

H5775

507

Dredge } No. H5775 Date, July 9, 1915
Hydrog. }

Sdg. Mch. Electric Reel E1 ~~Shot~~ } 30 lbs.
Lead }

Turns 110 Cor'n _____ Depth 60 fms.

Sdg. Cup Arming (Sft. Soap) Amt. Bot'm Sample - foot lead

Character of Bottom - foot lead

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

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { 54° Time 7:37 a } Air { 60°
 { _____ Time _____ } { _____

Density: Surf. _____ fms. _____

Wind: Direction Westerly Force 2

Baromet. 30.07 Amt. of Clouds 9 State of Sea 9

Weather bc

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality Off Columbia River

Position North Head bears N 56° E (true) distant 12.8 miles
Chart used: No. 6100 Ed'n 6

Drift: Direction _____ Distance _____

Depth of Haul _____

Apparatus and Rig used _____

Time towing _____ h. _____ m.

Remarks: _____

foot lead just as it was at the tail, coming up.

E 55 turns, Meter 110; actual 60 fms.

Deck Officer Mr. Glick Recorder ATK

SOUNDING WIRE.				FMS.	DREDGING CABLE.		
<i>A.</i> M. Down.	Up.	<i>A.</i> M.	M. Down.		Up.	M.	
<i>7</i>	<i>5700</i>	<i>7</i>	<i>5800</i>	0			
<i>7</i>	<i>5730</i>	<i>7</i>	<i>5730</i>	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 18 10	8 20 50			0			
8 18 50	8 19 30			100			
8 19 00	8 19 00		130	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			

SOUNDING WIRE.

FMS.

DREDGING CABLE.

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

M. Down. | Up. | M.

8 53 10 8 54 30
8 53 40 8 53 40

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. 578
Hydrog. } Date. / / , 19

Sdg. Mch. Reel Shot/Lead lbs.

Turns Cor'n Depth 74 fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom (1) 2/2 fine M.S.

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

Bottom Reading Cor'd Temp.

Temp. Surf. { 55° Time 9:06 } .1ir { 66° Time

Density: Surf. fms.

Wind: Direction West Force 2-3

Baromet. 30.09 Amt. of Clouds 7 State of Sea

Weather b.c

Direction and Force of Current { Surface Bottom

Tide

General Locality

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

Chart used: No. 6100 Ed'n

Drift: Direction Distance

Depth of Haul

Apparatus and Rig used

Remarks: E.L. / Time towing h. m.

Deck Officer Recorder

SOUNDING WIRE.

DREDGING CABLE.

FMS.

M. Down. | Up. | M.

M. Down. | Up. | M.

M. Down.	Up.	M.	FMS.
2	40	9	0
9	03	12	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. H 5781 Date, July 1, 1911
Hydrog. }

Sdg. Mch. _____ Reel _____ Shot } 50 lbs.
Lead }

Turns _____ Cor'n _____ Depth 70 fms.

Sdg. Cup _____ Amt. Bot'm Sample _____

Character of Bottom _____ fine sand

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

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { Time 4:55 } Air { 61
Time _____ } _____

Density: Surf. _____ fms. _____

Wind: Direction SE Force _____

Baromet. 29.90 Amt. of Clouds _____ State of Sea _____

Weather b.c.

Direction and Force of Current { Surface _____
Bottom _____

Tide _____

General Locality _____

Position North Head bears S85°E (true) distant
18.1 miles

Chart used: No. 6100 Ed'n 17.8

Drift: Direction _____ Distance _____

Depth of Haul _____

Apparatus and Rig used _____

Time towing _____ h. _____ m.

Remarks: ()

Dredge } No. H5-782 Date, _____, 19____
Hydrog. }
Sdg. Mch. Electric Reel 1 Shot/Lead 20 lbs.

Turns _____ Cor'n _____ Depth 76 1/2 fms.
Sdg. Cup _____ Amt. Bot'm Sample _____
Character of Bottom Yel. loam sand; green mud

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

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { _____ Time _____ } Air { _____
 { _____ Time _____ }

Density: Surf. _____ fms. _____

Wind: Direction SE Force 2-3

Baromet. 30.00 Amt. of Clouds 7 State of Sea 9

Weather _____

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality _____

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: 1/2 _____

Deck Officer _____ Recorder J. S. F.

SOUNDING WIRE.

M. Down.	Up.	M.
20		

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

SOUNDING WIRE.

FMS.

DREDGING CABLE.

A M. DOWN. | Up. | A. M.

--- M. DOWN. | Up. | --- M.

193.2 | 40 | 9 | 34 | 05

70' 100

				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			

SOUNDING WIRE.		FMS.	DREDGING CABLE.		
M. Down.	Up.		M.	Up.	M.
81-30	74-30	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			

SOUNDING WIRE.

M. Down. Up. M.

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

SOUNDING WIRE.

FMS.

DREDGING CABLE.

M. Down.	Up.	M.	FMS.	M. Down.	Up.	M.
1002	53	13	0			
202	20	54	100			
11330		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. 1 Date, 11, 19

Sdg. Mch. Reel Shot/Lead lbs.

Turns Cor'n Depth 88 1/2 fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom Black sand

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

Bottom Reading Cor'd Temp.

Temp. Surf. { 55 Time 10:24 } . Air { Time }

Density: Surf. fms.

Wind: Direction Force

Baromet. Amt. of Clouds 6 State of Sea 2

Weather

Direction and Force of Current { Surface Bottom

Tide

General Locality

Position North Head bears S 72° E (true) distant 20.8 miles

Chart used: No. 6100 Ed'n

Drift: Direction Distance

Depth of Haul

Apparatus and Rig used

Remarks: Time towing h. m.

Deck Officer Recorder

SOUNDING WIRE.

M. DOWN. | Up. | M.

11 / 21
20

FMS.

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

DREDGING CABLE.

M. DOWN. | Up. | M.

SOUNDING WIRE.

A. M. Down.	Up.	A. M.
1027 1/2	1030	
1027 1/2	1030	

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. 789 Date, October 10, 1915
Hydrog. }
Sdg. Mch. Sigsbee Reel 6000 Shot Lead 30 lbs.

Turns _____ Cor'n _____ Depth _____ fms.

Sdg. Cup (Dredge) Amt. Bot'm Sample _____

Character of Bottom _____

Thermom. { Make V No. 0 Cor'n _____ } Instr. _____ Stem _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { _____ Time _____ } Air { _____ Time _____ }

Density: Surf. _____ fms. _____

Wind: Direction N.W. Force _____

Baromet. 30.08 Amt. of Clouds 6 State of Sea _____

Weather F.C.

Direction and Force of Current { Surface _____ Bottom _____ }

Tide _____

General Locality Off mouth of Hudson

Position North Head bears S 7 1/2° E (true) distant 17.6 miles

Chart used: No. 6100 Ed'n _____

Drift: Direction _____ Distance _____

Depth of Haul _____

Apparatus and Rig used _____

Time towing _____ h. _____ m.

Remarks F 76

SOUNDING WIRE.		FMS.	DREDGING CABLE.		
A. M. Down.	Up. A. M.		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			

SOUNDING WIRE.

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

FMS.

DREDGING CABLE.

M. Down. | Up. | M.

11 2 3 3
11 3 0 0

57 100

- 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

SOUNDING WIRE.

DREDGING CABLE.

FMS.

M. Down. | Up. | M.

M. Down. | Up. | M.

11 22 27 31 35 39 43 47 51 55 59 63 67 71 75 79 83 87 91 95 99 103 107 111 115 119 123 127 131 135 139 143 147 151 155 159 163 167 171 175 179 183 187 191 195 199 203 207 211 215 219 223 227 231 235 239 243 247 251 255 259 263 267 271 275 279 283 287 291 295 299 303 307 311 315 319 323 327 331 335 339 343 347 351 355 359 363 367 371 375 379 383 387 391 395 399 403 407 411 415 419 423 427 431 435 439 443 447 451 455 459 463 467 471 475 479 483 487 491 495 499

- 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. H 5792 Date, _____, 19__
Hydrog. } 11/16

Sdg. Mch. Lucas Reel Lucas Shot/Lead _____ lbs.

Turns _____ Cor'n _____ Depth 217.5 fms.

Sdg. Cup Lucas Amt. Bot'm / Sample _____

Character of Bottom _____

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

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { Time _____ } Air { _____
 { Time _____ } { _____

Density: Surf. _____ fms. _____

Wind: Direction _____ Force _____

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

Weather b.c.

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality mouth Columbia River

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

Chart used: No. 6100 Ed'n _____

Drift: Direction _____ Distance _____

Depth of Haul _____

Apparatus and Rig used _____

Time towing _____ h. _____ m.
Remarks: F. Note, 1st 200

SOUNDING WIRE.		FMS.	DREDGING CABLE.		
M. Down.	Up.		M.	Up.	M.
12453		0			
12454		100			
12454		200			
12454		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.
1	16	30	0			
1	17	05	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. 177 Date, July 10, 1902
 Hydrog. }
 Sdg. Mch. _____ Reel V Shot/Lead _____ lbs.
 Turns _____ Cor'n _____ Depth 111 fms.
 Sdg. Cup _____ Amt. Bot'm Sample _____
 Character of Bottom _____

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

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { 56° Time 1:49 } Air {
 { _____ Time _____ }

Density: Surf. _____ fms. _____

Wind: Direction variable Force _____

Baromet. 30.09 Amt. of Clouds _____ State of Sea _____

Weather b. c.

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality _____

Position North Head bears N 85° E (true) distant
17.8 miles
 Chart used: No. 6100 Ed'n _____

Drift: Direction _____ Distance _____

Depth of Haul _____

Apparatus and Rig used _____

Time towing _____ h. _____ m.
 Remarks E. 10/11 _____

Deck Officer _____ Recorder [Signature]
 11-1023

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		M. Down.	Up.	M.
			0			
1	39	1	100			
1	39	1	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.

M. Down. | Up. | M.

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. _____ Date, May 9, 1910
Hydrog. }
Sdg. Mch. _____ Reel 611 Shot } lbs.
Lead }
Turns _____ Cor'n _____ Depth 81 1/2 fms.

Sdg. Cup _____ Amt. Bot'm Sample _____
Character of Bottom fine (s) (m) (sh)

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

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { _____ Time _____ } Air { _____
 { _____ Time _____ }

Density: Surf. _____ fms. _____

Wind: Direction Light Force _____

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

Weather _____

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality _____

Position North Head bears N ^{87 1/2} 88° E (true) distant 19.6 miles

Chart used: No. 6100 Ed'n _____

Drift: Direction _____ Distance _____

Depth of Haul _____

Apparatus and Rig used _____

Time towing _____ h. _____ m.

Remarks: _____

Deck Officer _____ Recorder _____

SOUNDING WIRE.

FMS.

DREDGING CABLE.

M. Down. | Up. | M.

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

Trawl Hydrog. No. 15 Date, , 191-

Sdg. Mch. *Curtis* Reel *6* Shot Lead 30 lbs.

Turns Cor'n Depth 77' 2 fms.

Sdg. Cup *Clemens* Amt. Bot'm Sample

Character of Bottom *fine M. S.*

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

Bottom Reading Cor'd Temp.

Temp. Surf. { 56° Time 2:15 } Air { 66° Time

Density: Surf. fms.

Wind: Direction *S. W.* Force 3

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

Weather *bcy*

Direction and Force of Current { Surface Bottom

Tide

General Locality *North Head*

Position *North Head bears N 87° E (true) distant 20.2 miles*

Chart used: No. 6100 Ed'n

Drift: Direction Distance

Depth of Haul

Apparatus and Rig used

Time towing h. m.

Remarks: *E. by N. 192 77/2*

Deck Officer *W. L. ...* Recorder *W. L. ...*

SOUNDING WIRE.

FMS.

DREDGING CABLE.

M. Down. | Up. | 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

SOUNDING WIRE.						FMS.	DREDGING CABLE.		
P. M. Down.		Up.	P. M.				M. Down.	Up.	M.
2	23	50	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			

SOUNDING WIRE.						FMS.	DREDGING CABLE.		
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. 3-502 Date, _____, 1915

Sdg. Mch. Lucas Reel Shot Lead 30 lbs.

Turns _____ Cor'n _____ Depth 204 1/2 fms.

Sdg. Cup Osney Int. Bot'm Sample

Character of Bottom _____

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

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { 56° Time 2:50 P } Air { 66° Time _____

Density: Surf. _____ fms. _____

Wind: Direction N Force 3

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

Weather bez

Direction and Force of Current { Surface _____ Bottom _____

Tide _____

General Locality _____

Position North Head bears N 86 1/2° E (true) distant 23.5 mile

Chart used: No. 6100 Ed'n _____

Drift: Direction _____ Distance _____

Depth of Haul _____

Apparatus and Rig used _____

Remarks: 2 1/2 hrs; Trawl ... 274 ...

Deck Officer _____ Recorder _____

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		M. Down.	Up.	M.
2	43	50	2	47	45	0
2	44	30	2	46	30	100
2	45	10	2	45	15	191 200
						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.
3	12	40	3	14	20	
3	13	10	3	13	13	
				74	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.

M. Down. Up. M.

M. Down. Up. M.

3 38 40 3 40 15 0

3 39 10 3 39 15 75 100

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

X

Hydrog. No. 5505 Date, Aug 1911

Sdg. Mch. Reel Shot/Lead 30 lbs.

Turns Cor'n Depth 292 fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom No. 1

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

Bottom Reading Cor'd Temp.

Temp. Surf. { Time Air {

Density: Surf. fms.

Wind: Direction 11 Force

Baromet. 30.09 Amt. of Clouds 4 State of Sea

Weather

Direction and Force of Current { Surface Bottom

Tide

General Locality

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:

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		M. Down.	Up.	M.
4			0			
4			100			
4			200			
4			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. 117 Date, _____, 19____
Hydrog. }
Sdg. Mch. _____ Reel _____ Shot } 30 lbs.
Lead }
Turns _____ Cor'n _____ Depth _____ fms.
Sdg. Cup _____ Amt. Bot'm Sample _____
Character of Bottom _____

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

Bottom Reading _____ Cor'd Temp. _____

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

Density: Surf. _____ fms. _____

Wind: Direction SW Force _____

Baromet. 30.07 Amt. of Clouds 4 State of Sea S

Weather _____

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality _____

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

Chart used: No. 6100 Ed'n _____

Drift: Direction _____ Distance _____

Depth of Haul _____

Apparatus and Rig used _____

Time towing: _____ h. _____ m.
Remarks: _____

Deck Officer Mr. Glick Recorder _____

SOUNDING WIRE.

M. Down. Up. M.

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

①
Dredge } No. 5807 Date, July 30, 1915
Hydrog. }
Sdg. Mch. Elect Reel H Shot/Lead 35 lbs.
Turns _____ Cor'n _____ Depth 46 fms.

Sdg. Cup _____ Amt. Bot'm Sample _____
Character of Bottom 20 G

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

Bottom Reading _____ Cor'd Temp. _____
Temp. Surf. { 52° Time 8:25 AM } Air { 62°
 { _____ Time _____ } _____

Density: Surf. _____ fms. _____

Wind: Direction NW Force 3

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

Weather hazy

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality Off Grays Harbor, Wash.

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. A. Smith
11-1023

SOUNDING WIRE.

M. Down.			Up.	M.		
8	41	ω	8	42	ω	
8	41	30	8	42	ω	

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

3

Hydrog. No. 5809 Date, , 19

Sdg. Mch. Reel Shot/Lead lbs.

Turns Cor'n Depth 33 fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom 0 fine (black) sand

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

Bottom Reading Cor'd Temp.

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

Density: Surf. fms.

Wind: Direction N-W Force 3-4

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

Weather bc.

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 Recorder

SOUNDING WIRE.

M. Down. | Up. | M.

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. 20 Date, _____, 19__
Hydrog. }

Sdg. Mch. _____ Reel _____ Shot/Lead 5 lbs.

Turns _____ Cor'n _____ Depth 6 fms.

Sdg. Cup _____ Amt. Bot'm Sample _____

Character of Bottom (fine (sandy)) - 1 Miss No

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

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { 52 Time 9:38 } Air { 61°
 { _____ Time _____ } { _____

Density: Surf. _____ fms. _____

Wind: Direction _____ Force _____

Baromet. 30.12 Amt. of Clouds 10 State of Sea _____

Weather _____

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality Off Washington Coast

Position Grays Harbor Light bears 68° ~~57~~ 67° E (true) distant 25.5 miles

Chart used: No. 6400 Ed'n _____

Drift: Direction _____ Distance _____

Depth of Haul _____

Apparatus and Rig used _____

Time towing _____ h. _____ m.

Remarks: _____

SOUNDING WIRE.

A	M. DOWN.	UP.	M.
9	3		
9			

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

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		M. Down.	Up.	M.
9 15 21 20	9 15 21 20		0			
12 42 1	9 15 21 50	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			

SOUNDING WIRE.

DREDGING CABLE.

FMS.

M. Down. Up. M.

M. Down. Up. M.

10 10 08
10 10 51

- 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

SOUNDING WIRE.		FMS.	DREDGING CABLE.			
M. Down.	Up.		A. M.	M. Down.	Up.	M.
10	28	19				
		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. 578 Date, _____, 19__
Hydrog. }
Sdg. Mch. *Whitcomb* Reel *1047* Shot } lbs.
Lead }
Turns _____ Cor'n _____ Depth *84* fms.
Sdg. Cup _____ Amt. Bot'm Sample _____
Character of Bottom *(1) 7 sand*

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

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { _____ Time _____ } Air { _____
 { _____ Time _____ }

Density: Surf. _____ fms. _____

Wind: Direction *N-W* Force *4*

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

Weather *W, S*

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: _____

Deck Officer *W. A. ...* Recorder *J. ...*

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		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			
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			2500			
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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.

DREDGING CABLE.

FMS.

SOUNDING WIRE.		FMS.	DREDGING CABLE.		
M. Down.	Up.		A.	M.	M.
11 07 00	11 09 20	0			
11 07 28	11 09 45	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. 5817 Date, 1, 19 ..

Sdg. Mch. Lucas Reel / Shot / Lead lbs.

Turns ----- Cor'n ----- Depth 4 fms.

Sdg. Cup ----- Amt. Bot'm Sample ..

Character of Bottom 1 fine black sand

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

Bottom Reading ----- Cor'd Temp. ..

Temp. Surf. { Time 11:22 } Air { Time -----

Density: Surf. ----- fms. -----

Wind: Direction ----- Force -----

Baromet. ----- Amt. of Clouds ----- State of Sea -----

Weather -----

Direction and Force of Current { Surface ----- Bottom -----

Tide -----

General Locality Off Washington Coast

Position Gray's Harbor Light bears S 68 1/2° E (true) distant 3.6 miles

Chart used: No. 6400 Ed'n -----

Drift: Direction ----- Distance -----

Depth of Haul -----

Apparatus and Rig used -----

Time towing ----- h. ----- m.

Remarks: -----

Deck Officer W. S. ... Recorder ...

SOUNDING WIRE.

FMS.

DREDGING CABLE.

A M. Down. Up. A M.

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

A M. Down.	Up.	A M.	FMS.
			0
11		205	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

Dredge } No. _____ Date, Jan 20, 19 10

Hydrog. }
Sdg. Mch. _____ Reel W. H. C. Shot } _____ lbs.
Leads } _____

Turns _____ Cor'n _____ Depth 104 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. { _____ Time _____ }
 { _____ Time _____ } { Air } _____

Density: Surf. _____ fms. _____

Wind: Direction _____ Force _____

Baromet. _____ Amt. of Clouds _____ State of Sea _____

Weather _____

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 37.6 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 _____ Recorder _____

SOUNDING WIRE.

DREDGING CABLE.

FMS.

M. Down. Up. M.

M. Down. Up. M.

11 30 10 11 32 50
 11 31 10 11 31 30

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. 5819 Date, _____, 19

Sdg. Mch. _____ Reel _____ Shot / Lead _____ lbs.

Turns _____ Cor'n _____ Depth 194 fms.

Sdg. Cup _____ Amt. Bot'm Sample _____

Character of Bottom _____

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

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { 52 Time 11:50 } Air { _____
 { _____ Time _____ } _____

Density: Surf. _____ fms. _____

Wind: Direction V-VV Force 3

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

Weather _____

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality Off Washington Coast

Position Gray Harbor Light bears S 68 1/2° E (true) distant 38.6 miles

Chart used: No. 6400 Ed'n _____

Drift: Direction _____ Distance _____

Depth of Haul _____

Apparatus and Rig used _____

Time towing _____ h. _____ m.

Remarks:

Deck Officer _____ Recorder _____

SOUNDING WIRE.

A M. Down. Up. M.

11 | 43 | 40

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. _____ Date, _____, 19

Sdg. Mch. _____ Reel _____ Shot } 35 lbs.
Lead }

Turns _____ Cor'n _____ Depth _____ fms.

Sdg. Cup _____ Amt. Bot'm Sample _____

Character of Bottom _____

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

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { _____ Time / 12:17 } Air { _____
 { _____ Time _____ } { _____

Density: Surf. _____ fms. _____

Wind: Direction N-W Force 3

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

Weather _____

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality Off Washington Coast

Position Grays Harbor Light bears S 67 1/2° 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:

SOUNDING WIRE.

FMS.

DREDGING CABLE.

P.M. Down. | Up. | M.

M. Down. | Up. | M.

	0		
	100		
	200		
	300		
	400		
	500		
	600		
	700		
	800		
	900		
	1000		
	1100		
	1200		
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	2100		
	2200		
	2300		
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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		

SOUNDING WIRE.		FMS.	DREDGING CABLE.		
M. Down.	Up.		M.	Up.	M.
12 33 00	12 35 30	0			
12 34 00	12 34 05	62 400			
		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.
12 52 55	12 55 20		0			
12 54 00	12 54 05		100			
			200			
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
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			1700			
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			1900			
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			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.		
P. M. Down.		Up.	P. M.				M. Down.	Up.	M.
1	12	30	1	14	20	0			
1	12	55	1	13	00	68			
						100			
						200			
						300			
						400			
						500			
						600			
						700			
						800			
						900			
						1000			
						1100			
						1200			
						1300			
						1400			
						1500			
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						1700			
						1800			
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