

H5775

507

SOUNDING WIRE.						FMS.	DREDGING CABLE.		
M. DOWN.			UP.				M. DOWN.	UP.	M.
7	35	10	7	36	50	0			
7	35	50	7	36	00	100			
						200			
						300			
						400			
						500			
						600			
						700			
						800			
						900			
						1000			
						1100			
						1200			
						1300			
						1400			
						1500			
						1600			
						1700			
						1800			
						1900			
						2000			
						2100			
						2200			
						2300			
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						2500			
						2600			
						2700			
						2800			
						2900			
						3000			
						3100			
						3200			
						3300			
						3400			
						3500			
						3600			
						3700			
						3800			
						3900			
						4000			
						4100			
						4200			
						4300			
						4400			
						4500			
						4600			
						4700			
						4800			
						4900			

Hydrog. No. 5776 Date, July 9, 1915

Sdg. Mch. Electric Reel El. Sdg. Lead 30 lbs.

Turns Cor'n Depth 68 fms.

Sdg. Cup Mining on lead Amt. Bot'm Sample

Character of Bottom fine S.

Thermom. { Make Cor'n { Instr. No. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 54.0 Time 5:05 } Air { 62

Density: Surf. fms.

Wind: Direction West Force 1-2

Baromet. 30.08 Amt. of Clouds 9 State of Sea S

Weather bc

Direction and Force of Current { Surface Bottom

Tide

General Locality Off Mouth of Columbia River

Position North Head bears N 67° E (true) distant 13.4 miles

Chart used: No. 6100 Ed'n

Drift: Direction Distance

Depth of Haul

Apparatus and Rig used

Time towing h. m.

Remarks: E 60 fms; Meter wheel 124; = 68 fms.

Deck Officer M. Glick Recorder C. P. Long

SOUNDING WIRE.				FMS.	DREDGING CABLE.		
A. M. Down.	Up.	A. M.	M. Down.		Up.	M.	
7	5700	7	5800	0			
7	5730	7	5730	100			
				200			
				300			
				400			
				500			
				600			
				700			
				800			
				900			
				1000			
				1100			
				1200			
				1300			
				1400			
				1500			
				1600			
				1700			
				1800			
				1900			
				2000			
				2100			
				2200			
				2300			
				2400			
				2500			
				2600			
				2700			
				2800			
				2900			
				3000			
				3100			
				3200			
				3300			
				3400			
				3500			
				3600			
				3700			
				3800			
				3900			
				4000			
				4100			
				4200			
				4300			
				4400			
				4500			
				4600			
				4700			
				4800			
				4900			

SOUNDING WIRE.				FMS.	DREDGING CABLE.		
A.M. Down.		Up. A.M.			M. Down.	Up.	M.
8 15	10	8 20	50	0			
8 15	50	8 19	30	100			
8 19	00	8 19	00	120 200			
				300			
				400			
				500			
				600			
				700			
				800			
				900			
				1000			
				1100			
				1200			
				1300			
				1400			
				1500			
				1600			
				1700			
				1800			
				1900			
				2000			
				2100			
				2200			
				2300			
				2400			
				2500			
				2600			
				2700			
				2800			
				2900			
				3000			
				3100			
				3200			
				3300			
				3400			
				3500			
				3600			
				3700			
				3800			
				3900			
				4000			
				4100			
				4200			
				4300			
				4400			
				4500			
				4600			
				4700			
				4800			
				4900			

SOUNDING WIRE.				FMS.	DREDGING CABLE.		
A. M. Down.	Up.	A. M.	M. Down.		Up.	M.	
8 43 30	8 45 15			0			
8 44 10	8 44 10		87	100			
				200			
				300			
				400			
				500			
				600			
				700			
				800			
				900			
				1000			
				1100			
				1200			
				1300			
				1400			
				1500			
				1600			
				1700			
				1800			
				1900			
				2000			
				2100			
				2200			
				2300			
				2400			
				2500			
				2600			
				2700			
				2800			
				2900			
				3000			
				3100			
				3200			
				3300			
				3400			
				3500			
				3600			
				3700			
				3800			
				3900			
				4000			
				4100			
				4200			
				4300			
				4400			
				4500			
				4600			
				4700			
				4800			
				4900			

Trawl } No. H 5779 Date, July 9, 1915
Hydrog. }
Sdg. Mch. Electric Reel Self Shot Lead 30 lbs.
Turns _____ Cor'n _____ Depth 77 1/2 fms.
Sdg. Cup (Dredging left cup) Amt. Bot'm Sample _____
Character of Bottom gy. sea sand

Thermom. { Make _____ Cor'n { Instr. _____
 { No. _____ { Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { 54° Time 8:58 } Air { 65 }
 { _____ Time _____ } { _____ }

Density: Surf. _____ fms. _____

Wind: Direction West Force 2

Baromet. 30.09 Amt. of Clouds 7 State of Sea 2

Weather bc.

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality Off mouth Columbia River

Position North Head bears N 89 1/2° E (true) distant 16.5 miles

Chart used: No. 6100 Ed'n 2

Drift: Direction _____ Distance _____

Depth of Haul _____

Apparatus and Rig used _____

Time towing _____ h. _____ m.

Remarks: E 69 fms. Meter wheel 142 = 77 1/2 fms

Deck Officer H. Shipley Recorder G. Parker

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
A. M. Down.	Up.	A. M.		M. Down.	Up.	M.
8 53 10	8 54 30		0			
8 53 40	8 53 40		69 100			
			200			
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Dredge } No. *H 5780* Date, *July 9th*, 19*15*
Hydrog. }
Sdg. Mch. *Electric* Reel *Self* Shot } *30* lbs.
Lead }
Turns _____ Cor'n _____ Depth *74 1/2* fms.

Sdg. Cup *Trawling (bottom)* Amt. Bot'm Sample _____
Character of Bottom *(hard) fine gy S*

Thermom. { Make _____ Cor'n { Instr. _____
 { No. _____ { Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { *55°* Time *9:06* } Air { *66°*
 { _____ Time _____ } { _____

Density: Surf. _____ fms. _____

Wind: Direction *West* Force *2-3*

Baromet. *30.09* Amt. of Clouds *7* State of Sea *L*

Weather *b.c.*

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality *Off mouth Columbia River*

Position *North Head bears S88°E (true) distant*
17.2 miles

Chart used: No. *6100* Ed'n _____ *16.8*

Drift: Direction _____ Distance _____

Depth of Haul _____

Apparatus and Rig used _____

Time towing _____ h. _____ m.

Remarks: *E 67 fms; Meter wheel 1.36 = 74 1/2 fms*

Deck Officer *The Shipley* Recorder *C. E. Barker*

SOUNDING WIRE.				FMS.	DREDGING CABLE.		
A M. Down.		Up. A M.			--- M. Down.	Up.	--- M.
9	12	38	9	0			
9	13	11	9	67	100		
					200		
					300		
					400		
					500		
					600		
					700		
					800		
					900		
					1000		
					1100		
					1200		
					1300		
					1400		
					1500		
					1600		
					1700		
					1800		
					1900		
					2000		
					2100		
					2200		
					2300		
					2400		
					2500		
					2600		
					2700		
					2800		
					2900		
					3000		
					3100		
					3200		
					3300		
					3400		
					3500		
					3600		
					3700		
					3800		
					3900		
					4000		
					4100		
					4200		
					4300		
					4400		
					4500		
					4600		
					4700		
					4800		
					4900		

Dredge } No. H5-782 Date, July 9, 19 15
Hydrog. }
Sdg. Mch. Electric Reel Tide Shot } 30 lbs.
Lead }

Turns _____ Cor'n _____ Depth 76 1/2 fms.
Sdg. Cup Cranning (soft rock) Amt. Bot'm Sample _____
Character of Bottom black sand + rock frags

Thermom. { Make _____ Cor'n { Instr. _____
 { No. _____ { Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { 55° Time 9:27 } Air { 65°
 { _____ Time _____ } { _____

Density: Surf. _____ fms. _____

Wind: Direction West Force 2-3

Baromet. 30:09 Amt. of Clouds 7 State of Sea 2

Weather bc

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality Off mouth Columbia River

Position North Head bears S82 1/2° E (true) distant
18.8 miles
Chart used: No. 6100 Ed'n 7

Drift: Direction _____ Distance _____

Depth of Haul _____

Apparatus and Rig used _____

Time towing _____ h. _____ m.
Remarks: E 68 1/2 fms. Meteor school 140 76 1/2 fms

Deck Officer Mr. Shepley Recorder W. E. Parker

SOUNDING WIRE.				FMS.	DREDGING CABLE.			
A. M. Down.		Up. A. M.			M. Down.		Up. M.	
922	00	923	00	0				
922	40	922	40	100				
				200				
				300				
				400				
				500				
				600				
				700				
				800				
				900				
				1000				
				1100				
				1200				
				1300				
				1400				
				1500				
				1600				
				1700				
				1800				
				1900				
				2000				
				2100				
				2200				
				2300				
				2400				
				2500				
				2600				
				2700				
				2800				
				2900				
				3000				
				3100				
				3200				
				3300				
				3400				
				3500				
				3600				
				3700				
				3800				
				3900				
				4000				
				4100				
				4200				
				4300				
				4400				
				4500				
				4600				
				4700				
				4800				
				4900				

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
A. M. Down.	Up.	A. M.		M. Down.	Up.	M.
9 32 40	9 34 05		0			
9 33 15	9 33 15		70 1/2			
			200			
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

SOUNDING WIRE.

A. M. Down. | Up. | A. M.

9 43 01 | 9 44 28

9 48 30 | 9 43 52

FMS.

DREDGING CABLE.

--- M. Down. | Up. | --- M.

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

Dredge } No. 45785 Date, July 9, 1915
Hydrog. }
Sdg. Mch. Electric Reel Chief Shot 30 lbs.
Lead

Turns _____ Cor'n _____ Depth 85 1/2 fms.
Sdg. Cup (Priming (soft soap)) Amt. Bot'm Sample _____
Character of Bottom (Barry, black sand) fine gy S

Thermom. { Make _____ Cor'n { Instr. _____
 { No. _____ { Stem. _____

Bottom Reading _____ Cor'd Temp. _____
Temp. Surf. { 55° Time 9:57 } Air { 64°
 { _____ Time _____ } { _____

Density: Surf. _____ fms. _____
Wind: Direction West Force 1-2
Baromet. 30.08 Amt. of Clouds 6 State of Sea 2
Weather b.c.

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality Offmouth Columbia River

Position North Head bears S 76 1/2° E (true) distant 21.3 miles
Chart used: No. 6100 Ed'n 0

Drift: Direction _____ Distance _____

Depth of Haul _____

Apparatus and Rig used _____

Time towing _____ h. _____ m.
Remarks: F 76 1/2 fms. Meter school 156 = 85 1/2 fms.

Deck Officer Mr. Shapley Recorder C. C. Parker
11-1023

SOUNDING WIRE.				FMS.	DREDGING CABLE.		
A. M. Down.	Up.	A. M.	M. Down.		Up.	M.	
9 52 23	9 53 57			0			
9 52 58	9 53 00			76 $\frac{1}{2}$ 100			
				200			
				300			
				400			
				500			
				600			
				700			
				800			
				900			
				1000			
				1100			
				1200			
				1300			
				1400			
				1500			
				1600			
				1700			
				1800			
				1900			
				2000			
				2100			
				2200			
				2300			
				2400			
				2500			
				2600			
				2700			
				2800			
				2900			
				3000			
				3100			
				3200			
				3300			
				3400			
				3500			
				3600			
				3700			
				3800			
				3900			
				4000			
				4100			
				4200			
				4300			
				4400			
				4500			
				4600			
				4700			
				4800			
				4900			

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
A.M. DOWN.	UP.	A. M.		M. DOWN.	UP.	M.
10 02 53	10 04 13		0			
10 02 20	10 03 54		100			
10 13 30	10 03 30	124	200			
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Hydrog. No. 45787 Date, July 9, 1915
Sdg. Mch. Electric Reel Elec Shot/Lead 30 lbs.
Turns _____ Cor'n _____ Depth 88 1/2 fms.

Sdg. Cup Rimming (soft soap) Amt. Bot'm Sample _____
Character of Bottom Black sand fine gy S

Thermom. { Make _____ Cor'n { Instr. _____
 { No. _____ { Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { 55° Time 10:24 } Air { 65°
 { _____ Time _____ } { _____

Density: Surf. _____ fms. _____

Wind: Direction West Force 1-2

Baromet. 30:08 Amt. of Clouds 6 State of Sea 2

Weather b.c

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality Off mouth Columbia River

Position North Head bears S 72° E (true) distant 20.8 miles
Chart used: No. 6100 Ed'n 5

Drift: Direction _____ Distance _____

Depth of Haul _____

Apparatus and Rig used _____

Time towing _____ h. _____ m.
Remarks E 77 fms.; Meter wheel 162 - 88 1/2 fms

Deck Officer Mr Shupley Recorder C. E. Parker
11-1023

SOUNDING WIRE.						FMS.	DREDGING CABLE.		
M. DOWN.		UP.	A. M.				M. DOWN.	UP.	M.
10	19	40	10	21	12	0			
10	20	10	10	20	10	77			
						100			
						200			
						300			
						400			
						500			
						600			
						700			
						800			
						900			
						1000			
						1100			
						1200			
						1300			
						1400			
						1500			
						1600			
						1700			
						1800			
						1900			
						2000			
						2100			
						2200			
						2300			
						2400			
						2500			
						2600			
						2700			
						2800			
						2900			
						3000			
						3100			
						3200			
						3300			
						3400			
						3500			
						3600			
						3700			
						3800			
						3900			
						4000			
						4100			
						4200			
						4300			
						4400			
						4500			
						4600			
						4700			
						4800			
						4900			

Dredge } No. *H5788* Date, *July 9*, 19*15*
Hydrog. }
Sdg. Mch. *Electric* Reel *Field* Shot Lead *30* lbs.

Turns _____ Cor'n _____ Depth *87* fms.
Sdg. Cup *Priming (soft soap)* Amt. Bot'm Sample _____
Character of Bottom *black sand fine ggs*

Thermom. { Make _____ Cor'n { Instr. _____
 { No. _____ { Stem. _____

Bottom Reading _____ Cor'd Temp. _____
Temp. Surf. { *56°* Time *10:34* } Air { *65°*
 { _____ Time _____ } _____

Density: Surf. _____ fms. _____
Wind: Direction *West* Force *1*
Baromet. *30.08* Amt. of Clouds *6* State of Sea *2*
Weather *bc*

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality *Off mouth Columbia River*

Position *North Head bears S ^{71 3/4} 72° E (true) distant*
19.1 miles
Chart used: No. *6100* Ed'n *18.8*

Drift: Direction _____ Distance _____

Depth of Haul _____

Apparatus and Rig used _____

Time towing _____ h. _____ m.
Remarks: *E 73 1/2 fms. Water wheel 159 = 87 fms*

Deck Officer *Mr. Shapley* Recorder *C. E. Parker*

SOUNDING WIRE.				FMS.	DREDGING CABLE.		
A. M. Down.		Up. A. M.			M. Down.	Up.	M.
10	29	00	10	0			
10	29	40	10	73 1/2			
				200			
				300			
				400			
				500			
				600			
				700			
				800			
				900			
				1000			
				1100			
				1200			
				1300			
				1400			
				1500			
				1600			
				1700			
				1800			
				1900			
				2000			
				2100			
				2200			
				2300			
				2400			
				2500			
				2600			
				2700			
				2800			
				2900			
				3000			
				3100			
				3200			
				3300			
				3400			
				3500			
				3600			
				3700			
				3800			
				3900			
				4000			
				4100			
				4200			
				4300			
				4400			
				4500			
				4600			
				4700			
				4800			
				4900			

SOUNDING WIRE.						FMS.	DREDGING CABLE.		
A. M. Down.		Up.	A. M.				M. Down.	Up.	M.
10	38	18	10	39	50	0			
10	38	50	10	38	50	76			
						200			
						300			
						400			
						500			
						600			
						700			
						800			
						900			
						1000			
						1100			
						1200			
						1300			
						1400			
						1500			
						1600			
						1700			
						1800			
						1900			
						2000			
						2100			
						2200			
						2300			
						2400			
						2500			
						2600			
						2700			
						2800			
						2900			
						3000			
						3100			
						3200			
						3300			
						3400			
						3500			
						3600			
						3700			
						3800			
						3900			
						4000			
						4100			
						4200			
						4300			
						4400			
						4500			
						4600			
						4700			
						4800			
						4900			

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
A. M. Down.	Up.	A. M.		M. Down.	Up.	M.
11 03 23	11 04 30	30	0			
11 03 50	11 03 50	57	100			
			200			
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

SOUNDING WIRE.						FMS.	DREDGING CABLE.		
A. M. Down.		Up.		A. M.			M. Down.	Up.	M.
11	31	45	11	32	40	0			
11	32	05	11	32	05	44/200			
						200			
						300			
						400			
						500			
						600			
						700			
						800			
						900			
						1000			
						1100			
						1200			
						1300			
						1400			
						1500			
						1600			
						1700			
						1800			
						1900			
						2000			
						2100			
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						2300			
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						2500			
						2600			
						2700			
						2800			
						2900			
						3000			
						3100			
						3200			
						3300			
						3400			
						3500			
						3600			
						3700			
						3800			
						3900			
						4000			
						4100			
						4200			
						4300			
						4400			
						4500			
						4600			
						4700			
						4800			
						4900			

Dredge } No. *H 5792* Date, *July 9.*, 19 *15*
Hydrog. }
Sdg. Mch. *Electric* Reel *Clear* Shot *30* lbs.
Lead }
Turns _____ Cor'n _____ Depth *217.5* fms.
Sdg. Cup *Remington* Amt. Bot'm Sample _____
Character of Bottom *black sand fine gy S*

Thermom. { Make _____ Cor'n { Instr. _____
 { No. _____ { Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { *56°* Time *12:36* } Air { *66°*
 { _____ Time _____ } _____

Density: Surf. _____ fms. _____

Wind: Direction *West* Force *2*

Baromet. *30.10* Amt. of Clouds *5* State of Sea *2*

Weather *b.c.*

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality *off mouth Columbia River*

Position *North Head bears N 84° E (true) distant 13.8 miles*

Chart used: No. *6100* Ed'n *6*

Drift: Direction _____ Distance _____

Depth of Haul _____

Apparatus and Rig used _____

Time towing _____ h. _____ m.
Remarks: *E 202 fms; Meter wheel 398 = 217.5 fms*

Deck Officer *Mr Cassidy* Recorder *L. E. Parker*

SOUNDING WIRE.				FMS.	DREDGING CABLE.		
P	M. DOWN.	UP.	P M.		M. DOWN.	UP.	M.
12	29	35	12 33 35	0			
12	30	10	12 32 20	100			
12	30	58	12 31 03	200			
12	31	00	12 31 00 212	300			
				400			
				500			
				600			
				700			
				800			
				900			
				1000			
				1100			
				1200			
				1300			
				1400			
				1500			
				1600			
				1700			
				1800			
				1900			
				2000			
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				2200			
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				2400			
				2500			
				2600			
				2700			
				2800			
				2900			
				3000			
				3100			
				3200			
				3300			
				3400			
				3500			
				3600			
				3700			
				3800			
				3900			
				4000			
				4100			
				4200			
				4300			
				4400			
				4500			
				4600			
				4700			
				4800			
				4900			

Dredge } No. 115793 Date, July 9, 1915
Hydrog. }

Sdg. Mch. Electric Reel Elec Shot 30 lbs.
Lead }

Turns _____ Cor'n _____ Depth 218 fms.

Sdg. Cup Downing soft scoop Amt. Bot'm Sample _____

Character of Bottom (hard bottom) fine sds

Thermom. { Make _____ Cor'n { Instr. _____
 { No. _____ { Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { 56° Time 12:47 } Air { 66°
 { _____ Time _____ } { _____

Density: Surf. _____ fms. _____

Wind: Direction West Force 2

Baromet. 30.10 Amt. of Clouds 5 State of Sea L

Weather bc

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality off mouth Columbia River

Position North Head bears N82°E (true) distant 14.7 miles

Chart used: No. 6100 Ed'n 3

Drift: Direction _____ Distance _____

Depth of Haul _____

Apparatus and Rig used _____

Time towing _____ h. _____ m.

Remarks: E 206.5 fms.; Heter wheel 299 = 218 fms

Deck Officer Mr. Conway Recorder R. E. Parker

Dredge } No. 45794 Date, July 9, 1915
Hydrog. }

Sdg. Mch. Electric Reel Reel Shot Lead 30 lbs.

Turns _____ Cor'n _____ Depth 24 1/2 fms.

Sdg. Cup Arming soft cup Amt. Bot'm Sample _____

Character of Bottom (Hard bottom) clean lead

Thermom. { Make _____ Cor'n { Instr. _____
 { No. _____ { Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { 56° Time 12.59 } Air { 66°
 { _____ Time _____ } _____

Density: Surf. _____ fms. _____

Wind: Direction West Force 2

Baromet. 30.10 Amt. of Clouds 5 State of Sea L

Weather b.c.

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality Off mouth Columbia River

Position North Head bears N 79° E (true) distant 15.5 miles

Chart used: No. 6100 Ed'n 3

Drift: Direction _____ Distance _____

Depth of Haul _____

Apparatus and Rig used _____

Time towing _____ h. _____ m.

Remarks: E 231 fms. Water haul 442 = 24 1/2 fms.

Deck Officer H. Cassidy Recorder C. E. Parker

SOUNDING WIRE.				FMS.	DREDGING CABLE.		
P. M. Down.	Up.	P. M.	M. Down.		Up.	M.	
12 53 00	12 57 24			0			
12 53 35	12 56 20			100			
12 54 18	12 55 09			200			
12 54 35	12 54 35			300			
				400			
				500			
				600			
				700			
				800			
				900			
				1000			
				1100			
				1200			
				1300			
				1400			
				1500			
				1600			
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				3000			
				3100			
				3200			
				3300			
				3400			
				3500			
				3600			
				3700			
				3800			
				3900			
				4000			
				4100			
				4200			
				4300			
				4400			
				4500			
				4600			
				4700			
				4800			
				4900			

Dredge } No. H 5795 Date, July 9, 1915
Hydrog. }
Sdg. Mch. Electric Reel Label Shot 30 lbs.
Lead
Turns _____ Cor'n _____ Depth 248 fms.
Sdg. Cup Running } Amt. Bot'm Sample _____
Character of Bottom Green mud, fine gms

Thermom. { Make _____ Cor'n { Instr. _____
 { No. _____ { Stem. _____

Bottom Reading _____ Cor'd Temp. _____
Temp. Surf. { 56° Time 1:23 } Air { 65°
 { _____ Time _____ } _____

Density: Surf. _____ fms. _____
Wind: Direction West SW Force 2
Baromet. 30.10 Amt. of Clouds 5 State of Sea L
Weather b. c.

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality Off mouth Columbia River

Position North Head bears N 80° E (true) distant 16.5 miles
Chart used: No. 6100 Ed'n 2

Drift: Direction _____ Distance _____

Depth of Haul _____

Apparatus and Rig used _____

Time towing _____ h. _____ m.
Remarks E 238 turns. Meter wheel 454 = 248 fms.

Deck Officer Mr. Cassidy Recorder C. C. Parker
11-1023

SOUNDING WIRE.				FMS.	DREDGING CABLE.			
P.	M. Down.	Up.	P. M.		M. Down.	Up.	M.	
1	16 30	1	21 15	0				
1	17 05	1	19 30	100				
1	17 45	1	18 45	200				
1	18 05	1	18 05	238				
				400				
				500				
				600				
				700				
				800				
				900				
				1000				
				1100				
				1200				
				1300				
				1400				
				1500				
				1600				
				1700				
				1800				
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				2700				
				2800				
				2900				
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				3600				
				3700				
				3800				
				3900				
				4000				
				4100				
				4200				
				4300				
				4400				
				4500				
				4600				
				4700				
				4800				
				4900				

SOUNDING WIRE.				FMS.	DREDGING CABLE.			
P	M. Down.	Up.	P M.		M. Down.	Up.	M.	
	1 39 05	1 41 13		0				
	1 39 40	1 39 ?		100				
	1 39 41	1 39 41	101.5	200				
				300				
				400				
				500				
				600				
				700				
				800				
				900				
				1000				
				1100				
				1200				
				1300				
				1400				
				1500				
				1600				
				1700				
				1800				
				1900				
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				2700				
				2800				
				2900				
				3000				
				3100				
				3200				
				3300				
				3400				
				3500				
				3600				
				3700				
				3800				
				3900				
				4000				
				4100				
				4200				
				4300				
				4400				
				4500				
				4600				
				4700				
				4800				
				4900				

SOUNDING WIRE.					FMS.	DREDGING CABLE.		
M. Down.		Up.	P. M.			M. Down.	Up.	M.
1	50	05	1	51	35			
1	50	40	1	50	40			
					0			
					71 100			
					200			
					300			
					400			
					500			
					600			
					700			
					800			
					900			
					1000			
					1100			
					1200			
					1300			
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					1500			
					1600			
					1700			
					1800			
					1900			
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					2100			
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					2500			
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					2900			
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					4000			
					4100			
					4200			
					4300			
					4400			
					4500			
					4600			
					4700			
					4800			
					4900			

SOUNDING WIRE.					FMS.	DREDGING CABLE.			
P. M. Down.		Up. P. M.				M. Down.		Up. M.	
201	21	2	02	45	0				
20	150	2	01	50	100				
					18 1/2				
					200				
					300				
					400				
					500				
					600				
					700				
					800				
					900				
					1000				
					1100				
					1200				
					1300				
					1400				
					1500				
					1600				
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					2500				
					2600				
					2700				
					2800				
					2900				
					3000				
					3100				
					3200				
					3300				
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					3500				
					3600				
					3700				
					3800				
					3900				
					4000				
					4100				
					4200				
					4300				
					4400				
					4500				
					4600				
					4700				
					4800				
					4900				

SOUNDING WIRE.				FMS.	DREDGING CABLE.				
<i>P</i> M. Down.	Up.	<i>P</i> M.	M. Down.		Up.	M.			
2	13	00	2	14	20				
2	13	20	2	13	20				
				0					
				100					
				200					
				300					
				400					
				500					
				600					
				700					
				800					
				900					
				1000					
				1100					
				1200					
				1300					
				1400					
				1500					
				1600					
				1700					
				1800					
				1900					
				2000					
				2100					
				2200					
				2300					
				2400					
				2500					
				2600					
				2700					
				2800					
				2900					
				3000					
				3100					
				3200					
				3300					
				3400					
				3500					
				3600					
				3700					
				3800					
				3900					
				4000					
				4100					
				4200					
				4300					
				4400					
				4500					
				4600					
				4700					
				4800					
				4900					

~~Bredge~~ } No. *5800* Date, *July 9*, 19*14*
Hydrog. }
Sdg. Mch. *Electric* Reel *El.* Shot } *30* lbs.
Lead }
Turns _____ Cor'n _____ Depth *79* fms.
Sdg. Cup *Arming (alt's cop.)* Amt. Bot'm } sample
Character of Bottom *blk L*

Thermom. { Make _____ Cor'n { Instr. _____
 { No. _____ { Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { *56°* Time *2:29* } Air { *65°*
 { _____ Time _____ } { _____

Density: Surf. _____ fms. _____

Wind: Direction *SE* Force *3*

Baromet. *30.11* Amt. of Clouds *4* State of Sea *L*

Weather *bcz*

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality *Off Mouth of Columbia River*

Position *North Head bears N 86 1/2° E (true) distant 21.5 miles*

Chart used: No. *6100* Ed'n _____

Drift: Direction _____ Distance _____

Depth of Haul _____

Apparatus and Rig used _____

Time towing _____ h. _____ m.

Remarks: *C. 70 fms, meter wheel 146 = 79 fms.*

Deck Officer *Mr Cassidy* Recorder *C. E. De Long*

SOUNDING WIRE.						FMS.	DREDGING CABLE.		
P. M. Down.			Up. P. M.				M. Down.	Up.	M.
2	23	00	2	23	30	0			
2	23	25	2	23	25	100			
						200			
						300			
						400			
						500			
						600			
						700			
						800			
						900			
						1000			
						1100			
						1200			
						1300			
						1400			
						1500			
						1600			
						1700			
						1800			
						1900			
						2000			
						2100			
						2200			
						2300			
						2400			
						2500			
						2600			
						2700			
						2800			
						2900			
						3000			
						3100			
						3200			
						3300			
						3400			
						3500			
						3600			
						3700			
						3800			
						3900			
						4000			
						4100			
						4200			
						4300			
						4400			
						4500			
						4600			
						4700			
						4800			
						4900			

Dredge } No. 5801 Date, July 9, 19 15
Hydrog. }
Sdg. Mch. Electric Reel El. ^{Steel}Lead 30 lbs.
Turns _____ Cor'n _____ Depth 83 1/2 fms.
Sdg. Cup Arming (soft soap) Amt. Bot'm Sample _____
Character of Bottom bl. s.

Thermom. { Make _____ Cor'n { Instr. _____
 { No. _____ { Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { 56° Time 2:36 P } Air { 65°
 { _____ Time _____ } { _____

Density: Surf. _____ fms. _____

Wind: Direction S.W. Force 3

Baromet. 30.11 Amt. of Clouds 4 State of Sea L

Weather bcy.

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality Off Mouth of Columbia River

Position North Head bears N 86 1/2° E (true) distant 22.5 miles

Chart used: No. 6100 Ed'n _____

Drift: Direction _____ Distance _____

Depth of Haul _____

Apparatus and Rig used _____

Time towing _____ h. _____ m.

Remarks: El. 74 fms; Meter wheel 1.53 = 83 1/2 fms.

Deck Officer Mr. Cassidy Recorder W. H. Long
11-1023

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
P. M. Down.			Up. P. M.				--- M. Down.		Up.		--- M.	
2	33	05	2	34	35	0						
2	33	30	2	33	30	100						
						200						
						300						
						400						
						500						
						600						
						700						
						800						
						900						
						1000						
						1100						
						1200						
						1800						
						1400						
						1500						
						1600						
						1700						
						1800						
						1900						
						2000						
						2100						
						2200						
						2300						
						2400						
						2500						
						2600						
						2700						
						2800						
						2900						
						3000						
						3100						
						3200						
						3300						
						3400						
						3500						
						3600						
						3700						
						3800						
						3900						
						4000						
						4100						
						4200						
						4300						
						4400						
						4500						
						4600						
						4700						
						4800						
						4900						

Hydrog. No. *H. 5-803* Date, *July 9*, 19*16*
Sdg. Mch. *Elect* Reel *El* Shot Leads *30* lbs.
Turns _____ Cor'n _____ Depth *84* fms.
Sdg. Cup *Arming (left)* Amt. Bot'm Sample _____
Character of Bottom *gyllk L.*

Thermom. { Make _____ Cor'n { Instr. _____
 { No. _____ { Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { *56°* Time *3:15 P* } Air { *69°*
 { _____ Time _____ } _____

Density: Surf. _____ fms. _____

Wind: Direction *S.W.* Force *2*

Baromet. *30.10* Amt. of Clouds *.4* State of Sea *L*

Weather *bcy*

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality *Off Mouth of Columbia River*

Position *North Head bears ^{88°} S 87 1/2° E (true) distant 22.6 miles*

Chart used: No. *6100* Ed'n _____

Drift: Direction _____ Distance _____

Depth of Haul _____

Apparatus and Rig used _____

Time towing _____ h. _____ m.

Remarks: *El. 74 fms; Meter wheel 154 = 84 fms.*

Deck Officer *Mr. Cassidy* Recorder *C. B. Long*
11-1023

SOUNDING WIRE.					FMS.	DREDGING CABLE.		
P. M. Down.	Up.	P. M.				M. Down.	Up.	M.
3	12 40	3 14	20		0			
3	13 10	3 13	15	74	100			
					200			
					300			
					400			
					500			
					600			
					700			
					800			
					900			
					1000			
					1100			
					1200			
					1300			
					1400			
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					3800			
					3900			
					4000			
					4100			
					4200			
					4300			
					4400			
					4500			
					4600			
					4700			
					4800			
					4900			

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
P. M. Down.	Up.	P. M.		M. Down.	Up.	M.
3	38	40	3	40	15	0
3	39	10	3	39	15	73
						100
						200
						300
						400
						500
						600
						700
						800
						900
						1000
						1100
						1200
						1300
						1400
						1500
						1600
						1700
						1800
						1900
						2000
						2100
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						2800
						2900
						3000
						3100
						3200
						3300
						3400
						3500
						3600
						3700
						3800
						3900
						4000
						4100
						4200
						4300
						4400
						4500
						4600
						4700
						4800
						4900

X

Trawl } No. *H 5805* Date, *July 9*, 19*15*
 Hydrog. }
 Sdg. Mch. *Elect* Reel *ELT* Shot/Lead *30* lbs.
 Turns _____ Cor'n _____ Depth *292* fms.
 Sdg. Cup *arming (soft cup)* Amt. Bot'm Sample _____
 Character of Bottom *No bottom*

Thermom. { Make _____ Cor'n { Instr. _____
 { No. _____ { Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { *56°* Time *4:35* } Air { *69°*
 { _____ Time _____ } { _____

Density: Surf. _____ fms. _____

Wind: Direction *N. S. W.* Force *2*

Baromet. *30:09* Amt. of Clouds *4* State of Sea *2*

Weather *b c g*

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality *Off Mouth of Columbia River*

Position *North Head bears S 66 1/2° E (true) distant*

Chart used: No. *6100* Ed'n _____ *22.7 miles*
6

Drift: Direction _____ Distance _____

Depth of Haul _____

Apparatus and Rig used _____

Time towing _____ h. _____ m.

Remarks: *ELT 254 fms; Trawl which 5.34 = 292 fms.*
No bottom.

Deck Officer *Mc Glick* Recorder *Ed Parker*

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	P. M.		M. Down.	Up.	M.
4 26 30	4 32 10		0			
4 27 00	4 31 00		100			
4 27 45	4 29 40		200			
4 28 20	4 28 30		250			
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
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			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Dredge } No. 45806 Date, July 9, 1915
Hydrog. }

Sdg. Mch. Electrical Reel K&L Shot Lead 30 lbs.

Turns _____ Cor'n _____ Depth No bottom fms.

Sdg. Cup Jennings soft cup Amt. Bot'm Sample _____

Character of Bottom No bottom

Thermom. { Make _____ Cor'n { Instr. _____
 { No. _____ { Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { 56° Time 5:20 Air { 68°
 { _____ Time _____ } _____

Density: Surf. _____ fms. _____

Wind: Direction E.S.W. Force 2

Baromet. 30.09 Amt. of Clouds 4 State of Sea S

Weather bcg

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality Off mouth Columbia River

Position North Head bears S53 1/2° E (true) distant 25.5 miles

Chart used: No. 6100 Ed'n _____

Drift: Direction _____ Distance _____

Depth of Haul _____

Apparatus and Rig used _____

Time towing _____ h. _____ m.

Remarks E 283 fms. Meter wheel 531 = 2915 fms.

No bottom

Deck Officer Mr. Glick Recorder C. C. Parker

SOUNDING WIRE.				FMS.	DREDGING CABLE.						
P. M. DOWN.	UP.	P. M.	M. DOWN.		UP.	M.					
5	12	11	5	17	50						
5	12	08	5	16	35						
5	13	31	5	15	20						
5	14	10	5	14	10	25					
					0						
					100						
					200						
					300						
					400						
					500						
					600						
					700						
					800						
					900						
					1000						
					1100						
					1200						
					1300						
					1400						
					1500						
					1600						
					1700						
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					2600						
					2700						
					2800						
					2900						
					3000						
					3100						
					3200						
					3300						
					3400						
					3500						
					3600						
					3700						
					3800						
					3900						
					4000						
					4100						
					4200						
					4300						
					4400						
					4500						
					4600						
					4700						
					4800						
					4900						

①

Dredge Hydrog. No. 5807 Date, July 20, 1915

Sdg. Mch. Elect Reel H. Shot/Lead 35 lbs.

Turns Cor'n Depth 46 fms.

Sdg. Cup Arming (6 ft. long) Amt. Bot'm Sample

Character of Bottom G. S. G.

Thermom. { Make Cor'n { Instr. No. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 52° Time 8:25 AM Air { 62°

Density: Surf. fms.

Wind: Direction NW Force 3

Baromet. 30.12 Amt. of Clouds 8 State of Sea C

Weather Aug.

Direction and Force of Current { Surface Bottom

Tide

General Locality Off Grays Harbor, Wn.

Position Grays Harbor Light bears S67°E (true) distant 17 miles

Chart used: No. 6400 Ed'n

Drift: Direction Distance

Depth of Haul

Apparatus and Rig used

Time towing h. m.

Remarks:

Deck Officer Mr. Shepley Recorder J. M. ...

SOUNDING WIRE.						FMS.	DREDGING CABLE.		
M. Down.			Up.	M.			M. Down.	Up.	M.
8	22	15	8	24	30	0			
8	23	10	8	23	35	1/6 400			
						200			
						300			
						400			
						500			
						600			
						700			
						800			
						900			
						1000			
						1100			
						1200			
						1300			
						1400			
						1500			
						1600			
						1700			
						1800			
						1900			
						2000			
						2100			
						2200			
						2300			
						2400			
						2500			
						2600			
						2700			
						2800			
						2900			
						3000			
						3100			
						3200			
						3300			
						3400			
						3500			
						3600			
						3700			
						3800			
						3900			
						4000			
						4100			
						4200			
						4300			
						4400			
						4500			
						4600			
						4700			
						4800			
						4900			

SOUNDING WIRE.						FMS.	DREDGING CABLE.		
M. Down.			Up.	M.			M. Down.	Up.	M.
9	41	ω	8	42	50	0			
8	41	30	8	42	ω	100			
						200			
						300			
						400			
						500			
						600			
						700			
						800			
						900			
						1000			
						1100			
						1200			
						1300			
						1400			
						1500			
						1600			
						1700			
						1800			
						1900			
						2000			
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						2200			
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						2400			
						2500			
						2600			
						2700			
						2800			
						2900			
						3000			
						3100			
						3200			
						3300			
						3400			
						3500			
						3600			
						3700			
						3800			
						3900			
						4000			
						4100			
						4200			
						4300			
						4400			
						4500			
						4600			
						4700			
						4800			
						4900			

3

Hydrog. No. 5809 Date, July 21, 1915

Sdg. Mch. Elec Reel Filed Shot Lead 35 lbs.

Turns Cor'n Depth 53 fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom fine (black) sand

Thermom. { Make Cor'n { Instr. No. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 52 Time 9:00 AM Air { 62

Density: Surf. fms.

Wind: Direction N-W Force 3-4

Baromet. 30.12 Amt. of Clouds 8 State of Sea C

Weather bz

Direction and Force of Current { Surface Bottom

Tide

General Locality Off Grays Harbor

Position Grays Harbor light bears S 67 1/2 E (true) distant 21.3 miles

Chart used: No. 6400 Ed'n

Drift: Direction Distance

Depth of Haul

Apparatus and Rig used

Time towing h. m.

Remarks:

Deck Officer McShepley Recorder Parker

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
A	M. Down.	Up. A M.		M. Down.	Up.	M.
8	58 25	8 59 25	0			
8	58 38	8 58 50	53 100			
			200			
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

SOUNDING WIRE.			FMS.	DREDGING CABLE.						
A. M. Down.	Up.	A. M.		M. Down.	Up.	M.				
9	16	28	9	17	40	0				
9	16	45	9	17	00	65	100			
						200				
						300				
						400				
						500				
						600				
						700				
						800				
						900				
						1000				
						1100				
						1200				
						1300				
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						1500				
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						1900				
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						2400				
						2500				
						2600				
						2700				
						2800				
						2900				
						3000				
						3100				
						3200				
						3300				
						3400				
						3500				
						3600				
						3700				
						3800				
						3900				
						4000				
						4100				
						4200				
						4300				
						4400				
						4500				
						4600				
						4700				
						4800				
						4900				

SOUNDING WIRE.					FMS.	DREDGING CABLE.		
A. M. Down.		Up. A. M.				M. Down.	Up.	M.
9	34	41	9	36	00			
9	35	02	9	35	15	64		
					200			
					300			
					400			
					500			
					600			
					700			
					800			
					900			
					1000			
					1100			
					1200			
					1300			
					1400			
					1500			
					1600			
					1700			
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					2000			
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					2400			
					2500			
					2600			
					2700			
					2800			
					2900			
					3000			
					3100			
					3200			
					3300			
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					3600			
					3700			
					3800			
					3900			
					4000			
					4100			
					4200			
					4300			
					4400			
					4500			
					4600			
					4700			
					4800			
					4900			

SOUNDING WIRE.				FMS.	DREDGING CABLE.		
A. M. Down.		Up. A. M.			M. Down.	Up.	M.
9	52	00	9	0			
9	52	21	9	68	100		
					200		
					300		
					400		
					500		
					600		
					700		
					800		
					900		
					1000		
					1100		
					1200		
					1300		
					1400		
					1500		
					1600		
					1700		
					1800		
					1900		
					2000		
					2100		
					2200		
					2300		
					2400		
					2500		
					2600		
					2700		
					2800		
					2900		
					3000		
					3100		
					3200		
					3300		
					3400		
					3500		
					3600		
					3700		
					3800		
					3900		
					4000		
					4100		
					4200		
					4300		
					4400		
					4500		
					4600		
					4700		
					4800		
					4900		

⑦
Dredge } No. 5813 Date, July 20, 1915
Hydrog. }
Sdg. Mch. Electric Reel Ciba Shot/Lead 35 lbs.
Turns _____ Cor'n _____ Depth 73 fms.
Sdg. Cup (Mingstaff cup) Amt. Bot'm Sample _____
Character of Bottom fine (green) sand mica
Thermom. { Make _____ Cor'n { Instr. _____
 { No. _____ { Stem. _____

Bottom Reading _____ Cor'd Temp. _____
Temp. Surf. { 52 Time 10:13 } Air { 61 }
 { _____ Time _____ } { _____ }
Density: Surf. _____ fms. _____
Wind: Direction N-W Force 4
Baromet. 30.13 Amt. of Clouds 10 State of Sea M
Weather Clear

Direction and Force of Current { Surface _____
 { Bottom _____
Tide _____

General Locality Off Washington Coast

Position Grays Harbor Light bear 568° E (true)
Chart used: No. 6400 Ed'n distant 29.5 miles

Drift: Direction _____ Distance _____

Depth of Haul _____

Apparatus and Rig used _____

Time towing _____ h. _____ m.

Remarks: _____

Deck Officer Mr. Shepley Recorder Parker

SOUNDING WIRE.				FMS.	DREDGING CABLE.		
A. M. Down.	Up.	A. M.	M. Down.		Up.	M.	
10 28 10	10 29 50			0			
10 28 33	10 29 00		80	100			
				200			
				300			
				400			
				500			
				600			
				700			
				800			
				900			
				1000			
				1100			
				1200			
				1300			
				1400			
				1500			
				1600			
				1700			
				1800			
				1900			
				2000			
				2100			
				2200			
				2300			
				2400			
				2500			
				2600			
				2700			
				2800			
				2900			
				3000			
				3100			
				3200			
				3300			
				3400			
				3500			
				3600			
				3700			
				3800			
				3900			
				4000			
				4100			
				4200			
				4300			
				4400			
				4500			
				4600			
				4700			
				4800			
				4900			

⑨
Dredge } No. 5815 Date, July 20, 1915
Hydrog. }
Sdg. Mch. Electric Reel Kelp Shot Lead 35 lbs.
Turns _____ Cor'n _____ Depth 84 fms.
Sdg. Cup Spring (soft cup) Amt. Bot'm Sample _____
Character of Bottom Lost lead

Thermom. { Make _____ Cor'n { Instr. _____
 { No. _____ { Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { - 52 Time 10:50 } Air { - 61
 { _____ Time _____ } _____

Density: Surf. _____ fms. _____

Wind: Direction N-W Force 4

Baromet. 30.12 Amt. of Clouds 8 State of Sea M

Weather P.B.M.

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality Off Washington Coast

Position Grays Harbor Light bears S 68° E (true) distant 33.5 miles

Chart used: No. 6400 Ed'n _____

Drift: Direction _____ Distance _____

Depth of Haul _____

Apparatus and Rig used _____

Time towing _____ h. _____ m.

Remarks: Lost lead.

Deck Officer Mr. Shepley Recorder Parker

SOUNDING WIRE.				FMS.	DREDGING CABLE.			
A	M. Down.	Up.	A. M.		M. Down.	Up.	M.	M.
10	46	23	10	0				
10	46	50	10	100				
			48	200				
			20	300				
				400				
				500				
				600				
				700				
				800				
				900				
				1000				
				1100				
				1200				
				1300				
				1400				
				1500				
				1600				
				1700				
				1800				
				1900				
				2000				
				2100				
				2200				
				2300				
				2400				
				2500				
				2600				
				2700				
				2800				
				2900				
				3000				
				3100				
				3200				
				3300				
				3400				
				3500				
				3600				
				3700				
				3800				
				3900				
				4000				
				4100				
				4200				
				4300				
				4400				
				4500				
				4600				
				4700				
				4800				
				4900				

10
Dredge } No. 5816 Date, July 20, 1915
Hydrog. }

Sdg. Mch. Electric Reel Shot Lead 35 lbs.

Turns _____ Cor'n _____ Depth 87 fms.

Sdg. Cup _____ Amt. Bot'm Sample _____

Character of Bottom fine (black) sand

Thermom. { Make _____ Cor'n _____ Instr. _____
 { No. _____ Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { 52 Time 11:06 } Air { 61
 { _____ Time _____ } _____

Density: Surf. _____ fms. _____

Wind: Direction N-W Force 4

Baromet. 80.12 Amt. of Clouds 8 State of Sea M

Weather Berr

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality Off Washington Coast

Position Gray's Harbor Light bears $S68\frac{1}{2}^{\circ}E$ (true) distant 3.5 miles

Chart used: No. 6400 Ed'n _____

Drift: Direction _____ Distance _____

Depth of Haul _____

Apparatus and Rig used _____

Time towing _____ h. _____ m.

Remarks: _____

Deck Officer Mr. Shepley Recorder Parker

SOUNDING WIRE.		FMS.	DREDGING CABLE.		
M. Down.	Up.		A.	M.	M.
11 07 00	11 09 00	0			
11 07 28	11 08 00	87 100			
		200			
		300			
		400			
		500			
		600			
		700			
		800			
		900			
		1000			
		1100			
		1200			
		1300			
		1400			
		1500			
		1600			
		1700			
		1800			
		1900			
		2000			
		2100			
		2200			
		2300			
		2400			
		2500			
		2600			
		2700			
		2800			
		2900			
		3000			
		3100			
		3200			
		3300			
		3400			
		3500			
		3600			
		3700			
		3800			
		3900			
		4000			
		4100			
		4200			
		4300			
		4400			
		4500			
		4600			
		4700			
		4800			
		4900			

SOUNDING WIRE.						FMS.	DREDGING CABLE.		
A M. Down.		Up.	A. M.				--- M. Down.	Up.	--- M.
11	18	02	11	20	15	0			
11	18	32	11	19	10	92			
						100			
						200			
						300			
						400			
						500			
						600			
						700			
						800			
						900			
						1000			
						1100			
						1200			
						1300			
						1400			
						1500			
						1600			
						1700			
						1800			
						1900			
						2000			
						2100			
						2200			
						2300			
						2400			
						2500			
						2600			
						2700			
						2800			
						2900			
						3000			
						3100			
						3200			
						3300			
						3400			
						3500			
						3600			
						3700			
						3800			
						3900			
						4000			
						4100			
						4200			
						4300			
						4400			
						4500			
						4600			
						4700			
						4800			
						4900			

12

Tredge } No. 5818 Date, July 20, 1915
Hydrog. }

Sdg. Mch. Electric Reel file Shot 35 lbs.
Lead

Turns _____ Cor'n _____ Depth 104 fms.

Sdg. Cup Arming (soft soap) Amt. Bot'm Sample

Character of Bottom cross-fine black sand

Thermom. { Make _____ Cor'n { Instr. _____
 { No. _____ { Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { 52 Time 11:35 } Air { 61°
 { _____ Time _____ } { _____

Density: Surf. _____ fms. _____

Wind: Direction N-W Force 4

Baromet. 30.12 Amt. of Clouds 8 State of Sea M

Weather bc

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality Off Washington Coast

Position Gray's Harbor Light bears 56 1/2° E (True) distant 37.8 miles

Chart used: No. 6400 Ed'n 2

Drift: Direction _____ Distance _____

Depth of Haul _____

Apparatus and Rig used _____

Time towing _____ h. _____ m.

Remarks: _____

Deck Officer Mr. Shepley Recorder Parker

SOUNDING WIRE.				FMS.	DREDGING CABLE.		
A. M. Down.		Up.	A. M.		--- M. Down.	Up.	--- M.
11	30	15	11	0			
11	31	10	11	104			
				200			
				300			
				400			
				500			
				600			
				700			
				800			
				900			
				1000			
				1100			
				1200			
				1300			
				1400			
				1500			
				1600			
				1700			
				1800			
				1900			
				2000			
				2100			
				2200			
				2300			
				2400			
				2500			
				2600			
				2700			
				2800			
				2900			
				3000			
				3100			
				3200			
				3300			
				3400			
				3500			
				3600			
				3700			
				3800			
				3900			
				4000			
				4100			
				4200			
				4300			
				4400			
				4500			
				4600			
				4700			
				4800			
				4900			

SOUNDING WIRE.				FMS.	DREDGING CABLE.		
A	M. Down.	Up.	A... M.		... M. Down.	Up.	... M.
11	41	53	11 46 20	0			
11	43	40	11 43 45	194-100			
				200			
				300			
				400			
				500			
				600			
				700			
				800			
				900			
				1000			
				1100			
				1200			
				1300			
				1400			
				1500			
				1600			
				1700			
				1800			
				1900			
				2000			
				2100			
				2200			
				2300			
				2400			
				2500			
				2600			
				2700			
				2800			
				2900			
				3000			
				3100			
				3200			
				3300			
				3400			
				3500			
				3600			
				3700			
				3800			
				3900			
				4000			
				4100			
				4200			
				4300			
				4400			
				4500			
				4600			
				4700			
				4800			
				4900			

Dredge } No. 5820 Date, July 20, 1915
Hydrog. }
Sdg. Mch. Electric Reel Glass Shot/Lead 35 lbs.

Turns _____ Cor'n _____ Depth 90 fms.
Sdg. Cup (Armstrong) Amt. Bot'm Sample _____
Character of Bottom fine (black) sand.

Thermom. { Make _____ Cor'n _____ Instr. _____
 { No. _____ Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { 53 Time 12:17 } Air { 62°
 { _____ Time _____ } _____

Density: Surf. _____ fms. _____

Wind: Direction N-W Force 3

Baromet. 30.11 Amt. of Clouds 5 State of Sea M.

Weather b-c.

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality Off Washington Coast

Position Grays Harbor Light bears 56 7/2° E (true) distant 3.5 miles

Chart used: No. 6400 Ed'n _____

Drift: Direction _____ Distance _____

Depth of Haul _____

Apparatus and Rig used _____

Time towing _____ h. _____ m.

Remarks: _____

Deck Officer Mr. Shepley Recorder Parker

Dredge } No. 5821 Date, July 20, 19 15
Hydrog. }

Sdg. Mch. Electric Reel E.L. Shot/Lead 35 lbs.

Turns _____ Cor'n _____ Depth 82 fms.

Sdg. Cup Arming (Sft. Sops) Amt. Bot'm Sample _____

Character of Bottom Clean Lead

Thermom. { Make _____ Cor'n { Instr. _____
 { No. _____ { Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { 53.0 Time 12:37 P } Air { 62.50
 { _____ Time _____ } { _____

Density: Surf. _____ fms. _____

Wind: Direction NW Force 3

Baromet. 30.11 Amt. of Clouds 5 State of Sea TT

Weather bc

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality Off Washington Coast

Position Gray Harbor Light bears S 67° E (true) distant 33.5 miles

Chart used: No. 6400 Ed'n _____

Drift: Direction _____ Distance _____

Depth of Haul _____

Apparatus and Rig used _____

Time towing _____ h. _____ m.

Remarks: _____

Deck Officer Mr. Cassidy Recorder J. A. Hill

SOUNDING WIRE.				FMS.	DREDGING CABLE.					
△ M. DOWN.	UP.	△ M. M. DOWN.		UP. M.				
12	33	00	12	25	30					
12	34	00	12	34	05	82	100			
						200				
						300				
						400				
						500				
						600				
						700				
						800				
						900				
						1000				
						1100				
						1200				
						1300				
						1400				
						1500				
						1600				
						1700				
						1800				
						1900				
						2000				
						2100				
						2200				
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						4200				
						4300				
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						4800				
						4900				

SOUNDING WIRE.			FMS.	DREDGING CABLE.						
M. Down.	Up.	M.		M. Down.	Up.	M.				
12	52	55	12	55	20					
12	54	00	12	54	05					
			0							
			100							
			200							
			300							
			400							
			500							
			600							
			700							
			800							
			900							
			1000							
			1100							
			1200							
			1300							
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