FIELD NOTES

OF THE SURVEY OF THE

			BDY. T. 5 N., R. 39 E. OF T. 5 N., R. 38 E.
			36, T. 6 N., R. 38 E.
		BDIVISION	
	DIND DU	DUTATOTA	VI.
	TOWNSHIP 5 NORT	H, RANGE 3	9 HAST.
them prove with many alles and seek alles and alles and one one one one has some alles and one			
Of the	WILLAMBTTE	and the sec one	
In the State of	OREGON		
	EXECL	JTED BY	
Otis O. Gould		ment their first their most offic soon drift soon drift soon most soon soon soon soon soon soon soon s	U. S. Transitman.
1/2 cm dis dis dis this dis on the dis on the san de			
Under special instructi	ions dated	April 11	, 1929, which provided
for the surveys include	ed under Group N	°o. 135	, bearing the approval of the
Commissioner of the G	eneral Land Office	under date	of May 13, 1929.
and assignment instruc	ctions dated	May 19, 19 June 27, 1	32. 935., 19.
Survey	commenced	Aug. 31	, 19_32
Survey	completed	Aug. 13	, 19_35.
	U. S. GOVERNMENT PRI	NTING OFFICE: 1933 6-151	

INDEX DIAGRAM.

	hip		, Range		
6	5		3	2	
	8		10	11	3.2
18	17	16	15	14	13
19	20	21	22	23	24
80	29	28	27	26	25
31	32	33	34	35	36
			6151		

INDEX DIAGRAM

Township 5 North, Range 39 East.

	23											
21	81	6	80	5	62	4	52	3	43	2	33	
	80	77	ryry	8	60	9	50	10	1	11	79	12
20		75		74	90	60		50		40	96	31
18	76	18	73	17	59	16	49	15	39	14	30	13
		72		71		58		-48-		38		29
17	73	19	70	20	57	21	47	22	38	23	28	24
		68		67		56		46		37		27
16	69	30	66	29	55	28	45	27	36	26	26	25
		65		64		54		45		35		26
15	66	31	63	32	53	33	44	34	34	35	25	36
		12		10		8		6		4		3

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 4½ 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 23 ins., and declination are 3½ 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 kks., and the balance at intervals of 10 ks. 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°52'N., and longitude 118°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° 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:

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 inter-

vals 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 foliows:

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 estab-lished 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, Ist Stan. Par. N., S. Bdy. T. 5 N., eerh bound i bas betset bas, ver sur end tested and free

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

reactions of benimmeteb erew senitalite to snoiteerib entre

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 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. not is to bus to temp.

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

- 41.41 Intersect the standard 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. end to suibser reinrev s vd elsus

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

- 40.17 Fall 7 lks. N. of the original standard 4 sec. cor. of instrument, setting on the upper Limberne
- Find no evidence of the original closing cor. of secs. 3 and 4, T. 4 N., R. 39 E. Set temp.
- Find no evidence of the original standard cor. of secs.

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

and the same of th			
• [1]	08		ent Resurvey, .lst .Stan. Par. N., S. Bdy. T. 5 N., R. 39 E.
		Chains 40.35	Fall 23 lks. N. of the original standard 4 sec. cor.
		56.18	Find no evidence of the original closing cor. of secs. 4 and 5, T. 4 N., R. 39 E. Set temp.
		80.48	Fall 40 lks. N. of the original standard cor. of secs. 32 and 33.
			West, retracing the S. bdy. of sec. 32.
		40.18	Fall 22 lks. N. of the original standard 4 sec. cor.
			Find no evidence of the original closing cor. of secs. 5 and 6, T. 4 N., R. 39 E.
		80.48	Fall 7 lks. N. of the original standard cor. of secs. 31 and 32.
	*		West, retracing the S. bdy. of sec. 31.
		40.26	Fall 37 lks. N. of the original standard 4 sec. cor.
			Fall 26 lks. N. of the original standard cor. of Tps. 5 N., Rs. 38 and 39 E.
静	990	IS DE	75.70 Creek, 3 lks. wide, course S.; ssc. 130 ft. ove
			80.00 Set an iron postendard cor. 2 ins. diam. 27 on 36, 8 ins. 35 and 36, 8 ins. 35 and 36,
			I commence the dependent resurvey from the new standard cor. of Tps. 5 N., Rs. 39 and 40 E., as described in the field notes of T. 5 N., R. 40 E., of this group.
			The geographic position of this cor. is latitude 45°52' N., and longitude 117°52' W.
		do in	N.89°56'W., on true line along the S. bdy. of sec. 36.
		* 82II 99 *	Desc. 60 ft. over W. slope, through heavy second growth timber and dense undergrowth.
		. 5.11	The original standard cor. of Tps. 4 N., Rs. 39 and 40 E., which is now an angle point for sec. 36, as described in the notes of T. 5 N., R. 40 E., of this group.
			Thence . sendy losm; Srd rate. Timber, fir, pine, apruce and tamarack.
			West, continuing measurements. bls .dayongrabhu
			Continue to desc. 271 ft. over gradual W. slope.
		40.00	Set an iron post, 3 ft. long, lin. diam., 27 ins. in the ground, for standard & sec. cor., with brass cap marked
	17.7	BOD DEUT	Asc. 150 ft. over growd Lash broken SE. slope, thr second growth tingsrame dense undergrowth.
			.He sarmos , 1932, MI I , domerd gning Oo.d from which
			A spruce, 14 ins. diam., bears N.24°E., 48 lks. dist., marked \$ S 36 S C B T.
·Ł	000	dan dan	Afir, 18 ins. diam., bears N.46.W., 52 lks. dist., marked 4 S 36 S C B T.
			Continue to desc. 59 ft. over gradual W. slope.
		de Fr	Spring branch, 2 lks. wide, course NW.; continue to desc. 55 ft. over gradual NW. slope.
	6 0	63.90	Proportionate point for the closing cor. of secs. 1 and 2,
	0.5		

II. S. GOVERNMENT PRINTING OFFICE: 1931 6-8155

4-673 b

Dependent Resurvey, 1st Stan. Par. N., S. Bdy. of T. 5 N., R. 39 E. Chains erop softe 4 Neson Re 39 Espiro ent to . II. east de sist de . . Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, for closing cor. of secs. 1 and 2, with brass cap marked Fall 40 lks. W. of the original standard cor. W. exl. 40 T5N R39E - SG DILB S 36 .SE .oes to .v.bd SE2 Stlaniosater .tseW T4N R39E 40.18 Fall 22 lks. W. of One Original standard & SS Lks 1 81.04 .assa lo .ros gniaols Lanigiro ent lo esnabive onfrom which ed 5 and 6, 1, 4 M., 89 M. A fir, 10 ins. diam., bears S. 43°E., 18 1ks. dist. Ic . soes to . Too marked T 4 N R 39 E S L C C B T. V IIST 81.08 A fir, 16 ins. diam., bears S. 13°W., 20 lks. dist., marked T 4 N R 39 E S 2 C C B T. Continue to desc. 182 ft. over SW. slope. Trail, bears N. and Sino ont to . H. and as IIsa IA. er 64.90 all 83 bos 86 .all Creek, 3 lks. wide, course S.; asc. 130 ft. over SE. slope. 73.70 Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, for standard cor. of secs. 35 and 36, with brass brabnata weapmarked vevruser thebreqeb ent eanemnos I cor. of Tos. 5 N. Rs. 39 and 40 H. as described in the field notes of T. 3 & R. 40 H., of this group. 'Sa'ch ebutitel ai . noo sint to \$35 \$36 og oingsagoes enT .W '+SG°VII ebutique Inne .W 1932 .do .ost fo .vod .a ent phole entil eurt no .. W'ddfrom which divors Proces A tamarack, 6 ins. diam., bears N. 16 E. 66 lks. dist. marked T 5 N R 39 E S 36 S C B T. Of the St. and A tamarack, 8 ins. diam., bears N. 53°W. 79 lks. bedires bas addist., marked T 5 N R 39 E S 35 S C B T. Land, mountainous. Soil, sandy loam; 3rd rate. Timber, fir, pine, spruce and tamarack. Undergrowth, alder, willow, laurel, huckleberry, mountain ash, fern, salal, syringa, Oregon grape, vinemaple, and buck brush sig revo . Il Irs . seeb of eunitmod ed this and west, on true dine conthers bdy of sec. 35. Asc. 150 ft. over gradual broken SE. slope, through heavy second growth timber and dense undergrowth. Spring branch, 1 lk. wide, course SE. Top of ascent, bears NE. and SW.; thence along gradual S. A slope. M areed . . maid . ani Al . eourge / dist., marked # 5 % of B T. Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for standard & sec. cor., with brass cap marked Continue to desc. St35. Laubers gradual W. slope. 55.80 Spring branch, 2 lksseide, course NW.; continue to des . egola . WH Laubsig Tevo . Jfrom which

bus I. and to A. fir, 44 ins. diam., bears N. 32°E., 113 lks. dist.,

Dependent Resurvey, .1st Stan. Par. N., S. Bdy. T. 5 N., R. 39 E. Chains marked S 35 S C B T. . done d aning 00.10 broken SE. slope. A fir, 30 ins. diam., bears N.33°W., 63 lks. dist. marked & S 35 S C B T. The original standard 4 sec. cor. of sec. 35, determined by reference to the record bearing and distance to the old SE. bearing tree., No trace of other old bearing trees. I now change this cor. to an angle point. At point for cor God Acc Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for angle point, with brass cap marked A fir, 26 ins. qdiAm., bears M.29°E., 106 lks. dist., marked T 395TM6T E S 35 S C B T. . Jair, 8 ins. dism., bears M.649W., 8 lks. anif A .Tabaltan from which . anonisinom . busd A spruce stump, 34 ins. diam., bears S. 15°E., 16 lks. dist., marked S C + S. (Obliterate marks.) (Old ash, huckleberry, Oregon grepe, iern, buck brush and A fir, 12 ins. diam., bears N.422°E., 23 lks. dist. marked A P S 35 B T. (New B. T.) A fir, 24 ins. diam., bears N.67°W., 36 lks. dist., marked A P S 35 B T. (New B. T.) Asc. 145 ft. over SH. slope, through heavy second growth timber and dense undergrowth. Thence S. 88°21'W., continuing measurements. Asc. 49 ft. over gradual SE. slope. Top of ascent, bears NE. and SW.; thence along S. slope. Top of descent, bears NW. and SE.; desc. 51 ft. over SW. 60.00 Set an iron post, 5 ft. long, lin. diam., 27 ins. in the 62.96 The original closing cor. of secs. 2 and 3, T. 4 N., R. 39 E., determined by reference to the record bearing and distance to two of the original bearing trees. At point for cor. Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, for closing cor. of secs. 2 and 3, with brass cap marked

A temerack snag, 40 ins. diam., bears M.65°E., 4

lks. dieg. R39ES, NcTrked S C T 5 N R 59 E S E E E.

(Old B. 65)2 Obliterate marks. . taib . sal fd . Hofes M. Sag. Mersod . Mersog . Til A (.T. . S well) . Ta A A C C C bearsm Holdw mort marked A P S 34 B T. (New B. T.) A fir, 22 ins. diam., bears S.71°W., 44 lks. dist., marks grown over. (Old B. T.) A dead fir, 44 ins. diam., (not pine, 28 ins. diam.) bears N.40°W., 48 lks. dist., marked T 5 N R 39 E S 35 B T. (Old B. T.) Obliterate marks.

A fir, 24 ins. diam., bears S.64°E., 130 lks. dist., marked T 4 N R 39 E S 2 C C B T. (New B. T.)

S. GOVERNMENT PRINTING OFFICE: 1931

4-673 b

Dependent Resurvey. 1st Stan. Par. N. S. Bdy. T. 5 N. R. 39 E. Chains Spring branch, 1 lk. wide, course S.; asc. 115 ft. over broken SE. slope. 78. I5 Dry creek bed, 3 lks. wide, course SW. Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, for standard cor. of secs. 34 and 35, with Builsed brass cap marked on sent guirsed . He blo dnioq elgas as ot SC sint egashe won I S34 S35 Too Tol taioq th set an iron post, 864, long, lin. diam., 27 ins. in the desiran que assud ditiv , inioq eligna tot , boufrom which A fir, 26 ins. diam., bears N.29°E., 106 lks. dist., marked T 5 N R 39 E S 35 S C B T. A fir, 8 ins. diam., bears N.64°W., 8 lks. dist., marked T 5 N R 39 E S 34 S C B T. Land, mountainous. Soil, sandy loam; 3rd rate.

Timber, fir, spruce, tamarack and pine.

Undergrowth, alder, laurel, willow, vinemaple, mountain ash, huckleberry, Oregon grape, fern, buck brush and A fir, 12 ins. diam., bears N. 42g-lal-23 lks. diab. THE STREET IN STAR POLICE S.88°21'W. on true line on S. bdy. of sec. 34. Asc. 145 ft. over SE. slope, through heavy second growth timber and dense undergrowth. The original standard cor. of secs. 34 and 35, determined by reference to the record bearing and distance to the original NE. bearing tree. . egola . I now change this cor. to an angle point of golf od . 88 .We neve At point for cor. bas .WI sased . taseas to gol 00.00 Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for angle point, with brass cap marked 39 M., determined by reference to the record bearing .seer t guirsed Isnigiro ent fra R39E S 34 Too Tol Juliog JA set en tron post, 8096. long, 2 ins. dism., 27 ins. in ditiw , & bas & . soes to . roo gaizolo rot , band & from which A tamarack snag, 40 ins. diam., bears N.65°E., 4 Iks. dist. marked S C T 5 N R 39 E S 35 B T. (Old B. T.) Obliterate marks. A fir, 6 ins. diam., bears N.33% E., 51 lks. dist.. marked A P S 34 B T. (New B. T.) A fir, 12 ins. diam., bears N.11°W., 49 lks. dist.. marked A P S 34 B T. (New B. T.) Thence Wolf. Sans of . maib . ani SS . Til A marks grown over. (01d B. T.) S.89°54'W. continuing measurements. Continue to asc. 42 ft. over SE. slope. Small rounding spur, slopes S.; desc. 138 ft. over SW. slope. 800 S a 1 88 A 1 A 1 Design

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Depende	ent Resurvey, 1st Stan. Par. N., S. Bdy. T. 5 N., R. 39 E.
Chains 18.85	Dry creek bed, 7 lks. wide, course SE.; asc. 426 ft. over E. slope, changing to NE. slope.
36.30 do in	Top of steep ascent, bears NW. and SE.; continue to asc. 43 ft. over gradual E. slope.
	Set an iron post, 3 ft. long, line diam., 20 ins. in the ground to solid rock and in a mound of stone to top, for standard \(\frac{1}{4}\) sec. cor. with brass cap marked S C 1
	80.00 Set an iron post, 3881 long, 2 ins. diam., 27 hoidw mort ground, for standard cor. of secs. 33 and brass cap marked
	A pine, 8 ins. diam., bears N.42°E., 24 lks. dist., marked & S 34 S C B T.
	A fir, 14 ins. diam., bears N.50°W., 43 lks. dist., marked 4 S 34 S C B T.
tein az	Continue over rolling land.
45.17	Spring, on line, drains S.
47.14	The original standard 4 sec. cor. of sec. 34, determined by reference to the record bearing and distance to the original bearing tree.
The state of the s	I now change this cor. to an angle point.
MONG DIES	At point for cor. waredelaboud lales elgem insund
	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for angle point, with brass cap marked
	Asc. 10 ft. over gradus is alope, through heav growth timber amegnatum undergrowth. S 34
Tevo .j	12.00 Flat topped ridge, bears H. and S.; desc. 242 f
0. 30 ft.	So, doing morta tent stream, 2 lks. wide, course S.; as
editai .an bezizen gao	A spruce snag, 36 ins. diam., bears N.13°W., 16 lks. dist., marked S C 4 S B T. (Old B. T.) Obliter-
	A pine, 8 ins. diam., bears N.15°E., 123 lks. dist., marked A P S 34 B T. (New B. T.)
of of the state of	A pine, 9 ins. diam., bears N.32°W., 58 lks. dist., marked A P S 34 B T. (New B. T.)
	S.89°53'W., continuing measurements.
52.55	Spring branch, 1 lk. wide, course NE.; asc. 100 ft. over gradual broken E. slope.
53.60	Same spring branch, 1 lk. wide, course SE.
	Proportionate point for the closing cor. of secs. 3 and 4, T. 4 N., R. 39 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
as in the	Set an iron post, 3 ft. long, lin. diam., 20 i

II. S. GOVERNMENT PRINTING OFFICE: 1931 6-8155

Depend	ent Resurvey of 1st Stan. Par. N., S. Bdy. T. 5 N., R. 39 E.
Chains	T5N R39E
	RA . order: All occurse . S. 34v . bed reserved ds. 81
• 083 00 0	onithos : all bears WM, and SE.; continued to got of steep ascigning and set of the month. Set of the steep ascigning and set of the steep ascigning the steep ascienc
ent ni an	Apine, 9 ins. diam. bears S.31°E. 38 lks. dist., marked T 4 N R 39 E S 3 C C B T.
	A fir, 10 ins. diam., bears S.33°W., 12 lks. dist., marked T 4 N R 39 E S 4 C C B T.
	Continue to asc. 73 ft. over E. slope.
	Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, for standard cor. of secs. 33 and 34, with brass cap marked
	AS A°SA.W. Stand Marked Sold Book Boo
	A pine, 8 ins. diam., bears N.56°E., 75 lks. dist.
	marked T 5 N R 39 E S 34 S C B T MILITAR TILLED
Denimaete dont of es	A pine, ll ins. diam., bears N.61°W., 23 lks. dist., marked T 5 N R 39 E S 33 S C B T.
	Land, mountainous. Soil, sandy loam, 3rd rate. Timber, fir, spruce, pine and tamarack. Undergrowth, alder, mountain ash, laurel, willow, vine- maple, salal, huckleberry, fern, Oregon grape and buck brush.
ordinat .ar	S.89°53'W., on true line on the S. bdy. of sec. 33.
	Asc. 10 ft. over gradual E. slope, through heavy second growth timber and dense undergrowth.
12.00	Flat topped ridge, bears N. and S.; desc. 242 ft. over gradual W. slope.
	Intermittent stream, 2 lks. wide, course S.; asc. 30 ft. over E. slope.
40.00	Set an iron post, 3 ft. long, lin. diam., 27 ins. in the ground, for standard 4 sec. cor., with brass cap marked
	CSI . Hogi. N arsed . The State of A bears of A bears of Total (New B. T.)
e daib .e.	186 . Wess. Mersed . meis . enice . eniq A from which
	A tamarack, 30 ins. diam. bears N.7°E., 70 lks. dist., marked 4 S 33 S C B T.
	A pine, 6 ins. diam., bears N.14°W., 60 lks. dist., marked & S 33 S C B T. Moo . W Co 88.
0 VO * 11	Continue to asc. 147 ft. over E. slope.
46.60	Dirt road, bears N. and S., on ridge, bears N. and S.; continue over rolling land.
47.49	The original standard 4 sec. cor. of sec. 33, determined by reference to the record bearings and distances to the original bearing trees.
edini. en	I now change this cor. to an angle point.
Baard A	At point for cor. to some some for this gent and the form of the f
	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,

U. S. GOVERNMENT PRINTING OFFICE: 1934 G-8155

Dependent Resurvey, 1st Stan. Par. N., S. Bdy. T. 5 N., R. 39 E. Chains for angle point, with brass cap marked ... Desc. 50 ft. over W. 4s Appe, through heavy second growth timber and dens 38 R3 NoTrowth. 1932 forms M. and Sier 00.8 shoid mort, alks, wide, course s.; asc. 10 ft. over E. slope bears S. 6 E. 14 lks. of assistatio by dist., no marks. (Old B. T.) A fir, 22 ins. diam., bears N.12°W., 68 lks. dist., marked SC & SBT. I alter marks to read APS 33 B.T. (Old B. T.) At point for cor. A fir, 12 ins. diam., bears N.69°E., 24 lks. dist., end mi .ani vs ... marked A P S 33 B T. (New B. T.) ns dec ground, for angle point, with brass cap marked Thence S.89°45'W., continuing measurements. Desc. 270 ft. over W. slope. 63.37 Proportionate point for the closing cor. of secs. 4 and 5, T. 4 N., R. 39 E. A spruce snag, 18 ins. diam., bears W. 18°E., 17 18s. Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, for closing cor. of secs. 4 and 5, with 14 . Wess brass cap marked and As amuta esurga A TES. dist., marked S C T 5 M R 39 E 8 R . Jaib . eall T5N R39E 5 510) TS . Hove a areed . meib .ani as 5 5 8 4 eourge A (.T. a blo) .aziram T4N R39Eb .azil A pine, 7 1801 diem., bears W. 50°E., 55 1932 7 , eniq A (.T . a well) .T a sa a a a bearsm from which . Afir, 24 ins. diam., bears S. 85°E., 28 lks. dist. marked T 4 S R 39 E S 4 C C B T. . and A fir, 16 ins. diam., bears S. 86 W., 302 lks. dist., marked T 4 S R 39 E S 5 C C B T. eemen' Continue to desc. 282 ft. over W. slope. B.89°41'W. continuing measurements. Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in 80.00 the ground, for standard cor. of secs. 32 and 33, with brass cap marked 22.10 Small flat topped spur, slopes 8.; desc. 10 ft. over W. . edors T5N R39E Revo . 11 Or . sas ; . 2 saruos . . 832 S & . bed leere vru Od. 38 . egole .h 1932 40.45 iron post, 5 ft. long, diam., 27 ins the ground, for standard a sec. cor., with brass cap marked A pine, 7 ins. diam., bears N.26°E., 83 lks. dist. marked T 5 N R 39 E S 33 S C B T. A pine, 10 ins. diam., bears N.25°W., 106 lks. dist., marked T 5 N R 39 E S 32 S C B T. from which Land. mountainous. Soil, sandy loam; 3rd rate. and Of , said A Timber, fir, pine, spruce and tamarack. Undergrowth, alder, mountain ash, laurel, willow, salal, ... Oregon grape, fern, vinemaple, buck brush and huckleberry. Tabassa & Bearsm

II. S. GOVERNMENT PRINTING OFFICE: 1931

Dependent Resurvey, 1st Stan. Par. N., S. Bdy. T. 5 N., R. 39 E. Chains S.89°45'W., on true line on the S. bdy. of sec. 32. Desc. 30 ft. over W. slope, through heavy second growth timber and dense undergrowth. Trail, bears N. and S. 5.60 Creek, 3 lks. wide, course S.; asc. 10 ft. over E. slope. · 7.62 The original standard cor. of secs. 32 and 33, determined by reference to the record bearings and distances to the old bearing trees. ateib .ani 88 .Wesi. Marsed .msib .ani 88 .Tit A I now change this cor. to an angle point. Lal ad DiUla Tad GG Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for angle point, with brass cap marked . stnemerusserT5N R39Enco . W'dles. a S 32 Desc. 270 ft. over W. slope 1932 68 do mortronate point for the closing cor, of sees. 4 and A spruce snag, 18 ins. diam., bears N. 18°E., 17 lks. . and TS . . marked S C T 5 N R 39 E S 32 B T. (Old B. T.) the ground, for elosing cor, of sees. 4 and 5, with A spruce stump, 34 ins. diam., bears N.32°W., 41 lks. dist., marked S C T 5 N R 39 E S 32 B T. (Old B. T.) Id A spruce stump, 26 ins. diam., bears S.67°E., 27 lks. dist., no marks. (Old B. T.) A pine, 7 ins. diam., bears N.30°E., 35 lks. dist. marked A P S 32 B T. (New B. T.) . A fir, 14 ins. diam., bears N. 36°W., 46 lks. dist. . marked A P S 32 B T. (New B. T.) . Obliterate the marks on the old original bearing trees. Thence Continue to desc. 288 ft. over W. stope. S.89°41'W., continuing measurements. oi .ani rs an iron post, 3 ft. Long, 2 ins. diam., 27 ins. in Continue to asc. 47 ft. over E. slope. add Small flat topped spur, slopes S.; desc. 10 ft. over W. slope. Dry creek bed, 3 lks. Wide, course S.; asc. 70 ft. over E. slope. 40.00 Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for standard 4 sec. cor., with brass cap marked A pine, Vine. diem., beers W.26°E., 85 les. dist. TEDESECTE SICIE T beatem A pine, 10 ins. diem., bears M. 25°W., 106 lks. THE DASS BEREE HIR 1932 TEM .. Jeib from which Land, mountainous. A pine, 10 ins. diam., bears N.62ºE. 274 lks. dist., marked 2 Sr32 Sect B Tail , reduit Undergrowth, alder, mountain ash, laurel, willow, salal - eldoud bas da Arpine, 7, ins. diam. bears N. 55 W., e 131 lks. dist. marked IS 32 S C B T.

U. S. GOVERNMENT PRINTING OFFICE: 1931

4-6730

Continue to desc. 350 ft. over NW. slope.

marked T 4 N R 39 E S 6 C C B T.

A fir, 8 ins. diam., bears S. 48°W., 43 lks. dist.,

Dependent Resurvey, 1st Stan. Par. N., S., Bdy. T. 51N., R. 39 E.

Chains 80.00

Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, for standard cor. of secs. 31 and 32, with brass cap marked bus. M arsed , enil enongelet el.c.

. Wa bus Sycarsed , been enilyze O4.64 47.80 The original stan SE2 152 sec. cor. of sec. 32, determined

by reference to the record bearings and distances to the old bearing trees 201

from which

"A fir, 14 ins. diam., bears N.27°E., 51 lks. dist., marked T 5 N R 39 E S 32 S C B T. OC +

Afir, 28 ins. diam. bears N.81 W., 265 lks. dist., marked T.5 N R 39 E S 31 S C B T.

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

(i N.89°47'W., on true line on the S. bdy. of sec. 31.

Desc. 130 ft. over NW. slope, through heavy timber and a dense undergrowth. Design and a self and

Ravine, course N.; asc. 31 ft. over NE. slope.

8.10 The original standard cor. of secs. 31 and 32, determined by reference to the record bearings and distances to the original bearing trees. The enice A

I now change this cor. to an angle point.

At point for cor.

Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for angle point, with brass cap marked

DR.00 Bottom of slope ToN R39E Ton R39E GOODS SECOND BOOKS S 31

57.30 Ridge, bears M. 20°E, and S. 20°W.; desc. 116 ft. over

from which

Phence

- A fir snag, 10 ins. diam., bears N. 59°E., 18 lks. dist., marked S C T 5 N R 39 E S 32 B T. (Old Set an iron post, 5 ft. long, 2 inst. Sam. 27 ins. in
 - A fir stump, 6 ins. diam., bears S. 12°E., 30 lks. dist. no marks. (Old B. T.)
 - A fallen fir snag, 25 ins. diam., bears N.38°W. 24 lks. dist., marked S C T 5 N R 39 E S 31 B T. (Old B. T.)
 - A fir, 8 ins. diam., bears N.33°E., 38 lks. dist. marked A PS 31 BT. (New B. T.)

A fir, 12 ins. diam., bears N.62°W., 56 lks. dist., marked A P S 31 B T. (New B. T.)

Obliterate the marks on old original bearing trees. Thence .T & O O a & B & S A M A T bearsm

Continue to desc. 350 ft. over NW. slope.

Depend	ent Resurvey, .lst Stan. Par. N., S. Bdy. T. 5 N., R. 39 E.
Chains	
de, course	S.89°28'W., continuing measurements.
de de ales 🐞 Callabada ales	Spur, slopes NW.; desc. 750 ft. over W. slope, changing to NW. slope. 3001 . The dead not as december of bases and bases and bases of bases of bases and
40.00	Set an iron post, 3 ft. long, 1 in. diam., 6 ins. in the ground to solid rock and in a mound of stone to top, for standard \(\frac{1}{4}\) sec. cor., with brass cap marked
	SECIA S C SECIA S 31
	101 Hook. Marsed maib. dism. bears M. 30°E., 101. marked L 8 8 8 L B T.
	A fir, 6 ins. diam., bears N.51°E., 44 lks. dist., marked 4 S 31 S C B T.
	A fir, 20 ins. diam., bears N.16 W., 33 lks. dist., marked 1 S 31 S C B T.
	Continue to desc. 161 ft. over NW. slope.
48.36	The original standard 4 sec. cor. of sec. 31, which is a basalt stone, 20x10x6 ins., firmly set, marked S C 4 on N. face.
dota	I now change this cor. to an angle point.
e. deib .en	At point for cor.
e dath and	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 angle point, with brass cap marked
	This is the original continues as the original continues and the continues as the continues of the contract Mo. 2501, in 1879. Mufus S. under contract Mo. 2501 in 1882.
	*SHOULSTINOM , DISH
essor vara	A yellow pine, stump, 44 ins. diam., bears N.20°E., 10 lks. dist., marked S C & S B T. (Old B. T.)
	A yellow pine snag, 20 ins. diam., bears S.70°E., 162 lks. dist., marked S C 4 S B T. (Old B. T.)
	A pine, 8 ins. diam., bears N.32°E., 71 lks. dist., marked A P S 31 B T. (New B. T.)
the same of the same of the same of the	A pine, 22 ins. diam., bears N.52.W., 71 lks. dist., marked A P.S 31 B T. (New B. T.)
	Obliterate the marks on the old cor. stone and on the old bearing trees.
	Thence is seed and the line bet. sees. 51 and.
	N.89°50'W., continuing measurements. I do II.81 do .01
	Continue to desc. 264 ft. over SW. slope.
61.60	Spur, slopes SW.; continue to desc. 354 ft. over NW. slope.
	Ravine, course NW.; asc. 36 ft. over NE. slope. 80.08
74.70	Spur, slopes N.; desc. 68 ft. over NW. slope.
76.68	South Fork of the Walla Walla River Trail, bears NE. and

II. S. GOVERNMENT PRINTING OFFICE: 1931 6-8155

Depend	ent Resurvey, 1st Stan. Par. N., S. Bdy. T. 5 N., R. 39 E.
	South Fork of the Walla Walla River, 30 lks. wide, course SW.; asc. 50 ft. over SE. slope.
	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 core of lots 7 and 8, with brass cap marked one anota to become and bus door blues of based of
	from which
	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
	w.18.39 in .709 .298 brabmata lanigiro enT 38.84 extra Jone N. 100 N. 1888d R.39 E S 31 on E., and st. W R 38 E S 36 on W. side.
	.tnioq elgas as of . roo sidt egaste won I 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 a sec. cor. '0008.
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 4 sec. cor. Set temp.
80.02	Intersect the cor. of secs. 19, 24, 25, and 30.
	North, retracing bet. secs. 19 and 24. 18 . Tuge 67. 27
bors alli	76.68 South Fork of the Walla Walla River Trail, bears

U. S. GOVERNMENT PRINTING OFFICE: 1934 G-8155

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 delor steeper slopes is very rocky. This soil produces and 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, The east half of the township drains into the South

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

Bone Springs Lookout Station is located near the south centeral 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°30'E. for the mean magnetic declination. There is a range of 5° in local attraction.

Aug. 15, 1935: in camp located near the cor. of secs.
4, 5, 8, and 9, at 8h 00m a.m., app. t., I set of 45°
56'N., on the lat. arc; 14°51'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 00m p.m., app. t., I set off 45°56'N., on the

lat. are; l4°45'N., on the decl. are; and repeat the test of the solar; the Line of sight saress with the meridian established by Polaria observation.

4-680 (August, 1926)

FIELD ASSISTANTS.

<u>Fo</u>	r 1932.
Leonel R. Davidson	Principal assistant.
Richard Ganong	Chainman.
Carl Gould	Truckdriver and axeman.
Vorman Prendergast	Axeman.
Iarold Gould	Cornerman.
len Johnson	Axeman. 1935.
John C. Greiner	Principal assistant.
Victor Miller	Chainman.
Paul Jelley	Axeman.
Robert Coffman	Axeman.
Edward Graves	Cornerman.
George Dawson	Truckdriver and chainman
	foregoing field notes of the signification.
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and semilar, main in the national	

menter minimum terminal and the best of the color of the

ecolles eith ai dill an eodds lessigito odd moth beigno chromiscael ead

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 Instruc-
tions, and the laws of the United States, surveyed all those parts or portions ofthe dependent
resurvey of 1st stan. par. N., S. bdyl 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 subdivis-
ion of township 5 north, range 39 east.
of the <u>Willamette</u>
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 Instruc-
tions, and the special written instructions of the District Cadastral Engineer forOregon.
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. II S. Trancitmon II S. Surveyor.
U. S. Transitman.
APPROVAL.
OFFICE OF U. S. SUPERVISOR OF SURVEYS,
Office of U. S. Supervisor of Surveys,
OFFICE OF U. S. SUPERVISOR OF SURVEYS, DENVER, COLORADO MAR 3 0 1936, 19
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