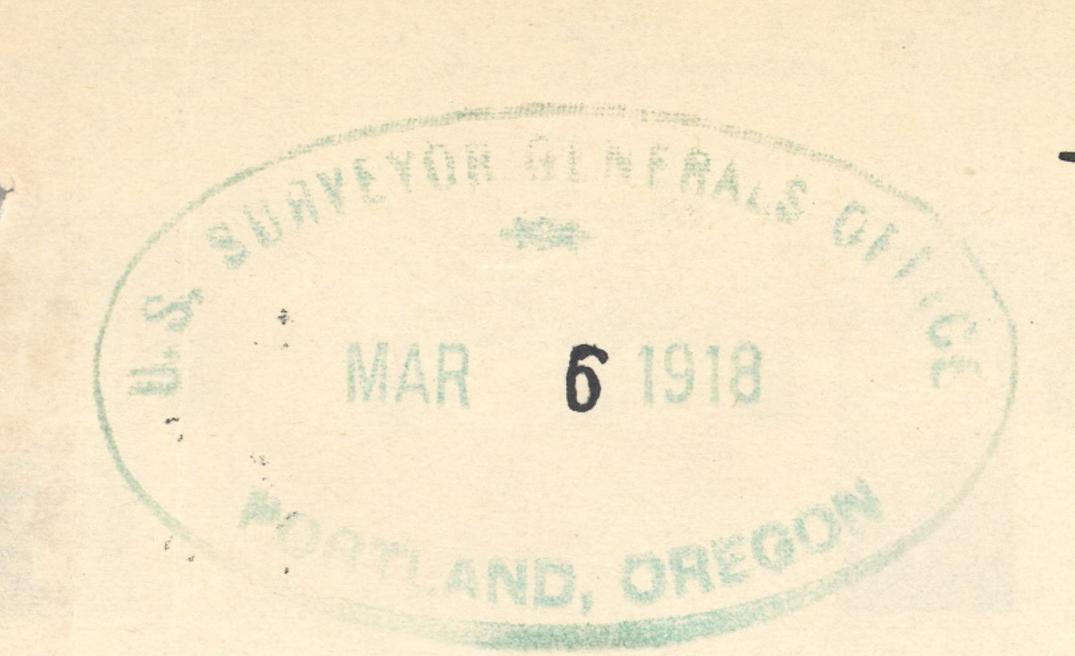
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FIELD NOTES

of

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In the capacity of U.	S. Surveyor.	, under Spe	ecial Instruct	tions dated	April 18, 18	01 %
issued by the Unit	ted States S	Surveyor Ger	neral to goi	vern surveys	included in Gr	oup
No. 38	., which wer	e approved	by the Com	imissioner of	the General L	and
Office, May 10	, 191 7, a	nd Assignm	ent Instruct	ions datedS	ept. 13., 19.	17
Surv	ey commenc	ed	October 1	2, 19	17	
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ACREPTED BY THE HON. COMMISSIONERG. L. O. May 2. 1919

INDEX DIAGRAM.

Township 2 South			, Range 34 East		
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7	8	9	10	11	12
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Blue indicates retracements.

Green indicates resurveys.

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Retracements, Resurveys and Surveys for Year 1917

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Oct. 9, 1917; It 4h Om p.m., 1.m.t, I set off 45°54'H. on the let are; and determine

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to the solar aller origin, which falls 000 80" west of

the meridien determined by Polaris, observetion, Sept. S

Chains

This survey was made simultaneously and in connection with the survey that portion of this township within the original boundaries of the Umatilla Indian Reservation.

Survey commenced Oct. 10, 1917 and executed with a Young and Sons light mountain transit No. 8585, with Smith solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs.

The instrument was examined and approved by the Assistant Supervisor of Surveys for Oregon, May 3, 1917, subject to a satisfactory field test.

rect; then, to test the solar apparatus by comparing its indications resulting from solar observations made during a.m. and p.m. hours with a meridian determined by observations on Polaris, I proceed as follows:

Sept. 5, 1917: At my camp near the \(\frac{1}{4} \) cor. of secs. 13 and 14, lat. 45°24'N., long. 118°29'W., at 8h 37m p.m., l.m.t., I observe Polaris at eastern elongation in accordance with the Manual of Instructions and mark a point in the line thus determined on a peg driven in the ground, 5.00 chs. N. of my station.

Sept. 5, 1917.

Sept. 6, 1917: At 7h Om a.m., I lay off the azimuth of Polaris 1°37' to the west and mark the meridian thus determined on a peg driven in the ground, 5.00 chs. N. of my station.

at wolfsvireself the recibnic to other self- and the self-

Sept. 6, 1917.

Oct. 9, 1917: At 4h Om p.m., l.m.t, I set off 45°24'N. on the lat. arc; 6°17'S. on the decl. arc; and determine with the solar a meridian, which falls 0°0'30" west of the meridian determined by Polaris observation, Sept. 5,

Township No. 2 South, Range No. 34 East

Chains

1917.

on the lat. arc; 6°33'S. on the decl. arc; and determine with the solar a meridian, which falls 0°0'20" west of the meridian determined by Polaris observation, Sept. 5, 1917.

The solar apparatus by p.m. and a.m. observations defines positions for the meridian, which vary less than 1' of arc from the meridian determined by Polaris observation; therefore, I conclude that the adjustments of the instrument are satisfactory.

The instrument was maintained in good adjustment throughout the survey. Latitude and meridian observations were taken daily, weather permitting.

Measurements were made with a 5.00 ch. steel tape, compared with a Chesterman standard 66 ft. steel tape and found correct. All measurements were made on the slope; angles read with an Abney clinometer and all distances reduced to the horizontal, which alone appears in these notes.

Note:
Several cors. herein are monumented by stones because more iron posts were required than had been anticipated, and to procure another shipment would have involved the loss of much time and materially increased the cost.

Retracement Portion East Bdy., T. 2 S., R. 34 E.

Commence at the cor. of secs. 13, 18, 19 and 24, on the E. bdy. of the Tp., which is a cross (X) on a volcanic stone in place, 5x3xl ft. above ground, witnessed as described by the surveyor general.

From this cor. the closing cor. of secs. 13 and 18, on the E. bdy. of the original Umatilla Indian Reservation, bears N.0°11'E., 17.08 chs. dist.

eround, for cor, of secs. II; as and

Thence

South, retracing bet. secs. 19 and 24.

Over rolling land, through heavy timber and medium under-

Chains

Timber, fir, pine and tamarack.

Undergrowth, pine, willow, service berry and ninebark.

South, retracing line bet, secs, 31 and 36.

Over mountainous land, through heavy timber and medium undergrowth.

40.24

Intersect the point for \(\frac{1}{4} \) sec. cor., located by reference to the bearing trees as described by the surveyor general, except that the SE. tree is now dead. I perpetuate this cor., as follows: at the exact cor. point

Set a volcanic stone, 20x12x10 ins., 16 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ 36 on W. and 31 on E. face; from which

A tamarack, 16 ins. diam., bears N.66°45'W., 67 lks.
dist., marked 1 S B T (Old B.T.)

A tamarack, 6 ins. diam., bears S.50°E., 20 lks. dist., marked & S 31 B T (New B.T.)

The true course and distance of this line to the \frac{1}{4} sec.

cor. is South, 40.24 chs.

From the 1 sec. cor.

South, continuing my measurements

60.74

Daly wagon road, bears NE. and SW.; this road follows the approximate summit of the Blue Mountains, which at this point is flat and not well defined.

80.47

Intersect the cor. of Tps. 2 and 3 S., Rs. 34 and 35 E., which is an old post, marked and witnessed as described by the surveyor general. I perpetuate this cor., as follows: at the exact cor. point

Set a volcanic stone, 28x20x12 ins., 12 ins. in the ground to bedrock and 9 ins. in a mound of stone, for cor. of Tps. 2 and 3 S., Rs. 34 and 35 E., marked with 6 notches on each edge; from which

A fir, 16 ins. diam., bears N.72°15'E., 72 lks. dist., marked T 2 S R 35 E S 31 B T (Old B.T.)

A fir, 18 ins. diam., bears S.42°30'E., 50 lks. dist.,

Retracement Portion East Bdy., T. 28., R. 34 E.

Chains

marked T 3 S R 35 E S 6 B T (Old B.T.)

A fir, 20 ins. diam., bears S.14°30'W., 56 lks. dist., marked T 3 S R 34 E S 1 B T (Old B.T.)

A fir, 24 ins: diam:, bears N.50°W., 300 lks. dist., marked T 2 S R 34 E S 36 B T (New B.T.)

At this cor. the lat. is 45°21'N., long, 118°28'W., mag.

The true course and distance of this line from the 1 sec. cor. is South, 40.23 chs.

Land, rolling bench.

Soil, light shallow loam on basalt rock, 3rd rate.

Timber, fir, pine and balsam.

Undergrowth, balsam, fir and willow.

Retracement and Resurvey Portion South Bdy., T. 2. S., R. 34 E.

From the cor. of Tps. 2 and 3 S., Rs. 34 and 35 E. West, retracing bet. secs. 1 and 36.

Over high rolling bench land, through heavy timber and medium undergrowth.

Fall 20 lks. N. of the 1 sec. cor., which is a basalt stone, firmly set, marked and witnessed as described by the surveyor general.

> The true course and distance of this line to the 4 sec. cor. is S.89°43'W., 40.08 chs.

From the 1 sec. cor.

80.09

West, continuing my measurements

Fall 50 lks. N. of the cor. of secs. 1, 2, 35 and 36, which is a stake, firmly set in the ground, not marked, but witnessed as described by the surveyor general. I perperuate this cor., as follows: at the exact cor. point O LIVER OF THE CONTRACT OF THE Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 1, 2, 35 and 36, with brass cap marked T2S R34E

S35 S36 dale. alle .a. 106 s.a. arsed . S2 S1. and all .a. T3S R34E 1917

This portion of the township lies on the summit of the Blue Mountains. The soil is light volcanic ash, very shallow over basalt and is good for grazing. It is nearly all timbered with scattering yellow pine, fir, tamarack and balsam, not of commercial value. The land is principally valuable for grazing. There are no settlers.

Oct. 18, 1917.

L. E. Milkes.

U. S. Surveyor

For Final Certificate of U. S. Surveyor, see Book "C"

APPROVAL

Office of U. S. Surveyor General, Portland, Oregon, August 26, 1918.

The foregoing field notes of the Retracement Portion East Bdy., Retracement and Resurvey Portion South Bdy., Retracement Portion West Bdy. and Retracement and Survey Portion Subdivisional Lines in Township No. 2 South, Range No. 34 East of the Willamette Meridian, Oregon, executed by L. E. Wilkes, U. S. Surveyor, under his special instructions dated April 18, 1917, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

U. S. Surveyor General