

N<sup>o</sup> 12

5565

5610

Albatross

AND  
del.



Last N. no. 4933.

Dredge } No. 575 Date, Sep. 21, 1909  
Hydrog. }

Sdg. Mch. Lucas Reel I Shot } 35 lbs.  
Lead }

Turns 243 Cor'n - Depth 243 fms.

Sdg. Cup Sigsbee Amt. Bot'm Sample sm. amt.

Character of Bottom S. bk. Sh.

Thermom. { Make W. G. Cor'n { Instr. - .7  
No. 108015 Stem.

Bottom Reading 53° Cor'd Temp. 52.3

Temp. Surf. { 84° Time 1:00 P. Air { 86°  
84° Time 1:22 P. 86°

Density: Surf. \_\_\_\_\_ fms. \_\_\_\_\_

Wind: Direction E by N - SE Force 2 - 3

Baromet. 29.86 Amt. of Clouds 7 State of Sea S

Weather bc

Direction and Force of Current { Surface \_\_\_\_\_  
Bottom \_\_\_\_\_

Tide \_\_\_\_\_

General Locality North of Tawi Tawi

Darame I (N) S 69° W - Bastas I (wind)

Position 5° 51' 42" N - 120° 30' 30" E

Chart used: No. 4722 Ed'n \_\_\_\_\_

Drift: Direction N 45° E Distance 0.7 m.

Depth of Haul Bottom

Apparatus and Rig used 9' Tanner; 3 glass fts;  
2 wing wts.; 1 tail wt.; mud bag.

Time towing \_\_\_\_\_ h. 21 m.

Remarks: \_\_\_\_\_

Deck Officer Mr. Hazard Recorder Atukit

SOUNDING WIRE.

FMS.

DREDGING CABLE.

Ⓟ M. Down. Up. Ⓟ M.

Ⓟ M. Down. Up. Ⓟ M.

SOUNDING WIRE.		FMS.	DREDGING CABLE.					
Ⓟ M. Down.	Up.		Ⓟ M.	Ⓟ M.				
12	30 00	12	35 35	0	12	41 20	12	26 10
	30 55		34 40	100		45 00		33 00
	31 50		33 50	200		48 40		30 00
12	37 20	12	33 20	243	300	52 10		27 05
				400		56 10		24 05
				500		1 00 20	1	21 05
				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				

136

N 4° W

Sammi d (m) 869 m

6.

Dredge } No. 5566 Date, Sep. 21, 1909

Sdg. Mch. Lucas Reel L. Shot/Lead 35 lbs.

Turns 244 Cor'n - Depth 244 fms.

Sdg. Cup Sigbee Amt. Bot'm Sample Sml. Amt.

Character of Bottom fm. S. S.

Thermom. { Make T.G. Cor'n { Instr. - .7  
                  { No. 108015                    { Stem.

Bottom Reading 53.2° Cor'd Temp. 52.5

Temp. Surf. { 84° Time 2:00 p.m. } Air { 84°  
                  { 84° Time 2:35 p.m. }            { 84.5°

Density: Surf. \_\_\_\_\_ fms.

Wind: Direction SE Force 3

Baromet. 29.82 Amt. of Clouds 7 State of Sea S

Weather bz

Direction and Force of Current { Surface \_\_\_\_\_  
  { Bottom \_\_\_\_\_

Tide \_\_\_\_\_

General Locality North of Tawi Tawi

Damme I (N) S 67° W - Basbas I (m.d)

Position 5° 52' 12" N - 120° 31' 00" E

Chart used: No. 4722 Ed'n -

Drift: Direction N 56° E Distance 1.6 m.

Depth of Haul Bottom

Apparatus and Rig used As before, minus mud bag

Time towing - h. 27 m.

Remarks:

Deck Officer Mr. Hazard Recorder A. K. K. -

SOUNDING WIRE.

M. Down. Up. M.

FMS.

DREDGING CABLE.

M. Down. Up. M.

1 40 00 1 45 30  
 41 00 44 30  
 41 50 43 40  
 1 42 10 1 43 10

244 300

1 48 00 2 49 30  
 51 50 46 20  
 53 40 43 20  
 57 20 40 25  
 2 04 50 37 55  
 2 06 50 2 34 15

137

N 7° W.

30 ammi d (m) 867 m  
 6.8

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. 5567 Date, Sep 21, 1909.  
Hydrog. }  
Sdg. Mch. Lucas Reel L Shot/Lead 35 lbs.  
Turns 268 Cor'n - Depth 268 fms.  
Sdg. Cup Sigsbee Amt. Bot'm Sample Trace  
Character of Bottom fine S

Thermom. { Make T.B. Cor'n { Instr. 4.7  
              { No. 108015.                { Stem.  
Bottom Reading 52.7° Cor'd Temp. 52.0  
Temp. Surf. { 83° Time 4:00p. } Air { 85.5°  
               { 83° Time 4:27p. }       { 84°

Density: Surf. \_\_\_\_\_ fms. \_\_\_\_\_  
Wind: Direction SE Force 2-3  
Baromet. 29.82 Amt. of Clouds 5 State of Sea S  
Weather fog.

Direction and Force of Current { Surface \_\_\_\_\_  
  { Bottom \_\_\_\_\_  
Tide \_\_\_\_\_

General Locality North of Tawi Tawi  
Damme I (N) N 81° W - Dasaan Id.  
Position 5° 48' 00" N - 120° 33' 45" E.

Chart used: No. 4722. Ed'n -  
Drift: Direction N 71° E Distance 1.2 m.  
Depth of Haul Bottom  
Apparatus and Rig used As before, plus mudbag.

Time towing - h. 2 1/2 m.

Remarks:

Deck Officer Mr. Hazard Recorder A. R. K. L. L.  
Mr. Rohango. C. C. DeLay.  
11-1023



SOUNDING WIRE.				FMS.	DREDGING CABLE.			
M. Down.	Up.	M.			M. Down.	Up.	M.	
3	33 00	3	38 55	0	3	43 45	4	43 55
	32 55		38 05	100		47 50		40 30
	34 50		37 20	200		51 20		37 25
3	35 35	3	36 35	268	300	54 40		34 15
				400		57 10		31 10
				500		4 02 35		28 00
				550	600	4 04 30	4	26 00
				700				
				800				
				900				
				1000				
				1100				
				1200				
				1300				
				1400				
				1500				
				1600				
				1700				
				1800				
				1900				
				2000				
				2100				
				2200				
				2300				
				2400				
(S) S 62° W.				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				

138

Dammed (W) R 81/2

9.

Dredge } No. 5268 Date, Sept 2 1922, 1909  
Hydrog }

Sdg. Mch. ----- Reel ----- Shot } lbs.  
Lead }

Turns ----- Cor'n ----- Depth 1-2 1/2 fms.

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

Character of Bottom S, Co

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

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

Temp. Surf. { 83° Time 6:45 } Air { 82°  
82° Time 6:00 } 82°

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

Wind: Direction Various Force 0 to 3

Baromet. 29.85-29.92 Amt. of Clouds 1 to 7 State of Sea 2

Weather Squally

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

Tide -----

General Locality Singaan Id (B) West; Singaan Id (S) S 27° W; N. of Tawi Tawi

Position 5° 45' 50" N; 120° 26' 00" E

Chart used: No. 4722 Ed'n -----

Drift: Direction T Distance -----

Depth of Haul surface

Apparatus and Rig used 9' Intermediate over side at surface while at anchor

Time towing 1 h. 20 m.

Remarks: Ship at anchor

Deck Officer ----- Recorder -----

C. H. Long

SOUNDING WIRE.

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

FMS.

DREDGING CABLE.

P. M. DOWN. | Up. A. 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

*Sept 18 1892*  
*6 35 00*     *13 00*

*139*

*(2) 18 1892*

*7 1892*

Dredge } No. 1 ✓ Date, \_\_\_\_\_, 1911

Sdg. Mch. Lucas Reel H Shot 35 lbs.

Turns \_\_\_\_\_ Cor'n \_\_\_\_\_ Depth 200 fms.

Sdg. Cup \_\_\_\_\_ Amt. Bot'm Sample \_\_\_\_\_

Character of Bottom 100

Thermom. { Make N.B. Cor'n { Instr. - .7  
                  { No. \_\_\_\_\_                    { Stem. \_\_\_\_\_

Bottom Reading 53 Cor'd Temp. 52.3

Temp. Surf. { Time 8 } Air {  
                  { Time \_\_\_\_\_ } \_\_\_\_\_

Density: Surf. \_\_\_\_\_ fms. \_\_\_\_\_

Wind: Direction N.E. Force 2

Baromet. 29.95 Amt. of Clouds 6 State of Sea S

Weather \_\_\_\_\_

Direction and Force of Current { Surface \_\_\_\_\_  
  { Bottom \_\_\_\_\_

Tide \_\_\_\_\_

General Locality \_\_\_\_\_

Position 33° 15' N 118° 15' W

Chart used: No. 4722 Ed'n \_\_\_\_\_

Drift: Direction 73 E Distance \_\_\_\_\_

Depth of Haul Bottom

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.
16	00	8 22 20	0	8	26	15 9 17 50
			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			

*140*

*(1) 100*

*Similar to*

*100*

*6.3*

Dredge } No. 5 Date, , 19

Sdg. Mch. Reel Shot 5 lbs.

Turns Cor'n Depth fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom

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

Bottom Reading 53 Cor'd Temp. 52.3

Temp. Surf. { Time Air {

Density: Surf. fms.

Wind: Direction Variable Force 1

Baromet. 29.92 Amt. of Clouds 5 State of Sea

Weather

Direction and Force of Current { Surface Bottom

Tide

General Locality

Position Lat 33 15 Long 120 47

Chart used: No. 1722 Rd'n

Drift: Direction N. 45 W Distance 1.0

Depth of Haul Bottom

Apparatus and Rig used As before

Time towing h. m.

Remarks:

Deck Officer Recorder

SOUNDING WIRE.

M. Down. | Up. | M.

FMS.

DREDGING CABLE.

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

SOUNDING WIRE.		FMS.	DREDGING CABLE.		
M. Down.	Up.		A. M. Down.	Up.	A. M.
9 30	1 00	0	10 04	00	11 03 50
43 10	1 30	100	07 45	11	00 40
48 20	2 00	200			
49 30	2 30	300	15 10		
7 10 20	3 00	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			

*Handwritten mark resembling a large '4' or '14'.*

*Handwritten note: "d w) 0 2 6 w."*

*Handwritten note: "3 1/2 1/2"*

*Handwritten number: "51"*

Dredge Hydrog. No. 5711 Date, Sep 22, 1900

Sdg. Mch. Lucas Reel Shot lbs. 25

Turns 340 Cor'n - Depth 340 fms.

Sdg. Cup Cor'n Amt. Bot'm Sample cont. out

Character of Bottom S.S.

Thermom. { Make N.B. Cor'n { Instr. -7  
No. 108 Stem.

Bottom Reading 530 Cor'd Temp. 52.8

Temp. Surf. { 84.0 Time 2:00p } Air { 81.0  
84.0 Time 2:22p } 81.5

Density: Surf. fms.

Wind: Direction ESE Force 3

Baromet. 30.01 Amt. of Clouds 0 State of Sea

Weather bc

Direction and Force of Current { Surface  
Bottom

Tide

General Locality North of ...

Position 1:30 ...

Chart used; No. 4750 Ed'n -

Drift: Direction N.E. Distance 1.4

Depth of Haul Bottom

Apparatus and Rig used ...

Time towing - h. 2 / m.

Remarks:



SOUNDING WIRE.			FMS.	DREDGING CABLE.		
P. M. Down.	Up.	P. M.		P. M. Down.	Up.	P. M.
1 27 40	1	35 25	0	1 38 30	2	40 00
28 35		34 25	100			37 00
29 00		33 30	200			35 00
30 25		32 50	300			33 00
1 31 00	1	32 00	340			31 00
			400			29 00
			500			27 00
			600	2		25 00
			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			

1/3

(7) 2 33 2

1 31 00 (1) 38 30

6.8

Dredge } No. 5772 Date, Feb 22, 1909  
Hydrog. }

Sdg. Mch. Lucas Reel Z Shot/Leads 35 lbs.

Turns 334 Cor'n --- Depth 334 fms.

Sdg. Cup Lucas Amt. Bot'm Sample 1/2

Character of Bottom S

Thermom. { Make J.F. Cor'n { Instr. 7  
                  { No. 108015                    { Stem. ---

Bottom Reading 53° Cor'd Temp. 52.3

Temp. Surf. { 54 Time 3:35 } Air { 52  
                  {                    {                    {

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

Wind: Direction SW Force 3-2

Baromet. --- Amt. of Clouds 5 State of Sea S

Weather ---

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

Tide ---

General Locality North of Tami Tami

Position 122° 45' E

Chart used: No. 4722 Ed'n ---

Drift: Direction --- Distance ---

Depth of Haul ---

Apparatus and Rig used ---

Time towing h. 26 m.

Remarks: ---

SOUNDING WIRE.

DREDGING CABLE.

FMS.

*P* M. Down. Up. *P* M.

*P* M. Down. Up. *P* M.

1	07 20	3	07 00	0
3	00 15		04 00	100
	01 10		15 00	200
	02 10		02 50	300
3	02 20	3	02 20	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	10 15	4	18 50
	15 45		16 10
	19 20		12 25
	23 00		09 15
	25 00		
	30 20		
3	33 30		

*Handwritten scribbles*

*Handwritten scribbles*

*Handwritten notes*

Dredge } No. 5070 Date, Sept 22, 1923  
Hydrog. }

Sdg. Mch. \_\_\_\_\_ Reel \_\_\_\_\_ Shot }  
Leads } lbs.

Turns \_\_\_\_\_ Cor'n \_\_\_\_\_ Depth 12 fms.

Sdg. Cup \_\_\_\_\_ Amt. Bot'm Sample \_\_\_\_\_

Character of Bottom \_\_\_\_\_

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

Bottom Reading \_\_\_\_\_ Cor'd Temp. \_\_\_\_\_

Temp. Surf. { 83° Time 6:05 } Air { 83°  
                  {                 }                 {                 }

Density: Surf. \_\_\_\_\_ fms. \_\_\_\_\_

Wind: Direction Variable Force 1-4

Baromet. 29.69 - 29.76 Amt. of Clouds 1-5 State of Sea \_\_\_\_\_

Weather \_\_\_\_\_

Direction and Force of Current { Surface \_\_\_\_\_  
  { Bottom \_\_\_\_\_

Tide \_\_\_\_\_

General Locality \_\_\_\_\_

Position \_\_\_\_\_

Chart used: No. 4722 Ed'n \_\_\_\_\_

Drift: Direction \_\_\_\_\_ Distance \_\_\_\_\_

Depth of Haul Surface

Apparatus and Rig used 9' net \_\_\_\_\_

Time towing \_\_\_\_\_ h. \_\_\_\_\_ m.

Remarks: Ship at anchor

SOUNDING WIRE.

DREDGING CABLE.

FMS.

M. Down. Up. M.

P.M. Down. Up. P.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

*2*  
*Sept 22* *Sept 23*  
*4 03 00* | *5 45 00*

*45*

*Anniston (N) 2100 F*

*11*



SOUNDING WIRE.

DREDGING CABLE.

FMS.

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

6	56	00	8	04	10
	57	50	8	01	10
7	03	40		58	10
	7	00		55	10
	10	10		52	10

7 5 2 1

46

(22) 668

Dredge } No. \_\_\_\_\_ Date, \_\_\_\_\_, 1915  
Hydrog. }

Sdg. Mch. \_\_\_\_\_ Reel \_\_\_\_\_ Shot } 35 lbs.  
Lead }

Turns 315 Cor'n \_\_\_\_\_ Depth 315 fms.

Sdg. Cup \_\_\_\_\_ Amt. Bot'm Sample \_\_\_\_\_

Character of Bottom VCS

Thermom. { Make MP Cor'n { Instr. -7  
No. 108015. Stem. \_\_\_\_\_

Bottom Reading 55 Cor'd Temp. 52.3

Temp. Surf. { 83° Time 7:35 Air { 83°  
72° Time 12:00

Density: Surf. \_\_\_\_\_ fms. \_\_\_\_\_

Wind: Direction Variable Force 0-1

Baromet. 29.6 Amt. of Clouds 9-10 State of Sea 2

Weather B-0

Direction and Force of Current { Surface \_\_\_\_\_  
Bottom \_\_\_\_\_

Tide \_\_\_\_\_

General Locality North of \_\_\_\_\_

Position 50° 15' N 120° 15' W

Chart used: No. 4514 Ed'n \_\_\_\_\_

Drift: Direction S 86 E Distance 2.2

Depth of Haul \_\_\_\_\_

Apparatus and Rig used \_\_\_\_\_

Time towing \_\_\_\_\_ h. 20 m.

Remarks: \_\_\_\_\_

Deck Officer \_\_\_\_\_ Recorder \_\_\_\_\_



SOUNDING WIRE.

M. Down.	Up.	M.
10	10	0
11	11	100
12	12	200
13	13	300
14	14	400
15	15	500
16	16	600
17	17	700
18	18	800
19	19	900
20	20	1000
21	21	1100
22	22	1200
23	23	1300
24	24	1400
25	25	1500
26	26	1600
27	27	1700
28	28	1800
29	29	1900
30	30	2000
31	31	2100
32	32	2200
33	33	2300
34	34	2400
35	35	2500
36	36	2600
37	37	2700
38	38	2800
39	39	2900
40	40	3000
41	41	3100
42	42	3200
43	43	3300
44	44	3400
45	45	3500
46	46	3600
47	47	3700
48	48	3800
49	49	3900
50	50	4000
51	51	4100
52	52	4200
53	53	4300
54	54	4400
55	55	4500
56	56	4600
57	57	4700
58	58	4800
59	59	4900
60	60	5000

DREDGING CABLE.

FMS.	M. Down.	Up.	M.
0	10	10	0
100	17	17	100
200	23	23	200
300	28	28	300
400	33	33	400
500	36	36	500
600	38	38	600
700	40	40	700
800	42	42	800
900	44	44	900
1000	46	46	1000
1100	48	48	1100
1200	50	50	1200
1300	52	52	1300
1400	54	54	1400
1500	56	56	1500
1600	58	58	1600
1700	60	60	1700
1800	62	62	1800
1900	64	64	1900
2000	66	66	2000
2100	68	68	2100
2200	70	70	2200
2300	72	72	2300
2400	74	74	2400
2500	76	76	2500
2600	78	78	2600
2700	80	80	2700
2800	82	82	2800
2900	84	84	2900
3000	86	86	3000
3100	88	88	3100
3200	90	90	3200
3300	92	92	3300
3400	94	94	3400
3500	96	96	3500
3600	98	98	3600
3700	100	100	3700
3800	102	102	3800
3900	104	104	3900
4000	106	106	4000
4100	108	108	4100
4200	110	110	4200
4300	112	112	4300
4400	114	114	4400
4500	116	116	4500
4600	118	118	4600
4700	120	120	4700
4800	122	122	4800
4900	124	124	4900
5000	126	126	5000

*Handwritten scribbles and marks, possibly 'H' or 'A'.*

*Handwritten notes: "2500 (5000) 2500"*

*Handwritten notes: "3100 (5000) 3100"*

*Handwritten note: "19.2"*

Dredge } No. 277 Date, Jan 23, 1909

Sdg. Mch. Lucas Reel 2 Shot/Lead 1 lbs.

Turns 277 Cor'n - Depth 277 fms.

Sdg. Cup Lucas Amt. Bot'm Sample 1/4

Character of Bottom S.

Thermom. { Make NZ Cor'n { Instr. -7  
                  { No. 108-15                    { Stem.

Bottom Reading 540 Cor'd Temp. 53.3

Temp. Surf. { 84.0 Time 11:00 a. } Air { 84.0  
                  { 84.0 Time 11:31 a. }

Density: Surf. \_\_\_\_\_ fms.

Wind: Direction Variable Force 1-0

Baromet. 30.00 Amt. of Clouds 10 State of Sea S

Weather 00

Direction and Force of Current { Surface \_\_\_\_\_  
  { Bottom \_\_\_\_\_

Tide \_\_\_\_\_

General Locality Off Pt. Dromedario

Mt. Dromedario S 22 W - 5 miles (2)

Position 32° 27' N - 121° 37' W

Chart used: No. 1111 Ed'n \_\_\_\_\_

Drift: Direction S 2 E Distance 1.2

Depth of Haul Bottom

Apparatus and Rig used \_\_\_\_\_

Time towing \_\_\_\_\_ h. 8 m.

Remarks:

Deck Officer \_\_\_\_\_ Recorder \_\_\_\_\_

SOUNDING WIRE.

DREDGING CABLE.

FMS.

M. Down. | Up. | M.

M. Down. | Up. | M.

10' 47 1/2 - 10 52 1/2  
57 1/2  
51 3/4

11 48 1/2  
11 00 1/2  
11 05 1/2

10 54 1/2 10 56 1/2 27)

300  
400  
500  
~~600~~  
700

11 08 1/2  
11 13 1/2  
11 18 1/2  
11 23 1/2  
11 28 1/2

*Handwritten scribbles*

- 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

*Handwritten note*

*Handwritten note*

*Handwritten note*



SOUNDING WIRE.			FMS.	DREDGING CABLE.							
P. M. Down.	Up.	P. M.		P. M. Down.	Up.	P. M.					
2	35	20	2	40	40	0	2	38	30	3	
	36	15		29	30	100		2	46	20	3
	37	10			0	200		2	49	35	3
						300		2	54	40	3
						400		2			3
						500		3			3
						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. 5578 Date, 1/23, 1907

Sdg. Mch. \_\_\_\_\_ Reel \_\_\_\_\_ Shot/Lead \_\_\_\_\_ lbs.

Turns \_\_\_\_\_ Cor'n \_\_\_\_\_ Depth 10 fms.

Sdg. Cup \_\_\_\_\_ Amt. Bot'm Sample \_\_\_\_\_

Character of Bottom \_\_\_\_\_

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

Bottom Reading \_\_\_\_\_ Cor'd Temp. \_\_\_\_\_

Temp. Surf. { 82 Time 8:00 P } Air { 77  
                  { 81 Time 5:50 A }        { 77

Density: Surf. \_\_\_\_\_ fms. \_\_\_\_\_

Wind: Direction S.E. Force 3

Baromet. 29.95 Amt. of Clouds 10 State of Sea \_\_\_\_\_

Weather op

Direction and Force of Current { Surface \_\_\_\_\_  
  { Bottom \_\_\_\_\_

Tide \_\_\_\_\_

General Locality \_\_\_\_\_

Position 54° 4' N 100° 57' W

Chart used: No. 4514 Ed'n \_\_\_\_\_

Drift: Direction \_\_\_\_\_ Distance \_\_\_\_\_

Depth of Haul. Surf. 4'

Apparatus and Rig used \_\_\_\_\_

Time towing \_\_\_\_\_ h. \_\_\_\_\_ m.

Remarks: Ship at anchor

SOUNDING WIRE.

DREDGING CABLE.

M. Down. | Up. | M.

FMS.

*P* M. Down. | Up. | *A* 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

*57*

*at 2500 fms. S 66 E.*

*at 3300 fms. S 112 E.*

*at 3400 fms. S 112 E.*





SOUNDING WIRE.

M. Down. | Up. | M.

FMS.

DREDGING CABLE.

M. Down. | Up. | M.

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			

54

Dredge } No. \_\_\_\_\_ Date, \_\_\_\_\_, 19

Hydrog. }  
Sdg. Mch. \_\_\_\_\_ Reel \_\_\_\_\_ Shot/Lead \_\_\_\_\_ lbs.

Turns \_\_\_\_\_ Cor'n \_\_\_\_\_ Depth \_\_\_\_\_ fms.

Sdg. Cup Sigsbee Amt. Bot'm Sample Trace

Character of Bottom M. S.

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

Bottom Reading \_\_\_\_\_ Cor'd Temp. 55.8

Temp. Surf. { \_\_\_\_\_ Time \_\_\_\_\_ }  
                  { 83                    { 7:56 } . Air { \_\_\_\_\_

Density: Surf. \_\_\_\_\_ fms. \_\_\_\_\_

Wind: Direction \_\_\_\_\_ Force \_\_\_\_\_

Baromet. 29.9 Amt. of Clouds 9 State of Sea S.

Weather \_\_\_\_\_

Direction and Force of Current { Surface \_\_\_\_\_ Bottom \_\_\_\_\_

Tide \_\_\_\_\_

General Locality \_\_\_\_\_

Position \_\_\_\_\_

Chart used: No. 4772 Ed'n \_\_\_\_\_

Drift: Direction S. 16 W. Distance 1.0

Depth of Haul Bottom

Apparatus and Rig used As before

Time towing \_\_\_\_\_ h. / \_\_\_\_\_ m.

Remarks: \_\_\_\_\_

Deck Officer \_\_\_\_\_ Recorder \_\_\_\_\_

SOUNDING WIRE.

M. Down. Up. M.

FMS.

DREDGING CABLE.

M. Down. Up. M.

19 00  
19 40

21 20  
20 40

162

29 00  
32 50  
37 00

05 40  
02 40  
58 00

55

8030

1000

1000

1000

- 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.	A. M.
			0	Out	In	
			100	Sept 25	Sept 26	
			200	5-55 00	6 00	
			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			

57

3:5

Dredge } No. 55 ✓ Date, \_\_\_\_\_, 1900

Sdg. Mch. \_\_\_\_\_ Reel \_\_\_\_\_ Shot/Lead \_\_\_\_\_ lbs.

Turns 890 Cor'n \_\_\_\_\_ Depth 890 fms.

Sdg. Cup Ligabala Amt. Bot'm Sample 40

Character of Bottom gy. M; fine S.

Thermom. { Make H. G. No. \_\_\_\_\_ Cor'n { Instr. -1 Stem. \_\_\_\_\_

Bottom Reading 39 Cor'd Temp. 38.3

Temp. Surf. { 62.0 Time 1:45 } { Time 1:45 } { Air } Density: Surf. \_\_\_\_\_ fms.

Wind: Direction S.W. Force \_\_\_\_\_

Baromet. \_\_\_\_\_ Amt. of Clouds 1 State of Sea 0

Weather \_\_\_\_\_

Direction and Force of Current { Surface \_\_\_\_\_ Bottom \_\_\_\_\_

Tide \_\_\_\_\_

General Locality East of Barneo.

Position 11. 40 N. 173. 30 W.

Chart used: No. NO. 2117 Ed'n \_\_\_\_\_

Drift: Direction S. 17 E. Distance 3.1

Depth of Haul Bottom

Apparatus and Rig used \_\_\_\_\_

float, 1 sand bag.

Time towing h. 1 m.

Remarks:

Deck Officer \_\_\_\_\_ Recorder \_\_\_\_\_

11-1021  
Johnston, H. W. Biller

SOUNDING WIRE.

DREDGING CABLE.

FMS.

M. Down.			Up.			FMS.	M. Down.			Up.			M.
10	00	20	10	18	55	0	10	22	20	12	27	50	
	01	10		18	15	100		25	55		24	50	
	02	05		17	30	200		30	00		22	00	
	03	05		18	50	300		34	25		18	45	
	04	15		16	05	400		37	35		14	20	
	05	25		15	20	500		40	25		11	50	
	06	45		14	30	600		43	15		08	45	
	08	10		13	40	700		46	15		05	55	
				12		800							
10	10	50	10	11	50	890		52	00		59	25	
						1000		53	05		56	10	
						1100		55	00		52	45	
						1200	11	01	10		44	50	
						1800		04	40		45	30	
						1400		07	45		41	20	
						1500		10	45		37	20	
						1600	11	14	55	11	31	55	
						1700							
						1800							
						1900							
						2000							
						2100							
						2200							
						2300							
						2400							
(n)	S. 8	20				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							

58

6.2

Dredge } No. 277 Date, \_\_\_\_\_, 1907  
Hydrog. }

Sdg. Mch. \_\_\_\_\_ Reel \_\_\_\_\_ Shot & Lead \_\_\_\_\_ lbs.

Turns 447 Cor'n \_\_\_\_\_ Depth 447 fms.

Sdg. Cup \_\_\_\_\_ Amt. Bot'm Sample \_\_\_\_\_

Character of Bottom \_\_\_\_\_

Thermom. { Make 43 Cor'n { Instr. 7  
                  { No. 105015-                    { Stem. \_\_\_\_\_

Bottom Reading 41° Cor'd Temp. 40.3

Temp. Surf. { 83° Time 1:53 } Air { 85°  
                  { 84° Time 3:10 }                    { 85°

Density: Surf. \_\_\_\_\_ fms. \_\_\_\_\_

Wind: Direction Various Force 1-2

Baromet. \_\_\_\_\_ Amt. of Clouds 7-8 State of Sea \_\_\_\_\_

Weather copy

Direction and Force of Current { Surface \_\_\_\_\_  
  { Bottom \_\_\_\_\_

Tide \_\_\_\_\_

General Locality \_\_\_\_\_

Position 14° 18' N 118° 55' W

Chart used: No. HO 2117 Ed'n \_\_\_\_\_

Drift: Direction N 70° E Distance \_\_\_\_\_

Depth of Haul \_\_\_\_\_

Apparatus and Rig used \_\_\_\_\_

\_\_\_\_\_

Time towing h. 28 m.

Remarks: \_\_\_\_\_

Deck Officer \_\_\_\_\_ Recorder \_\_\_\_\_



SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	P. M.		M. Down.	Up.	P. M.
			0			
44	35	51	100	2	00	20
45	30	51	200		04	10
46	25	50	300		07	50
47	30	49	400		10	50
1 48	00	1 49	500		14	00
			600		17	00
			700		20	05
			800		23	20
			900			
			1000			
			1100		2	32
			1200		00	2
			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			

61

3.5

Dredge } No. 5-5-84 Date, Sept 27, 19

Sdg. Mch. \_\_\_\_\_ Reel \_\_\_\_\_ Shot & Lead 25 lbs.

Turns 292 Cor'n \_\_\_\_\_ Depth 292 fms.

Sdg. Cup Sigaba Amt. Bot'm Sample 14 oz.

Character of Bottom \_\_\_\_\_

Thermom. { Make W.G. Cor'n { Instr. -7  
No. 105015 Stem. \_\_\_\_\_

Bottom Reading 45 Cor'd Temp. 44.5

Temp. Surf. { 84.2 Time 3:35 } Air { 80  
84.0 Time 4:10 } 81

Density: Surf. \_\_\_\_\_ fms. \_\_\_\_\_

Wind: Direction \_\_\_\_\_ Force \_\_\_\_\_

Baromet. 29.52 Amt. of Clouds 7 State of Sea \_\_\_\_\_

Weather \_\_\_\_\_

Direction and Force of Current { Surface \_\_\_\_\_  
Bottom \_\_\_\_\_

Tide \_\_\_\_\_

General Locality \_\_\_\_\_

Position \_\_\_\_\_

Chart used: No. 11 Ed'n \_\_\_\_\_

Drift: Direction \_\_\_\_\_ Distance \_\_\_\_\_

Depth of Haul bottom

Apparatus and Rig used as before

Time towing h. 20 1/2 m.

Remarks: \_\_\_\_\_

Deck Officer \_\_\_\_\_ Recorder \_\_\_\_\_

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	P. M.		P. M. Down.	Up.	P. M.
			0			
26	254	21	100	38	15	45
			200			
			300			
			400	57	10	32
			500	55	30	26
			600	4	01	30
			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			

62

11. (11.) 11. (11.) 11. (11.)

11. (11.) 11. (11.) 11. (11.)

V

Dredge } No. 4555 Date, 11/11/1907

Hydrog. } Sdg. Mch. Reel Shot/Lead lbs.

Turns 476 Cor'n Depth 476 fms.

Sdg. Cup Amt. Bot'm Sample 2 1/2

Character of Bottom

Thermom. { Make N.G. Cor'n { Instr. -7 No. 108015 Stem.

Bottom Reading 41.8 Cor'd Temp. 41.1

Temp. Surf. { 82 Time 9:24 } Air { 84 Time 9:55 } { 84 85

Density: Surf. fms.

Wind: Direction Force

Baromet. Amt. of Clouds 9 State of Sea

Weather

Direction and Force of Current { Surface Bottom

Tide

General Locality 11 miles S.W. of Cape Cod, East of Nantucket

Position 41° 28' 30" N; 70° 55' 00" W

Chart used: No. 110217 Ed'n

Drift: Direction Distance

Depth of Haul Bottom

Apparatus and Rig used 7' beam trawl, 1' dip net, 3 glass floats

Time towing 2 1/2 h.

Remarks:

Deck Officer Recorder

SOUNDING WIRE.

DREDGING CABLE.

SOUNDING WIRE.		FMS.	DREDGING CABLE.	
M. Down.	Up.		M. Down.	Up. A.M.
8	44 25	0		
	45 15	100	04 45	18 25
	46 10	200	05 30	
	47 00	300	12 40	11 55
	48 00	400	13 50	
8	48 50	500	19 50	05 00
		600	22 40	10 00 05
		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		

63

*[Handwritten notes and scribbles]*



SOUNDING WIRE.		FMS.	DREDGING CABLE.		
A. M. Down.	Up.		A. M.	Up.	<del>A. M.</del>
11 05 10	11 13	0	11 15 00	12 3	
		100			
		200	26 15	24	
11 07 55	10 10	300			
11 08 20	11 09 25	400	34 15	2	
		500			
		600			
		700			
		800			
		900			
		1000			
		1100			
		1200			
		1300			
		1400			
		1500			
		1600			
		1700			
		1800			
		1900			
		2000			
		2100			
		2200			
		2300			
		2400			
Id. (mid) west.		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			

64

(12) 1/2

1/2

Dredge } No. \_\_\_\_\_ Date, \_\_\_\_\_, 19\_\_

Sdg. Mch. Lucas Reel 16 Shot } 35 lbs.

Turns \_\_\_\_\_ Cor'n \_\_\_\_\_ Depth 415 fms.

Sdg. Cup \_\_\_\_\_ Amt. Bot'm Sample \_\_\_\_\_

Character of Bottom gn. m. S. & Co.

Thermom. { Make N. Z. Cor'n { Instr. -17  
No. 108015 Stem. \_\_\_\_\_

Bottom Reading 43 Cor'd Temp. 42.3

Temp. Surf. { Time \_\_\_\_\_ } Air { 84.2  
Time \_\_\_\_\_ } 85.0

Density: Surf. \_\_\_\_\_ fms. \_\_\_\_\_

Wind: Direction Variable Force 1-2

Baromet. 30.1 Amt. of Clouds 1 State of Sea 3

Weather bc

Direction and Force of Current { Surface \_\_\_\_\_  
Bottom \_\_\_\_\_

Tide \_\_\_\_\_

General Locality ...

Position 11° 10' 30" N. 157° 27' 10" W.

Chart used: No. 117 Ed'n \_\_\_\_\_

Drift: Direction S. 15 E. Distance 1.5 m.

Depth of Haul Bottom

Apparatus and Rig used Lucas

Time towing h. 21 m.

Remarks:

Deck Officer ... Recorder ...



SOUNDING WIRE.			FMS.	DREDGING CABLE.		
#	M. DOWN.	UP. # M.		#	M. DOWN.	UP. # M.
2	31 11	31	0	2	42 20	3 58 40
	32 11	32	100			
	33 11	33	200			
	34 11	34	300			
	35 11	35	400			
3	37 11	37	500	3	01 10	41 05
			600		04 45	37 45
			700		08 30	34 20
			800	3	10 30	3 31 30
			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			

66

Hydro. Id. (W) 9.12

Hydro. Id. (W) 9.12

3.1

Dredge } No. 55 Date, 1900

Sdg. Mch. \_\_\_\_\_ Reel \_\_\_\_\_ Shot/Lead \_\_\_\_\_ lbs.

Turns 20 Cor'n \_\_\_\_\_ Depth 11 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 \_\_\_\_\_ } Air { \_\_\_\_\_  
                  { Time \_\_\_\_\_ }                    { \_\_\_\_\_

Density: Surf. \_\_\_\_\_ fms. \_\_\_\_\_

Wind: Direction Various Force 0-1

Baromet. 29.6-29.9 Amt. of Clouds 2-3 State of Sea S

Weather B.C.

Direction and Force of Current { Surface \_\_\_\_\_  
  { Bottom \_\_\_\_\_

Tide \_\_\_\_\_

General Locality Near N.W. 1/4 Sec 16, T. 12 N., R. 10 W., S. 10 E.

Position 4° 14' 30" N. 118° 25' 00" W.

Chart used: No. 117 Ed'n \_\_\_\_\_

Drift: Direction \_\_\_\_\_ Distance \_\_\_\_\_

Depth of Haul Surface

Apparatus and Rig used 10' Intermediate

Time towing \_\_\_\_\_ h. \_\_\_\_\_ m.

Remarks: Stop at anchor

Deck Officer \_\_\_\_\_ Recorder \_\_\_\_\_

SOUNDING WIRE.

DREDGING CABLE.

M. Down. Up. M.

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

FMS.

67

*Handwritten notes and scribbles at the top of the page.*

- 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

*Handwritten notes and scribbles in the lower right section.*

Dredge } No. 559 Date, June 22, 1902

Sdg. Mch. Reel Shot 3 lbs.

Turns 260 Cor'n Depth 260 fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom

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

Bottom Reading 464° Cor'd Temp. 45.7

Temp. Surf. { 82° Time 8:05 Air { 81

Density: Surf. fms.

Wind: Direction Various Force 0-1

Baromet. Amt. of Clouds 2 State of Sea

Weather

Direction and Force of Current { Surface Bottom

Tide

General Locality

Position

Chart used: No. Ed'n

Drift: Direction S. 47 E. Distance

Depth of Haul bottom

Apparatus and Rig used

Time towing h. m.

Remarks:

Deck Officer Recorder

SOUNDING WIRE.

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

FMS.

DREDGING CABLE.

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

7 13 10 | 7 17 00  
 14 05 | 18 00  
 15 00 | 19 10  
 7 16 00 | 7 22 00

0  
 100  
 200  
 300  
 400  
~~450~~  
~~500~~  
 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 22 00 | 8 00 00  
 25 00 |  
 29 45 |  
 34 30 |  
 38 00 | 17 00  
 42 00 |  
 46 00 | 19 00

69

(A.M.) 11.7 30

(A.M.) 11.7 30

(A.M.) 11.7 30

Dredge } No. 5593 Date, \_\_\_\_\_, 19\_\_

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

Turns \_\_\_\_\_ Cor'n \_\_\_\_\_ Depth 31 fms.

Sdg. Cup Tinshee Amt. Bot'm Sample \_\_\_\_\_

Character of Bottom \_\_\_\_\_

Thermom. { Make N.B. Cor'n { Instr. -17  
                  { No. \_\_\_\_\_                    { Stem. \_\_\_\_\_

Bottom Reading \_\_\_\_\_ Cor'd Temp. 42.3

Temp. Surf. { Time 22.4 } Air { \_\_\_\_\_  
                  { \_\_\_\_\_ }                    { \_\_\_\_\_

Density: Surf. \_\_\_\_\_ fms. \_\_\_\_\_

Wind: Direction Variable Force 0-1

Baromet. 29.91 Amt. of Clouds 3 State of Sea S.

Weather bc.

Direction and Force of Current { Surface \_\_\_\_\_  
  { Bottom \_\_\_\_\_

Tide \_\_\_\_\_

General Locality \_\_\_\_\_

Position \_\_\_\_\_

Chart used: No. \_\_\_\_\_ Ed'n \_\_\_\_\_

Drift: Direction S. 55 E. Distance \_\_\_\_\_

Depth of Haul Bottom

Apparatus and Rig used \_\_\_\_\_

Time towing \_\_\_\_\_ h. \_\_\_\_\_ m.

Remarks: \_\_\_\_\_

Deck Officer \_\_\_\_\_ Recorder \_\_\_\_\_

SOUNDING WIRE.

M. Down.	Up.	M.
8 31 30	8 31	
30 40	35 35	
31 40	34 50	
32 40	34 00	
8 32 50	8 33 50	

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.
8 42 25	9 42 00	
46 20	38 45	
53 40	32 20	

9 00 30 25 30

Id. 6. 4. 8. N. 4. 0. 8.

(1) 2. 2. 2 (12. 0. 2)

(2) 2. 2 (4)

1. 3

Dredge } No. 1 Date, \_\_\_\_\_, 19

Sdg. Mch. \_\_\_\_\_ Reel \_\_\_\_\_ Shot } lbs.  
Lead }

Turns \_\_\_\_\_ Cor'n \_\_\_\_\_ Depth 260 fms.

Sdg. Cup \_\_\_\_\_ Amt. Bot'm Sample \_\_\_\_\_

Character of Bottom 1 1 1 1

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

Bottom Reading \_\_\_\_\_ Cor'd Temp. \_\_\_\_\_

Temp. Surf. { 84 Time 10:55 A }  
{ 71 Time \_\_\_\_\_ } Air { 71 }

Density: Surf. \_\_\_\_\_ fms. \_\_\_\_\_

Wind: Direction Calm Force 0

Baromet. 30.1 Amt. of Clouds 3 State of Sea S

Weather \_\_\_\_\_

Direction and Force of Current { Surface \_\_\_\_\_  
Bottom \_\_\_\_\_

Tide \_\_\_\_\_

General Locality \_\_\_\_\_

Position 1. 41° 11' 40" N. 106° 24' 30" W.

Chart used: No. No. 2117 Ed'n \_\_\_\_\_

Drift: Direction S. 58 E. Distance \_\_\_\_\_

Depth of Haul Bottom

Apparatus and Rig used Asbj. ...

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Time towing \_\_\_\_\_ h. \_\_\_\_\_ m.

Remarks: \_\_\_\_\_

\_\_\_\_\_

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\_\_\_\_\_

Deck Officer \_\_\_\_\_ Recorder \_\_\_\_\_





Dredge } No. \_\_\_\_\_ Date, \_\_\_\_\_, 19\_\_\_\_  
Hydrog. }  
Sdg. Mch. Lucas Reel Lucas Shot 36 lbs.  
TURNS \_\_\_\_\_ Cor'n \_\_\_\_\_ Depth 30 fms.  
Sdg. Cup \_\_\_\_\_ Amt. Bot'm Sample \_\_\_\_\_  
Character of Bottom gn S

Thermom. { Make \_\_\_\_\_ Cor'n { Instr. - .7  
              { No. \_\_\_\_\_                 { Stem. \_\_\_\_\_  
Bottom Reading 44.0 Cor'd Temp. 43.3

Temp. Surf. { 85.0 Time 3:45 P.M. Air { 83.0  
               { 7.0                 { 1:12 P.M.                 { 82.0

Density: Surf. \_\_\_\_\_ fms. \_\_\_\_\_

Wind: Direction Various Force 0-1

Baromet. 29.78 Amt. of Clouds 2 State of Sea S

Weather \_\_\_\_\_

Direction and Force of Current { Surface \_\_\_\_\_  
  { Bottom \_\_\_\_\_

Tide \_\_\_\_\_

General Locality E. of San Diego, California Bay

Position 40° 12' 40" N - 118° 27' 00" W

Chart used: No. H.O. 2117 Ed'n \_\_\_\_\_

Drift: Direction \_\_\_\_\_ Distance 0.3 mi.

Depth of Haul Bottom

Apparatus and Rig used American

Time towing \_\_\_\_\_ h. 10 m.

Remarks: \_\_\_\_\_

Deck Officer \_\_\_\_\_ Recorder \_\_\_\_\_

SOUNDING WIRE.

DREDGING CABLE.

FMS.

M. Down. Up. P. M.

P. M. Down. Up. P. 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
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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

72

NAME

(cont'd)

3 31  
3 32  
3 33  
3 34  
3 35

3 44  
3 45  
3 46  
3 47  
3 48  
3 49  
3 50  
3 51  
3 52

Trawl Hydrog. No. 22834 Date, Oct 27, 1907

Sdg. Mch. 1 Reel T. No. 5107 Shot 36 lbs. Lead

Turns 86 Cor'n Depth 71 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 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

Position

Chart used: No. 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.

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

M. Down. | Up. | M.

*7 10 - 2 15 00*  
*7 12 - 2 13 00*

*56 100*

- 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

Dredge } No. 5093 ✓ Date, Sept 29, 1907  
Hydrog. }

Sdg. Mch. 1 Reel 1 Shot/Lead 3 lbs.

Turns 44 Cor'n \_\_\_\_\_ Depth 38 fms.

Sdg. Cup \_\_\_\_\_ Amt. Bot'm Sample 2 1/2

Character of Bottom \_\_\_\_\_

Thermom. { Make/No. \_\_\_\_\_ } { Instr. \_\_\_\_\_ }  
                  { No. \_\_\_\_\_ } { Stem. \_\_\_\_\_ }

Bottom Reading \_\_\_\_\_ Cor'd Temp. \_\_\_\_\_

Temp. Surf. { 83° Time 7:35 } { Air { 84° }  
                  { 84° Time 7:50 } { } }

Density: Surf. \_\_\_\_\_ fms. \_\_\_\_\_

Wind: Direction \_\_\_\_\_ Force \_\_\_\_\_

Baromet. \_\_\_\_\_ Amt. of Clouds 4 State of Sea 2/8

Weather hcl

Direction and Force of Current { Surface \_\_\_\_\_ }  
  { Bottom \_\_\_\_\_ }

Tide \_\_\_\_\_

General Locality 7th Pacific

Position 48° N; 118° 11' 20" E (East)

Chart used: No. 1157 Ed'n \_\_\_\_\_

Drift: Direction \_\_\_\_\_ Distance 1.4 miles

Depth of Haul Bottom

Apparatus and Rig used \_\_\_\_\_

Time towing h. 15 m.

Remarks: Traced

Deck Officer \_\_\_\_\_ Recorder \_\_\_\_\_

SOUNDING WIRE.

FMS.

DREDGING CABLE.

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

M. Down. | Up. | M.

SOUNDING WIRE.				FMS.	DREDGING CABLE.		
M. Down.	Up.	P.	M.		M. Down.	Up.	M.
7	20	26	58	0	25	7	10
7	25	28	30	44	30	40	
				200	7	35	15
				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			

*173*

*17.2*

Dredge } No. \_\_\_\_\_ Date, \_\_\_\_\_, 1909

Sdg. Mch. \_\_\_\_\_ Reel  Shot/Lead \_\_\_\_\_ lbs.

Turns \_\_\_\_\_ Cor'n \_\_\_\_\_ Depth 21 fms.

Sdg. Cup \_\_\_\_\_ Amt. Bot'm Sample \_\_\_\_\_

Character of Bottom \_\_\_\_\_

Thermom. { Make *W.D.* Cor'n { Instr. \_\_\_\_\_  
                  { No. \_\_\_\_\_                    { Stem. \_\_\_\_\_

Bottom Reading \_\_\_\_\_ Cor'd Temp. \_\_\_\_\_

Temp. Surf. { 83° Time 7:25 P } Air { 26°  
                  { 83° Time 9:00 P }        { 78°

Density: Surf. \_\_\_\_\_ fms. \_\_\_\_\_

Wind: Direction *on north* Force \_\_\_\_\_

Baromet. *29.86* Amt. of Clouds *9* State of Sea *S*

Weather \_\_\_\_\_

Direction and Force of Current { Surface \_\_\_\_\_  
  { Bottom \_\_\_\_\_

Tide \_\_\_\_\_

General Locality \_\_\_\_\_

Position *Lat. 41° 11' 20" N Long. 117° 53' 10" W*

Chart used: No. *2001* Ed'n \_\_\_\_\_

Drift: Direction \_\_\_\_\_ Distance \_\_\_\_\_

Depth of Haul \_\_\_\_\_

Apparatus and Rig used \_\_\_\_\_

*used as surface*

Time towing *4* h. *0* m.

Remarks: *drift at anchor*

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

9 | 00 | 10

2500

3300 180  
5.0

Dredge } No. 213 ✓ Date, 10/1/19

Sdg. Mch. \_\_\_\_\_ Reel \_\_\_\_\_ Shot/Lead \_\_\_\_\_ lbs.

Turns \_\_\_\_\_ Cor'n \_\_\_\_\_ Depth 8 1/2 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 \_\_\_\_\_ } Air { \_\_\_\_\_  
                  { \_\_\_\_\_ Time \_\_\_\_\_ }

Density: Surf. \_\_\_\_\_ fms. \_\_\_\_\_

Wind: Direction \_\_\_\_\_ Force \_\_\_\_\_

Baromet. 30.81 Amt. of Clouds 3 State of Sea S

Weather \_\_\_\_\_

Direction and Force of Current { Surface \_\_\_\_\_  
  { Bottom \_\_\_\_\_

Tide \_\_\_\_\_

General Locality \_\_\_\_\_

(No. \_\_\_\_\_)

✓ Position 6 34 30 W 132-4-30 E

✓ Chart used: No. 1645 Ed'n \_\_\_\_\_

Drift: Direction \_\_\_\_\_ Distance \_\_\_\_\_

Depth of Haul \_\_\_\_\_

Apparatus and Rig used 40' moose net

Time towing \_\_\_\_\_ h. \_\_\_\_\_ m.

Remarks: Up at anchor

Deck Officer \_\_\_\_\_ Recorder \_\_\_\_\_

SOUNDING WIRE.

DREDGING CABLE.

M. Down. Up. M.

M. Down. Up. M.

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

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*Handwritten notes at the bottom of the page, including "3200" and "3100".*



5610 3254

SOUNDING WIRE.

FMS.

DREDGING CABLE.

M. Down. | Up. | M.

M. Down. | Up. | M.

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		M. Down.	Up.	M.
			0	6	00	6 30 00
			100			
			200			
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
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			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. 57 Date, June 10, 1907

Sdg. Mch. \_\_\_\_\_ Reel \_\_\_\_\_ Shot/Lead \_\_\_\_\_ lbs.

Turns \_\_\_\_\_ Cor'n \_\_\_\_\_ Depth 5 fms.

Sdg. Cup \_\_\_\_\_ Amt. Bot'm Sample \_\_\_\_\_

Character of Bottom \_\_\_\_\_

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

Bottom Reading \_\_\_\_\_ Cor'd Temp. \_\_\_\_\_

Temp. Surf. { 82 Time 12 } Air { 83  
                  { \_\_\_\_\_ Time \_\_\_\_\_ } \_\_\_\_\_

Density: Surf. \_\_\_\_\_ fms. \_\_\_\_\_

Wind: Direction SSE Force \_\_\_\_\_

Baromet. 30.0 Amt. of Clouds 5 State of Sea C

Weather bc

Direction and Force of Current { Surface \_\_\_\_\_  
  { Bottom \_\_\_\_\_

Tide \_\_\_\_\_

General Locality \_\_\_\_\_

Position 62° 41' N. 157° 15' W.

Chart used: No. CS 4645 Ed'n \_\_\_\_\_

Drift: Direction \_\_\_\_\_ Distance \_\_\_\_\_

Depth of Haul Surface

Apparatus and Rig used 10' Intec.

Time towing 2 h. 20 m.

Remarks: Shoal water

Shoal water

Deck Officer \_\_\_\_\_ Recorder \_\_\_\_\_

SOUNDING WIRE.

DREDGING CABLE.

M. Down. | Up. | M.

FMS.

M. Down. | Up. | M.

M. Down.	Up.	M.	FMS.	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. 559 Date, Oct 10, 1907

Sdg. Mch. \_\_\_\_\_ Reel \_\_\_\_\_ Shot/Lead \_\_\_\_\_ lbs.

Turns \_\_\_\_\_ Cor'n \_\_\_\_\_ Depth 82 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 \_\_\_\_\_ } Air { Time \_\_\_\_\_

Density: Surf. \_\_\_\_\_ fms. \_\_\_\_\_

Wind: Direction \_\_\_\_\_ Force \_\_\_\_\_

Baromet. 30.22 Amt. of Clouds 8-6 State of Sea C

Weather \_\_\_\_\_

Direction and Force of Current { Surface \_\_\_\_\_ Bottom \_\_\_\_\_

Tide \_\_\_\_\_

General Locality: \_\_\_\_\_

Position { \_\_\_\_\_

Chart used: No. \_\_\_\_\_ Ed'n \_\_\_\_\_

Drift: Direction \_\_\_\_\_ Distance \_\_\_\_\_

Depth of Haul \_\_\_\_\_

Apparatus and Rig used \_\_\_\_\_

Time towing 2 h. \_\_\_\_\_ m.

Remarks: Ship at anchor

Ship at anchor

Deck Officer \_\_\_\_\_ Recorder \_\_\_\_\_



SOUNDING WIRE.

M. Down. | Up. | M.

FMS.

DREDGING CABLE.

M. Down. | Up. | M.

0

3 | 10 | 00 | 6 | 10 | 00

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

80

3400

✓

Dredge } No. 577 Date, Oct 12-13, 1909

Sdg. Mch. \_\_\_\_\_ Reel \_\_\_\_\_ Shot } 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. { 52 Time \_\_\_\_\_ } Air { 76 Time \_\_\_\_\_

Density: Surf. \_\_\_\_\_ fms. \_\_\_\_\_

Wind: Direction \_\_\_\_\_ Force \_\_\_\_\_

Baromet. \_\_\_\_\_ Amt. of Clouds 2-3-2 State of Sea \_\_\_\_\_

Weather \_\_\_\_\_

Direction and Force of Current { Surface \_\_\_\_\_ Bottom \_\_\_\_\_

Tide \_\_\_\_\_

General Locality \_\_\_\_\_

Position } Ed'n } Distance } Apparatus and Rig used }

Chart used: No. \_\_\_\_\_

Drift: Direction \_\_\_\_\_

Depth of Haul \_\_\_\_\_

Apparatus and Rig used \_\_\_\_\_

Time towing 11 h. 15 m.

Remarks: \_\_\_\_\_

I report \_\_\_\_\_

Deck Officer, S. T. \_\_\_\_\_ Recorder, \_\_\_\_\_

SOUNDING WIRE.

DREDGING CABLE.

M. Down. | Up. | M.

FMS.

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

6 | 20 00 | 5 | 35 00

81

3100

Dredge { Hydrog } No. \_\_\_\_\_ Date, \_\_\_\_\_, 1909

Sdg. Mch. \_\_\_\_\_ Reel \_\_\_\_\_ Shot & Lead \_\_\_\_\_ lbs.

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 \_\_\_\_\_  
                  { \_\_\_\_\_ 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 \_\_\_\_\_

Position \_\_\_\_\_

Chart used: No. \_\_\_\_\_ Ed'n \_\_\_\_\_

Drift: Direction \_\_\_\_\_ Distance \_\_\_\_\_

Depth of Haul \_\_\_\_\_

Apparatus and Rig used \_\_\_\_\_

Time towing \_\_\_\_\_ h. \_\_\_\_\_ m.

Remarks: *Very strong current, while  
sounding, made it difficult to  
vary intervals to an extent  
of 1/2 min. It is apparently much  
faster at 5100 fath. as was checked  
current out toward shore.  
It is broken off just above  
stray line. Then, water bottle, str.*

Deck Officer \_\_\_\_\_ Recorder \_\_\_\_\_

SOUNDING WIRE.

DREDGING CABLE.

FMS.

M. Down. | Up. | M.

M. Down. | Up. | M.

9 00	11 30	0
01 00	11 30	100
02 00	11 30	200
03 00	11 30	300
04 00	11 30	400
05 00	11 30	500
06 00	11 30	600
07 00	11 30	700
08 00	11 30	800
09 00	11 30	900
10 00	11 30	1000
11 00	11 30	1100
12 00	11 30	1200
13 00	11 30	1300
14 00	11 30	1400
15 00	11 30	1500
16 00	11 30	1600
17 00	11 30	1700
18 00	11 30	1800
19 00	11 30	1900
20 00	11 30	2000
21 00	11 30	2100
22 00	11 30	2200
23 00	11 30	2300
24 00	11 30	2400
25 00	11 30	2500
26 00	11 30	2600
27 00	11 30	2700
28 00	11 30	2800
29 00	11 30	2900
30 00	11 30	3000
31 00	11 30	3100
32 00	11 30	3200
33 00	11 30	3300
34 00	11 30	3400
35 00	11 30	3500
36 00	11 30	3600
37 00	11 30	3700
38 00	11 30	3800
39 00	11 30	3900
40 00	11 30	4000
41 00	11 30	4100
42 00	11 30	4200
43 00	11 30	4300
44 00	11 30	4400
45 00	11 30	4500
46 00	11 30	4600
47 00	11 30	4700
48 00	11 30	4800
49 00	11 30	4900

is that

is that

is that

is that

is that

is that

Dredge } No. 5 Date, 19

Sdg. Mch. Reel Shot/Lead lbs.

Turns Cor'n Depth fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom

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

Bottom Reading Cor'd Temp.

Temp. Surf. { 82 82 Time 7:05 P 7:32 P } Air

Density: Surf. fms.

Wind: Direction Force

Baromet. 29.83 Amt. of Clouds 1 State of Sea S

Weather beam

Direction and Force of Current { Surface Bottom

Tide

General Locality

Position

Chart used: No. Ed'n

Drift: Direction Distance

Depth of Haul Surface

Apparatus and Rig used

used as

Time towing: h. m.

Remarks:

Deck Officer Recorder

SOUNDING WIRE.

DREDGING CABLE.

M. Down. | Up. | M.

FMS.

M. Down. | Up. | M.

FMS.	M. Down.	Up.	M.
0	7 05	00	7 34 00
100	7 06	57	7 35 00
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			

*[Faint handwritten notes]*

*[Large handwritten scribble]*

*[Faint handwritten notes]*

*[Faint handwritten notes]*

Dredge } No. \_\_\_\_\_ Date, Nov 13, 1909

Sdg. Mch. \_\_\_\_\_ Reel L Shot } lbs. \_\_\_\_\_

Turns \_\_\_\_\_ Cor'n \_\_\_\_\_ Depth 765 fms.

Sdg. Cup \_\_\_\_\_ Amt. Bot'm Sample \_\_\_\_\_

Character of Bottom \_\_\_\_\_

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

Bottom Reading \_\_\_\_\_ Cor'd Temp. \_\_\_\_\_

Temp. Surf. { 83° Time 2:40 } Air { 81°  
                  { 83° Time 2:40 }           { 81°

Density: Surf. \_\_\_\_\_ fms. \_\_\_\_\_

Wind: Direction WSW Force 3-

Baromet. \_\_\_\_\_ Amt. of Clouds \_\_\_\_\_ State of Sea S

Weather \_\_\_\_\_

Direction and Force of Current { Surface \_\_\_\_\_  
  { Bottom \_\_\_\_\_

Tide \_\_\_\_\_

General Locality \_\_\_\_\_

Line \_\_\_\_\_

Position \_\_\_\_\_

Chart used: No. 1727 Ed'n \_\_\_\_\_

Drift: Direction S 29 Distance \_\_\_\_\_

Depth of Haul \_\_\_\_\_

Apparatus and Rig used \_\_\_\_\_

Time towing \_\_\_\_\_ h. 21 m.

Remarks: \_\_\_\_\_

Deck Officer \_\_\_\_\_ Recorder \_\_\_\_\_



SOUNDING WIRE.

M. Down. | Up. | M.

1 | 22  
 21  
 10  
 19  
 18  
 17  
 16  
 15

FMS.

0  
 100  
 200  
 300  
 400  
 500  
 600  
 700  
 800  
 900  
 1000  
 1100  
 1200  
~~1250 1300~~  
~~1300 1400~~  
~~1350 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.

1 | 29 | 00 | 3 | 32  
 38 | 40 | 20  
 48 | 00 | 25  
 50 | 30 | 3 | 42  
 12 | 00 | 4  
 21 | 00 | 5  
 05 | 00 | 44  
 16 | 00 | 41  
 18 | 00 | 2 | 38

58 W

8

\* ...  
 ...  
 ...

(Handwritten note)

(Handwritten note)

Dredge } No. \_\_\_\_\_ Date, \_\_\_\_\_, 19

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

Turns 962 Cor'n \_\_\_\_\_ Depth 962 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 9:35- } Air { 81"  
                  { \_\_\_\_\_                    { \_\_\_\_\_  
                  { \_\_\_\_\_                    { \_\_\_\_\_

Density: Surf. \_\_\_\_\_ fms. \_\_\_\_\_

Wind: Direction Variable Force 0-1

Baromet. 29.67 Amt. of Clouds 7 State of Sea \_\_\_\_\_

Weather \_\_\_\_\_

Direction and Force of Current { Surface \_\_\_\_\_  
  { Bottom \_\_\_\_\_

Tide \_\_\_\_\_

General Locality Gouvier Gulf

Position \_\_\_\_\_

Chart used: No. P 4 Ed'n \_\_\_\_\_

Drift: Direction 2 mile Distance 2.0 m.

Depth of Haul \_\_\_\_\_

Apparatus and Rig used 12' 6" 2' \_\_\_\_\_

Time towing: \_\_\_\_\_ h. \_\_\_\_\_ m.

Remarks: Cu. registered \_\_\_\_\_

Deck Officer Mr. Johnson Recorder \_\_\_\_\_

SOUNDING WIRE.

DREDGING CABLE.

FMS.

M. Down. | Up. | M.

2 M. Down. | Up. | M.

SOUNDING WIRE.		FMS.	DREDGING CABLE.	
M. Down.	Up.		2 M. Down.	Up. M.
		0		
		100		
		200		
		300		
		400		
		500	43	
		600		
		700		
		800		
		900		
		1000		10
		1100		20 3
		1200		30 10
		1300		40
		1400		
		1500	70	
		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		

87

87

Soundings

North

7.1

Dredge } No. 3 Date, , 19

Sdg. Mch. Lucas Reel Shot Leads 66 lbs.

Turns 803 Cor'n Depth 800 fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom

Thermom. { Make No. 6 Cor'n { Instr. Stem.

Bottom Reading 82 Cor'd Temp.

Temp. Surf. { 84° Time 1:50 P } Air { 84° 84° Time 3:00 P } Air { 83 1/2

Density: Surf. fms.

Wind: Direction Variable Force 2

Baromet. 29.78 Amt. of Clouds 8 State of Sea S

Weather bcp.

Direction and Force of Current { Surface Bottom

Tide

General Locality T. ... Reef

Tangent to east side ...

Position

Chart used: No. 9423 Ed'n

Drift: Direction East Distance 1. m.

Depth of Haul 13 attorn.

Apparatus and Rig used 12' Agassiz ...

Time towing h. m.

Remarks:

carried away.

SOUNDING WIRE.

M. Down. | Up. | M.

1 4 18  
 06 3 18  
 07 3 18  
 08 3 18  
 09 3 18  
 10 3 18  
 11 3 18  
 12 3 18

1 11 48 | 11 58

*Handwritten scribbles*

*Handwritten note: 11 58*

*Handwritten note: Oriental pier*

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.

1 3 18  
 2 3 18  
 3 3 18  
 4 3 18  
 5 3 18  
 6 3 18  
 7 3 18  
 8 3 18  
 9 3 18  
 10 3 18  
 11 3 18  
 12 3 18

1 11 48 | 11 58

*Handwritten scribbles*

*Handwritten note: X*

*Handwritten note: 57*

Dredge } No. 5604 Date, Nov. 15, 19

Sdg. Mch. \_\_\_\_\_ Reel \_\_\_\_\_ Shot/Lead \_\_\_\_\_ lbs.

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. { 83.0 Time 7:25 Air { 83.0 No. 85 Time \_\_\_\_\_

Density: Surf. \_\_\_\_\_ fms. \_\_\_\_\_

Wind: Direction SW Force 2

Baromet. 29.80 Amt. of Clouds 5 State of Sea S

Weather ~~low~~ - clear

Direction and Force of Current { Surface \_\_\_\_\_ Bottom \_\_\_\_\_

Tide \_\_\_\_\_

General Locality \_\_\_\_\_

Position \_\_\_\_\_

Chart used: No. BA 942<sup>a</sup> Ed'n \_\_\_\_\_

Drift: Direction \_\_\_\_\_ Distance \_\_\_\_\_

Depth of Haul \_\_\_\_\_ Surface

Apparatus and Rig used 10' Surf

Time towing \_\_\_\_\_ h. \_\_\_\_\_ m.

Remarks: 15 07 1.1

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





SOUNDING WIRE.

FMS.

DREDGING CABLE.

M. Down.		Up.	M.		FMS.	M. Down.		Up.	M.		
9	21	30	33	40	0	9	51	40	11	18	40
	21	55	32	20	100		55	50		15	20
	22	45	31	30	200		59	30		12	10
		40	30	50	300	10	03	00		09	0
	24	35	30	05	400		06	10		05	55
	25	30	29	15	500		09	10	11	02	40
	26	30	28	20	600		12	20		59	25
9	26	45	27	50	<del>700</del>		15	40		56	00
					800		19	10		51	30
					900						

95

- 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. 00 (11)  
5. 00 (20)

Dredge } No. 1116 Date, ... 19

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

Turns 834 Cor'n ... Depth 834 fms.

Sdg. Cup ... Amt. Bot'm Sample 3

Character of Bottom ...

Thermom. { Make ... Cor'n { Instr. ... Stem. ...

Bottom Reading 82 Cor'd Temp. ...

Temp. Surf. { Time ... } Air { 53° ... 82 1/2° ...

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

Wind: Direction West Force 3

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

Weather Calm

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

Tide ...

General Locality Offshore Surf.

Position ... July 11 1880

Chart used: No. ... Ed'n

Drift: Direction S. 29 E. Distance 2.5

Depth of Haul Bottom

Apparatus and Rig used ... floats

Time towing ... h. 20 m.

Remarks:

Deck Officer ... Recorder ...



Dredge } No. 761 Date, Nov. 18, 19  
#Hydrog. }  
Sdg. Mch. Lucas Reel L Shot 35 lbs.  
Turns 761 Cor'n - Depth 761 fms.  
Sdg. Cup Amt. Bot'm Sample  
Character of Bottom fine S

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 8 State of Sea

Weather

Direction and Force of Current { Surface  
  { Bottom

Tide

General Locality

Position

Chart used: No. Ed'n

Drift: Direction Distance

Depth of Haul

Apparatus and Rig used

Time towing - h. 20 m.

Remarks:

Deck Officer Recorder

SOUNDING WIRE.

DREDGING CABLE.

FMS.

M. Down. | Up. | M.

M. Down. | Up. | M.

SOUNDING WIRE.		FMS.	DREDGING CABLE.	
M. Down.	Up.		M. Down.	Up.
8		0		
		100		
19	00	200	76	55
17	30	300	75	20
		400		
22	05	500	57	05
23	10	600	9	06
		700		
		800		
		900		
		1000	15	40
		1100	9	20
		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		

98

70

222

Dredge } No. \_\_\_\_\_ Date, Dec 18, 1909  
Hydrog. }

Sdg. Mch. \_\_\_\_\_ Reel Lucas Shot 35 lbs.  
Trawl

Turns 1057 Cor'n \_\_\_\_\_ Depth 1057 fms.

Sdg. Cup \_\_\_\_\_ Amt. Bot'm Sample 1/4 oz

Character of Bottom \_\_\_\_\_

Thermom. { Make \_\_\_\_\_ Cor'n { Instr. -7  
              { No. \_\_\_\_\_                 { Stem. \_\_\_\_\_

Bottom Reading 37° Cor'd Temp. 34.3

Temp. Surf. { 82° Time 1:10 } Air { 80°  
                  { 83° Time 2:00 }         { 81°

Density: Surf. \_\_\_\_\_ fms. \_\_\_\_\_

Wind: Direction 0 Force 3

Baromet. 29.86 Amt. of Clouds 10 State of Sea 2

Weather 0

Direction and Force of Current { Surface \_\_\_\_\_  
  { Bottom \_\_\_\_\_

Tide \_\_\_\_\_

General Locality \_\_\_\_\_

Position 0° 19' 00" N 191° 00' E

Chart used: No. 942 Ed'n \_\_\_\_\_

Drift: Direction S 40 E Distance \_\_\_\_\_

Depth of Haul bottom

Apparatus and Rig used \_\_\_\_\_

Time towing \_\_\_\_\_ h. \_\_\_\_\_ m.

Remarks: \_\_\_\_\_

Deck Officer \_\_\_\_\_ Recorder \_\_\_\_\_  
11-1023

SOUNDING WIRE.

DREDGING CABLE.

FMS.

M. Down. Up. P. M.

M. Down. Up. P. M.

SOUNDING WIRE.				FMS.	DREDGING CABLE.								
M. Down.		Up.			M. Down.		Up.						
P.	M.	P.	M.		P.	M.	P.	M.					
12	36	30	12	38	10	0	1	03	00	3	21	30	
	37	30		37	25	100		06	05		18	15	
	38	35		36	45	200		10	35		15	25	
	39	25		36	05	300		14	45		12	30	
	40	15		35	25	400		18	25		09	00	
	41	10		34	40	500		22	55		06	30	
	42	05		34	00	600		26	20		03	20	
	43	00		33	15	700		30	00	3	00	10	
	44	05		32	30	800		33	20		56	10	
	45	25		31	45	900		37	00		53	00	
	46	45		30	20	1000		40	50		50	00	
12	47	00	12	30	00	1100							
						1200		44	00		44	00	
						1300		47	50		40	00	
						1400		51	30		36	50	
						1500		55	30		32	30	
						1600		2	00	10			
						1700		2	02	10	2	30	10
						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							

99

Running to light

17. 11

Dredge No. \_\_\_\_\_ Date, \_\_\_\_\_, 19\_\_

Sdg. Mch. \_\_\_\_\_ Reel \_\_\_\_\_ Shot \_\_\_\_\_ lbs.

Turns 1092 Cor'n \_\_\_\_\_ Depth 1092 fms.

Sdg. Cup \_\_\_\_\_ Amt. Bot'm Sample 4 5/8

Character of Bottom Gn M \_\_\_\_\_

Thermom. { Make T. G. Cor'n { Instr. -1.7  
No. 98246 Stem. \_\_\_\_\_

Bottom Reading 37.0 Cor'd Temp. 36.3

Temp. Surf. { 83.0 Time 3:52 P } Air { 83.0  
Time \_\_\_\_\_

Density: Surf. \_\_\_\_\_ fms. \_\_\_\_\_

Wind: Direction N.W. Force 2-3

Baromet. 29.81 Amt. of Clouds 7 State of Sea 2/8

Weather hazy

Direction and Force of Current { Surface \_\_\_\_\_  
Bottom \_\_\_\_\_

Tide \_\_\_\_\_

General Locality \_\_\_\_\_

Position \_\_\_\_\_

Chart used: No. B.A. 944<sup>e</sup> Ed'n V

Drift: Direction S. 39 E. Distance 2.0

Depth of Haul Bottom

Apparatus and Rig used \_\_\_\_\_

Time towing: \_\_\_\_\_ h. \_\_\_\_\_ m.

Remarks: \_\_\_\_\_

Deck Officer \_\_\_\_\_ Recorder \_\_\_\_\_



SOUNDING WIRE.

M. Down. | Up. | Z.M.

27	23	42	20
28	15	42	26
29	03	42	32
30	00	42	38
31	00	42	44
32	00	42	50
33	00	42	56
34	00	42	02
35	00	42	08
36	00	42	14
37	00	42	20
38	00	42	26
39	00	42	32
40	00	42	38
41	00	42	44
42	00	42	50
43	00	42	56
44	00	42	02
45	00	42	08
46	00	42	14
47	00	42	20
48	00	42	26
49	00	42	32
50	00	42	38
51	00	42	44
52	00	42	50
53	00	42	56
54	00	42	02
55	00	42	08
56	00	42	14
57	00	42	20
58	00	42	26
59	00	42	32
60	00	42	38
61	00	42	44
62	00	42	50
63	00	42	56
64	00	42	02
65	00	42	08
66	00	42	14
67	00	42	20
68	00	42	26
69	00	42	32
70	00	42	38
71	00	42	44
72	00	42	50
73	00	42	56
74	00	42	02
75	00	42	08
76	00	42	14
77	00	42	20
78	00	42	26
79	00	42	32
80	00	42	38
81	00	42	44
82	00	42	50
83	00	42	56
84	00	42	02
85	00	42	08
86	00	42	14
87	00	42	20
88	00	42	26
89	00	42	32
90	00	42	38
91	00	42	44
92	00	42	50
93	00	42	56
94	00	42	02
95	00	42	08
96	00	42	14
97	00	42	20
98	00	42	26
99	00	42	32
100	00	42	38

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.

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

3	57	20	6	31	35
	55	30		28	20
	59	45		25	30
4	03	50		22	30
	07	10			
	11	00		15	40
	14	35		12	00
	18	15		08	30
	21	35		04	20
	25	00		00	00
	29	00		00	00
	32	50		50	15
	36	40		40	30
	41	20		30	20
	45	40		29	40
	49	30		26	30
	53	20		24	00

*100*

*Standard for  
100 fms. cable.*

*(100) (100)  
200 fms.*



## 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. 5610 Date, Nov. 19, 1909  
Hydrog. }

Sdg. Mch. Lucas Reel L Shot/Lead 35 lbs.

Turns 678 Cor'n Depth 678 fms.

Sdg. Cup Sigbee Amt. Bot'm Sample 4 oz.

Character of Bottom gy. M

Thermom. { Make N.3 Cor'n { Instr. No. 66726 Stem.

Bottom Reading 82.7 Cor'd Temp.

Temp. Surf. { 87° Time 4:57 p. } Air { 84°  
85° Time 5:20 p. } 84°

Density: Surf. fms.

Wind: Direction Variable Force 2

Baromet. 29.77 Amt. of Clouds 7 State of Sea S

Weather bc

Direction and Force of Current { Surface Bottom

Tide

General Locality Tomini Gulf, S of Tojoran Id.

Batu Data (SW) N 87° W - Togo Besar I

Position 0° 36' 00" S - 122° 01' 00" E.

Chart used: No. B.9.942 a Ed'n -

Drift: Direction N 63 W Distance 2.0 m.

Depth of Haul Bottom

Apparatus and Rig used 12' Agassiz; 2 glass floats; 2 wing weights; 1 tail weight

Time towing - h. 26 1/2 m.

Remarks:

Deck Officer Mr. Johnson Recorder A. R. Kit -  
Mr. Hazen

SOUNDING WIRE.

FMS.

DREDGING CABLE.

M. Down.		UP.	M.		FMS.	M. Down.		UP.	M.	
1	52 50	4	05 40			0	4	09 55	5	50 25
	53 40		04 40		100		14 00		46 50	
	54 30		03 50		200		18 00		43 50	
	55 15		03 05		300		22 00		40 40	
	56 10		02 25		400		25 35		37 30	
	57 00		01 40		500		29 15		34 20	
	58 00	4	00 55		600		33 40		31 10	
3	58 50	3	59 50	678	700		37 25		28 00	
					800		41 10		24 25	
					900		45 50		20 40	
					1000	4	50 00	5	16 30	
					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					

*102*

*(mid) N 2 E.*

*Bata*

*Batu Daka (S) N 87 W*

*20.9 m*

53.

$$\begin{array}{r}
 7-40 \\
 3.30 \\
 \underline{20} \\
 3.50 \\
 24.75 \\
 \underline{6.50} \\
 27.25
 \end{array}$$

74

f-tempod

$$\begin{array}{r}
 2240 \\
 110 \quad 200 \\
 \underline{109} \quad 3200 \\
 4-1500 \\
 1700
 \end{array}$$

$$\begin{array}{r}
 13.25 \\
 11.45 \\
 \hline
 2.80
 \end{array}$$

$$\begin{array}{r}
 6.20 \\
 8.35 \\
 \hline
 85
 \end{array}$$

$$\begin{array}{r}
 12.00 \\
 1.25 \\
 \hline
 11 \quad 75 \quad 60 \\
 \underline{\quad} \quad \underline{\quad} \quad \underline{\quad} \\
 15
 \end{array}$$

970 bis