

A  
UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GENERAL LAND OFFICE



349

FIELD NOTES  
of the

Dependent Resurvey of Part of South Boundary

Dependent Resurvey of Part of West Boundary

Dependent Resurvey of Part of Subdivisions of

Township 4 North, Range 38 East

and

Retracement of 3 Subdivision  $\frac{1}{2}$  Miles in

Township 3 North, Range 38 East.

Of the Willamette Meridian,

In the State of Oregon.

EXECUTED BY

Otis O. Gould, Surveyor.

Under special instructions dated July 11, 1939, which provided

for the surveys included under Group No. 234, bearing the approval of the

Commissioner of the General Land Office under date of July 27, 1939.

and assignment instructions dated July 26, 1939.

Survey commenced August 5, 1939.

Survey completed August 22, 1939.



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

FIELD NOTES

of the

Department Survey of Part of South Boundary

Department Survey of Part of West Boundary

INDEX DIAGRAM.

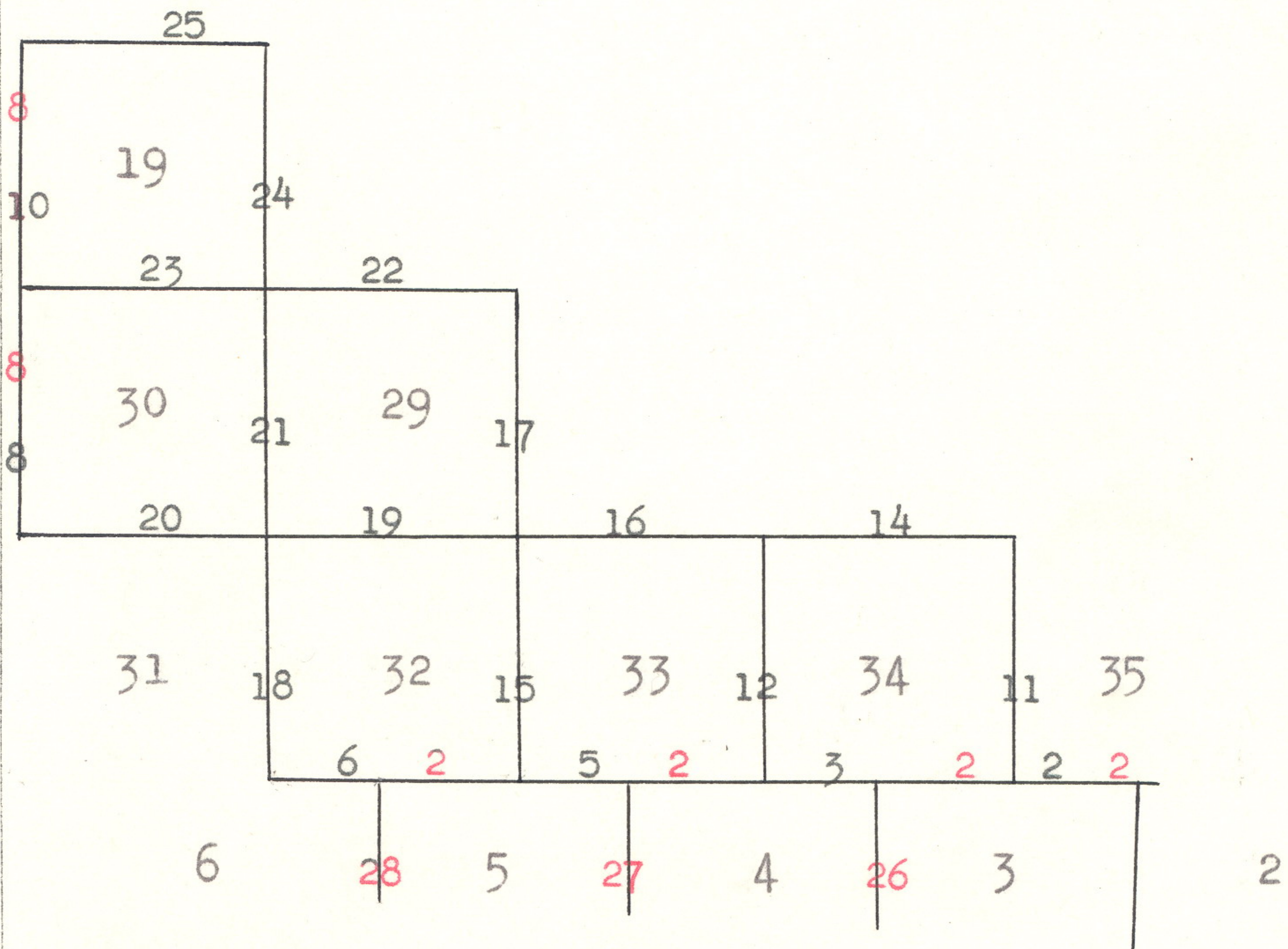
Township \_\_\_\_\_, Range \_\_\_\_\_

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36



INDEX DIAGRAM.

Township 4 North, Range 38 East.



Retracements indexed in Red.

Dependent Resurveys indexed in Black.



## Township 4 North, Range 38 East.

## Chains

These surveys were executed with a solar compass made by W. and L. E. Gurley, Serial No. "Memo "B", constructed in accordance with the standard specifications of the General Land Office. The horizontal circle has a diameter of  $5\frac{1}{2}$  ins. with double opposite verniers reading to single minutes; the sight vanes are 8 ins. long and are spaced 14 ins. apart. The instrument is equipped with a Burt solar attachment, radius of latitude arc  $5\frac{1}{2}$  ins. and 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 July 26, 1939. 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 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 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 cor. of secs. 34 and 35 only, on S. bdy. of the Tp. as follows; latitude  $45^{\circ} 46\frac{1}{2}' N.$ , and longitude  $118^{\circ} 02\frac{1}{2}' W.$

Aug. 3, 1939, in camp located near the  $\frac{1}{4}$  sec. cor. of secs. 32 and 33, T. 4 N., R. 38 E., at 10h 59m 35s p.m. 1. m.t., or 10h 51m 55s p.m. by my watch, which reads correct 120th 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. After sunrise, I lay off the azimuth of Polaris  $1^{\circ} 29' 29''$  and make a meridian mark on a peg 25.73 lks. (16.98 ft.) to the west of the mean point in the line determined by the observations; I verify the angle by a vernier reading of the instrument.

Aug. 4, 1939, 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 -----	61° 33' 30"
Reduced latitude -----	45° 47' 00"
Mean watch time of observation -----	11h 58m 20s
Watch slow of l.m.t. -----	7m 40s
Same, by reference to radio time signals and calculated difference in longitude -----	7m 40s
Every 30 min. from 7 to 10.30 a.m. and from 1.30 to 5	



Township 4 North, Range 38 East.

Chains

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° E.

Dependent Resurvey of Part of S. Bdy. of T. 4 N., R. 38 E.

"Reestablishment of the surveys executed by George S. Pershin, Deputy Surveyor, in 1879 and partially retraced and resurveyed by John W. Kimbrell, Deputy Surveyor, in 1903."

Retracement.

- From the  $\frac{1}{4}$  sec. cor. of sec. 35 only, on S. bdy. of Tp. West, along the S. bdy. of sec. 35.
- 2.65 Fall 3 lks. S. of the closing cor. of secs. 2 and 3.
- 40.00 Find no evidence of the cor. of secs. 34 and 35 only. Set temp. cor.
- From the temp. cor. of secs. 34 and 35 only.
- West, along the S. bdy. of sec. 34.
- 38.84 Fall 90 lks. S. of the  $\frac{1}{4}$  sec. cor. of sec. 34 only.
- 42.29 Fall 77 lks. S. of the closing cor. of secs. 3 and 4.
- 78.99 Fall 32 lks. S. of the cor. of secs. 33 and 34 only.
- From the cor. of secs. 33 and 34 only.
- West, along the S. bdy. of sec. 33.
- 40.27 Fall 9 lks. N. of the  $\frac{1}{4}$  sec. cor. of sec. 33 only.
- 43.12 Fall 17 lks. N. of the closing cor. of secs. 4 and 5.
- 80.80 Fall 15 lks. N. of the cor. of secs. 32 and 33 only.
- From the cor. of secs. 32 and 33 only.
- West, along the S. bdy. of sec. 32.
- 40.44 Fall 5 lks. S. of the  $\frac{1}{4}$  sec. cor. of sec. 32 only.
- 42.40 Intersect the closing cor. of secs. 5 and 6.
- 80.78 Fall 28 lks. S. of the cor. of secs. 31 and 32 only.

True Line.

I commence the dependent resurvey at the  $\frac{1}{4}$  sec. cor. of sec. 35 only, on the S. bdy. of the Tp., which is a fir, 16 ins. diam., with old blazes grown over. I uncover and obliterate S 2 from the S. side of this tree.

from which

- A fir, 16 ins. diam., bears North, 70 lks. dist., marks grown over. (Old B. T.)
- A pine, 12 ins. diam., bears S. 12° W., 35 lks. dist., marked  $\frac{1}{4}$  S B T. Obliterate marks. (Old B. T.)
- A fir, 18 ins. diam., bears N. 30° W., 69 lks. dist., marked  $\frac{1}{4}$  S 35 B T. (New B. T.)

The geographic position of this corner is latitude 45° 46 $\frac{1}{2}$ ' N., and longitude 118° 02' W.

Thence

N. 89° 21' W., on true line along the S. bdy. of sec. 35.

Desc. 140 ft. over SW. slope, through heavy timber and dense undergrowth.



Dependent Resurvey of Part of W. Bdy. of T. 4 N., R. 38 E.

Chains

Thence N.0°09'E., continuing measurements.

Along W. slope.

40.30 Spur, slopes N.70°W.; desc. 290 ft. over N. slope.

49.40 Creek, 1 lk. wide, course N.70°W.; asc. 103 ft. over SW. slope.

56.30 Spur, slopes W.; desc. 339 ft. over NW. slope.

66.20 Creek, 3 lks. wide, course W.; asc. 528 ft. over SW. slope.

79.31 The cor. of secs. 13, 18, 19, and 24, which is a basalt stone, 14x12x6 ins., firmly set, marked with 3 grooves on N. and S. faces.

At point for cor.

Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, with the original stone deposited at the base, for cor. of secs. 13, 18, 19, and 24, with brass cap marked

T4N.  
R37E | R38E  
S13 | S18  
S24 | S19  
1939

raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor. No bearing trees available.

Land, mountainous.

Soil, rocky loam; 3rd rate.

Timber, fir, pine, spruce, and tamarack.

Undergrowth, alder, willow, huckleberry, and vinemaple.

Dependent Resurvey of Part of Subdivision of T. 4 N., R. 38 E.

"Reestablishment of the surveys of secs. 29, 30, 32, 33, and 34, executed by Frank W. Campbell, Deputy Surveyor, in 1883 and sec. 19 executed by Robert F. Omeg, Deputy Surveyor in 1905."

I commence the dependent resurvey of the subdivisions at the cor. of secs. 34 and 35, on the S. bdy. of the Tp., heretofore described.

Thence N.0°13'E., on true line bet. secs. 34 and 35.

Asc. 414 ft. over SW. slope, through scattering timber and undergrowth.

18.00 Spur, slopes SE.; desc. 20 ft. over rolling NE. slope.

29.75 Dim dirt road, bears NW. and SE.

40.17 The 1/4 sec. cor., which is a basalt stone, 12x10x6 ins., firmly set, marked 1/4 on W. face.

At point for cor.



Dependent Resurvey of Part of Subdivisions of

T. 4 N., R. 38 E. 38 E. T. 4 N., R. 38 E.

Chains

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

1/4

A fir, 32 ins. diam., bears S.65°E., 12 lks. dist., marks grown over. (Old B. T.)

A fir, 30 ins. diam., bears S.87 1/2°W., 85 lks. dist., marks grown over. (Old B. T.)

Thence

N.0°09'E., continuing measurements.

Desc. 43 ft. over NE. slope.

48.85 Draw, course E.; asc. 51 ft. over SE. slope.

61.20 Spur, slopes E.; desc. 23 ft. over NE. slope.

68.55 Draw, course E.; asc. 65 ft. over gradual SE. slope.

77.45 Dim dirt road, bears NE. and SW.

80.47 The cor. of secs. 26, 27, 34, and 35, which is a basalt stone, 12x12x10 ins., firmly set in a mound of stone, marked with 2 notches on E. and 1 notch on S. edge.

At point for cor.

Set an iron post, 3 ft. long, 2 ins. diam., 12 ins. in the ground to bedrock, with the original stone deposited at the base, and in a mound of stone to top, for cor. of secs. 26, 27, 34, and 35, with brass cap marked

T4NR38E  
S27|S26  
S34|S35  
1939

A pine, 24 ins. diam., bears N.18°E., 84 lks. dist., marked T 4 N R 38 E S 26 B T. (Old B. T.)

A fir, 24 ins. diam., bears S.11°E., 564 lks. dist., marked T 4 N R 38 E S 35 B T. (New B. T.)

A fir, 16 ins. diam., bears S.54°W., 204 lks. dist., marked T 4 N R 38 E S 34 B T. (New B. T.)

A fir, 12 ins. diam., bears N.47 1/4°W., 122 lks. dist., marked T 4 N R 38 E S 27 B T. (New B. T.)

Land, rolling and mountainous.

Soil, sandy loam; 2nd and 3rd rate.

Timber, fir, pine, spruce, and tamarack.

Undergrowth, alder, willow, huckleberry, and buckbrush.

From the cor. of secs. 33 and 34, on the S. bdy. of the Tp., heretofore described.

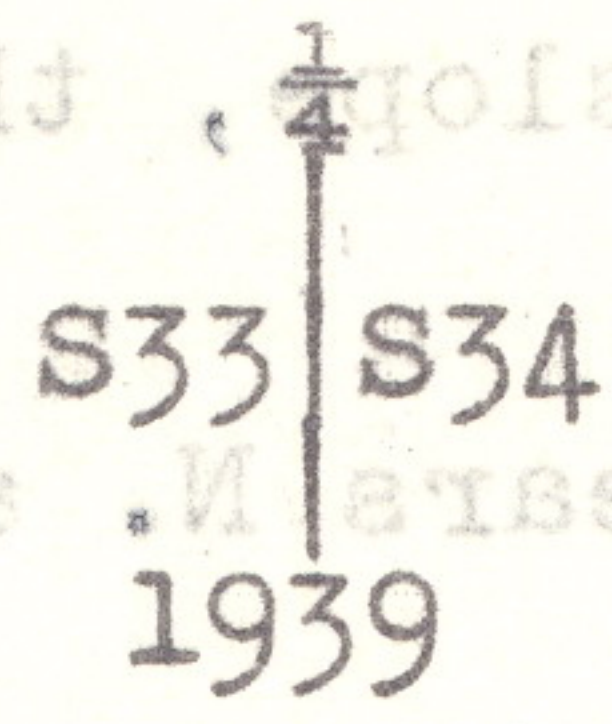


Dependent Resurvey of Part of Subdivisions of  
T. 4 N., R. 38 E.

Chains

N.0°22'W., bet. secs. 33 and 34.  
 Desc. 122 ft. over NE. slope, through heavy timber and  
 dense undergrowth.  
 4.75 Lookingglass Creek, 7 lks. wide, course S.80°E.; asc. 399  
 ft. over S. slope, changing to SW. slope.  
 29.50 Spur, slopes W.; desc. 68 ft. over NW. slope.

40.25 Proportionate measurement.  
 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



A fir, 20 ins. diam., bears N.68°E., 31 lks. dist.,  
 marked  $\frac{1}{4}$  S 34 B T.  
 A fir, 18 ins. diam., bears N.71 $\frac{1}{2}$ °W., 31 lks. dist.,  
 marked  $\frac{1}{4}$  S 33 B T.  
 Desc. 127 ft. over NW. slope, changing to N. slope.

54.75 Enter swamp, bears E. and W.  
 60.00 Leave swamp, bears E. and W.; asc. 27 ft. over S. slope.

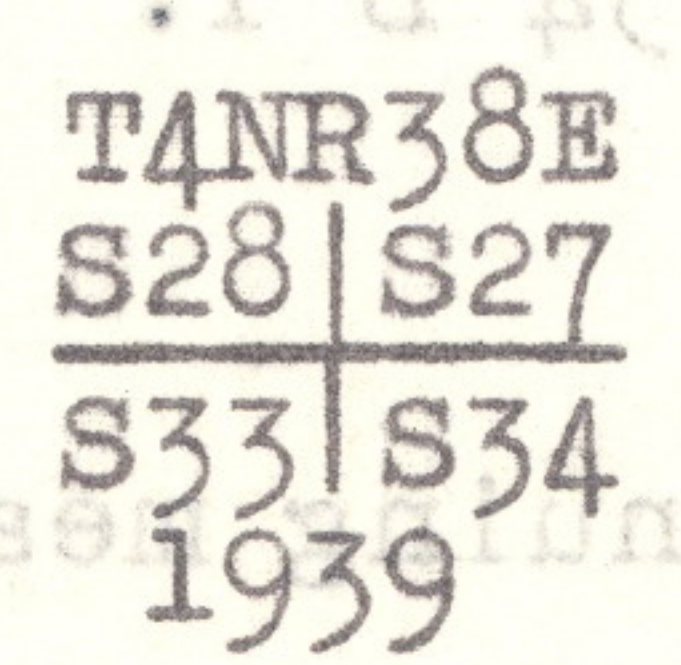
63.30 Skyline road, bears E. and W.

67.25 Top of ascent, bears NW. and SE.; desc. 41 ft. over NE.  
 slope.

80.50 The cor. of secs. 27, 28, 33, and 34, which is a basalt  
 stone, 20x15x4 ins., firmly set, marked with 3 notches  
 on E. and 1 notch on S. edge.

At point for cor.

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



from which  
 A dead and fallen spruce, 14 ins. diam., bears S.74°W.  
 28 lks. dist., bearing traces of incomplete scribe  
 marks. (Old B. T.)

A pine, 8 ins. diam., bears N.42 $\frac{1}{4}$ °E., 40 lks. dist.,  
 marked T 4 N R 38 E S 27 B T. (New B. T.)

A pine, 8 ins. diam., bears S.28 $\frac{1}{2}$ °E., 38 lks. dist.,  
 marked T 4 N R 38 E S 34 B T. (New B. T.)

A pine, 12 ins. diam., bears S.55 $\frac{1}{2}$ °W., 46 lks. dist.,  
 marked T 4 N R 38 E S 33 B T. (New B. T.)



Dependent Resurvey of Part of Subdivisions of T. 4 N., R. 38 E.

Chains

A pine, 9 ins. diam., bears N. 35 1/2° W., 59 lks. dist., marked T 4 N R 38 E S 28 B T. (New B. T.) Land, rolling and mountainous. Soil, sandy and rocky loam; 2nd and 3rd rate. Timber, fir, pine, spruce, and tamarack. Undergrowth, alder, willow, vinemaple, huckleberry, and Oregon grape.

From the cor. of secs. 26, 27, 34, and 35, heretofore described.

N. 89° 53' W., bet. secs. 27 and 34.

Asc. 10 ft. over E. slope, through scattering timber and undergrowth.

2.60 Flat topped ridge, bears N. and S.; desc. 478 ft. over W. slope.

8.45 Skyline road, bears N. and S.

15.00 Enter heavy timber and dense undergrowth, bears N. and S.

38.25 Dim dirt road, bears N. and S.

40.09 The 1/4 sec. cor., which is a post, 3 ins. square, 36 ins. long, firmly set, marked 1/4 on N. side.

At point for cor.

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

S 27 / S 34

1939

A fir snag, 12 ins. diam., bears N. 33° W., 30 lks. dist., marked 1/4 S B T. (Old B. T.)

A fir, 24 ins. diam., bears N. 66° W., 54 lks. dist., marked 1/4 S 27 B T. (New B. T.)

A spruce, 20 ins. diam., bears S. 21° E., 72 lks. dist., marked 1/4 S 34 B T. (New B. T.)

Thence

S. 89° 58' W., continuing measurements.

Over rolling land.

41.20 Enter, meadow, bears N. and S.; leave heavy timber and dense undergrowth, bears N. and S.

45.20 Leave meadow, bears N. and S., reenter heavy timber and dense undergrowth, bears N. and S.; asc. 112 ft. over NE. slope.

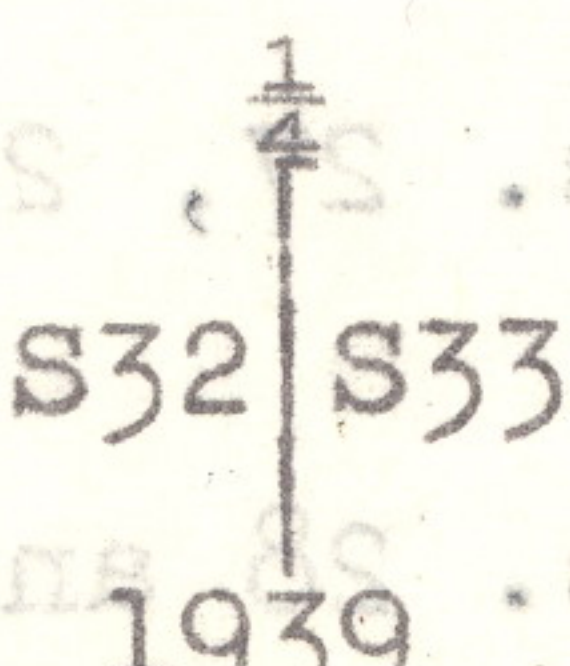
62.90 Spur, slopes N.; desc. 113 ft. over NW. slope.

79.90 Draw, course NW.; asc. 5 ft. over NE. slope.

80.31 The cor. of secs. 27, 28, 33, and 34, heretofore described.



Dependent Resurvey of Part of Subdivisions of  
T. 4 N., R. 38 E.

Chains	<p>Land, mountainous. Soil, sandy loam; 2nd and 3rd rate. Timber, fir, pine, spruce, and tamarack. Undergrowth, alder, willow, vinemaple, and huckleberry.</p>
	<p>From the cor. of secs. 32 and 33, on the S. bdy. of the Tp., heretofore described:</p>
	<p>N. 0° 52' W., bet. secs. 32 and 33; Asc. 32 ft. over SW. slope, through heavy timber and dense undergrowth.</p>
12.65	<p>Round topped spur, slopes W.; desc. 126 ft. over NW. slope, changing to NE. slope.</p>
12.70	<p>Old dirt road, bears NW. and SE.</p>
19.34	<p>Same dirt road, bears NE. and SW.</p>
29.00	<p>Same dirt road, bears NW. and SE.</p>
31.50	<p>Highway, (Elgin to Tollgate), bears N. 60° W. and S. 60° E.</p>
32.85	<p>Lookingglass Creek, 2 lks. wide, course E.; asc. 40 ft. over SE. slope.</p>
38.00	<p>Skyline road, bears E. and W.</p>
40:01	<p>The <math>\frac{1}{4}</math> sec. cor., which has been perpetuated with a stone 9x8x6 ins., firmly set, with no visible marks.</p>
	<p>At point for cor. . . . . Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, with the perpetuated stone deposited at the base, for <math>\frac{1}{4}</math> sec. cor., with brass cap marked</p>
	<p style="text-align: center;">  </p>
	<p>from which</p>
	<p>A dead pine, 24 ins. diam., bears N. 82° E., 93 lks. dist., marked <math>\frac{1}{4}</math> S B T. (Old B. T.)</p>
	<p>A pine, 24 ins. diam., bears S. 68° W., 59 lks. dist., marks grown over. (Old B. T.)</p>
	<p>Store room for Forest Service, bears S. 52° E., about 600 lks. dist.</p>
	<p>Office of Forest Service, bears S. 35° E., about 500 lks. dist.</p>
	<p>New Forest Service house, bears S. 23<math>\frac{1}{2}</math>° E., about 800 lks. dist.</p>
	<p>Old Forest Service house, bears S. 6° E., about 800 lks. dist.</p>
	<p>Thence</p>
	<p>N. 0° 08' E., continuing measurements.</p>
	<p>Asc. 106 ft. over gradual SE. slope.</p>



Dependent Resurvey of Part of Subdivisions of  
T. 4 N., R. 38 E.

Chains	
43.66	Civilian Conservation Corps building, bears S.60 $\frac{1}{2}$ °E., about 3.00 chs. dist.
48.50	Target Meadow Road, bears NE. and SW.
64.00	Top of ascent, bears E. and W.; desc. 13 ft. over N. slope.
80.07	Proportionate measurement: 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
	T4NR38E S29 S28 S32 S33 1939
	from which
	A fir, 10 ins. diam., bears N.44°E., 10 lks. dist., marked T 4 N R 38 E S 28 B T.
	A fir, 10 ins. diam., bears S.61°E., 10 lks. dist., marked T 4 N R 38 E S 33 B T.
	A fir, 11 in. diam., bears S.70°W., 38 lks. dist., marked T 4 N R 38 E S 32 B T.
	A fir, 13 ins. diam., bears N.78°W., 8 lks. dist., marked T 4 N R 38 E S 29 B T.
	Land, rolling and mountainous. Soil, sandy loam; 2nd rate. Timber; fir, pine, spruce, and tamarack. Undergrowth, alder, willow, huckleberry, buckbrush and vinemapple.
	From the cor. of secs. 27, 28, 33, and 34, heretofore described. S.89°44'W., bet. secs. 28 and 33. Asc. 47 ft. over gradual NE. slope, through heavy timber and dense undergrowth.
32.00	Round topped spur, slopes N.; desc. 10 ft. over gradual NW. slope.
36.00	Creek, 2 lks. wide, course N.; asc. 25 ft. over gradual NE. slope.
40.53	The $\frac{1}{4}$ sec. cor., determined by reference to the record bearings and distances to the original bearing trees. 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., with brass cap marked
	$\frac{1}{4}$ S 28 S 33 1939
	from which
	A dead tamarack, 32 ins. diam., bears N.26°W., 50 lks. dist., marked $\frac{1}{4}$ S B T. (Old B. T.)



Dependent Resurvey of Part of Subdivisions of T. 4 N., R. 38 E.

Chains

A dead tamarack, 38 ins. diam., bears S.22°E., 52 lks. dist., marked 1/4 S B T. (Old B. T.)

A pine, 12 ins. diam., bears N.76°W., 16 lks. dist., marked 1/4 S 28 B T. (New B. T.)

A spruce, 10 ins. diam., bears S.13 1/2°E., 25 lks, dist., marked 1/4 S 33 B T. (New B. T.)

Thence

S.89°45'W., continuing measurements.

Asc. 154 ft. over gradual NE. slope.

64.00 Target Meadow Road, bears N.10°E. and S.10°W.

74.00 Top of ascent, bears N. and S.; along gradual N. slope.

80.93 The cor. of secs. 28, 29, 32 and 33, heretofore described.

Land, rolling and mountainous. Soil, sandy loam; 2nd rate. Timber, fir, pine, spruce, and tamarack. Undergrowth, alder, willow, vinemaple, huckleberry, and fern.

N.0°41'W., bet. secs. 28 and 29.

Desc. 122 ft. over gradual N. slope, through heavy timber and dense undergrowth.

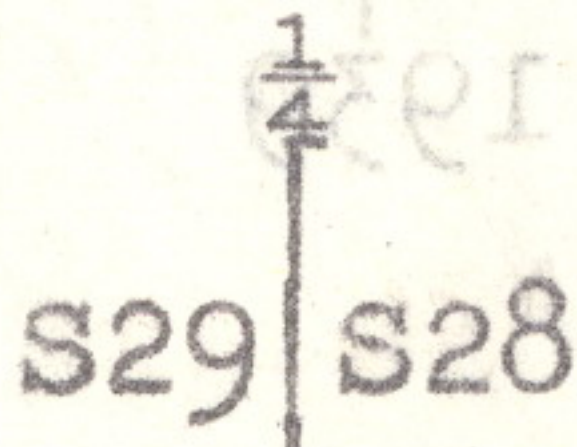
21.80 Creek, 5 lks. wide, course N.60°E.; asc. 37 ft. over broken S. slope.

26.20 Spring branch, 1 lk. wide, course S.80°E.

38.00 Top of ascent, bears E. and W.; over rolling land.

40.06 Proportionate measurement.

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 black pine, 10 ins. diam., bears S.63°E., 11 lks. dist., marked 1/4 S 28 B T.

A tamarack, 12 ins. diam., bears N.35°W., 9 lks. dist., marked 1/4 S 29 B T.

Desc. 130 ft. over gradual, broken N. slope, changing to NE. slope.

80.12 The cor. of secs. 20, 21, 28, and 29, which is the rotten remains of old pine stump even with the ground.

At point for cor. 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



Dependent Resurvey of Part of Subdivisions of  
T. 4 N., R. 38 E.

Chains	
	<p style="text-align: center;">T4NR38E S20 S21 S29 S28 1939</p> <p style="text-align: right;">from which</p> <p>A pine, 10 ins. diam., bears N.71°E., 18 lks. dist., marked T 4 N R 38 E S 21 B T. (Old B. T.)</p> <p>A pine, 10 ins. diam., bears S.41°E., 10 lks. dist., marked T 4 N R 38 E S 28 B T. (Old B. T.)</p> <p>A pine, 12 ins. diam., bears S.36°W., 8 lks. dist., marked T 4 N R 38 E S 29 B T. (Old B. T.)</p> <p>A pine, 10 ins. diam., bears N.25°W., 8 lks. dist., marks grown over. (Old B. T.)</p>
	<p>Land, rolling. Soil, sandy loam; 2nd rate. Timber, fir, pine, spruce, and tamarack. Undergrowth, alder, huckleberry, vinemaple, willow, and Oregon grape.</p>
	<p>From the cor. of secs. 31 and 32 on the S. bdy. of the Tp., heretofore described.</p> <p>N.0°13'W., bet. secs. 31 and 32.</p> <p>Over rolling land, through heavy timber and dense undergrowth.</p>
13.65	Dirt road, bears NW. and SE.
40.06	Proportionate measurement.
	<p>Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for 1/4 sec. cor., with brass cap marked</p> <p style="text-align: center;">1/4 ↑ S31 S32 1939</p> <p style="text-align: right;">from which</p> <p>A fir, 11 ins. diam., bears S.63°E., 6 lks. dist., marked 1/4 S 32 B T.</p> <p>A fir, 12 ins. diam., bears N.71°W., 8 lks. dist., marked 1/4 S 31 B T.</p>
69.95	Desc. 96 ft. over very gradual N. slope. Highway, (Weston to Tollgate), bears E. and W.
71.00	McIntyre Lookout Road, bears NW. and SE.
73.35	Fence, bears E. and W.
78.40	Small draw, course NE.; over rolling land.
80.12	The cor. of secs. 29, 30, 31, and 32, determined by reference to the record bearings and distances to the original bearing trees. At point for cor.



Dependent Resurvey of Part of Subdivisions of  
T. 4 N., R. 38 E.

Chains	
	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
	<p style="text-align: center;">T4NR38E S30 S29 S31 S32 1939</p>
	from which
	A dead fir, 24 ins. diam., bears N.60°E., 24 lks. dist., marks grown over. (Old B. T.)
	A dead fir, 20 ins. diam., bears S.78°E., 29 lks. dist., marks grown over. (Old B. T.)
	A fir, 14 ins. diam., bears S.71°W., 28 lks. dist., marks grown over. (Old B. T.)
	A fir, 30 ins. diam., bears N.42°W., 17 lks. dist., marks grown over. (Old B. T.)
	A fir, 14 ins. diam., bears N.82°E., 43 lks. dist., marked T 4 N R 38 E S 29 B T. (New B. T.)
	A spruce, 20 ins. diam., bears S.68°E., 48 lks. dist., marked T 4 N R 38 E S 32 B T. (New B. T.)
	<p>Land, rolling. Soil, sandy loam; 2nd rate. Timber, fir, pine, spruce, and tamarack. Undergrowth, alder, huckleberry, willow, vinemapple, and Oregon grape.</p>
	From the cor. of secs. 28, 29, 32, and 33, heretofore described.
	N.89°51'W., bet. secs. 29 and 32.
	Along gradual N. slope, through heavy timber and dense undergrowth.
	8.00 Desc. 57 ft. over gradual NW. slope.
	23.90 Spring branch, 1lk. wide, course N.; asc. 69 ft. over gradual NE. slope.
	40.31 Proportionate measurement.
	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for 1/4 sec. cor., with brass cap marked
	<p style="text-align: center;">S 29 1/4 S 32 1939</p>
	from which
	A pine, 9 ins. diam., bears N.15°E., 13 lks. dist., marked 1/4 S 29 B T.
	A pine, 12 ins. diam., bears South, 22 lks. dist., marked 1/4 S 32 B T.
	Asc. 36 ft. over NE. slope.
	53.70 Round topped spur, slopes N.30°W.; desc. 52 ft. over gradual W. slope.



Dependent Resurvey of Part of Subdivisions of T. 4 N., R. 38 E.

Chains	
62.30	Leave heavy timber and dense undergrowth, bears N. and S.; enter meadow, bears N. and S.
71.80	Leave meadow, bears N. and S.; enter heavy timber and dense undergrowth, bears N. and S.
76.00	Spring branch, 1 lk. wide, course NE.; asc. 43 ft. over gradual NE. slope.
76.20	House, bears S., about 5.00 chs. dist.
80.62	The cor. of secs. 29, 30, 31, and 32, heretofore described. Land, rolling. Soil, sandy loam; 2nd rate. Timber, fir, pine, spruce, and tamarack. Undergrowth, alder, willow, vinemaple, and huckleberry.
<hr/>	
From the cor. of secs. 25, 30, 31, and 36, on the W. bdy. of the Tp., heretofore described.	
S.89°38'E., bet. secs. 30 and 31.	
Asc. 104 ft. over SW. slope, through heavy timber and dense undergrowth.	
13.50	Spur, slopes S.; desc. 24 ft. over SE. slope.
17.00	Draw, course S.10°E.; asc. 208 ft. over SW. slope.
24.70	Highway, (Weston to Tollgate), bears N.20°W. and S.30°E.
31.30	Spur, slopes S.; desc. 22 ft. over SE. slope.
34.50	Draw, course S.; asc. 40 ft. over SW. slope.
37.20	Old dirt road, bears NE. and SW.
39.49	The 1/4 sec. cor., which is a basalt stone, 16x12x5 ins., firmly set, marked 1/4 on N. face. At point for cor.
Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, with the original stone deposited at the base, for 1/4 sec. cor., with brass cap marked	
$\frac{1}{4} \begin{matrix} S & 30 \\ S & 31 \end{matrix}$	
1939	
from which	
A rotten and fallen fir, bears N.42°W., 300 lks. dist., marks rotted off. (Old B. T.)	
A rotten and fallen fir, bears S.16°W., 230 lks. dist., marks rotted off. (Old B. T.)	
A double tamarack, 9 ins. diam., bears N.50°W., 285 lks. dist., marked 1/4 S 30 B T. (New B. T.)	
A spruce, 16 ins. diam., bears S.22°E., 191 lks. dist., marked 1/4 S 31 B T. (New B. T.)	
Thence	
S.89°51'E., continuing measurements.	



Dependent Resurvey of Part of Subdivisions of  
T. 4 N., R. 38 E.

Chains	Asc. 134 ft. over SW. slope.
51.25	Telephone line, bears NW. and SE.
52.00	Cabin, bears S., about 1.50 chs. dist.
53.55	Cabin, bears S., about 3.00 chs. dist.
55.10	McIntyre Lookout Road, bears NW. and SE.
62.70	Flat topped ridge, bears N. and S.; desc. 80 ft. over E. slope.
66.70	Dirt road, bears N. and S.
79.19	The cor. of secs. 29; 30, 31, and 32, heretofore described.
	Land, rolling and mountainous. Soil, sandy loam; 2nd rate. Timber, fir, pine, spruce, and tamarack. Undergrowth, alder, willow, vinemaple, and huckleberry.
	N.0°08'W.; bet. secs. 29 and 30.
	Over rolling land, through heavy timber and dense undergrowth.
20.00	Creek, 2 lks. wide, course E.
21.00	Cabin, bears W., about 0.80 chs. dist.
25.50	Creek, 2 lks. wide, course E.
27.00	Cabin, bears E., about 0.50 chs. dist.
28.00	Creek, 1 lk. wide, course E.
30.50	Cabin, bears E., about 2.00 chs. dist.
31.50	Cabin, bears E., about 4.00 chs. dist.
31.70	Dirt road, bears NE. and SW.
40.27	Proportionate measurement.
	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 spruce, 34 ins. diam., bears S.41°E., 5 lks. dist., marked $\frac{1}{4}$ S 29 B T.
	A spruce, 26 ins. diam., bears N.50°W., 12 lks. dist., marked $\frac{1}{4}$ S 30 B T.
50.55	House, bears E., about 8.00 chs. dist.
50.85	Old Sawmill, bears E., about 5.00 chs. dist.
80.54	The cor. of secs. 19, 20, 29, and 30, which is a basalt stone, 15x10x10 ins., firmly set, marked with 5 grooves on E. and 2 grooves on S. face.



Dependent Resurvey of Part of Subdivisions of  
T. 4 N., R. 38 E.

Chains

At point for cor.

Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, with the original stone deposited at the base, for cor. of secs. 19, 20, 29, and 30, with brass cap marked

T4NR38E  
S19|S20  
S30|S29

1939

from which

A burned and fallen tamarack, 14 ins. diam., bears N.67°E., 17 lks. dist., marks burned off. (Old B.T.)

A burned and fallen fir, 20 ins. diam., bears S.30°E., 26 lks. dist., marks burned off. (Old B. T.)

A pine, 20 ins. diam., bears S.43°W., 22 lks. dist., marks grown over. (Old B. T.)

A tamarack, 16 ins. diam., bears N.89½°W., 15 lks. dist., marks grown over. (Old B. T.)

A tamarack, 16 ins. diam., bears N.84½°E., 24 lks. dist., marked T 4 N R 38 E S 20 B T. (New B. T.)

A fir, 14 ins. diam., bears S.58°E., 63 lks. dist., marked T 4 N R 38 E S 29 B T. (New B. T.)

Land, rolling.

Soil, sandy loam; 2nd rate.

Timber, fir, pine, spruce, and tamarack.

Undergrowth, alder, willow, vinemaple, and huckleberry.

From the cor. of secs. 20, 21, 28, and 29, heretofore described.

N.89°34'W., bet. secs. 20 and 29.

Asc. 10 ft. over gradual E. slope, through heavy timber and dense undergrowth.

19.50 Top of ascent, bears N. and S.; desc. 30 ft. over W. slope.

25.80 Leave heavy timber and dense undergrowth, bears N. and S.; enter swamp, bears N. and S.

33.80 Leave swamp, bears N. and S.; enter heavy timber and dense undergrowth, bears N. and S.; asc. 59 ft. over E. slope.

40.01 The ¼ sec. cor., which is a basalt stone, 12x8x7 ins., firmly set, marked ¼ on N. face.

At point for cor.

Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, with the original stone deposited at the base, for ¼ sec. cor., with brass cap marked

¼ S 20

¼ S 29

1939

from which



Dependent Resurvey of Part of Subdivisions of  
T. 4 N., R. 38 E.

Chains	
	<p>A red fir, 36 ins. diam., bears N.42°W., 65 lks. dist., marks grown over. (Old B.T.)</p> <p>A dead and fallen fir, 20 ins. diam., bears S.31°W., 30 lks. dist. marks grown over. (Old B.T.)</p> <p>A tamarack, 14 ins. diam., bears S.40°W., 48 lks. dist., marked <math>\frac{1}{4}</math> S 29 B T. (New B. T.)</p> <p>Thence</p> <p>N.89°53' W., continuing measurement.</p> <p>Asc. 120 ft. over E. slope.</p>
55.00	Flat topped ridge, bears N. and S.; desc. 30 ft. over W. slope.
59.95	Dry creek bed, 10 lks. wide, course N.20°E.; asc. 96 ft. over E. slope.
79.50	Dirt road, bears N.30°W. and S.30°E.
80.02	The cor. of secs. 19, 20, 29, and 30, heretofore described. Land, rolling and mountainous. Soil, sandy loam; 2d. rate. Timber, fir, pine, spruce, and tamarack. Undergrowth, alder, willow, vinemaple, and huckleberry.
	<p>From the cor. of secs. 19, 24, 25, and 30, on the W. bdy. of the Tp., heretofore described.</p> <p>N. 89° 59' E., bet. secs. 19 and 30.</p> <p>Asc. 48 ft. over NW. slope, through heavy timber and dense undergrowth.</p>
4.30	Creek, 1 lk. wide, course N.70°W.; asc. 416 ft. over NW. slope.
17.95	Creek, 1 lk. wide, course NW.; asc. 475 ft. over SW. slope.
29.60	Continue to asc. 219 ft. over W. slope.
38.26	The $\frac{1}{4}$ sec. cor., which is a basalt stone, 16x10x5 ins., firmly set, marked $\frac{1}{4}$ on N. face.
	At point for cor.
	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, with the original stone deposited at the base, for $\frac{1}{4}$ sec. cor., with brass cap marked
	$\frac{1}{4} \begin{array}{l} S 19 \\ S 30 \\ 1939 \end{array}$ <p>from which</p> <p>A fir, 10 ins. diam., bears N.34°E., 260 lks. dist., marked <math>\frac{1}{4}</math> S 19 B T. (New B.T.)</p> <p>No other bearing tree available.</p> <p>Raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor.</p>



376

Dependent Resurvey of Part of Subdivisions of  
T. 4 N., R. 38 E.

Chains

Thence

N.89°57'E., continuing measurements.

Over rolling land.

42.30

McIntyre Lookout Road, bears N.30°W. and S.30°E.

48.00

Flat topped ridge, bears N. and S.; desc. 113 ft. over E. slope.

78.46

The cor. of secs. 19, 20, 29, and 30, heretofore described.

Land, mountainous and rolling.

Soil, sandy and rocky loam; 2nd and 3rd rate.

Timber, fir, pine, spruce, and tamarack.

Undergrowth, alder, willow, vinemaple, and huckleberry.

N. 0°14'E., bet. secs. 19 and 20.

Asc. 17 ft. over SE. slope, through heavy timber and dense undergrowth.

1.30

Dirt road, bears NW. and SE.

10.00

Top of ascent, bears E. and W.; desc. 59 ft. over N.slope.

32.85

Draw, course S.70°E.; asc. 53 ft. over SE. slope.

39.86

The  $\frac{1}{4}$  sec. cor., which is the rotten remains of old stake, bearing traces of incomplete scribe marks.

At point for cor.

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

S19 | S20

1939

from which

A fir, 26 ins. diam., bears N.85°E., 13 lks. dist., marks grown over. (Old B. T.)

A double fir, 40 ins. diam., bears West, 19 lks. dist., marks grown over. (Old B. T.)

Thence

N.0°18'W., continuing measurements.

Asc. 21 ft. over SE. slope.

41.85

McIntyre Lookout Road, bears NE. and SW.

79.62

The cor. of secs. 19 and 20, which is the broken remains of old basalt stone, with 5 notches on one piece and 3 notches on another piece.

At point for cor.

Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, with the broken pieces of original stone deposited at base, for cor. of secs. 19 and 20 only, with brass cap marked



Dependent Resurvey of Part of Subdivisions of  
T. 4 N., R. 38 E.

Chains	<p style="text-align: center;">T4NR38E S 18 S19   S20 1939</p>	Chains
	<p style="text-align: right;">from which</p> <p>A fir, 20 ins. diam., bears S.27°E., 36 lks. dist., marks grown over. (Old B.T.)</p> <p>A fir, 20 ins. diam., bears S.42°W., 56 lks. dist., marks grown over. (Old B.T.)</p> <p>Land, rolling. Soil, sandy loam; 2nd rate. Timber, fir, pine, spruce, and tamarack. Undergrowth, alder, vinemaple, willow, and huckleberry.</p>	
	<p>From the cor. of secs. 13, 18, 19, and 24, on the W. bdy. of the Tp., heretofore described.</p> <p>N. 89°21'E., bet. secs. 18 and 19.</p> <p>Asc. 394 ft. over SW. slope, through scattering timber and undergrowth.</p>	
22.30	Spur, slopes NW.; continue to asc. 341 ft. over NW. slope.	
22.32	McIntyre Lookout Station, bears S.14°E.	
38.06	<p>The <math>\frac{1}{4}</math> sec. cor., which is a basalt stone, 14x10x8 ins., firmly set, marked <math>\frac{1}{4}</math> on N. face.</p> <p>At point for cor.</p> <p>Set and iron post, 3 ft. long, 1 in. diam., 14 ins. in the ground to bedrock, with the original stone deposited at the base, and in a mound of stone to top, for <math>\frac{1}{4}</math> sec. cor. of sec. 19 only with brass cap marked</p> <p style="text-align: center;"><math>\frac{1}{4}</math> S 19 1939</p> <p style="text-align: right;">from which</p> <p>A fir, 40 ins. diam., bears N.7<math>\frac{1}{2}</math>°E., 119 lks. dist., marks grown over. (Old B.T.)</p> <p>No other bearing trees available.</p> <p>Thence</p> <p>N.89°49'E., continuing measurement.</p> <p>Asc. 19 ft. over NW. slope.</p>	
39.10	Spur, slopes N.; desc. 65 ft. over NE. slope.	
45.85	Draw, course N.; asc. 118 ft. over NW. slope.	
52.35	Spur, slopes N.; desc. 92 ft. over NE. slope.	
63.35	Draw, course N.; asc. 286 ft. over E. slope.	
77.00	Top of ascent, bears N. and S.; over rolling land.	
77.50	Enter heavy timber and dense undergrowth, bears N. and S.	
78.09	<p>The cor. of secs. 19 and 20 only, heretofore described.</p> <p>Land, mountainous.</p>	



378

Dependent Resurvey of Part of Subdivisions of  
T. 4 N., R. 38 E.

Chains

Soil, sandy and rocky loam; 2nd and 3rd rate.  
Timber, fir, pine, spruce, and tamarack.  
Undergrowth, alder, willow, vinemaple, and huckleberry.

Retracement of 3 Subdivision  $\frac{1}{2}$  Miles in T.3 N., R.38 E.

"Correction of the Survey executed by John W. Kimbrell,  
Deputy Surveyor, in 1903."

The  $\frac{1}{4}$  sec. cor. of secs. 3 and 4, is the rotten remains of  
old stake, bearing traces of incomplete scribe marks.

At point for cor.

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

$\frac{1}{4}$   
S 4 | S 3

1939

from which

A pine, 14 ins. diam., bears N.64°E., 78 lks. dist.,  
marks grown over. (Old B. T.)

A pine, 10 ins. diam., bears N.28°W., 22 lks. dist.,  
marks grown over. (Old B.T.)

Thence

N.0°02'W., on true line bet. secs. 3 and 4.

Desc. 567 ft. over NE. slope, through heavy timber and  
dense undergrowth.

29.95 Intersect S. bdy. of T. 4 N., R. 38 E.

Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the  
ground, for closing cor. of secs. 3 and 4, with brass  
cap marked

T4NR38E  
S34  
S 4 | S 3  
T3N R38E  
C C  
1939

from which

A spruce, 16 ins. diam., bears S.89°E., 18 lks. dist.,  
marked T 3 N R 38 E S 3 C C B T. (Old B.T.)

A fir, 16 ins. diam., bears S.57 $\frac{1}{2}$ °W., 70 lks. dist.,  
marked T 3 N R 38 E S 4 C C B T. (Old B.T.)

From point of intersection the  $\frac{1}{4}$  sec. cor. of sec. 34 only,  
bears N.89°10'E., 3.45 chs. dist., heretofore described.

30.13 The original closing cor. of secs. 3 and 4, which is a  
spruce stump, 20 ins. diam., marked with 3 notches on E.  
and W. sides, and T. 3 N R 38 E on S. side.

from which



Retracement of 3 Subdivision 1/2 Miles in T. 3 N., R. 38 E.

Chains

A spruce, 16 ins. diam., bears S.45°E., 25 lks. dist., marked T 3 N R 38 E S 3 C C B T. (Old B. T.)

A fir, 16 ins. diam., bears S.51°W., 83 lks. dist., marked T 3 N R 38 E S 4 C C B T. (Old B. T.)

I obliterate the marks on this tree cor. stump and leave the two bearing trees intact for accessories to the new closing cor. of secs. 3 and 4, heretofore described.

Land, mountainous.

Soil, rocky loam; 3rd rate.

Timber, fir, pine, spruce, and tamarack.

Undergrowth, alder, vinemaple, willow, and huckleberry.

The 1/4 sec. cor. of secs. 4 and 5, is the rotten remains of old post, 3 ft. long, 3 ins. diam., lying on the ground with stub of post still in the ground, marked 1/4 S.

At point for cor.

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

S 5 | S 4

1939

from which

A pine, 10 ins. diam., bears S.48°E., 26 lks. dist., marked 1/4 S 4 B T. (Old B. T.)

A dead and fallen pine, 4 ins. diam., bears S.23°W., 28 lks. dist., marked 1/4 S 5 B T. (Old B. T.)

A pine, 8 ins. diam., bears S.62 1/2°W., 7 lks. dist., marked 1/4 S 5 B T. (New B. T.)

Thence

N.0°17'W., on true line bet. secs. 4 and 5.

Desc. 159 ft. over gradual NE. slope, through heavy timber and dense undergrowth.

29.00 Highway, (Elgin to Tollgate), bears N.30°W. and S.30°E.

29.90 The original closing cor. of secs. 4 and 5, which has been perpetuated with a galvanized iron pipe, 3 ft. long, 1 in. diam., with no marks.. from which

A fir, 20 ins. diam., bears S.1°E., 8 lks. dist., marked T 3 N R 38 E S 4 C C B T. Obliterate marks. (Old B. T.)

A fir, 18 ins. diam., bears S.62 1/2°W., 5 lks. dist., marked T 3 N R 38 E S 5 C C B T. Obliterate marks (Old B. T.)

29.98 Intersect S. bdy. of T. 4 N., R. 38 E.

Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, for closing cor. of secs. 4 and 5, with brass cap marked



Retracement of 3 Subdivision 1/2 Miles in T. 3 N., R. 38 E.

Chains

T4NR38E  
S33  
S 5 | S 4  
T3N | R38E  
C C  
1939

A spruce, 16 ins. diam., bears S. 29° W., 33 lks. dist., marked T 3 N R 38 E S 4 C C B T. (Old B. T.)

A fir, 10 ins. diam., bears S. 75° W., 26 lks. dist., marked T 3 N R 38 E S 5 C C B T. (Old B. T.)

A pine, 10 ins. diam., bears S. 23 1/2° E., 51 lks. dist., marked T 3 N R 38 E S 4 C C B T. (Old B. T.)

A pine, 8 ins. diam., bears S. 75 1/2° W., 26 lks. dist., marked T 3 N R 38 E S 5 C C B T. (Old B. T.)

From point of intersection the 1/4 sec. cor. of sec. 33 only, bears N. 89° 55' E., 2.85 chs. dist., heretofore described.

Land, rolling.  
Soil, sandy loam; 2nd rate.  
Timber, fir, pine, spruce, and tamarack.  
Undergrowth, alder, huckleberry, vinemaple, and willow.

The 1/4 sec. cor. of secs. 5 and 6, determined by reference to the record bearing and distance to one of the original bearing trees.

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

S 6 | S 5  
1939

A pine, 10 ins. diam., bears S. 48° E., 26 lks. dist., marked T 3 N R 38 E S 6 B T. (Old B. T.)

A dead and fallen tree, 4 ins. diam., bears S. 23° W., 28 lks. dist., marked T 3 N R 38 E S 5 B T. (Old B. T.)

A pine, 8 ins. diam., bears S. 62 1/2° W., 7 lks. dist., marked T 3 N R 38 E S 5 B T. (Old B. T.)

A spruce, 18 ins. diam., bears East, 29 lks. dist., marked 1/4 S 5 B T. (Old B. T.)

A spruce, 14 ins. diam., bears N. 84° W., 20 lks. dist., marked 1/4 S 6 B T. (New B. T.)

Thence N. 1° 02' W., on true line bet. secs. 5 and 6.

Over rolling land, through heavy timber and dense undergrowth.

0.15 Spring branch, 2 lks. wide, course N. 70° E.

10.00 Enter swamp, bears E. and W.

19.40 Leave swamp, bears E. and W. (Old B. T.)

20.75 Dirt road, bears NE. and SW.

29.71 The original closing cor. of secs. 5 and 6, determined by reference to the record bearings and distances to the original bearing trees.. from which

A fir, 14 ins. diam., bears S. 75° E., 26 lks. dist., marks grown over. (Old B. T.)

A spruce, 16 ins. diam., bears S. 29° W., 33 lks. dist.,



Retracement of 3<sup>1</sup>/<sub>2</sub> Miles in T. 3 N., R. 38 E.

## Chains

marks grown over. (Old B. T.)

Leave the two bearing trees intact for accessories to the new closing cor. of secs. 5 and 6.

29.76 Intersect the S. bdy. of T. 4 N., R. 38 E.

Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, for closing cor. of secs. 5 and 6, with brass cap marked

T4NR38E

S32

S 6 | S 5

T3N | R38E

C C

1939

from which

A fir, 14 ins. diam., bears S. 65° E., 32 lks. dist., marks grown over. (Old B. T.)

A spruce, 16 ins. diam., bears S. 26½° W., 39 lks. dist., marks grown over. (Old B. T.)

From point of intersection the ¼ sec. cor. of sec. 32 only, bears S. 89° 40' E., 1.96 chs. dist., heretofore described.

Land, rolling.

Soil, sandy loam; 2nd rate.

Timber, fir, pine, spruce, and tamarack.

Undergrowth, alder, willow, vinemapple, and huckleberry.

## FINAL TEST OF SOLAR ATTACHMENT.

Aug. 21: At camp near the ¼ sec. cor. of secs. 32 and 33, on the meridian heretofore described, 8h 00m a.m., app. t., I set off 45° 47' N., on the lat arc; 12° 18' 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 3h 00m p.m., app. t., I set off 45° 47' N., on the lat. arc; 12° 12' 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.

The fractional part of Township 4 North, Range 38 East, shown in the foregoing field notes lies either on top or near the top of the Blue Mountains. The average elevation is about 5,000 ft. above sea level. The western parts of sections 19 and 30 slope toward Elbow Canyon and are very rough and steep. Lookingglass Creek flows near the south boundaries of sections 33 and 34 and this part of the township is also rough and broken. The remainder of the township is rolling with some parts almost level. The soil on the rolling top land is a coarse sandy loam, but the steeper places are very rocky. The timber consists of fir, pine, spruce, tamarack, and yew. Very few of these trees are exceptionally large owing to forest fires in the past. The undergrowth consists of alder, willow, vinemapple, huckleberry, fern, and Oregon grape.

Sections 19 and 30 drain in a westerly direction toward Elbow Canyon. Sections 32, 33, and 34, are drained by the Lookingglass Creek and its tributaries. This stream is about 7 lks. in width where it leaves the township.



Township 4 North, Range 38 East.

Chains

Langdon Lake is located in the southeast 1/4 of section 32. This lake was formed by damming Lookingglass Creek, and contains some 60 or 70 acres. This lake is not meanderable on account of its being an artificial lake.

A highway from Weston to Elgin, by way of Tollgate, extends through parts of sections 30, 31, 32, and 33. The Skyline Road, starting at Tollgate, extends through sections 33 and 34; thence through the entire Blue Mountains to Dayton, Washington. McIntyre Lookout Road extends through sections 19 and 30. Target Meadow Road, extends north from the Tollgate through section 33. Several other minor roads lead to different parts of this fractional township. Lookingglass Trail follows the entire course of Lookingglass Creek.

Tollgate often referred to as Langdon Lake is a summer resort. Several stores, a dance hall, hotel, Tollgate Ranger Station, a Civilians Conservation Corps camp, and a large number of houses have been constructed at this resort. The Blue Mountain Ski Club have several buildings and a skiing course located near the central part of section 33. McIntyre Lookout Station is located near the central part of section 19. An old sawmill is located near the west-central part of section 29. Hill's camp is located in the west-central part of section 30. A number of other buildings are also located on this fractional township.

No mineral was noted in this fractional township.

The average of a number of readings over all parts of the township gives a value of 21°00'E. for the mean magnetic declination. There is a range of 6° in local attraction.

FINAL TEST OF SOLAR ATTACHMENT.

Aug. 21: At camp near the 1/4 sec. cor. of sec. 32 and 33 on the meridian heretofore described; 8:00 a.m., app. I set off 45°47'N., on the lat. arc; 12°12'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 3:00 p.m., app. I set off 45°47'N., on the lat. arc; 12°12'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.

The fractional part of Township 4 North, Range 38 East, shown in the foregoing field notes lies either on top or near the top of the Blue Mountains. The average elevation is about 5,000 ft. above sea level. The western parts of sections 19 and 30 slope toward Elbow Canyon and are very rough and steep. Lookingglass Creek flows near the south boundaries of sections 33 and 34 and this part of the township is also rough and broken. The remainder of the township is rolling with some parts almost level. The soil on the rolling top land is a coarse sandy loam, but the steeper places are very rocky. The timber consists of fir, pine, spruce, tamarack, and yew. Very few of these trees are exceptionally large owing to forest fires in the past. The undergrowth consists of alder, willow, vine maple, huckleberry, fern, and Oregon grape. Sections 19 and 30 drain in a westerly direction toward Elbow Canyon. Sections 32, 33, and 34, are drained by the Lookingglass Creek and its tributaries. This stream is about 7 kts. in width where it leaves the township.



4-680  
(Revised May 1934)

FIELD ASSISTANTS

NAMES	CAPACITY
Dick Tscheu	Principal Assistant.
Ford Peterson	Chainman.
George F. Dawson, Jr.	Truckdriver.
James P. Greiner	Axeman.
Virgil Grover	Axeman.
Charles Walker	Flagman.
William Doescher	Cornerman.
Richard Fields	Cornerman.
Henry Tyler	Cornerman.



CERTIFICATE OF ~~UNITED STATES~~ SURVEYOR

I, Otis O. Gould, Surveyor, HEREBY CERTIFY upon honor that, in pursuance of special instructions bearing date of the 11th day of July, 1939 received from the district cadastral engineer for Oregon, with assignment instructions dated July 26, 1939, I have ~~surveyed~~ dependently resurveyed part of the South and West boundaries and part of the subdivisions of T. 4 N., R. 38 E., retraced 3 subdivisional  $\frac{1}{2}$  miles of T. 3 N., R. 38 E. 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 said survey has been made in strict conformity with said instructions, the Manual of Instructions for the Survey of the Public Lands of the United States, and in the specific manner described in the foregoing field notes.

Portland, Oregon.  
March 21, 1939.

*Otis O. Gould*  
Surveyor.

CERTIFICATE OF APPROVAL

OFFICE OF U.S. SUPERVISOR OF SURVEYS,  
DENVER, COLORADO AUG 16 1940, 19

The foregoing field notes of ~~the survey of~~ the dependent resurvey of part of south and west boundaries and part of subdivisions of T. 4 N., R. 38 E., and retracement of 3 subdivision  $\frac{1}{2}$  miles in T. 3 N., R. 38 E. of the Willamette Meridian, Oregon. executed by Otis O. Gould, Surveyor. under special instructions dated July 11, 1939, and assignment instructions dated July 26, 1939, having been critically examined, and the necessary corrections made prior to their certification by the engineer, the said field notes, and the survey therein described, are hereby approved.

*Samuel A. Johnson*  
U.S. Supervisor of Surveys.

CERTIFICATE OF TRANSCRIPT

I CERTIFY that the foregoing transcript of the field notes of the above-described surveys in \_\_\_\_\_, is a true copy of the original field notes on file in the public survey office.

\_\_\_\_\_  
U.S. Supervisor of Surveys.