I

Oaths for I and "J"

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CERTIFICATE OF ASSISTANTS.

We, the undersigned, hereby certify upon honor that we assisted, to the best of our skill and ability, Joseph A. Ganong Transitman, G.L.O. ~~U. S. Surveyor~~, during the periods and in the capacities stated opposite our several signatures, in surveying all those parts or portions of Meanders of Meridith and Switzler Islands, also small Island, and Extension Subdivision of Tps. 5 and 6 N., R. 30 E.

of the Willamette Meridian, in the State of Oregon which are represented in the foregoing field notes as having been executed by him, and under his direction; and that said survey has been, in all respects, to the best of our knowledge and belief, well and faithfully executed.

NAME.	PERIOD OF SERVICE.		CAPACITY.
	BEGUN.	ENDED.	
Harry Gray	Dec. 5, 1913	Dec. 9, 1913	Head Chainman
L. F. Harding	Dec. 5, 1913	Dec. 9, 1913.	Rear Chainman

Subscribed and certified to before me on the dates of the final service as shown above.

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Joseph A. Ganong
~~U. S. Surveyor.~~
Transitman, G.L.O.

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Put in Book A

FINAL OATH OF UNITED STATES SURVEYOR.

I, Joseph A. Ganong, Transitman, G.L.O. ~~U. S. Surveyor~~, do solemnly swear that, in pursuance of special instructions received from the U. S. Surveyor General for Oregon bearing date of the 19th day of May, 1913, I have well, faithfully, and truly, in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the Meanders of Switzler and Meridith Islands also small Island in Tps. 5&6 N., R. 30 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 I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the U. S. Surveyor General for Oregon and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

Joseph A. Ganong,
Transitman, G.L.O. ~~U. S. Surveyor~~.

Subscribed by said Joseph A. Ganong, and sworn to before me this 23d day of April, 1914

Edwards Worth
U. S. SURVEYOR GENERAL OF OREGON

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Portland, Oregon, July 30, 1914.

The foregoing field notes of the ~~survey of~~ Extension Survey of Portion of Subdivisional Lines and Meanders of Meridith and Switzler Islands; also Small Island in secs. 4 and 5, T. 5 N., R. 30 E., of the Will. Mer. Oregon, in Books "I" and "J"

executed by Joseph A. Ganong, in the capacity of U. S. Surveyor under his special instructions dated ~~____~~ May 19 ~~____~~, 1913, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Edwards Worth
U. S. Surveyor General.

~~I certify that the foregoing transcript of the field notes of the above-described surveys in ____ , has been correctly copied from the original notes on file in this office.~~

~~*U. S. Surveyor General.*~~

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J

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FIELD NOTES

EXTENSION

OF THE SURVEY OF ~~THE~~

PORTION OF SUBDIVISIONAL LINES;

and

MEANDERS OF MERIDITH AND SWITZLER ISLANDS

in

TOWNSHIP NO. 6 NORTH; RANGE NO. 30 EAST.

Of the WILLAMETTE *Meridian,*

In the State of OREGON

EXECUTED BY

JOSEPH A. GANONG

In the capacity of U. S. Surveyor, under instructions dated May 19, 1913, *issued by the United States Surveyor General to govern surveys included in Group No.* 17, *which were approved by the Commissioner of the General Land Office,* June 21, 1913, *pursuant to authority contained in the Act of Congress dated* June 25, 1910.

Survey commenced December 6, 1913.

Survey completed December 7, 1913.

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ACCEPTED BY THE HON. COMMISSIONER G. L. O. June 18, 1915.

INDEX DIAGRAM.

Township 6 North, *Range* 30 East

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 Island 2	Island 1 34	35	36

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For Certificates of Assistants, and Final Oath of U. S. Surveyor (Form 4-680) See Book "I"

-Original Surveys.

F.W.R.

Original

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Survey of Meridith & Switzler Islands,
in Township 6 N., R. 30 E.

Chains. Survey commenced December 6, 1913, and executed with a Young and Sons light mountain transit No. 7385, with 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 lat. and decl. arcs.

The instrument was examined, tested on the true meridian at Portland, found correct, and was approved by the Assistant Supervisor of Surveys for Oregon, May 21, 1913.

I have recently examined the adjustments of the instrument, found them correct, and conclude a re-examination is unnecessary.

December 6, 1913: I find the meander cor. of fractional secs. 33 and 34, T. 6 N., R. 30 E., which is a basalt stone, firmly set, marked and witnessed as described by the surveyor general.

The sec. line bet. secs. 33 and 34, projected N. 0° 02'W. from this cor. will cross Meridith Island.

At this meander cor. in lat. 45° 57' N.; long. 119° 03'W.; Mean. Mag. Decl. 21°45' E., I set off 45° 57' on the lat. arc; 22° 24' S. on the decl. arc and determine a meridian with the solar.

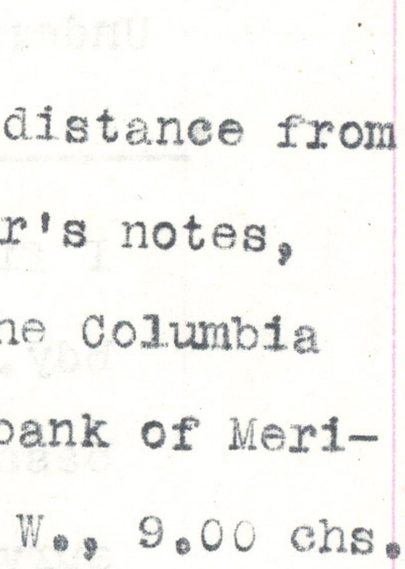
Thence I run

N. 0° 02' W., bet. secs. 33 and 34, counting distance from meander cor., as 4.44 ch. point. (See Collier's notes, Group 7)

To determine distance across the branch of the Columbia River, I set a flag on line, on the South bank of Meridith Island. From flag I run S. 89° 58' W., 9.00 chs., where I set point "A".

From meander cor., point "A" bears N. 21° 33' W.

From point "A" meander cor. bears S. 21° 33' E.; distance from meander cor. to flag, id = base line X cotan. 21° 31' E.= 9 chs. X 2.53648 = 22.83 chs.; 22.83 chs. + 4.44 chs. = 27.27.



456

Survey of Meridith and Switzler Islands, in
Township 6 N., R. 30 E.

Chains

27.27 Intersect the mean high water line, on the South bank of Meridith Island.

Set a basalt stone, 30 x 8 x 6 ins., 22 ins. in the ground, for meander cor. of frac. secs. 33 and 34, marked M C on S. face; with 3 grooves on E. face; dig a pit, 36 x 36 x 12 ins., 8 ft. N. of stone; and raise a mound of earth, 4 ft. base, 2 ft. high, N. of cor.

Thence over level, sandy ground, across Meridith Island.

40.00 Set basalt stone, 18 x 10 x 5 ins., 12 ins. in the ground, for ¼ sec. cor., marked ¼ on W. face; dig pits, 18 x 18 x 12 ins. N. and S. of stone, 3 ft. dist.; and raise a mound of earth, 3½ ft. base, 1½ ft. high, W. of cor.

60.00 Intersect the Mean high water line on N. bank of Meridith Island, which is the South bank of main channel of Columbia river. Course of river, is SW.

Set a basalt stone, 14 x 8 x 8 ins., 10 ins. in the ground, for meander cor. of frac. secs. 33 and 34, marked M C on N. face, with 3 grooves on E. face; dig a pit, 36 x 36 x 12 ins., 8 ft. S. of stone; and raise a mound of earth, 4 ft. base, 2 ft. high, S. of cor.

Land, level.

Soil, rich mellow sandy loam; 1st rate.

No timber.

Undergrowth, N. 3.00 chs. scattering willow.

I find the meander cor. of frac. secs. 4 and 33, on S. bdy. of T. 6 N., R. 30 E., which is a cross (x) on a basalt stone in place, witnessed as described by the surveyor general.

The Tp. line, bet. Tps. 5 and 6 N., projected West from this cor., will intersect Meridith and Switzler Islands.

From this cor. I run

West, bet. secs. 4 and 33, counting distance from meander cor. as 8.87 ch. point. (See Collier's Notes, Group 7)

Chains.

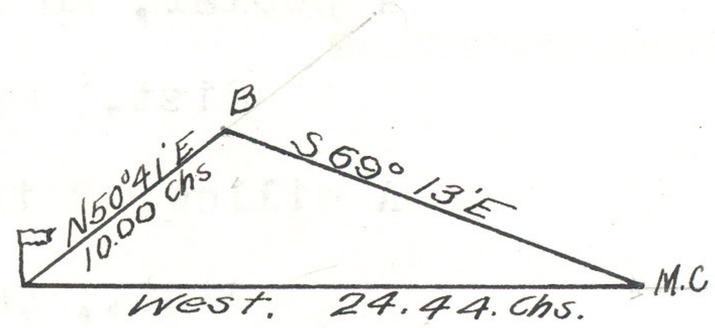
To determine the distance across the branch of the Columbia river, I set a flag on E. bank of Meridith Island. From flag I run N. 50° 41' E., 10.00 chs., where I set point "B".

From "B" the meander cor. bears S. 69° 13' E.

From meander cor. "B" bears N. 69° 13' W. Distance from meander cor. to flag is

$$\frac{\text{sin. } 60° 06' \times 10.00 \text{ chs.}}{\text{sin. } 20°47'} =$$

$$\frac{.86690 \times 10}{.35484} = 24.44 \text{ chs.}$$



8.87 chs. + 24.44 chs. = 33.31 chs.

33.31 Intersect the Mean high water line on the East bank of Meridith Island.

Set a basalt stone, 30 x 8 x 6 ins., 22 ins. in the ground, for meander cor. of frac. secs. 4 and 33, marked M C on E. face, with 6 grooves on N. and S. faces; dig pit, 36 x 36 x 12 ins., 8 ft. W. of stone; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

Thence over level, through scattering willow undergrowth.

37.73 Intersect the Mean high water line, on W. bank of Meridith Island, which is the East bank of a branch of Columbia river.

Set a basalt stone, 20 x 12 x 6 ins., 15 ins. in the ground, for meander cor. of frac. secs. 4 and 33, marked M C on W. face; with 6 grooves on N. and S. faces; dig a pit, 36 x 36 x 12 ins., 8 ft. E. of stone; and raise a mound of earth, 4 ft. base, 2 ft. high, E. of cor., and from which

A White thorn, 18 ins. diam., bears S. 10° 30' E., 336 lks. dist., marked T 5 N R 30 E S 4 M C B T.

NOTE:-

This line projected West, will cross the South end of Switzler Island.

The branch of the Columbia river, between these islands, has many shallow bars and can be chained across with a 5 chain tape by using a boat to cross the deep water.

So I continue my line West, from meander cor.

40.00 Point for $\frac{1}{4}$ sec. cor. falls in river.

Chains.

42.90 Edge of water, bears NE. and SW.; thence over gravel bar.

58.70 Intersect the Mean high water line, on East bank of Switzler Island.

Set an iron rod, 30 ins. long, 1 in. diam., 26 ins. in the ground, for meander cor. of frac. secs. 4 and 33, marked M C on top, from which

A poplar, 18 ins. diam., bears N. 81° 25' E., 188 lks. dist., marked T 6 N R 30 E S 33 M C B T.

A willow, 8 ins. diam., bears S. 60° 40' W., 62 lks. dist., marked T 5 N R 30 E S 4 M C B T.

From this meander cor., J. B. Switzler's house, bears N. 64° 20' W.

Thence over level ground, across Switzler's Island.

59.15 Barbed wire fence, bears NE. and SW.

74.90 J. B. Switzler's house, bears N. 63° E.

75.90 Barbed wite fence, bears N. and S.

76.60 Intersect the Mean high water line on the West bank of Switzler Island, which is the East bank of the main channel of Columbia river. Course of river, SW.

Set an iron rod, 30 ins. long, 1 in. dia., 38 ins. in the ground, marked M C; on top of the rod, set a basalt stone, 12 x 10 x 6 ins., 8 ins. in the ground, for meander cor. of frac. secs. 4 and 33, marked M C on W. face;with 6 grooves on N. and S. faces; dig a pit, 36 x 36 x 12 ins. 8 ft. E. of stone; and raise a mound of earth, 4 ft. base,, 2 ft. high, E. of cor. From cor.

A willow, 12 ins. diam., bears S. 31° 15' W., 363 lks. dist., marked T 5 N R 30 E S 4 M C B T.

Land. level.

Soil, 22.30 chs. rich mellow sandy loam; 1st rate.
No timber.
Undergrowth, scattering willow.

NOTE:-
There is a small island of agricultural land, lying just SW. of Switzler Island, which is a part of this group of islands, and I decide to make a survey of said island while in this locality .

Survey of Meanders of Meridith Island.

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T. 6 N., R. 30 E.

Chains	December 7, 1913. At the meander cor. of frac. secs. 4 and 33, on the west side of the Island, I set off 45° 57' on the lat. arc; 22° 31' S. on the decl. arc; and at 8h 40m a.m., l.m.t., determine a meridian with the solar. Thence I run with meanders in sec. 33, T. 6 N., R. 30 E., along sandy beach. N. 29° 15' E. 1.50 chs. N. 26° 45' E. 14.90 chs. At end of course, Wm. Meridith's house, bears N. 55° 15' E., 15 chs. dist. N. 31° 30' E. 33.40 chs. N. 44° 30' E. 12.70 " N. 26° 45' E. 8.83 " To the meander cor. of frac. secs. 33 and 34. Land, level. Soil, rich, mellow sandy loam; 1st rate. No timber. Undergrowth, dense willow, entangled with thorn and rose briars.
	Thence in sec. 34. N. 71° 30' E. 5.90 chs. N. 63° 45' E. 24.00 " N. 73° 45' E. 20.00 " S. 87° 00' E. 18.80 " S. 33° 45' W. 13.70 " S. 68° 00' W. 33.00 " S. 47° 30' W. 40.32 " To the meander cor. of frac. secs. 33 and 34. Land, level. Soil, gravel, off beach, rich mellow sandy loam; 1st rate. No timber. Undergrowth, along the banks and beach, dense willow, scattering willow off the beach.
	Thence in sec. 33.

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Meanders of Meridith Island.

T. 6 N., R. 30 E.

Chains

S. 50° 45' W. 43.04 chs. To the mender cor. of frac. secs. 4 and 33.

Land, level.

Soil, gravel, off beach, sandy loam; 1st rate.

No timber.

Undergrowth, along the banks and beach, dense willow.

December 7, 1913.

MEANDERS OF SWITZLER ISLAND.

December 7, 1913.

I commence at the meander cor. of frac. secs. 4 and 33, on the East side of the Island.

Thence with meanders in sec. 33.

N. 62° 30' E.	5.00 chs.	
N. 34° 15' E.	16.10	"
N. 23° 00' E.	19.10	"
S. 71° 45' W.	8.80	"
S. 52° 00' W.	15.00	"
S. 53° 00' W.	11.20	"
S. 36° 30' W.	14.00	"
S. 24° 15' W.	3.52	" To the meander cor. of frac. secs. 4 and 33.

Land, level.

Soil, gravelly loam, off beach, rich mellow sandy loam, 1st rate.

No timber.

Undergrowth, scattering willow.

December 7, 1913.

GENERAL DESCRIPTION.

The soil on these islands is sandy loam; 1st rate. Switzler Island has been cultivated for a number of years.

There are no buildings other than noted, nor any marketable timber on these islands.

Joseph A. Gamong.
Transitman, G.L.O.

Dec. 7, 1913.

See Book 1 for Oaths.