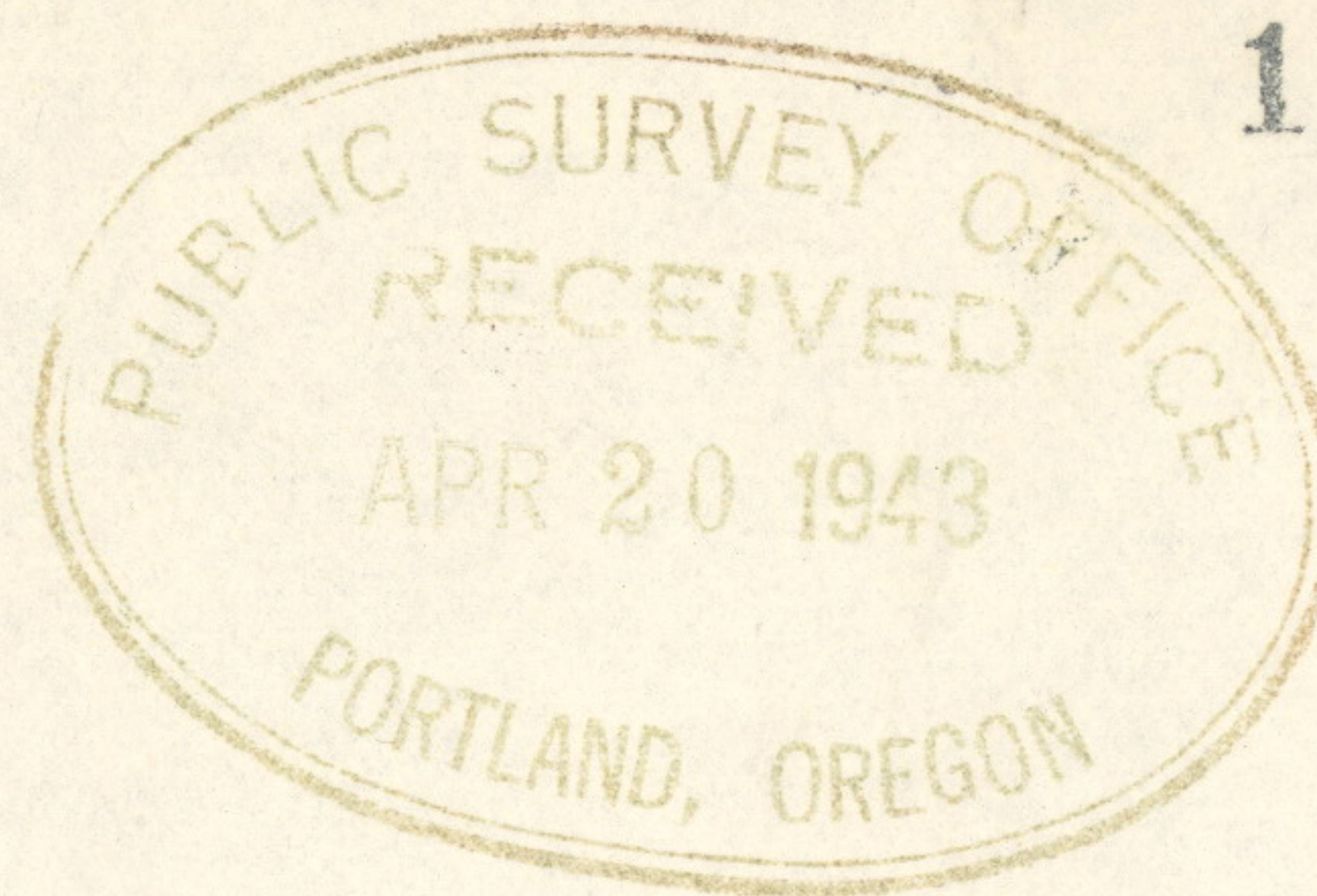


A
UNITED STATES
DEPARTMENT OF THE INTERIOR
GENERAL LAND OFFICE



FIELD NOTES

OF THE

DEPENDENT RESURVEY AND EXTENSION OF LINE BET. SECS. 8 AND 9,

AND

SURVEY OF AN ISLAND AND ITS ACCRETION IN SECTIONS 8 AND 9

IN

TOWNSHIP 5 NORTH, RANGE 28 EAST

Of the WILLAMETTE Meridian,

In the State of OREGON

EXECUTED BY

NORMAN D. PRICE, Associate Cadastral Engineer,

Under special instructions dated April 3, 1943, which provided
for the surveys included under Group No. 278, bearing the approval of the
Commissioner of the General Land Office under date of April 8, 1943,
and assignment instructions dated April 5, 1943.

Original

Survey commenced April 7, 1943.

Survey completed April 11, 1943.

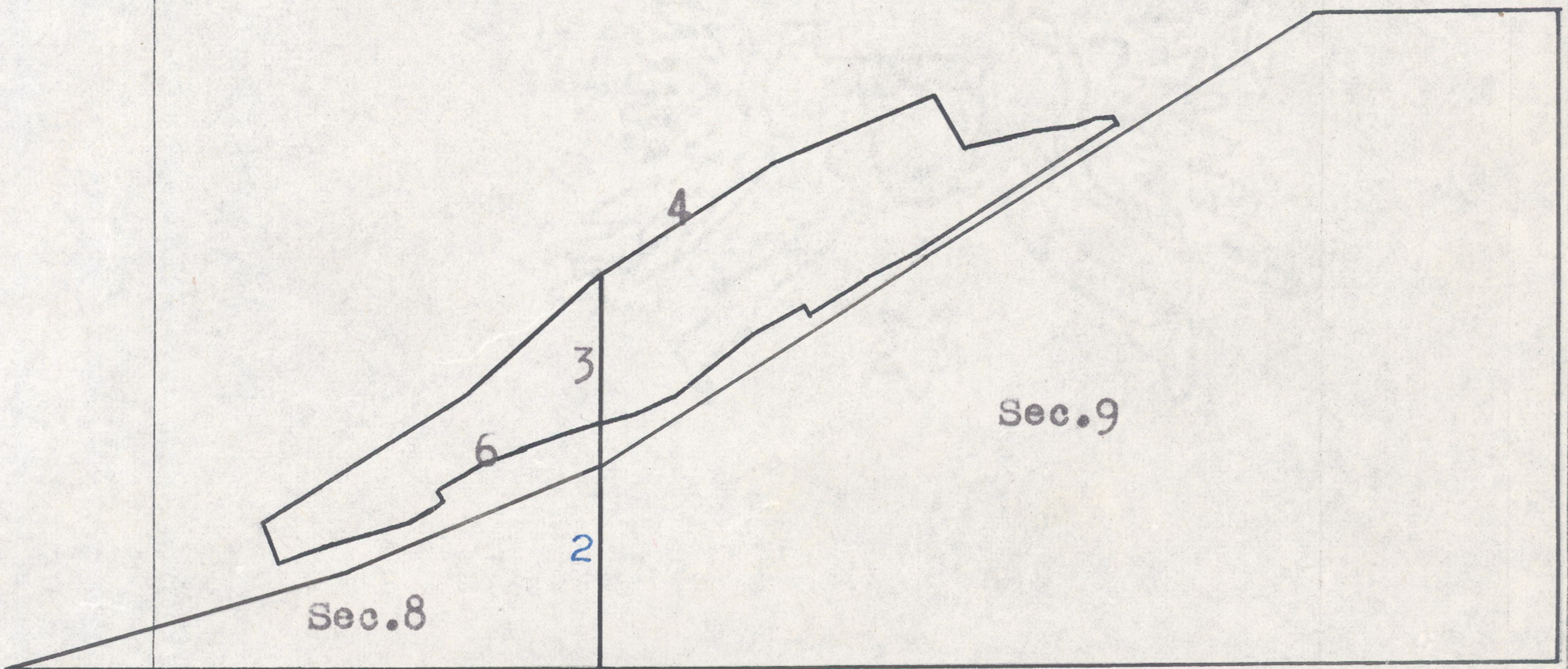
INDEX DIAGRAM.

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 5 NORTH, RANGE 28 EAST.



Resurveys are indexed in blue.

Original surveys are indexed in black.

Township 5 North, Range 28 East.

These surveys in township 5 north, range 28 east, were executed with a light mountain solar transit made by Buff and Buff, Serial No. 17998, 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 two double opposite verniers reading to single minutes; the vertical circle has a diameter of 4 ins., with one double vernier reading to single minutes; the telescope has fixed stadia wires, ratio 1:132, with a focal constant of 1.2 lks. The instrument is equipped with the improved Smith solar attachment; radius of latitude arc $2\frac{1}{2}$ ins., and of declination arc $3\frac{1}{2}$ ins., each with verniers reading to single minutes. The instrument was in good condition, and having been placed in satisfactory adjustment prior to beginning the survey, and tested and found free from appreciable error, was approved by the district cadastral engineer on April 5, 1943. I examined all the instrumental adjustments before making the field tests hereinafter recorded.

The directions of the lines were determined from the true meridian, established by direct solar observation and carried forward by deflection angles and back and fore sight methods. 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 give the geographic position for the cor. of secs. 8, 9, 16, and 17 of T. 5 N., R. 28 E., as follows: latitude $45^{\circ} 55\frac{1}{2}'$ N., and longitude $119^{\circ} 20'$ W.

April 7, 1943, at the cor. of secs. 8, 9, 16, and 17, T. 5 N., R. 28 E., 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-----	50° 49' 00"
Reduced latitude-----	45° 55' 19"
Mean watch time of observation-----	12h 59m 36s
Watch fast of l.m.t.-----	57m 20s
Same, by reference to radio time signals and calculated difference in longitude-----	57m 20s

At the same station at 3h 22m p.m., app.t., I make a series of three altitude observations upon the sun for azimuth, as follows: three observations of the sun's right and lower limbs, with telescope in direct position, then, after reversal of the instrument, three observations of the sun's left and upper limbs. The first and sixth observations are combined for one series, the second and fifth observations are combined for another series, and the third and fourth observations are combined for another series. The time of the first and sixth observations, being the mean time of the entire series, is observed and used in determination of the sun's declination. The horizontal deflection angle is read from the epi or finial ornament on a Union Pacific System Railroad water tank about 20 chains to the south, SW. to the sun.

Township 5 North, Range 28 East.

Tele- scope	Sun Time	Vert. Angle	Hor. Angle	Vert. Angle	Hor. Angle	Vert. Angle	Hor. Angle
Direct	4 3:19	31°35'	62°00'	31°29'	62°07'	31°24'	62°16'
Reverse	5 3:25	31°28'	62°23'	31°32'	62°16'	31°38'	62°08'
Mean	3:22	31°31½'	62°11½'	31°30½'	62°11½'	31°31'	62°12'

By 1st obsn. epi bears S. 2° 06' 07" W.

By 2nd obsn. epi bears S. 2° 07' 30" W.

By 3rd obsn. epi bears S. 2° 06' 21" W.

Mean true bearing of epi--S. 2° 06' 39" W.

The observed magnetic declination is 21° 45' E.

Dependent Resurvey of Part of the Subdivision of
T. 5 N., R. 28 E.

"Reestablishment of the survey executed by Timothy W.
Davenport, Deputy Surveyor, in 1861."

Chains.

Preliminary to the resurvey all lines are retraced and careful search is made for all original corners. Identified corners are rehabilitated in their original positions and all lost corners are reestablished by proportionate or record measurement based on the official record of the original survey. The retracement data are thoroughly verified and in the interest of simplicity only the true line notes are shown herein.

I commence the dependent resurvey at the cor. of secs. 8, 9, 16, and 17, the locus of which has been preserved by local settlers and various county engineers of Umatilla County by driving a galvanized iron pipe, 3 ft. long, 2 ins. diam., at the point once occupied by the original wooden corner stake of which no evidence remains.

At point for corner,

Set an iron post, 3 ft. long, 2 ins. diam., 30 ins. in the ground, with the iron pipe and broken glass deposited at the base, for cor. of secs. 8, 9, 16, and 17, with brass cap mkd.

T5N R28E

S8 | S9

S17 | S16

1943

raise a mound
of stone, 2 ft. base, 1½ ft. high, W. of cor.

The geographic position of this corner is latitude
45° 55½' N., and longitude 119° 20' W.

Thence

North, record bearing, bet. secs. 8 and 9.

Over gently rolling land, through dense sagebrush.

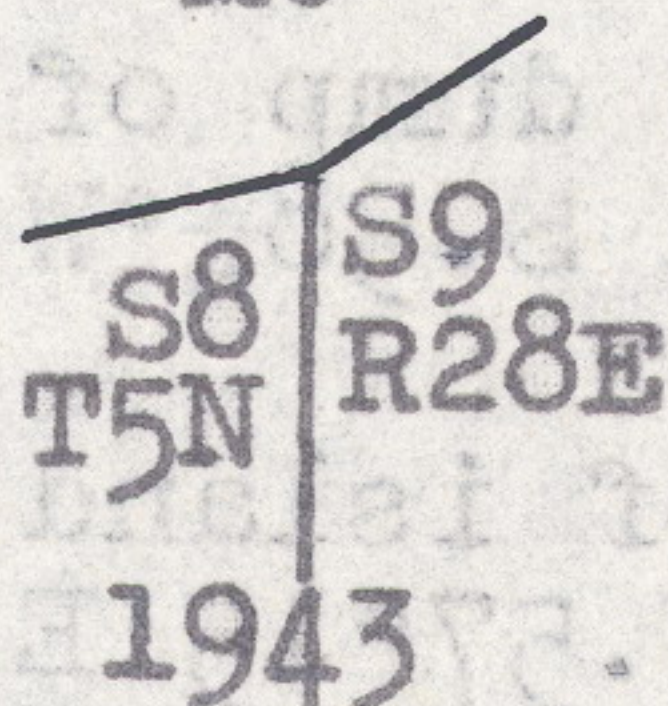
0.42 Center of a graded and graveled county road, bears N.75°E.
and S.75°W.

5.50 A power line, bears N.0°18'E. and S.0°18'W.

Dependent Resurvey of Part of the Subdivision of T. 5 N., R. 28 E.

- Chains. 12.60 Top of a sloping bank, bears N.63°E. and S.63°W.; desc. 27 ft. over rolling N. slope.
- 15.70 A power line, bears N.23½°W. and S.23½°E.
- 16.00 Enter level bottom land and heavy timber and dense undergrowth, bears N.63°E. and S.63°W.
- 17.50 Record measurement.
Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, for meander cor. of frac. secs. 8 and 9, with brass cap mkd.

MC



from which

- A boxelder, 5 ins. diam., bears S.27¼°E., 124 lks. dist., mkd. T 5 N R 28 E S 9 M C B T.
- A cottonwood, 5 ins. diam., bears S.11¼°W., 170 lks. dist., mkd. T 5 N R 28 E S 8 M C B T.

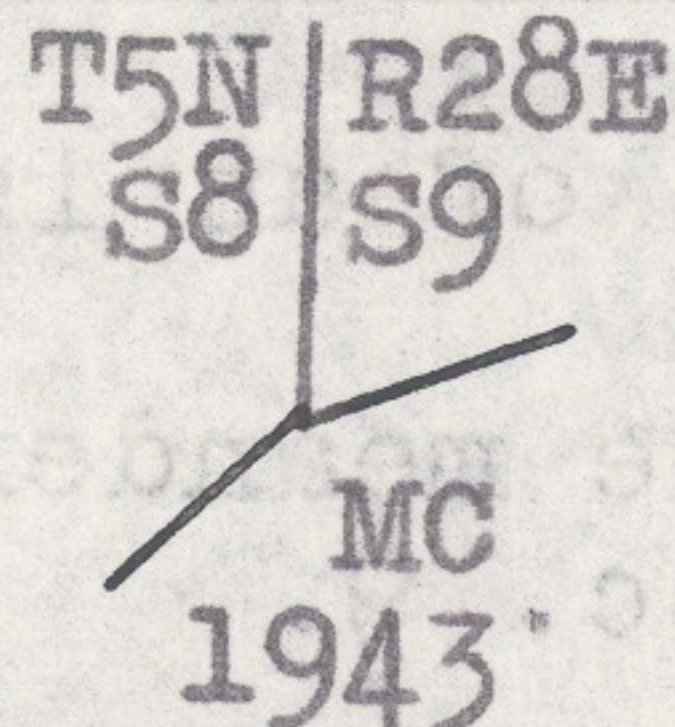
Land, rolling and level.
Soil, sandy loam and alluvial silt; 1st rate.
Timber, willow, cottonwood, and boxelder.
Undergrowth, sagebrush and small willows.

Subdivision of T. 5 N., R. 28 E.

In order to survey an island in the Columbia River, I begin at the meander cor. of frac. secs. 8 and 9, on the mainland, heretofore described, and extend the section line

North, bet. secs. 8 and 9.
Over level bottom land, through heavy timber and dense undergrowth.

- 1.08 A cut bank, 5 ft. high, and edge of water in slough, bears N.58°E. and S.67°W.; thence over water by direct steel tape measurement.
- 3.80 The SE. bank of island at mean high water elevation; the bank of the island bears N.73°15'E. and S.59°W.
Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for meander cor. of frac. secs. 8 and 9, with brass cap mkd.

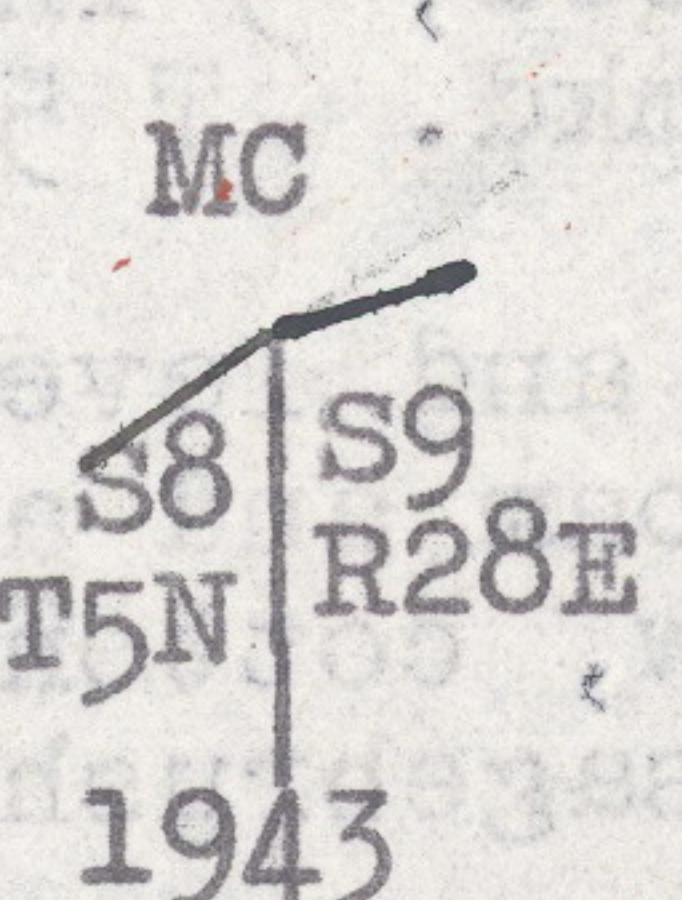
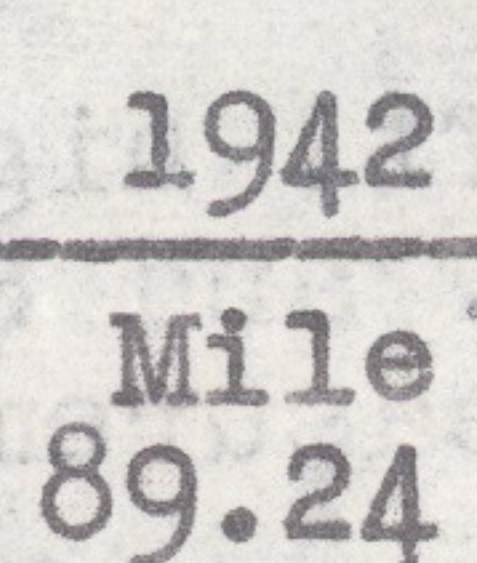


from which

- A willow, 9 ins. diam., bears N.4½°E., 102 lks. dist., mkd. T 5 N R 28 E S 9 M C B T.
- A willow, 7 ins. diam., bears N.48½°W., 101 lks. dist., mkd. T 5 N R 28 E S 8 M C B T.

Thence across a gently sloping gravelly island, through

Subdivision of T. 5 N., R. 28 E.

Chains.	
	heavy timber and dense undergrowth.
5.30	Leave heavy timber and dense undergrowth, bears N.60°E. and S.60°W.; thence over almost barren land.
9.30	An ungraded road and telephone line, bears N.66°E. and S.66°W. This road and telephone line are both temporary installations. This ungraded road is an extension from the end of a graded and graveled road constructed by Umatilla County to provide access to this island.
10.31	Enter gasoline dump of Inland Navigation Company, bears N.58½°E. and S.58½°W.
13.31	Leave gasoline dump of Inland Navigation Company, bears N.58½°E. and S.58½°W.
15.77	The NW. bank of island at mean high water elevation; the bank bears N.57°15'E. and S.47°08'W.
	Set an iron post, 3 ft. long, 1 in. diam., imbedded in a cylindrical concrete form 30 ins. long to top, 12 ins. diam., 30 ins. in the ground, for meander cor. of frac. secs. 8 and 9, with brass cap mkd.
	
	raise a mound of stone, 3 ft. base, 2 ft. high, S. of cor.
	From this point a bench mark and mileage control station of the Corps of Engineers, United States Army, the published elevation of which is 265.57 feet above mean sea level, the station of which is designated 89.24 mile, bears N.70°07'E., 16.29 chs. dist.; a brass tablet, 3½ ins. diam., seated in a concrete form, 12 ins. square, flush with surface of ground, at E. side of NE. footing for tower of Pacific Power and Light Company's power transmission line crossing the Columbia River. The top of this brass tablet is marked as follows:
	
	Land, gently sloping.
	Soil; alluvial silt S. of slough, 1st rate; an aggregate of gravel, boulders, and sand on island, 3d and 4th rate.
	Timber; willow and cottonwood.
	Undergrowth, small willows and young sagebrush.
	Meanders of an island in the Columbia River.
	Thence with the meanders of an island in the Columbia River, in sec. 9.
	Along an almost barren gravelly beach.
	N.57°15'E., 17.20 chs. At 16.55 chs. Pacific Power and Light Company's power transmission line crossing the Columbia River.
	N.67°00'E., 14.60 chs.

Subdivision of T. 5 N., R. 28 E.

Chains.

S.34°15'E., 4.90 chs. At 4.40 chs. a new channel, 20 lks. wide, being cut through island by Columbia River; at end of course, enter heavy timber and dense undergrowth, bears NE. and SW.

N.76°15'E., 5.50 chs.

N.83°30'E., 3.90 chs. At 1.70 chs. a beaver lodge bears south, 10 lks. dist.

N.61°30'E., 1.20 chs.

S.71°34'E., 1.96 chs. At end of course, the upper, or east end of island, where I terminate my survey of meanders of the island and commence the survey of accretion.

S.32°09'E., 0.40 chs. On radial line of accretion. At end of course, center of old channel. I designate this point angle point No.1.

Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, for angle point No.1, with brass cap mkd.

AP1

T5N R28E
S9
1943

from which

A willow, 8 ins. diam., bears N.15½°E., 57 lks. dist., mkd. A P 1 S 9 B T.

A willow, 8 ins. diam., bears N.77°W., 29 lks. dist., mkd. A P 1 S 9 B T.

S.57°51'W., 20.00 chs. On center of old channel. At end of course, set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, for angle point No.2, with brass cap mkd.

AP2

T5N R28E
S9
1943

from which

A willow, 8 ins. diam., bears S.46½°W., 261 lks. dist., mkd. A P 2 S 9 B T.

A willow, 9 ins. diam., bears N.44½°W., 47 lks. dist., mkd. A P 2 S 9 B T.

S.64°40'W., 5.05 chs. On center of old channel. At end of course, set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, for angle point No.3, with brass cap mkd.

Subdivision of T. 5 N., R. 28 E.

Chains.

AP3

T5N R28E
S9
1943

from which

A willow, 12 ins. diam., bears
S.77³/₄°E., 82 lks. dist., mkd.
A P 3 S 9 B T.

A willow, 12 ins. diam., bears
S.60¹/₂°E., 126 lks. dist., mkd.
A P 3 S 9 B T.

S.55°53'W., 5.81 chs. On center of old channel. At 2.28
chs. a telephone line, bears
N.30°W. and S.15°E.; at 2.50 chs.
a graded and graveled road on a
fill, 6 ft. high, bears N.30°W.
and S.15°E.; at 4.63 chs. a power
line of Pacific Power and Light
Company, bears N.17¹/₂°W. and
S.17¹/₂°E. At end of course, set an
iron post, 3 ft. long, 1 in. diam.,
28 ins. in the ground, for angle
point No.4, with brass cap mkd.

AP4

T5N R28E
S9
1943

from which

A willow, 6 ins. diam., bears
S.56°E., 17 lks. dist., mkd.
A P 4 S 9 B T.

A willow, 6 ins. diam., bears
N.1¹/₂°W., 49 lks. dist., mkd.
A P 4 S 9 B T.

N.33°07'W., 1.01 chs. On radial line of accretion at up-
per, or east, end of slough, where
at end of course, I terminate my
survey of accretion and continue
the survey of meanders of island.

S.67°00'W., 5.60 chs. Along the top of a well defined
bank, from 2 to 5 ft. in height.

S.50°30'W., 7.30 chs.

S.63°45'W., 3.60 chs.

S.73°15'W., 2.25 chs. The meander cor. of frac. secs. 8
and 9, on SE. bank of island.

Land, gently rolling and level.
Soil, alluvial silt, 1st rate; and stony 3d rate.
Timber, willow, cottonwood, boxelder, and osageorange.
Undergrowth, small willows and briars.

Thence in sec. 8.

Subdivision of T. 5 N., R. 28 E.

Chains.

Along the top of a well defined bank from 2 to 4 ft. in height, through heavy timber and dense undergrowth.

S.59°00'W., 1.20 chs.

S.70°00'W., 10.40 chs. At 1.00 ch. a power line, bears N.30°W. and S.30°E.

S.57°15'W., 4.60 chs.

S.26°45'E., 1.30 chs.

S.40°15'W., 1.40 chs. At end of course, a beaver dam extends across slough.

S.63°15'W., 1.90 chs.

S.75°30'W., 5.90 chs.

S.62°15'W., 2.30 chs.

S.71°00'W., 3.70 chs. On this course the bank gradually decreases in height and becomes a gravelly beach.

N.25°00'W., 3.00 chs. At end of course, the lower, or west, end of island.

N.56°30'E., 19.60 chs. At 1.00 ch. leave heavy timber and dense undergrowth, bears N. and S.; thence over an open gravelly beach.

N.47°08'E., 17.55 chs. At 10.67 chs. a pipe line, bears NW. and SE. At end of course, the meander cor. of frac. secs. 8 and 9, and place of beginning.

Land, level and rolling.

Soil, sandy loam, 1st rate; and stony, 3d and 4th rate.

Timber, willow and cottonwood.

Undergrowth, small willows and briars.

GENERAL DESCRIPTION.

This island is gently sloping with a difference in elevation of approximately ten feet. The basic formation is an aggregate of gravel, boulders, and sand. The island and its accretion are partly covered with a growth of willow, cottonwood, boxelder, and osageorange trees with an undergrowth of small willows and briars.

The Inland Navigation Company of Port Terminal No.1, Post Office Box 831, Vancouver, Washington, has a gasoline dump practically completed on the highest part of this island. This gasoline dump consists of fifteen cylindrical steel storage tanks about forty two feet high and thirty seven feet in diameter with a total combined capacity of about five million gallons. The layout has been made for the construction of three houses about five chains distant upstream from the storage tanks. A power line, telephone line, and a county road have been built to this gasoline dump.

The Pacific Power and Light Company has constructed an electric power transmission line across this island. One of the high towers for the power line crossing of the Columbia River is found on this island.

CERTIFICATE OF SURVEYOR

I, Norman D. Price, Associate Cadastral Engr. HEREBY CERTIFY upon honor that, in pursuance of special instructions bearing date of the 3d day of April 1943, received from the district cadastral engineer for Oregon, with assignment instructions dated April 5, 1943, I have ~~surveyed~~ independently resurveyed and extended the line bet. secs. 8 and 9, and surveyed an island and its accretion in secs. 8 and 9 in T. 5 N., R. 28 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.
April 19, 1943.

Norman D. Price
Norman D. Price,
Associate Cadastral Engineer.

CERTIFICATE OF APPROVAL

OFFICE OF SUPERVISOR OF SURVEYS,

-Denver, Colorado, June 19, 1943.

The foregoing field notes of the ~~survey of~~ dependent resurvey and extension of the line bet. secs. 8 and 9, and survey of an island and its accretion in secs. 8 and 9 in T. 5 N., R. 28 E. of the Willamette Meridian, Oregon

executed by Norman D. Price, Associate Cadastral Engineer, under special instructions dated April 3, 1943, and assignment instructions dated April 5, 1943, 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.

Russell K. Allen
Acting Assistant 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.

Supervisor of Surveys.