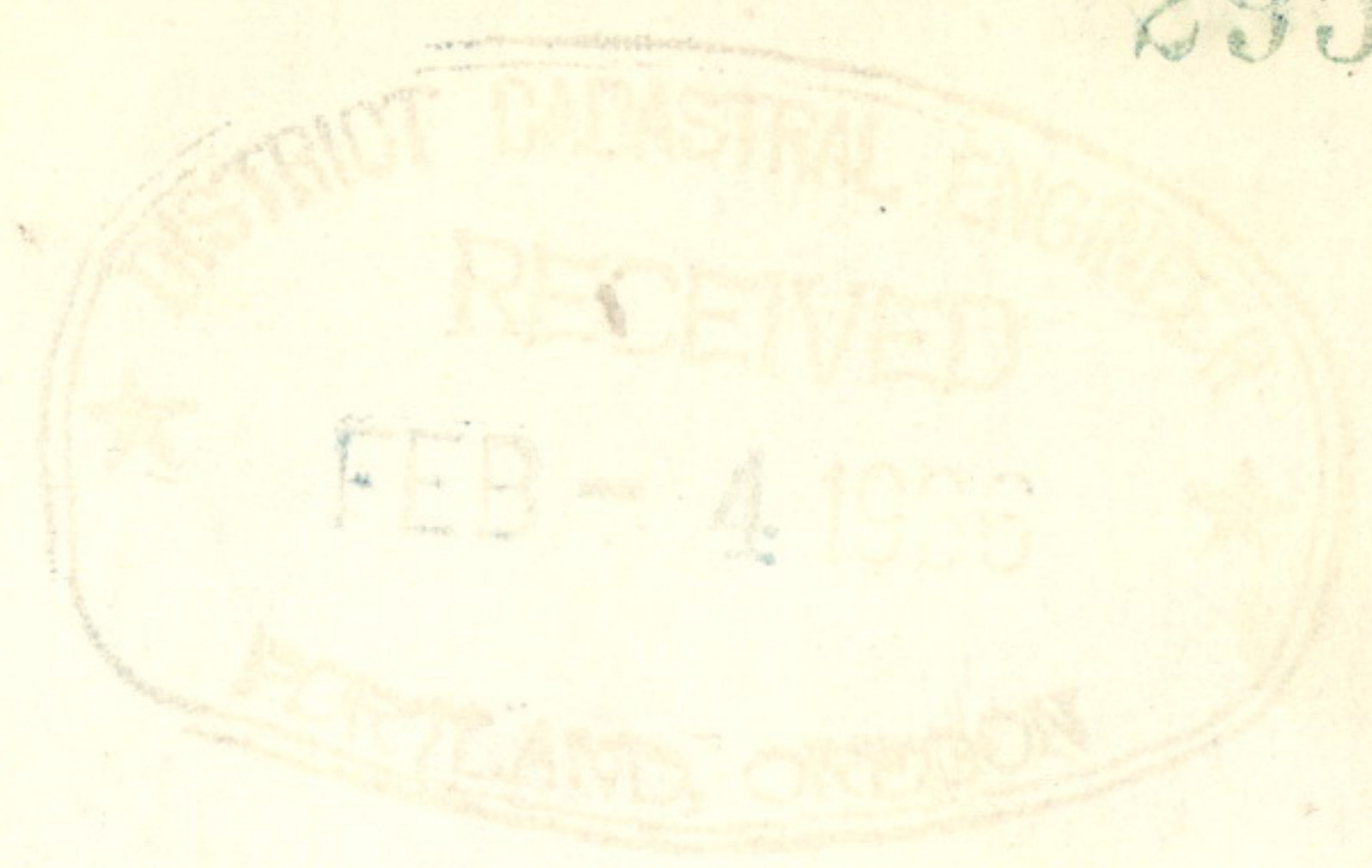


F  
4-679  
(April 1933)



# FIELD NOTES

OF THE SURVEY OF THE

DEPENDENT RESURVEY Ist STAN. PAR. N., S. BDY. T. 5 N., R. 39 E.

DEPENDENT RESURVEY OF THE EAST BOUNDARY OF T. 5 N., R. 38 E.

DEPENDENT RESURVEY OF SOUTH BDY. OF SEC. 36, T. 6 N., R. 38 E.

AND SUBDIVISION OF

TOWNSHIP 5 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, 1929, 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, 1932. June 27, 1935, 19

Survey commenced Aug. 31, 1932.

Survey completed Aug. 13, 1935.



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INDEX DIAGRAM

Township 5 North, Range 39 East.

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## Township 5 North, Range 39 East.

These surveys were executed with a solar compass made by W. and L. E. Gurley, Serial No. U. S. G. S. 20, (used in 1932), and with a solar compass made by W. and L. E. Gurley, Serial No. "Memo B.", (used in 1935) both instruments were constructed in accordance with the standard specifications of the General Land Office. These instruments have a horizontal circle with a diameter of  $5\frac{1}{2}$  ins. with two double opposite verniers reading to single minutes; the sight vanes are 8 ins. long and are spaced 14 ins. apart. The instruments are equipped with Burt solar attachments, radius of latitude arcs  $5\frac{1}{2}$  ins. and of declination arc  $4\frac{1}{2}$  ins., each with single verniers reading to single minutes.

The observations in camp; on Polaris for 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  $4\frac{1}{2}$  ins., with 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 declination 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 beginning the survey, and tested and found free from appreciable error, were approved by the district cadastral engineer on May 19, 1932, and on June 27, 1935. I examined all the instrumental adjustments before making the field tests hereinafter recorded.

The directions of all lines were determined by solar compass method. The measurements were made with Lallie steel tapes, 5 chs. in length, graduated every link for the first 100 lks., and the balance at intervals of 10 lks. The tapes were tested by comparison with a Lufkin standard 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 the township as follows: latitude  $45^{\circ}52'N.$ , and longitude  $118^{\circ}00'W.$

August 13, 1932, in camp located near the cor. of secs. 4, 5, 8, and 9, at 10h 13m 00s p.m., l.m.t., or 10h 4m 50s p.m. by my watch, which reads correct 120 th meridian time as determined by radio signals 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. August 14, after sunrise, I lay off the azimuth of Polaris  $1^{\circ}31'36"$ , and make a meridian mark on a peg, 26.64 lks. (17.58 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	-----	58° 20' 00"
Reduced latitude	-----	45° 55' 50"
Mean watch time of observation	-----	11h 56m 24s
Watch slow of l.m.t.	-----	8m 14s
Same, by reference to radio time signals and calculated difference in longitude	-----	8m 10s



Township 5 North, Range 39 East.

Chains

Every 30 min. 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 of 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° 00' E.

July 7, 1935, in camp heretofore described, the geographic position of which is latitude 45° 56' N., and longitude 117° 57' 30" W., I examined the adjustments of my instruments and proceeded with the usual field tests as follows:

Every 30 min. 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 of 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° 00' E.

Dependent Resurvey, 1st Stan. Par. N., S. Bdy. T. 5 N., R. 39 E.

"Reestablishment of the surveys executed by Rufus S. Moore, U. S. Deputy Surveyor, in 1882."

Random Line

From the angle point of sec. 36, which was formerly the standard corner of Tps. 5 N., Rs. 39 and 40 E.

West, retracing the S. bdy. of sec. 36.

40.00 Find no trace of the standard 1/4 sec. cor. Set temp.

58.11 Find no evidence of the original closing cor. of secs. 1 and 2, T. 4 N., R. 39 E. Set temp.

80.00 Find no evidence of the original standard cor. of secs. 35 and 36. Set temp.

West, retracing the S. bdy. of sec. 35.

41.41 Intersect the standard 1/4 sec. cor. of sec. 35.

57.84 Fall 47 lks. N. of the closing cor. of secs. 2 and 3, T. 4 N., R. 39 E.

81.85 Fall 117 lks. N. of the original standard cor. of secs. 34 and 35.

West, retracing the S. bdy. of sec. 34.

40.17 Fall 7 lks. N. of the original standard 1/4 sec. cor. of sec. 34.

56.77 Find no evidence of the original closing cor. of secs. 3 and 4, T. 4 N., R. 39 E. Set temp.

80.17 Find no evidence of the original standard cor. of secs. 33 and 34. Set temp.

West, retracing the S. bdy. of sec. 33.



Dependent Resurvey, 1st Stan. Par. N., S. Bdy. T. 5 N., R. 39 E.

Chains  
78.48 South Fork of the Walla Walla River, 30 lks. wide, course SW.; asc. 50 ft. over SE. 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 lots 7 and 8, with brass cap marked

S30  
7|8

1932

from which

A fir, 20 ins. diam., bears N.30°E., 101 lks. dist., marked L 8 S 31 B T.

A fir, 26 ins. diam., bears N.64°W., 62 lks. dist., marked L 7 S 31 B T.

Continue to asc. 221 ft. over SE. slope.

87.51 The original standard cor. of Tps. 5 N., Rs. 38 and 39 E., which is a yellow pine, 42 ins. diam., marked

S C T 5 N on N.,  
R 39 E S 31 on E., and  
R 38 E S 36 on W. side.

from which

A fir, 14 ins. diam., bears N.41°E., 37 lks. dist., marks grown over. (Old B. T.)

A pine, 24 ins. diam., bears N.20°W., 13 lks. dist., marked T 5 N R 38 E S 36 S C B T. (Old B. T.)

This is the original cor. established by George S. Pershin under contract No. 304, in 1879. No evidence was found of the cor. reestablished by Rufus S. Moore, under contract No. 437, in 1882.

Land, mountainous.  
Soil, sandy loam, rocky; 3rd and 4th rate.  
Timber, fir, pine, spruce and tamarack.  
Undergrowth, vinemaple, alder, willow, huckleberry, rose, laurel, mountain ash, Oregon grape and buck brush.

Dependent Resurvey of East Bdy. of T. 5 N., R. 38 E.

"Reestablishment of the surveys executed by Rufus S. Moore, U. S. Deputy Surveyor, in 1882, and independently resurveyed by William E. and George R. Campbell, U. S. Deputy Surveyors in 1899."

From the standard cor. of Tps. 5 N., Rs. 38 and 39 E. North, retracing the line bet. secs. 31 and 36.

40.53 Fall 35 lks. W. of the old  $\frac{1}{4}$  sec. cor.

79.47 Fall 35 lks. W. of the cor. of secs. 25, 30, 31, and 36. North, retracing bet. secs. 25 and 30.

40.00 Find no evidence of the old  $\frac{1}{4}$  sec. cor. Set temp.

80.02 Intersect the cor. of secs. 19, 24, 25, and 30. North, retracing bet. secs. 19 and 24.



## Dependent Resurvey of the East Boundary of T. 5 N., R. 38 E.

Chains	
40.00	Find no evidence of the $\frac{1}{4}$ sec. cor. Set temp.
77.18	Fall 50 lks. E. of the cor. of secs. 13, 18, 19, and 24. North, retracing bet. secs. 13 and 18.
40.00	Find no evidence of the $\frac{1}{4}$ sec. cor. Set temp.
80.06	Fall 47 lks. W. of the cor. of secs. 7, 12, 13, and 18. North, retracing bet. secs. 7 and 12.
39.71	Fall 31 lks. E. of the $\frac{1}{4}$ sec. cor.
79.29	Fall 17 lks. E. of the cor. of secs. 1, 6, 7, and 12. North, retracing bet. secs. 1 and 6.
40.00	Find no evidence of the $\frac{1}{4}$ sec. cor. Set temp.
93.08	Fall 78 lks. E. of the closing cor. of Tps. 4 N., Rs. 38 and 39 E.

## True Line.

I commence the dependent resurvey of the east boundary of T. 5 N., R. 38 E., from the original standard cor. of Tps. 5 N., Rs. 38 and 39 E., heretofore described.

N.  $0^{\circ}30'$  E., on a true line on the E. bdy. of sec. 36.

Asc. 441 ft. over broken SE. slope, through heavy timber and dense undergrowth.

19.65 Ravine, course SE.; continue to asc. 509 ft. over S. slope.

28.65 Spur, slopes SE.; desc. 240 ft. over broken NE. slope.

39.50 Ravine, course E.; asc. 15 ft. over SE. slope.

40.53 The original  $\frac{1}{4}$  sec. cor. of secs. 31 and 36, which is a basalt stone 15x10x8 ins., firmly set, marked  $\frac{1}{4}$  on W. face. No trace of old bearing trees.

I now change this cor. to refer to sec. 36 only.

At point for cor.

Set an iron post,  $\frac{3}{8}$  ft. long, 1 in. diam., 27 ins. in the ground, for  $\frac{1}{4}$  sec. cor. of sec. 36 only, with brass cap marked

$\frac{1}{4}$  S 36

1932

from which

A fir, 12 ins. diam., bears S.  $50^{\circ}$  W., 238 lks. dist., marked  $\frac{1}{4}$  S 36 B T.

A fir, 5 ins. diam., bears N.  $20^{\circ}$  W., 72 lks. dist., marked  $\frac{1}{4}$  S 36 B T.

Thence

North, continuing measurements.

Continue to asc. 81 ft. over SE. slope.



Dependent Resurvey of East Boundary of T. 5 N., R. 38 E.

Chains  
 44.50 Small rounding spur, slopes E.; desc. 73 ft. over NE. slope.  
 63.10 Dry creek bed, 5 lks. wide, course SE.; asc. 683 ft. over SW. slope.  
 79.47 The old cor. established for secs. 25, 30, 31, and 36, determined by reference to the record bearings and distances from the old bearing trees.  
 I now change this cor. to refer to secs. 25 and 36 only.  
 At point for cor. . . .  
 Set an iron post, 3 ft. long, 2 ins. diam., 6 ins. in the ground to solid rock and in a mound of stone to top, for cor. of secs. 25 and 36 only, with brass cap marked

T5N	T5N
S25	R39E
S36	S31
R38E	

1932

from which

A pine, 38 ins. diam., bears N.32°E., 203 lks. dist., marked T5N R39E S30 B T. (Old B. T.)

A rotted fir stump, bears S.15½°E., 231 lks. dist., no marks. (Old B. T.)

A pine, 34 ins. diam., bears N.16°W., 202 lks. dist., marked T5N R38E S25 B T. (Old B. T.)

No new bearing tree available for sec. 36.

Obliterate the marks on the old bearing trees referring to T. 5 N., R. 39 E.

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

North, on true line on E. bdy. of sec. 25.

Asc. 185 ft. over SW. slope, through scattering timber and dense undergrowth.

5.20 Spur, slopes SE.; desc. 564 ft. over broken NE. slope.

40.01 Proportionate point.

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. of sec. 25 only, with brass cap marked

T ¼ S 25
----------

from which

A fir, 24 ins. diam., bears N.85°W., 65 lks. dist., marked ¼ S 25 B T.

A fir, 12 ins. diam., bears N.29°W., 172 lks. dist., marked ¼ S 25 B T.



Dependent Resurvey of East Boundary of T. 5 N., R. 38 E.

Chains

Continue to desc. 691 ft. over broken NE. slope.

61.00 Spring branch, 2 lks. wide, course NE.

64.00 Reser Creek, 6 lks. wide, course S.70°E.; asc. 478 ft. over broken SW. slope.

77.50 Small ravine, course S.20°W.; asc. 20 ft. over SE. slope.

80.02 The old cor. established for secs. 19, 24, 25, and 30, which is a basalt stone, 15x8x6 ins., firmly set, marked with 4 notches on N., and 2 notches on S. edge, and witnessed by a scattered mound of stone to the W.

I now change this cor. to refer to secs. 24 and 25 only.

At point for cor.

Set an iron post, 3 ft. long, 2 ins. diam., 5 ins. in the ground to solid rock and in a mound of stone to top, for cor. of secs. 24 and 25 only, with brass cap marked

T5N	T5N
S24	R39E
S25	S30
R38E	

1932

from which

A fir, 16 ins. diam., bears S.87°W., 165 lks. dist., marked T 5 N R 38 E S 25 B T.

A fir, 12 ins. diam., bears N.74°W., 187 lks. dist., marked T 5 N R 38 E S 24 B T.

Land, mountainous.

Soil, rocky loam; 3rd rate.

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

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

N.0°22'W., on a true line on E. bdy. of sec. 24.

Asc. 486 ft. over S. slope, through scattering timber and scattering undergrowth.

12.10 Spur, slopes SW.; desc. 76 ft. over NW. slope.

21.70 Small ravine, course W.; asc. 102 ft. over SW. slope.

32.00 Small spur, slopes W.; desc. 34 ft. over NW. slope.

38.25 Small ravine, course N.70°W.; asc. 10 ft. over SW. slope.

38.59 Proportionate point for the 1/4 sec. cor. of sec. 24 only.

Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for 1/4 sec. cor. of sec. 24 only, with brass cap marked

1/4 S 24

1935

from which

A fir, 36 ins. diam., bears S.59 1/2°W., 75 lks. dist., marked 1/4 S 24 B T.



Dependent Resurvey of East Boundary of T. 5 N., R. 38 E.

Chains

A fir, 38 ins. diam., bears N.82°W., 69 lks. dist., marked 1/4 S 24 B T.

Continue to asc. 20 ft. over SW. slope.

40.35 Spur, slopes W.; desc. 21 ft. over NW. slope.

42.10 Ravine, course S.70°W.; asc. 646 ft. over SW. slope.

58.80 Ridge spur, slopes S.50°E.; desc. 77 ft. over NE. slope.

60.10 Dim trail, bears NW. and SE.

71.10 Ravine, course E.; asc. 52 ft. over SE. slope.

74.10 Spur, slopes E.; desc. 102 ft. over NE. slope.

77.18 The original cor. established for secs. 13, 18, 19, and 24, which is a basalt stone, 24x16x12 ins., firmly set, marked with 3 notches on the N., and 3 notches on the S. edge.

I now change this cor. to refer to secs. 13 and 24 only.

At point for cor.

Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, for cor. of secs. 13 and 24 only, with brass cap marked

T5N	T5N
S13	R39E
S24	S19
R38E	

1935

from which

No trace of old NE. bearing tree.

A fir snag, 40 ins. diam., bears S.20°E., 36 lks. dist., marked T 5 N R 39 E S 19 B T. (Old B. T.)

A fir, 30 ins. diam., bears S.7°W., 81 lks. dist., (Not S.37°W., 70 lks. dist.) with old marks grown over. (Old B. T.)

A fir, 30 ins. diam., bears N.85°W., 42 lks. (not 46 lks.) dist., marked T 5 N R 38 E S 13 B T. (Old B. T.)

Obliterate the marks on old bearing tree referring to T. 5 N., R. 39 E.

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

N.0°20'E., on a true line on the E. bdy. of sec. 13.

Desc. 38 ft. over NE. slope, through scattering timber and scattering undergrowth.

1.35 Ravine, course E.; asc. 55 ft. over SE. slope.

4.15 Spur, slopes E.; desc. 53 ft. over NE. slope.

8.15 Ravine, course SE.; asc. 246 ft. over S. slope.



Dependent Resurvey of East Boundary of T. 5 N., R. 38 E.

Chains  
 14.00 Spur, slopes SE.; continue to asc. 246 ft. over SE. slope.  
 27.70 Spur, slopes E.; desc. 257 ft. over NE. slope.  
 40.03 Proportionate point for the  $\frac{1}{4}$  sec. cor. of sec. 13 only.  
 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  $\frac{1}{4}$  sec. cor. of sec. 13 only, with brass cap marked

$\frac{1}{4}$  S 13

1935

from which

A fir, 8 ins. diam., bears S. 11° W., 432 lks. dist., marked  $\frac{1}{4}$  S 13 B T.

A fir, 10 ins. diam., bears N. 56° W., 356 lks. dist., marked  $\frac{1}{4}$  S 13 B T.

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

41.55 Creek, 1 lk. wide, course E.; asc. 81 ft. over SE. slope.

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

48.15 Spring, on line, drains E.

55.75 Ravine, course SE.; asc. 173 ft. over SE. slope.

57.55 Spur, slopes SE.; desc. 106 ft. over NE. slope.

68.95 Ravine, course E.; asc. 121 ft. over SE. slope.

80.06 The original cor. established for secs. 7, 12, 13, and 18, which is a basalt stone, 15x10x8 ins., buried 8 ins. under ground, marked with 2 notches on N., and 4 notches on the S. edge, and witnessed by a scattered mound of stone partly buried.

I now change this cor. to refer to secs. 12 and 13 only.

At point for cor.

Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, for cor. of secs. 12 and 13 only, with brass cap marked

T5N	T5N
S12	R39E
S13	S18
R38E	

1935

from which

A fir, 7 ins. diam., bears S. 43° W., 80 lks. dist., marked T 5 N R 38 E S 13 B T.

A fir, 16 ins. diam., bears N. 25° W., 210 lks. dist., marked T 5 N R 38 E S 12 B T.

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



Dependent Resurvey of East Boundary of T. 5 N., R. 38 E.

Chains	
	N.0°27'W., on a true line on the E. bdy. of sec. 12.
	Asc. 130 ft. over SE. slope, through scattering timber and scattering undergrowth.
4.90	Yellow Jacket Ridge Road, bears NE. and SW.
13.20	Flat topped spur, slopes E.; desc. 255 ft. over NE. slope.
20.30	Yellow Jacket Ridge Road, bears NW. and SE.
33.00	Bottom of descent, bears NW. and SE.; thence over rolling land.
34.70	Yellow Jacket Ridge Road, bears NE. and SW., on top of Yellow Jacket Ridge, bears N.30°E., and S.30°W.
39.71	The original $\frac{1}{4}$ sec. cor. established for secs. 7 and 12, which is a basalt stone 18x10x8 ins., firmly set, marked $\frac{1}{4}$ on W. face.
	I now change this cor. to refer to sec. 12 only.
	At point for cor.
	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for $\frac{1}{4}$ sec. cor. of sec. 12 only, with brass cap marked
	$\frac{1}{4}$ S 12 1935 from which
	A spruce, 24 ins. diam., bears S.57°E., 25 lks. dist., marked $\frac{1}{4}$ S 7 B.T. (Old B. T.)
	A spruce, 36 ins. diam., bears S.70°W., 47 lks. dist., marked $\frac{1}{4}$ S 12 B.T. (Old B. T.)
	A spruce, 16 ins. diam., bears N.21°W., 59 lks. dist., marked $\frac{1}{4}$ S 12 B.T. (New B. T.)
	Obliterate the marks on the old SE. bearing tree.
	Thence
	N.0°12'E., continuing measurements.
	Desc. 61 ft. over NW. slope.
44.40	Head of ravine, course W.; asc. 33 ft. over SW. slope.
51.10	Spur, slopes W.; desc. 238 ft. over NW. slope.
57.15	Ravine, course NW.; asc. 28 ft. over SW. slope.
59.05	Spur, slopes W.; desc. 123 ft. over NW. slope.
66.80	Creek, 1 lk. wide, course SW.; asc. 269 ft. over SW. slope.
75.20	Spur, slopes NW.; desc. 30 ft. over NW. slope.
77.40	Ravine, course NW.; asc. 2 ft. over SW. slope.
79.29	The original cor. established for secs. 1, 6, 7, and 12, which is an iron stone, 20x14x6 ins., firmly set, marked with 1 notch on N., and 5 notches on S. edge.



Dependent Resurvey of East Boundary of T. 5 N., R. 38 E.

Chains									
	I now change this cor. to refer to secs. 1 and 12 only.								
	At point for cor. Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, for cor. of secs. 1 and 12 only, with brass cap marked								
	<table border="0"> <tr> <td>T5N</td> <td>T5N</td> </tr> <tr> <td>S 1</td> <td>R39E</td> </tr> <tr> <td>S 12</td> <td>S 7</td> </tr> <tr> <td>R38E</td> <td></td> </tr> </table>	T5N	T5N	S 1	R39E	S 12	S 7	R38E	
T5N	T5N								
S 1	R39E								
S 12	S 7								
R38E									
	1935 from which								
	A fir, 36 ins. diam., bears N. 25° E., 129 lks. dist., marked T 5 N R 39 E S 6 B T. (Old B. T.)								
	A fir snag, 34 ins. diam., bears S. 26° E., 95 lks. dist., marked T 5 N R 39 E S 7 B T. (Old B. T.)								
	A dead fir, 24 ins. diam., bears S. 88° W., 58 lks. dist., marked T 5 N R 38 E S 12 B T. (Old B. T.)								
	A fir, 54 ins. diam., bears N. 5° W., 90 lks. dist., marked T 5 N R 38 E S 1 B T. (Old B. T.)								
	Obliterate the marks on old bearing trees referring to T. 5 N., R. 39 E.								
	A spruce, 48 ins. diam., bears S. 81½° W., 87 lks. dist., marked T 5 N R 38 E S 12 B T. (New B. T.)								
	Land, mountainous. Soil, sandy loam, rocky; 3rd rate. Timber, fir, pine, spruce and tamarack. Undergrowth, alder, vinemaple, laurel, huckleberry, willow, syringa, mountain ash, fern and Oregon grape.								
	N. 0° 29' W., on a true line on the E. bdy. of sec. 1. Asc: 84 ft. over SW. slope, through heavy timber and dense undergrowth.								
4.60	Rocky spur, slopes W.; desc. 75 ft. over NW. slope.								
8.70	Spring branch, 1 lk. wide, course W.; asc. 199 ft. over SW. slope.								
20.00	Spur, slopes W.; desc. 491 ft. over NW. slope.								
39.83	Proportionate point for the ¼ sec. cor. of sec. 1 only. Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for ¼ sec. cor. of sec. 1 only, with brass cap marked								
	<table border="0"> <tr> <td>¼ S 1</td> </tr> </table>	¼ S 1							
¼ S 1									
	1935 from which								
	A fir, 26 ins. diam., bears S. 49° W., 96 lks. dist., marked ¼ S 1 B T.								
	A fir, 14 ins. diam., bears N. 51° W., 66 lks. dist., marked ¼ S 1 B T.								



Dependent Resurvey of East Boundary of T. 5 N., R. 38 E.

Chains

- Continue to desc. 170 ft. over NW. slope.
- 43.40 Creek, 3 lks. wide, course N.70°W.; asc. 42 ft. over SW. slope.
- 46.60 Spur, slopes W.; desc. 130 ft. over NW. slope.
- 56.60 Ravine, course S.20°W.; asc. 586 ft. over SE. slope.
- 70.50 Road, from Walla Walla to Skyline, bears NE. and SW.
- 85.84 Trail, bears E. and W.
- 87.50 Spur, slopes E.; desc. 18 ft. over NE. slope.
- 93.08 The closing cor. of Tps. 5 N., Rs. 38 and 39 E., on the S. bdy. of sec. 36; T. 6 N., R. 38 E., which is post, 4 ins. sq., 30 ins. above ground, marked

T 5 N. C C on S.,  
R 39 E S 6 on E., and  
R 38 E S 1 on W.

At point for cor.

Set an iron post, 3 ft. long, 3 ins. diam., 27 ins. in the ground, for closing cor. of Tps. 5 N., Rs. 38 and 39 E., with brass cap marked

T 6 N R 38 E  
S 36  
S 1 | S 6  
R 38 E | R 39 E  
T 5 N  
C C  
1932

from which

A dead spruce, 8 ins. diam., bears S.68°E., 6 lks. dist., marks grown over. (Old B. T.)

A dead spruce, 6 ins. diam., bears S.65°W., 6 lks. dist., marked T 5 N R 38 E S 1 B T. (Old B. T.)

No trace of old NW. bearing tree.

A fir, 10 ins. diam., bears S.5°E., 45 lks. dist., marked T 5 N R 39 E S 6 C C B T.

A fir, 7 ins. diam., bears S.9°W., 40 lks. dist., marked T 5 N R 38 E S 1 C C B T.

From this point the cor. of secs. 35 and 36, T. 6 N., R. 38 E., bears S.89°04'W., 18.12 chs. dist., herein-after described.

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

Dependent Resurvey of the S. Bdy. of sec. 36, T. 6 N., R. 38 E.

"Reestablishment of the surveys executed George Williams, U. S. Deputy Surveyor in 1872, and retraced by William E. and George R. Campbell, U. S. Deputy Surveyors in 1899."



## Township 5 North, Range 39 East.

## GENERAL DESCRIPTION.

Township 5 north, range 39 east is located in the Umatilla National Forest Reserve, on the summit of the Blue Mountains in the northeastern part of Oregon. The elevation of the highest ridges of the township and along the Skyline Road is about 6,000 ft. above sea level. The South Fork of the Walla Walla River, has an elevation of about 3,000 ft. above sea level, where it leaves the township on the south boundary of sec. 31. The South Fork of the Wenaha River, has an elevation of about 3,500 ft. above sea level, where it leaves the township on the east boundary of sec. 13. The slopes along these two rivers are exceptionally rough and broken, but on some of the higher points on the township the land is only rolling. The soil is of a clayish sandy loam composition and on the steeper slopes is very rocky. This soil produces an abundance of grass even on the steep slopes, that are not covered with a dense growth of brush. Most of the timber is second growth with the exception of a few patches of old growth timber that the fires of many years ago did not burn over. Some scattering old growth timber was left standing throughout the township, making it impossible to distinguish the exact line of demarcation between the second growth and old growth timber. This timber consists of fir, pine, spruce, tamarack and yew. The undergrowth consists of huckleberry, alder, laurel, willow, mountain ash, thorn, Oregon grape, syringa, rose, fern, buck brush, vinemaple and salal.

The east half of the township drains into the South Fork of the Wenaha River and the west half drains into the South Fork of the Walla Walla River. Neither of these streams are large enough to be meandered. The township is well watered and although there are no lakes many different small springs are found throughout the township.

Bone Springs Lookout Station is located near the south central part of section 28. The buildings of this lookout station are on the highest point of this township. Skyline Road extends through the central part of the township in a north and south direction. Lookout Mountain Road extends from this road in a easterly direction through the southeastern part of the township. This road connects with the Troy Road about 7 miles east of the township. A road loops through section 6. This road leads to Walla Walla, Washington, about 35 miles distant in a northwesterly direction, and also joins the Skyline Road in township 6 north, range 39 east. There is also a road extending south from this road along the top of Yellow Jacket Ridge, for a distance of about 3 miles. There are several good pack trail extending to all parts of the township.

Part of the bottom land of the South Fork of the Walla Walla River is reserved for a cattle range but the remainder furnishes range for about 6,000 head of sheep during the summer months.

No settlers are located in this township.

No mineral was noted in this township.

The average of a number of readings over all parts of the township gives a value of  $21^{\circ}30'E$ . for the mean magnetic declination. There is a range of  $5^{\circ}$  in local attraction.







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 dependent resurvey of 1st stan. par. N., S. bdy. T. 5 N., R. 39 E.; dependent resurvey of the east boundary of T. 5 N., R. 38 E.; dependent resurvey of south bdy. of sec. 36, T. 6 N., R. 38 E., and subdivision of township 5 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, Oregon.  
Feb. 4, 1936.

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

APPROVAL.

OFFICE OF U. S. SUPERVISOR OF SURVEYS,

DENVER, COLORADO MAR 30 1936, 19

The foregoing field notes of the Dependent Resurvey of First Standard Parallel North, S. Bdy. T. 5 N., R. 39 E.; Dependent Resurvey of the E. Bdy. of T. 5 N., R. 38 E.; Dependent Resurvey of S. bdy. of sec. 36, T. 6 N., R. 38 E., and the Survey of the Subdivisions of Township No. 5 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 A. Johnson  
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.~~