked ¼ S.27 B T.

Continue to desc. 160 ft. over SW. slope.

- 44.10 Creek, 2 lks. wide, course S.; asc. 230 ft. over SE. slope.
- 52.75 Spur, slopes S.; desc. 360 ft. over W. slope.
- 65.00 Creek, 2 lks. wide, course S.; asc. 110 ft. over SE. slope.
- 68.20 Spur, slopes S.20°E.; desc. 65 ft. over SW. slope.
- 71.00 Ravine, course SE.; asc. 275 ft. over NE. slope.
- 80.04 The cor. of secs. 21, 22, 27, and 28.

Land, mountainous.
Soil, sandy loam, rocky; 3rd rate.
Timber, fir, pine, spruce and tamarack.
Undergrowth, huckleberry, alder, willow, vinemaple, salal, mountain laurel, mountain ash, Oregon grape and fern.

Subdivision of T. 6 N., R. 39 E.

Chains

N. 0° 03' W., bet. secs. 21 and 22.

Desc. 55 ft. over NE. slope, through timber and brush.

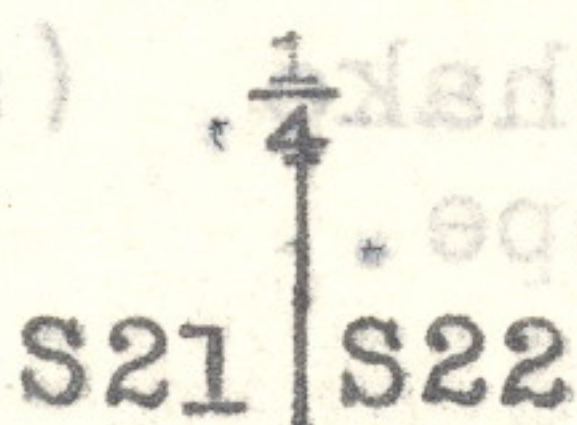
1.95 Spring branch, 1 1/2 k. wide, course E.; asc. 50 ft. over SE. slope.

4.35 Small spur, slopes E.; desc. 25 ft. over NE. slope.

5.50 Head of small ravine, course E.; asc. 375 ft. over S. slope.

22.50 Top of ascent, bears E. and W.; thence over rolling top.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for 1/4 sec. cor., with brass cap marked



from which

A pine, 8 ins. diam., bears S. 34° E., 42 lks. dist., marked 1/4 S 22 B T.

A pine, 6 ins. diam., bears S. 65° W., 29 lks. dist., marked 1/4 S 21 B T.

45.00 Top of descent, bears NW. and SE.; desc. 150 ft. over NE. slope.

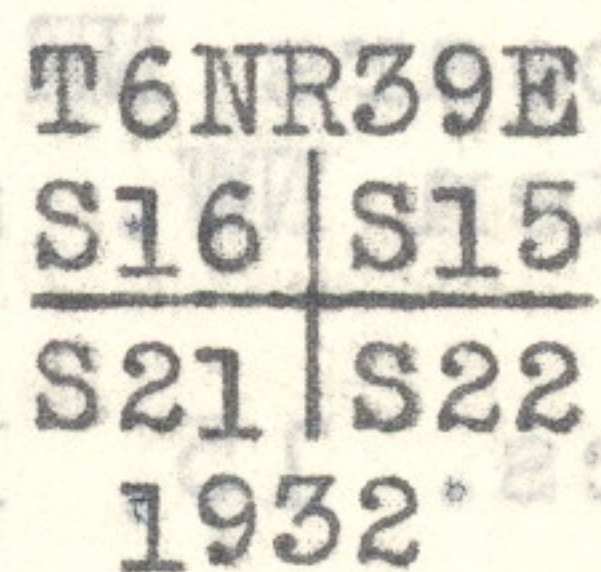
53.00 Ravine, course E.; thence along rolling E. slope.

58.60 Asc. 75 ft. over SE. slope.

65.05 Telephone line, bears NE. and SW.

67.40 Skyline Road, bears NE. and SW.; on top of flat topped ridge, bears NE. and SW.; desc. 220 ft. over NW. slope.

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 18 ins. in the ground to solid rock, and in a mound of stone to top, for cor. of secs. 15, 16, 21, and 22, with brass cap marked



from which

A fir, 11 ins. diam., bears N. 2° E., 9 lks. dist., marked T 6 N R 39 E S 15 B T.

A fir, 16 ins. diam., bears S. 23 1/2° E., 76 lks. dist., marked T 6 N R 39 E S 22 B T.

A fir, 30 ins. diam., bears S. 45 1/2° W., 50 lks. dist., marked T 6 N R 39 E S 21 B T.

A fir, 10 ins. diam., bears N. 36 1/2° W., 25 lks. dist., marked T 6 N R 39 E S 16 B T.

Land, mountainous.
Soil, sandy loam, rocky; 3rd rate.
Timber, fir, pine, spruce, tamarack and yew.
Undergrowth, huckleberry, alder, vinemapple, salal, willow, mountain laurel; mountain ash, Oregon grape, buck brush and fern.

Subdivision of T. 6 N., R. 39 E.

Chains	S. 89° 40' E., on a random line bet. secs. 15 and 22.
40.00	Set temp. 1/4 sec. cor.
79.92	Intersect N. and S. line, 5 lks. S. of the cor. of secs. 14, 15, 22, and 23.
	Thence
	N. 89° 42' W., on a true line bet. secs. 15 and 22.
	Asc. 210 ft. over SE. slope, through timber and brush.
11.30	Spur, slopes S. 20° E.; desc. 40 ft. over SW. slope.
19.00	Ravine, course SE.; asc. 440 ft. over E. slope.
31.90	Top of east Milk Shake, (a round topped hill) desc. 85 ft. over SW. slope.
39.96	Set an iron post, 3 ft. long, 1 in. diam., 20 ins. in the ground to solid rock, and in a mound of stone to top, for 1/4 sec. cor., with brass cap marked
	S15 4 S22
	1932
	from which
	A fir, 12 ins. diam., bears N. 58° W., 31 lks. dist., marked 1/4 S 15 B T.
	A fir, 10 ins. diam., bears S. 65° W., 20 lks. dist., marked 1/4 S 22 B T.
40.70	Bottom of descent, bears N. and S.; asc. 110 ft. over gradual SE. slope.
46.40	Trail, bears NE. and SW.
48.75	Telephone line, bears NE. and SW.
53.50	Top of west Milk Shake, (a round topped hill) desc. 300 ft. over W. slope.
66.50	Skyline Road, bears NE. and SW.; continue to desc. 345 ft. over broken NW. slope.
79.92	The cor. of secs. 15, 16, 21, and 22.
	Land, mountainous. Soil, sandy loam, rocky; 3rd rate. Timber, fir, pine, spruce and tamarack. Undergrowth, huckleberry, alder, vine maple, willow, rose, mountain laurel, mountain ash, Oregon grape, buck brush and syringa.
	N. 0° 03' W., bet. secs. 15 and 16.
	Desc. 205 ft. over broken NW. slope, through timber and brush.
17.40	Ravine, course W.; asc. 160 ft. over SW. slope.
25.00	Spur, slopes W.; desc. 100 ft. over NW. slope.
31.80	Small spur, slopes NW.; desc. 275 ft. over N. slope.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for 1/4 sec. cor., with brass cap marked

Subdivision of T. 6 N., R. 39 E.

Chains

45.70

Intersect the Oregon and Washington boundary.

Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, for closing cor. of secs. 15 and 16, with brass cap marked

W N
S16 | S15
T6NR39E
C C
1932

Continue to desc. 220 ft. over N. slope.

A fir, 30 ins. diam., bears S.15°E., 24 lks. dist., marked $\frac{1}{4}$ S 15 B T.

A fir, 14 ins. diam., bears S.18°W., 50 lks. dist., marked $\frac{1}{4}$ S 16 B T.

Intersect the Oregon and Washington boundary.

Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, for closing cor. of secs. 15 and 16, with brass cap marked

W N
S16 | S15
T6NR39E
C C
1932

Land, mountainous.

Soil, sandy loam, rocky; 3rd rate.

Timber, fir, pine, spruce, tamarack and yew.

Undergrowth, mountain ash, alder, willow, huckleberry, salal, syringa, mountain laurel, Oregon grape, buck brush, fern, rose and service.

From this point, the 50 mile 52 chain monument on the Oregon and Washington boundary, bears S.89°49'E., 67.96 chs. dist., previously described.

Land, mountainous.

Soil, sandy loam, rocky; 3rd rate.

Timber, fir, pine, spruce, tamarack and yew.

Undergrowth, mountain ash, alder, willow, huckleberry, salal, syringa, mountain laurel, Oregon grape, buck brush, fern, rose and service.

To complete the survey of sec. 15, I go to the cor. of secs. 15 and 16 only, established under group No. 130 Washington, as hereinbefore described and run S.89°49'E., along the Oregon and Washington boundary.

14.31

Mid point on the N. bdy. of sec. 15.

Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for $\frac{1}{4}$ sec. cor. of sec. 15 only, with brass cap marked

W N
 $\frac{1}{4}$ S 15
1932

A fir, 26 ins. diam., bears S.18°E., 236 lks. dist., marked $\frac{1}{4}$ S 15 B T.

A fir, 20 ins. diam., bears S.16°W., 203 lks. dist., marked $\frac{1}{4}$ S 15 B T.

Subdivision of T. 6 N., R. 39 E.

Chains

Thence from the cor. of secs. 4, 5, 32, and 33, on the S. bdy. of the Tp.

N.0°04'W., bet. secs. 32 and 33.

Along top of flat topped ridge, through scattering timber and brush.

19.50 Leave flat topped ridge, bears NE. and S.; desc. 115 ft. over NW. slope.

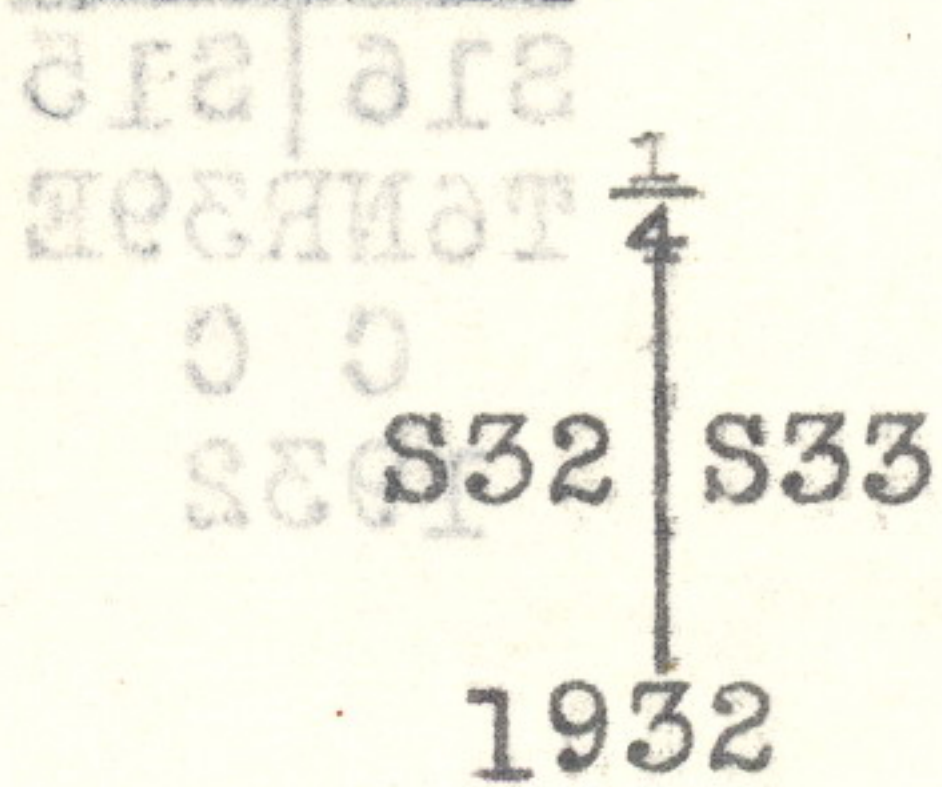
21.10 Skyline Road, bears NE. and SW.

21.20 Telephone line, bears NE. and SW.

25.20 Ravine, course W.; asc. 55 ft. over SW. slope.

31.00 Spur, slopes W.; desc. 70 ft., over NW. slope.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap marked



from which

A fir, 42 ins. diam., bears N.70°E., 45 lks. dist., marked $\frac{1}{4}$ S 33 B T.

A spruce, 14 ins. diam., bears N.36°W., 46 lks. dist., marked $\frac{1}{4}$ S 32 B T.

Continue to desc. 95 ft. over NW. slope.

45.80 Ravine, course W.; asc. 70 ft. over SW. slope.

51.20 Spur, slopes W.; desc. 70 ft. over NW. slope.

54.30 Spring branch, 1 lk. wide, course W.; asc. 310 ft. over SW. slope, to sec. cor.

68.45 Slope changes to SE.

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, for cor. of secs. 28, 29, 32, and 33, with brass cap marked

T6NR39E
S29 S28

S32 S33
1932

from which
A fir, 12 ins. diam., bears N.69°E., 98 lks. dist., marked T 6 N R 39 E S 28 B T.

A fir, 12 ins. diam., bears S.73°E., 41 lks. dist., marked T 6 N R 39 E S 33 B T.

A fir, 10 ins. diam., bears S.41°W., 13 lks. dist., marked T 6 N R 39 E S 32 B T.

A fir, 8 ins. diam., bears N.60°W., 3 lks. dist., marked T 6 N R 39 E S 29 B T.

Land, mountainous.
Soil, sandy loam, rocky; 3rd rate.

Timber, fir, pine, spruce and tamarack.
Undergrowth, alder, salal, huckleberry, vinemaple, willow,

Subdivision of T. 6 N., R. 39 E.

Chains

mountain laurel, Oregon grape, and buck brush.

East, on a random line bet. secs. 28 and 33.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

79.86 Intersect N. and S. line, 7 lks. N. of the cor. of secs. 27, 28, 33, and 34.

Thence

N. 89° 57' W., on a true line bet. secs. 28 and 33.

Desc. 255 ft. over W. slope, through timber and brush.

15.85 Spring branch, 1 lk. wide, course SW.; asc. 60 ft. over SE. slope.

18.85 Small rounding spur, slopes S.; desc. 135 ft. over gradual SW. slope.

34.00 Creek, 3 lks. wide, course S.; asc. 25 ft. over E. slope.

39.93 Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap marked

$\frac{1}{4}$ S 28

$\frac{1}{4}$ S 33

1932

from which

A fir, 8 ins. diam., bears N. 68° E., 11 lks. dist., marked $\frac{1}{4}$ S 28 B T.

A fir, 8 ins. diam., bears S. 22° E., 18 lks. dist., marked $\frac{1}{4}$ S 33 B T.

Continue to asc. 320 ft. over E. slope.

65.00 Top of ascent, bears N. and S.; thence over rolling top.

65.10 Skyline Road, bears N. and S.

65.30 Flat topped ridge, bears N. and S.

65.93 Telephone line, bears N. and S.

66.50 Desc. 90 ft. over SW. slope.

74.00 Bottom of descent, bears N. and S.; asc. 40 ft. over SE. slope.

79.86 The cor. of secs. 28, 29, 32, and 33.

Land, mountainous.

Soil, sandy loam, rocky; 3rd rate.

Timber, fir, pine, spruce and tamarack.

Undergrowth, alder, huckleberry, vinemaple, salal, willow, buck brush, Oregon grape, fern, mountain laurel, and mountain ash.

N. 0° 04' W., bet. secs. 28 and 29.

Asc. 75 ft. over gradual SW. slope, through timber and brush.

5.40 Top of ascent, bears E. and W.; thence along gradual W. slope.

Subdivision of T. 6 N., R. 39 E.

Chains	
20.63	Telephone line, bears E. and W.
23.60	New road, under construction, bears E. and W.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 4 ins. in the ground to solid rock, and in a mound of stone to top, for $\frac{1}{4}$ sec. cor., with brass cap marked
	$\frac{1}{4}$ S29 S28 1932
	from which
	A fir, 18 ins. diam., bears N.64°E., 76 lks. dist., marked $\frac{1}{4}$ S 28 B T.
	A fir, 10 ins. diam., bears N.25°W., 133 lks. dist., marked $\frac{1}{4}$ S.29 B T.
43.00	Desc. 155 ft. over gradual NW. slope.
66.90	Spring on line, drains W.
74.87	Trail, bears NE. and SW.; continue to desc. 75 ft. over NW. slope.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, for cor. of secs. 20, 21, 28, and 29, with brass cap marked
	T6NR39E S20 S21 S29 S28 1932
	from which
	A fir, 19 ins. diam., bears N.88°E., 8 lks. dist., marked T 6 N R 39 E S 21 B T.
	A fir, 9 ins. diam., bears S.10 $\frac{1}{2}$ °E., 18 lks. dist., marked T 6 N R 39 E S 28 B T.
	A fir, 12 ins. diam., bears S.68°W., 18 lks. dist., marked T 6 N R 39 E S 29 B T.
	A fir, 12 ins. diam., bears N.18 $\frac{1}{2}$ °W., 32 lks. dist., marked T 6 N R 39 E S 20 B T.
	Land, mountainous. Soil, sandy loam, rocky; 3rd rate. Timber, fir, pine, spruce and tamarack. Undergrowth, huckleberry, salal, mountain laurel, mountain ash, Oregon grape, rose, alder, vinemaple and buck brush.
	S.89°57'E., on a random line bet. secs. 21 and 28.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.88	Intersect N. and S. line, 30 lks. S. of the cor. of secs. 21, 22, 27, and 28.
	Thence
	S.89°50'W., on a true line bet. secs. 21 and 28.
	Asc. 345 ft. over E. slope, through timber and brush.

Subdivision of T. 6 N., R. 39 E.

Chains	
14.90	Flat topped ridge, bears N. and S.; desc. 150 ft. over W. slope.
31.90	Dry creek bed, 4 lks. wide, course S.; asc. 70 ft. over gradual E. slope.
39.94	Set an iron post, 3 ft. long, 1 in. diam., 20 ins. in the ground to solid rock, and in a mound of stone to top, for $\frac{1}{4}$ sec. cor., with brass cap marked
	1932
	from which
	A fir, 8 ins. diam., bears N. 65° W., 24 lks. dist., marked $\frac{1}{4}$ S 21 B T.
	A fir, 11 ins. diam., bears S. 60° E., 14 lks. dist., marked $\frac{1}{4}$ S 28 B T.
	Continue to asc. 80 ft. over gradual E. slope.
50.70	Skyline Road, bears N. and S.; (on top of flat topped ridge bears N. and S.); desc. 105 ft. over gradual W. slope.
51.89	Telephone line, bears NE. and SW.
67.00	Bottom of descent, bears N. and S.; thence over rolling land.
76.30	Trail, bears NE. and SW.
76.80	Top of descent, bears NE. and SW.; desc. 80 ft. over NW. slope.
79.88	The cor. of secs. 20, 21, 28, and 29.

Land, mountainous.
 Soil, sandy loam, rocky; 3rd rate.
 Timber, fir, pine, spruce and tamarack.
 Undergrowth, huckleberry, mountain laurel, alder, mountain ash, Oregon grape, buck brush, vinemapple and rose.

N. 0° 04' W., bet. secs. 20 and 21.

Desc. 195 ft. over NW. slope, through timber and brush.

2.25	Small spring, on line, drains W.
9.50	Ravine, course W.; asc. 190 ft. over SW. slope.
20.30	Round topped spur, slopes W.; desc. 80 ft. over NW. slope.
26.40	Ravine, course W.; asc. 70 ft. over SW. slope.
29.75	Ridge, bears NW. and SE.; desc. 240 ft. over NE. slope.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 15 ins. in the ground to solid rock, and in a mound of stone to top, for $\frac{1}{4}$ sec. cor., with brass cap marked

S20 | S21

1932

from which

A fir, 10 ins. diam., bears N. 14° E., 129 lks. dist.,

Subdivision of T. 6 N., R. 39 E.

Chains

marked $\frac{1}{4}$ S 21 B T.

A fir, 12 ins. diam., bears N. 43° W., 82 lks. dist., marked $\frac{1}{4}$ S 20 B T.

Continue to descend 555 ft. over broken NE. slope.

53.40 Creek, 2 lks. wide, course NW.; asc. 925 ft. over broken SW. slope, through scattering timber and brush.

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, for cor. of secs. 16, 17, 20, and 21, with brass cap marked

T6NR39E
 S17 | S16
 S20 | S21
 1932

from which

A pine, 5 ins. diam., bears N. 54 $\frac{1}{2}$ ° E., 92 lks. dist., marked B T.

A fir, 18 ins. diam., bears S. 5° E., 300 lks. dist., marked T 6 N R 39 E S 21 B T.

A fir, 22 ins. diam., bears S. 61 $\frac{1}{2}$ ° W., 32 lks. dist., marked T 6 N R 39 E S 20 B T.

A fir, 20 ins. diam., bears N. 12° W., 98 lks. dist., marked T 6 N R 39 E S 17 B T.

Land, mountainous.
 Soil, sandy loam, rocky; 3rd rate.
 Timber, fir, pine, spruce and tamarack.
 Undergrowth, alder, huckleberry, salal, mountain ash, Oregon grape, fern, rose, service, vinemaple, thimble berry and buck brush.

40.00 N. 89° 50' E., on a random line bet. secs. 16 and 21. Set temp. $\frac{1}{4}$ sec. cor.

79.80 Intersect N. and S. line, 7 lks. N. of the cor. of sec. 15, 16, 21, and 22.

Thence

S. 89° 53' W., on a true line bet. secs. 16 and 21.

Desc. 35 ft. over NW. slope, through timber and brush.

0.80 Ravine, course N.; asc. 95 ft. over NE. slope.

6.20 Spur, slopes NW.; desc. 285 ft. over W. slope.

14.80 Ravine, course N.; asc. 495 ft. over E. slope.

33.60 Spur, slopes N.; desc. 160 ft. over NW. slope.

39.00 Ravine, course N.; asc. 25 ft. over NE. slope.

39.90 Set an iron post, 3 ft. long, 1 in. diam., 16 ins. in the ground to solid rock, and in a mound of stone to top, for $\frac{1}{4}$ sec. cor., with brass cap marked

$\frac{1}{4}$ S16
 S21
 1932

from which

Subdivision of T. 6 N., R. 39 E.

Chains

A fir, 12 ins. diam., bears S. 77° E., 148 lks. dist., marked 1/4 S 21 B T.

A fir, 10 ins. diam., bears N. 50° W., 29 lks. dist., marked 1/4 S 16 B T.

Continue to asc. 40 ft. over NE. slope.

41.20 Small spur, slopes N.; desc. 230 ft. over NW. slope.

56.80 Ravine, course N.; asc. 380 ft. over NE. slope.

68.68 Telephone line, bears NW. and SE.

70.10 Trail, bears NW. and SE.

72.80 Paradise ridge, bears NW. and SE.; thence along broken S. slope.

77.70 Spur, slopes S.; desc. 90 ft. over SW. slope.

79.80 The cor. of secs. 16, 17, 20, and 21. Land, mountainous. Soil, sandy loam, rocky; 3rd rate. Timber, fir, pine, spruce, tamarack and yew. Undergrowth, mountain ash, alder, willow, huckleberry, rose, vinemaple, salal, Oregon grape, buck brush, fern, thimbleberry and service.

N. 0° 04' W., bet. secs. 16 and 17.

Asc. 160 ft. over SW. slope, through timber and brush.

6.60 Paradise Ridge, bears NW. and SE.; desc. 530 ft. over broken NE. slope.

6.67 Trail, bears NW. and SE.

8.85 Telephone line, bears NW. and SE.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for 1/4 sec. cor., with brass cap marked

S17 | S16 W. 0° 04' W. bet. sec. 16 and 17.

from which

A fir, 12 ins. diam., bears S. 52° E., 18 lks. dist., marked 1/4 S 16 B T.

A fir, 24 ins. diam., bears S. 46° W., 31 lks. dist., marked 1/4 S 17 B T.

40.30 Ravine, course E.; asc. 45 ft. over SE. slope.

43.60 Top of ascent, bears E. and W.; thence along E. slope.

46.12 Intersect the Oregon and Washington boundary.

Set an iron post, 3 ft. long, 2 ins. diam., 15 ins. in the ground to solid rock, and in a mound of stone to top, for closing cor. of secs. 16 and 17, with brass cap marked

W N S17 | S16 T6NR39E

C C 1932

Subdivision of T. 6 N., R. 39 E.

Chains

from which
 A fir, 26 ins. diam., bears S. 61° E., 89 lks. dist.,
 marked $\frac{1}{4}$ S 16 C B T.
 A fir, 36 ins. diam., bears S. 25° W., 110 lks. dist.,
 marked $\frac{1}{4}$ S 16 C B T.

From this point the 48 mile 40 chain monument, on the
 Oregon and Washington boundary, bears N. 89° 49' W.,
 7.39 chs. dist., previously described.

Land, mountainous.
 Soil, sandy loam, rocky; 3rd rate.
 Timber, fir, pine, spruce and tamarack.
 Undergrowth, huckleberry, salal, vinemaple, willow, alder,
 Oregon grape, mountain laurel, mountain ash, cherry,
 syringa and thorn.

To complete the survey of sec. 16, I go to the cor. of
 secs. 16 and 17, only, established under group No. 130,
 Washington, and hereinbefore described, and run
 S. 89° 49' E., along the Oregon and Washington boundary.

14.36 Midpoint on the N. bdy. of sec. 16.
 Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the
 ground, for $\frac{1}{4}$ sec. cor. of sec. 16 only, with brass cap
 marked

$\frac{1}{4}$ S 16
 1932

from which
 A fir, 14 ins. diam., bears S. 23° E., 59 lks. dist.,
 marked $\frac{1}{4}$ S 16 B T.
 A fir, 26 ins. diam., bears S. 30° W., 149 lks. dist.,
 marked $\frac{1}{4}$ S 16 B T.

Thence from the cor. of secs. 5, 6, 31, and 32, on the
 S. bdy. of the Tp.

N. 0° 05' W., bet. secs. 31 and 32.
 Along gradual E. slope, through timber and brush.

7.00 Dim trail, bears NW. and SE.

19.50 New road, (under construction), bears NE. and SW., on
 ridge, bears NE. and SW; desc. 320 ft. over NW. slope.

36.50 Ravine, course W.; asc. 65 ft. over SW. slope.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in
 the ground, for $\frac{1}{4}$ sec. cor., with brass cap marked

Intersect the Oregon and Washington boundary.
 $\frac{1}{4}$
 S31 S32
 1932
 from which

A fir, 16 ins. diam., bears S. 31° E., 84 lks. dist.,
 marked $\frac{1}{4}$ S 32 B T.

Subdivision of T. 6 N., R. 39 E.

Chains

A fir, 6 ins. diam., bears S. 70° W., 53 lks. dist., marked 1/4 S 31 B T.

Continue to asc. 55 ft. over SW. slope.

42.90 Spur, slopes W.; desc. 100 ft. over NW. slope.

51.70 Ravine, course W.; asc. 205 ft. over SW. slope.

59.15 Trail, bears E. and W.

60.10 Spur, slopes W.; desc. 370 ft. over N. slope.

62.15 Trail, bears NW. and SE.

74.00 Small ravine, course NW.; continue to desc. 90 ft. over NW. slope.

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, for cor. of secs. 29, 30, 31, and 32, with brass cap marked

T6NR39E

S30 | S29

S31 | S32

1932

from which

A fir, 40 ins. diam., bears N. 11° E., 10 lks. dist., marked T 6 N R 39 E S 29 B T.

A fir, 38 ins. diam., bears S. 16 1/2° E., 86 lks. dist., marked T 6 N R 39 E S 32 B T.

A fir, 12 ins. diam., bears S. 46° W., 13 lks. dist., marked T 6 N R 39 E S 31 B T.

A fir, 20 ins. diam., bears N. 56° W., 33 lks. dist., marked T 6 N R 39 E S 30 B T.

Land, mountainous.

Soil, sandy loam, rocky; 3rd rate.

Timber, fir, pine, spruce and tamarack.

Undergrowth, alder, huckleberry, mountain laurel, mountain ash, salal, vinemapple, Oregon grape, rose and buck brush.

East, on a random line bet. secs. 29 and 32.

40.00 Set temp. 1/4 sec. cor.

80.14 Intersect N. and S. line, 5 lks. N. of the cor. of secs. 28, 29, 32, and 33.

Thence

N. 89° 58' W., on a true line bet. secs. 29 and 32.

Along S. slope, through timber and brush.

2.35 Spur, slopes SW.; desc. 385 ft. over W. slope.

28.60 South Fork of Walla Walla River, 2 lks. wide, course S.; asc. 205 ft. over SE. slope.

32.30 New road, (under construction), bears N. 20° E., and S. 20° W.

40.07 Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for 1/4 sec. cor., with brass cap marked

S29

1/4 S32

1932

from which

A fir, 14 ins. diam., bears N. 68° E., 237 lks. dist., marked 1/4 S 29 B T.

A fir, 10 ins. diam., bears S. 88° E., 83 lks. dist.,

Subdivision of T. 6 N., R. 39 E.

Chains	marked $\frac{1}{4}$ S 32 B T.										
	Continue to asc. 25 ft. over SE. slope.										
42.00	Ridge, bears N. and S.; desc. 520 ft. over NW. slope.										
59.80	Ravine, course N.; asc. 250 ft. over NE. slope.										
67.65	Spur, slopes N.30°W.; desc. 420 ft. over broken NW. slope.										
80.14	The cor. of secs. 29, 30, 31, and 32.										
	Land, mountainous. Soil, sandy loam, rocky; 3rd rate. Timber, fir, pine, spruce and tamarack. Undergrowth, huckleberry, alder, salal, vinemaple, rose, Oregon grape, mountain laurel, mountain ash and buck brush.										
	West, on a true line bet. secs. 30 and 31.										
	Desc. 85 ft. over NW. slope, through timber and brush.										
2.25	Ravine, course NW.; asc. 140 ft. over NE. slope.										
13.75	Ridge spur, slopes NW.; desc. 525 ft. over W. slope.										
14.26	Dim trail, bears NW. and SE.										
30.00	Ravine, course NW.; asc. 30 ft. over NE. slope.										
30.43	Intersect the W. bdy. of the Tp.										
	Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, for closing cor. of secs. 30 and 31, with brass cap marked										
	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>T6N</td> <td>T6N</td> </tr> <tr> <td>S30</td> <td>S30</td> </tr> <tr> <td>S30</td> <td>S31 CC</td> </tr> <tr> <td>R38E</td> <td>R39E</td> </tr> <tr> <td>1932</td> <td>1932</td> </tr> </table>	T6N	T6N	S30	S30	S30	S31 CC	R38E	R39E	1932	1932
T6N	T6N										
S30	S30										
S30	S31 CC										
R38E	R39E										
1932	1932										
	from which										
	A fir, 10 ins. diam., bears N.67°E., 55 lks. dist., marked T 6 N R 39 E S 30 C C B T.										
	A fir, 40 ins. diam., bears S.65 $\frac{1}{2}$ °E., 37 lks. dist., marked T.6 N R 39 E S.31 C C B T.										
	From this point the cor. of secs. 25 and 36 only, T. 6 N., R. 38 E., previously described, bears S.4°15'E., 29 lks. dist.										
	Land, mountainous. Soil, sandy loam, rocky; 3rd rate. Timber, fir, pine, spruce, tamarack and yew. Undergrowth, huckleberry, alder, salal, rose, Oregon grape, buck brush, mountain laurel and vinemaple.										
	Thence from the cor. of secs. 29, 30, 31, and 32.										
	N. 0°05'W., bet. secs. 29 and 30.										
	Along rolling W. slope, through timber and brush.										
8.00	Asc. 50 ft. over SW. slope.										
13.45	Small spur, slopes NW.; desc. 460 ft. over N. slope.										
27.10	Ravine, course W.; asc. 440 ft. over SW. slope.										

Subdivision of T. 6 N., R. 39 E.

Chains	
40.00	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap marked
	$\frac{1}{4}$ S30 S29 1932 from which
	A fir, 16 ins. diam., bears S. 86° E., 74 lks. dist., marked $\frac{1}{4}$ S 29 B T.
	A fir, 10 ins. diam., bears N. 9° W., 65 lks. dist., marked $\frac{1}{4}$ S 30 B T.
	Continue to asc. 25 ft. over SW. slope.
41.00	Spur, slopes W.; desc. 400 ft. over NW. slope.
56.00	Dry creek bed, 3 lks. wide, course W.; asc. 570 ft. over S. slope.
60.00	Leave timber and brush, bears E. and W.
70.00	Spur, slopes W.; desc. 295 ft. over NW. slope.
70.50	Reenter timber and brush, bears E. and W.
79.50	Bottom of descent, bears E. and W.; thence along W. slope.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, for cor. of secs. 19, 20, 29, and 30, with brass cap marked
	T6NR39E S19 S20 S30 S29 1932 from which
	A fir, 10 ins. diam., bears N. 11° E., 61 lks. dist., marked T 6 N R 39 E S 20 B T.
	A fir, 40 ins. diam., bears S. 73° E., 9 lks. dist., marked T 6 N R 39 E S 29 B T.
	A fir, 22 ins. diam., bears S. 77 $\frac{1}{2}$ ° W., 82 lks. dist., marked T 6 N R 39 E S 30 B T.
	A fir, 18 ins. diam., bears N. 71 $\frac{1}{2}$ ° W., 47 lks. dist., marked T 6 N R 39 E S 19 B T.
	Land, mountainous: Soil, sandy loam, rocky; 3rd rate. Timber, fir, pine, spruce and tamarack. Undergrowth, huckleberry, rose, vinemaple, alder, fern, Oregon grape, buck brush, mountain ash and salal.
	S. 89° 58' E., on a random line bet. secs. 20 and 29.
40:00	Set temp. $\frac{1}{4}$ sec. cor.
80.16	Intersect N. and S. line, 16 lks. N. of the cor. of secs. 20, 21, 28, and 29.
	Thence
	N. 89° 51' W., on a true line bet. secs. 20 and 29.

Subdivision of T. 6 N., R. 39 E.

Chains	Desc. 245 ft. over NW. slope, through timber and brush.
7.10	Ravine, course NW.; asc. 95 ft. over NE. slope.
13.65	Round topped spur, slopes NW.; desc. 415 ft. over NW. slope.
24.40	Creek, 3 lks. wide, course NW.; asc. 410 ft. over broken NE. slope.
29.50	Spring branch, 1 1/2 lks. wide, course NE.
38.75	Spur, slopes N.; desc. 30 ft. over NW. slope.
40.08	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for 1/4 sec. cor., with brass cap marked
	S20 1/4 S29
	1932
	A fir, 14 ins. in diam., bears N. 48° W., 25 lks. dist., marked 1/4 S 20 B T.
	A fir, 12 ins. diam., bears S. 25° E., 50 lks. dist., marked 1/4 S 29 B T.
	Continue to desc. 255 ft. over NW. slope.
51.20	Spring, on line, drains NW.
55.45	Head of ravine, course N.; asc. 85 ft. over NE. slope.
61.25	Small rounding spur, slopes N.; desc. 75 ft. over NW. slope.
65.65	Head of ravine, course N.; thence along N. slope.
68.45	Ridge spur, slopes NW.; desc. 385 ft. over W. slope.
80.16	The cor. of secs. 19, 20, 29, and 30.
	Land, mountainous. Soil, sandy loam, rocky; 3rd rate. Timber, fir, pine, spruce and tamarack. Undergrowth, huckleberry, alder, fern, rose, Oregon grape, vine maple, salal, buck brush, nettles and thimble berry.
	West, on a true line bet. secs. 19 and 30.
	Desc. 325 ft. over broken NW. slope, through timber and brush.
23.80	Bottom of descent, bears N. and S.; thence along N. slope.
27.00	Desc. 160 ft. over NW. slope.
36.28	Intersect the W. bdy. of the Tp.
	Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, for closing cor. of secs. 19 and 30, with brass cap marked
	T6N T6N S24 S19 S30 CC R38E R39E
	1932

Subdivision of T. 6 N., R. 39 E.

Chains

from which

A fir, 12 ins. diam., bears N.25°E., 53 lks. dist., marked T 6 N R 39 E S 19 C C B T.

A fir, 10 ins. diam., bears S.12°E., 22 lks. dist., marked T 6 N R 39 E S 30 C C B T.

From this point the cor. of secs. 24 and 25 only, of T. 6 N., R. 38 E., bears S.4°15'E., 250 lks. dist., previously described.

Land, mountainous. Soil, sandy loam, rocky; 3rd rate. Timber, fir, pine, spruce and tamarack. Undergrowth, huckleberry, alder, salal, rose, vinemaple, Oregon grape, buck brush, fern and syringa.

Thence from the cor. of secs. 19, 20, 29, and 30.

N.0°05'W., bet. secs. 19 and 20.

Asc. 75 ft. over gradual SW. slope, through timber and brush.

5.90 Spur, slopes W.; desc. 15 ft. over NW. slope.

9.80 Bottom of descent, bears E. and W.; asc. 110 ft. over SW. slope.

18.60 Ridge spur, slopes NW.; desc. 240 ft. over NE. slope.

30.85 Large boulder, 20x20x20 ft. above ground, on line.; continue to desc. 410 ft. over N. slope.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for 1/4 sec. cor., with brass cap marked

S19 | S20

1932

from which

A fir, 10 ins. diam., bears S.20°E., 29 lks. dist., marked 1/4 S 20 B T.

A fir, 14 ins. diam., bears N.30°W., 6 lks. dist., marked 1/4 S 19 B T.

Continue to desc. 575 ft. over NE. slope.

58.80 Confluence of dry creek beds, 15 lks. wide, from NE. and SE., course W.; asc. 350 ft. over SW. slope.

72.00 Spur, slopes W.; desc. 105 ft. over NW. slope.

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, for cor. of secs. 17, 18, 19, and 20, with brass cap marked

T6NR39E

S18 | S17

S19 | S20

1932

from which

A fir, 6 ins. diam., bears N.53°E., 28 lks. dist., marked T 6 N R 39 E S 17 B T.

Subdivision of T. 6 N., R. 39 E.

Chains	<p>A fir, 6 ins. diam., bears S.88°E., 14 lks. dist., marked T 6 N R 39 E S 20 B T.</p> <p>A fir, 20 ins. diam., bears S.17°W., 100 lks. dist., marked T 6 N R 39 E S 19 B T.</p> <p>A fir, 14 ins. diam., bears N.80°W., 21 lks. dist., marked T 6 N R 39 E S 18 B T.</p> <p>Land, mountainous. Soil, sandy loam, rocky; 3rd rate. Timber, fir, pine, spruce and tamarack. Undergrowth, huckleberry, salal, vinemapple, alder, fern, mountain laurel, mountain ash, syringa and Oregon grape.</p>
	<p>S.89°51'E., on a random line bet. secs. 17 and 20.</p>
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.36	Intersect N. and S. line, 7 lks. S. of the cor. of secs. 16, 17, 20, and 21. Thence N.89°54'W., on a true line bet. secs. 17 and 20.
	Desc. 415 ft. over SW. slope, through timber and brush.
16.40	Ravine, course S.; asc. 60 ft. over SE. slope.
18.40	Spur, slopes S.; desc. 465 ft. over SW. slope.
26.40	Top of bluff, 100 ft. high, bears N. and S., faces W.
39.00	Ravine, course SW.; asc. 10 ft. over SE. slope.
40.18	Set an iron post, 3 ft. long, 1 in. diam., 20 ins. in the ground to solid rock, and in a mound of stone to top, for $\frac{1}{4}$ sec. cor., with brass cap marked
	<p>$\frac{1}{4}$ S17</p> <p>$\frac{1}{4}$ S20</p> <p>1932</p>
	<p>from which</p> <p>A fir, 6 ins. diam., bears N.5°W., 74 lks. dist., marked $\frac{1}{4}$ S 17 B T.</p> <p>A fir, 40 ins. diam., bears S.69°W., 111 lks. dist., marked $\frac{1}{4}$ S 20 B T.</p>
	Continue to asc. 160 ft. over SE. slope.
51.40	Spur, slopes SW.; desc. 1110 ft. over broken W. slope.
80.36	The cor. of secs. 17, 18, 19, and 20.
	<p>Land, mountainous. Soil, sandy loam, rocky; 3rd rate. Timber, fir, pine, spruce and tamarack. Undergrowth, huckleberry, salal, alder, vinemapple, fern, mountain laurel, mountain ash, syringa and Oregon grape.</p>
	West, on a true line bet. secs. 18 and 19.
	Desc. 230 ft. over NW. slope, through timber and brush.
6.05	Dry creek bed, 5 lks. wide, course SW.

Subdivision of T. 6 N., R. 39 E.

Chains
6.20 Asc. 170 ft. over SE. slope

11.00 Spur, slopes S.; desc. 375 ft. over SW. slope.

21.55 Creek, 7 lks. wide, course NW.; asc. 500 ft. over NE. slope.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap marked

S18
 $\frac{1}{4}$ S19
1932

from which

A fir, 12 ins. diam., bears N.33°E., 9 lks. dist., marked $\frac{1}{4}$ S 18 B T.

A fir, 10 ins. diam., bears S.69°W., 29 lks. dist., marked $\frac{1}{4}$ S 19 B T.

Continue to asc. 25 ft. over NE. slope.

42.18 Intersect the W. bdy. of the Tp.

Set an iron post, 3 ft. long, 2 ins. diam., 12 ins. in the ground to solid rock, and in a mound of stone to top, for closing cor. of secs. 18 and 19, with brass cap marked

T6N	T6N
S13	S18
	CC
R38E	R39E

1932

from which

A fir, 9 ins. diam., bears N.38°E., 31 lks. dist., marked T 6 N R 39 E S 18 C C B T.

A fir, 10 ins. diam., bears S.72°E., 5 lks. dist., marked T 6 N R 39 E S 19 C C B T.

From this point the cor. of secs. 13 and 24, T. 6 N., R. 38 E., bears S.4°15'E., 456 lks. dist., previously described.

Land, mountainous.
Soil, sandy loam, rocky; 3rd rate.
Timber, fir, pine, spruce and tamarack.
Undergrowth, huckleberry, salal, vinemaple, mountain ash, mountain mahogany, mountain laurel, Oregon grape, fern, syringa and alder.

Thence from the cor. of secs. 17, 18, 19, and 20.
N.0°05'W., bet. secs. 17 and 18.
Desc. 300 ft. over NW. slope, through timber and brush.

9.00 Creek, 1 lk. wide, course SW.; asc. 170 ft. over SE. slope.

14.00 Spring branch, 1 lk. wide, course SE.; continue to asc. 820 ft. over broken SW. slope.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap marked

Subdivision of T. 6 N., R. 39 E.

Chains

$\frac{1}{4}$ S 18 | S 17 $\frac{1}{4}$
 1932

from which

A fir, 10 ins. diam., bears S.35°E., 65 lks. dist., marked $\frac{1}{4}$ S 17 B T.

A fir, 14 ins. diam., bears S.22°W., 46 lks. dist., marked $\frac{1}{4}$ S 18 B T.

Continue to asc. 10 ft. over SW. slope.

41.95 Spur, slopes N.70°W.; desc. 195 ft. over NW. slope.

46.00 Intersect the Oregon and Washington boundary.

Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, for closing cor. of secs. 17 and 18, with brass cap marked

W N
 S 18 | S 17
 T 6 N R 39 E
 C C
 1932

from which

A fir, 18 ins. diam., bears S.51°E., 19 lks. dist., marked T 6 N R 39 E S 17 C C B T.

A fir, 18 ins. diam., bears S.43°W., 55 lks. dist., marked T 6 N R 39 E S 18 C C B T.

From this point the 47 mile 60 chain monument on the Oregon and Washington boundary, bears S.89°49'E., 28.22 chs. dist., previously described.

Land, mountainous.
 Soil, sandy loam, rocky; 3rd rate.
 Timber, fir, pine, spruce and tamarack.
 Undergrowth, huckleberry, salal, vinemaple, alder, willow, syringa, mountain mahogany, mountain ash and Oregon grape.

To complete the survey of sec. 17, I go to the 47 mile 60 chain monument on the Oregon and Washington boundary, and run S.89°49'E., along the Oregon and Washington boundary.

11.83 Mid point on the N. bdy. of sec. 17.

Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for $\frac{1}{4}$ sec. cor. of sec. 17 only, with brass cap marked

W N
 $\frac{1}{4}$ S 17

from which

A fir, 10 ins. diam., bears S.48°W., 51 lks. dist., marked $\frac{1}{4}$ S 17 B T.

A fir, 14 ins. diam., bears S.81°W., 57 lks. dist., marked $\frac{1}{4}$ S 17 B T.

Subdivision of T. 6 N., R. 39 E.

Chains

To complete the survey of sec. 18, I go to the closing cor. of Tps. 6 N., Rs. 38 and 39 E., and run

S. 89° 49' E., along the Oregon and Washington boundary

5.76 40.00 chs. in departure west of the closing cor. of secs. 17 and 18.

Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for $\frac{1}{4}$ sec. cor. of sec. 18 only, with brass cap marked

W N
 $\frac{1}{4}$ S 18

1932

from which

A fir, 14 ins. diam., bears S. 37° E., 23 lks. dist., marked $\frac{1}{4}$ S 18 B T.

A fir, 14 ins. diam., bears S. 59° W., 48 lks. dist., marked $\frac{1}{4}$ S 18 B T.

FINAL TEST OF SOLAR ATTACHMENT.

Sept. 13, 1932: in camp located near the cor. of secs. 4, 5, 8, and 9, T. 5 N., R. 39 E., in latitude 45° 56' N., longitude 117° 57' 30" W., at 7h 0m a.m., app. t., I set off 45° 56' N., on the lat. arc; 3° 47' N., on the decl. arc; and orient the instrument with the solar; the line of sight agrees with the meridian established by Polaris observation.

At 4h 0m p. m., app. t., I set off 45° 56' N., on the lat. arc; 3° 37' N., on the decl. arc; and repeat the test of the solar; the line of sight agrees with the meridian established by Polaris observation.

GENERAL DESCRIPTION.

Fractional township 6 north, range 39 east, is located entirely within the Umatilla National Forest. The general elevation of the township is about 5000 ft. above sea level; the summit of the main divide or along the Skyline Road is about 1,000 ft. higher. The elevation of the Round Butte Trail and of Paradise Ridge is about the same as along the Skyline Road. The northwest cor. of the township is set at an elevation of about 3,000 ft. above sea level and is the lowest elevation in the township. Most of this township is very rough and stony. The soil is of a sandy loam composition and in most parts is very rocky. The timber in most parts of this township is of a second growth variety. Very few trees are found with a diameter of over 3 feet. In some places the trees even have a stunted look and it is doubtful if they will ever grow very large. This timber is all too far from market to have any commercial value at this time.

This township has no large streams but is well watered by many small streams in all parts. This township is located so near the highest part of the mountains that it drains in every direction.

The most important development at the present time is the Skyline Road, extending NE. and SW., through the central part of this township. A new road is under construction that turns off the Skyline Road in sec. 28, loops through sec. 29, 32, and 31, and will eventually join a road in Mill Creek leading to Walla Walla, Wash. There are also several good trails; Round Butte Trail in the northeastern part, Paradise Ridge Trail, in the north-

Township 6 North, Range 39 East.

central part, and a trail leading to the Price Guard Station in sec. 32. This Guard Station is located on the headwaters of the South Fork of the Walla Walla River in the southern part of sec. 32. Price Guard Station is located in one of the most beautiful spots in the Blue Mountain Range.

The western part of this township comes within the watershed of the city of Walla Walla, Wash., and no one is allowed to enter without a permit. Several thousand head of sheep are grazed annually during the summer months in the eastern part of this fractional township.

The average of a considerable number of readings over all parts of the township gives a value of 21°45'E., for the mean magnetic declination. There is a range of over 10° in local attraction.

1932

A fir, 14 ins. diam., bears S. 37° E., 23 lks. dist., marked 1/2 S 18 B T.
A fir, 14 ins. diam., bears S. 52° W., 48 lks. dist., marked 1/2 S 18 B T.

FINAL TEST OF SOLAR ATTACHMENT.

Sept. 13, 1932: in camp located near the cor. of sec. 4, S. 8, and 9, T. 5 N., R. 39 E., in latitude 45° 55' N., longitude 117° 37' 30" W., at 7:00 a.m., app. 1. I set out on the lat. arc; 3° 47' N., on the decl. arc; and orient the instrument with the solar; the line of sight agrees with the meridian established by Polaris observation.
At 4:00 p.m., app. 1. I set off 45° 55' N., on the lat. arc; 3° 37' N., on the decl. arc; and repeat the test of the solar; the line of sight agrees with the meridian established by Polaris observation.

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4-680
(August, 1926)

FIELD ASSISTANTS.

NAMES.	CAPACITY.
Leonel R. Davidson	1st Chainman.
Richard Ganong	2nd Chainman.
Earl Gould	Cornerman.
Harold Gould	Axeman.
Norman Prendergast	Axeman.
Willis Powers	Axeman.
Glenn H. Johnson	2nd Chainman.

CERTIFICATE OF UNITED STATES SURVEYOR.

I, Otis O. Gould U. S. Transitman, ~~U. S. Surveyor~~, hereby certify upon honor that, in pursuance of special instructions received from the District Cadastral Engineer for Oregon bearing date of the 11th day of April, 1929, I have well, faithfully, and truly in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the retracement and dependent resurvey of part of the Oregon and Washington boundary, the independent resurvey of the south boundary, the dependent resurvey of the west boundary and the subdivisional lines of township 6 north, range 39 east. of the Willamette Meridian, in the State of Oregon, which are represented in the foregoing field notes as having been executed by me, and under my direction; and 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 District Cadastral Engineer for Oregon and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

Portland, Ore.
Mar. 15, 1933.

Otis O. Gould
~~U. S. Surveyor~~

APPROVAL.

OFFICE OF U. S. SUPERVISOR OF SURVEYS,

DENVER, COLORADO MAR 30 1936, 19

The foregoing field notes of the retracement and Dependent Resurvey of the Oregon and Washington State Boundary from 51 Mile 48 Chain Monument to 46 Mile Monument; Independent Resurvey of the South Boundary; Dependent Resurvey of the West Boundary, and the survey of the Subdivisional Lines of Township No. 6 North, Range No. 39 East, of the Willamette Meridian, Oregon,

executed by Otis O. Gould, U. S. Transitman, under his special instructions dated April 11, 1929, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Grant H. Armon
U. S. Supervisor of Surveys.

~~I certify that the foregoing transcript of the field notes of the above-described surveys in~~
~~has been correctly copied from the original notes on file in this office.~~

~~U. S. Supervisor of Surveys.~~