

No. 5.

From D. 5259

To D. 5303.

Next Hydrographic No is 4913



Dredge } No. 5259. Date, 3 June, 1908  
Hydrog. }  
Sdg. Mch. Lucas. Reel Lucas Shot/Head 35 lbs.  
Turns 312 Cor'n - Depth 312 fms.  
Sdg. Cup Siegsbee Amt. Bot'm Sample 3 1/2 g.  
Character of Bottom gy. m. Glob.

Thermom. { Make N.B. Cor'n { Instr. - 24  
              { No. 108023.                { Stem. - 48

Bottom Reading 50° Cor'd Temp. 49.3

Temp. Surf. { 85° Time 10:30 a.m. } Air { 84.5°  
                  { 85° Time 10:53 a.m. }        { 84°

Density: Surf. 1.02489 Bottom fms. 1.02484

Wind: Direction WSW Force 2

Baromet. 29.73 Amt. of Clouds 9 State of Sea S

Weather bcz.

Direction and Force of Current { Surface  
  { Bottom

Tide

General Locality Sulu Sea

Caluya Id. (S) S73W - Pucio Pt. (Pancay) S31E.

Position 11°57'30"N - 121°42'15"E.

Chart used: No. 4714 Ed'n -

Drift: Direction N 6° W Distance 1.0 m.

Depth of Haul Bottom.

Apparatus and Rig used 12' Agassiz NR; 3 glass floats; 2 wing - & 1 tail weight; mud-bag.

Time towing - h. 20 m.

Remarks: Water bottle used in sounding.

Deck Officer T. M. Mellen Recorder A. M. Mellen

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
A. M. Down.			Up. A. M.				A. M. Down.			Up. A. M.		
10	07	45	10	09	10	0	10	14	25	11	05	30
	03	40		08	25	100		19	30		11	02
	04	35		07	55	200		23	20		58	50
	05	35		07	15	300		26	45		55	10
10	05	45	10	07	10	400	10	30	50	10	50	55
						500						
						600						
						700						
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SOUNDING WIRE.						FMS.	DREDGING CABLE.					
P. M. Down.			Up. P. M.				P. M. Down.			Up. P. M.		
3	11	10	3	16	45	0	3	20	30	4	02	30
3	12	30	3	16	00	100	3	24	00	3	05	15
3	13	30	3	15	15	200	3	27	30	3	06	00
3	13	45	3	14	45	234	3	31	25	3	02	30
						300	3	31	45	3	01	45
						400						
						500						
						600						
						700						
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Bredge } No. 4912 Date, June 4, 1908  
Hydrog. }

Sdg. Mch. 5N Reel 5N Shot 35 lbs.  
Lead

Turns 56 Cor'n 56 Depth 56 fms.

Sdg. Cup arming Amt. Bot'm Sample 203

Character of Bottom blue m & sh

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

Bottom Reading Cor'd Temp.

Temp. Surf. { Time Air {

Density: Surf. 1.02463 fms.

Wind: Direction Force

Baromet. Amt. of Clouds State of Sea

Weather

Direction and Force of Current { Surface Bottom

Tide

General Locality Balanija Pt N 73 W Duyaguait Pt N 7 E, East Mendoro

Position 12°30'55" N - 121°31'48" W

Chart used: No. 4311 Ed'n -

Drift: Direction Distance

Depth of Haul

Apparatus and Rig used

Time towing h. m.

Remarks:

Deck Officer Mr. Cassidy Recorder Roberts



## SOUNDING WIRE.

P		M. Down.		Up.	P		M.	
5	33	25	5	35	50			
5	34	00	5	34	20			

FMS.

## DREDGING CABLE.

M. Down.		Up.	M.	

0

56100

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. 5261 Date, June 4, 1908  
Hydrog. }

Sdg. Mch. Tanner Reel J.M. Shot 35 lbs.  
Lead

Turns 150 Cor'n Depth 145 fms.

Sdg. Cup Arming Amt. Bot'm Sample 7 7/8

Character of Bottom m. s. m.

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

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

Temp. Surf. { 84° Time 6:10 P } Air { 85°  
                  { 83 Time 6:41 P }        { 85°

Density: Surf. 1.0248 fms. \_\_\_\_\_

Wind: Direction NW Force 2

Baromet. 29.63 Amt. of Clouds 7 State of Sea S

Weather bc

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

Tide \_\_\_\_\_

General Locality Balanja Pt 1190 W Dnyagan Pt  
N 14 W East Mindoro

Position 12° 30' 55" N - 121° 34' 24" E

Chart used: No. 431105 Ed'n \_\_\_\_\_

Drift: Direction N 29 E Distance 1/4

Depth of Haul bottom

Apparatus and Rig used 12' agassiz, N.R. haul net  
lined bag 3 glass tubes

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

Remarks:

Deck Officer M. Cassidy Recorder Roberts

SOUNDING WIRE			FMS.	DREDGING CABLE		
M. Down.	Up.	P. M.		M. Down.	Up.	P. M.
5	58 10	6 04 10	0	6 02 30	6 40 00	
5	59 00	6 01 40	100	6 06 00	36 20	
5	59 30	6 00 20	200	09 00	32 45	
			300	6 11 00	6 31 00	
			400			
			500			
			600			
			700			
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Dredge } No. 5267 Date, June 4, 1906  
Hydrog. }

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 Time 7:37 P } Air { 85-  
                  { 83 Time 8:06 P }        { 84

Density: Surf. 1.02448 \_\_\_\_\_ fms. \_\_\_\_\_

Wind: Direction N.E Force 2

Baromet. 29.64 Amt. of Clouds 7 State of Sea 5

Weather bcy

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

Tide \_\_\_\_\_

General Locality East Windsor

no bearings

Position 12°37'30"N - 121°37'30"W

Chart used: No. 4714 CS Ed'n \_\_\_\_\_

Drift: Direction North Distance .5

Depth of Haul surface

Apparatus and Rig used 10' Dnt, 2K2 & K2

Towed 15 min

Time towing h. 20 m.

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

Deck Officer Mr. Muters Recorder Robert O.

## SOUNDING WIRE,

FMS.

## DREDGING CABLE.

M. Down. Up. M.

P M. Down. Up. P M.

SOUNDING WIRE,				FMS.	DREDGING CABLE.					
M. Down.	Up.	M.			P	M. Down.	Up.	P	M.	
				0	7	38	55	7	59	30
				100						
				200						
				300						
				400						
				500						
				600						
				700						
				800						
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SOUNDING WIRE.			FMS.	DREDGING CABLE.					
M. Down.	Up.	M.		M. Down.	Up.	M.			
			0	8	13	30	8	41	10
			100	8	16	30	8	36	30
			200						
			300						
			400						
			500						
			600						
			700						
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Dredge } No. 5264 Date, June 6, 1906  
Hydrog. }  
Sdg. Mch. Tanner Reel F.H. Shot 30 lbs.  
Leads }  
Turns 190 Cor'n - 9 Depth 181 fms.  
Sdg. Cup tallow on lead Amt. Bot'm Sample small particles  
Character of Bottom S.P.

Thermom. { Make none Cor'n { Instr. Stem.

Bottom Reading used Cor'd Temp.

Temp. Surf. { 84° Time 8:35 } Air { 84 1/4°  
84° Time 8:42 } 84 1/2°

Density: Surf. 1.02453 fms. —

Wind: Direction S. Force 2

Baromet. 29.68 Amt. of Clouds .4 State of Sea S

Weather bc.

Direction and Force of Current { Surface Bottom

Tide Malabrogo St. N 86° 30' E 7.3 mi.

General Locality Verde Id. Passay

Verde Id. (Ch.) 0.34 W., Matoca Pt. by N. 66 W.

Position 13-35-30 N. 121-08-00 E.

Chart used: No. 4240 Ed'n

Drift: Direction 0.37 E. Distance 0.5

Depth of Haul bottom

Apparatus and Rig used 12' Agassiz NR 2  
wing weights, 1 tail weight,  
3 glass floats, 1 mud bag.

Time towing h. 4 m.

Remarks: Scale registered from 4 to over  
5 tons while heaving in.

Wire broke & everything lost with  
20 fath wire. Accumulator jumped  
out of yoke after wire broke.

Deck Officer Mr. Hayward Recorder C. E. Lane



SOUNDING WIRE.				FMS.	DREDGING CABLE.							
A.M. Down.		Up.	A.M.		A.M. Down.		Up.	A.M.				
8	15	40	8	24	30	8	27	15				
8	16	00	8	21	55	100	8	30	30	8	57	00
8	19	10	8	19	20	200	8	34	00	8	48	50
						300	8	37	30	8	41	50
						400						
						500						
						600						
						700						
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Dredge } No. 5-265 Date, June 6, 1905  
Hydrog. }

Sdg. Mch. Tanner Reel T.M. Shot } 35 lbs.  
Lead }

Turns 138 Cor'n - 3 Depth 135 fms.

Sdg. Cup tallow on lead Amt. Bot'm Sample 1/2 oz.

Character of Bottom S, M

Thermom. { Make None Cor'n { Instr. Stem.

Bottom Reading None used Cor'd Temp.

Temp. Surf. { 85° Time 11:05 } Air { 87 1/2°  
85° Time 11:36 } 89 1/2°

Density: Surf. 1.02489 fms.

Wind: Direction N. Pt. Force 1

Baromet. 29.66 Amt. of Clouds .6 State of Sea 2

Weather bc

Direction and Force of Current { Surface Bottom

Tide Matecot Pt. 8 1/2, 3.3 vai.

General Locality Balanzon Bay

Cebu Id (cont.) S. 50 W. Malwa Pt. 2 1/2, S. 17 E.

Position 13-41-15 N. 121-00-50 E.

Chart used: No. 4240 Ed'n

Drift: Direction N. 46 W. Distance 1.0

Depth of Haul bottom

Apparatus and Rig used 12' Agassiz N.R., 2 wing weights, 1 tail weight, 3 glass floats, 1 mud bag

Time towing h. 20 m.

Remarks: Part wing weight

Deck Officer Mr. Hazard Recorder C. P. Long

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
A. M. Down.	Up.	A. M.		A. M. Down.	Up.	A. M.
10 47 00	10 52 40		0	10 59 30	11 38 00	
10 48 15	10 50 10		100	11 02 00	11 34 40	
10 48 45	10 49 00		200	11 06 30	11 31 25	
			230			
			300	11 07 30		
			350			
			400	11 08 40	11 28 40	
			500			
			600			
			700			
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Dredge } No. 5266 Date, June 8, 1908  
Hydrog. }  
Sdg. Mch. Tanner Reel 511 35 lbs.  
Turns 110 Cor'n Depth 100 fms.  
Sdg. Cup Armonny Amt. Bot'm Sample 207  
Character of Bottom m

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

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

Temp. Surf. { 84° Time 9:17 a } Air { 83°  
               { 85° Time 9:46 a }       { 84°

Density: Surf. 1.02448 fms. \_\_\_\_\_

Wind: Direction calm Force 0

Baromet. 29.78 Amt. of Clouds 7 State of Sea S

Weather very

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

Tide \_\_\_\_\_ → 7 mi.

General Locality Bulangas Bay

Gayador Pt (Luzon) S 59 W Matroco Pt S 22 E

Position 13-44-56 N - 120-59-15 E

Chart used: No. 4340 CS Ed'n \_\_\_\_\_

Drift: Direction 71.86 W Distance 1.1

Depth of Haul bottom

Apparatus and Rig used 17 apparatus NR 1-m bag  
1 tail wt. 2 wing wts. 3 glass balls

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

Remarks:

Deck Officer M. J. Metters Recorder Roberts

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
A. M. DOWN.	UP.	A. M.		A. M. DOWN.	UP.	A. M.
9 06	50	9 10 30	0	9 11	30	9 45 00
9 07	40	9 08 20	100	9 14	20	9 46 20
9 07	45	9 08 00	110	9 17	30	9 47 30
			200			
			300			
			400			
			500			
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			4800			
			4900			

Dredge } No. 5267 Date, June 9, 1908  
Hydrog. }  
Sdg. Mch. Tanner Reel 571 Shot 35 lbs.  
Leads  
Turns 175 Cor'n Depth 170 fms.  
Sdg. Cup arming Amt. Bot'm Sample 207  
Character of Bottom blk sh. con

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

Bottom Reading Cor'd Temp.

Temp. Surf. { 85° Time 10:15A } Air { 85  
                  {                    }        {

Density: Surf. 1.02449 fms.

Wind: Direction variable Force 0-1

Baromet. 29.78 Amt. of Clouds 6 State of Sea S

Weather very

Direction and Force of Current { Surface  
  { Bottom

Tide ↻ 5.5 mi

General Locality Batangas Bay

Bayadon Pt. (Luzon) S 75° W Matroco Pt. (Luzon) S 89° E

Position 13-42-20 N - 120-58-25 E

Chart used: No. 4240 CS Ed'n —

Drift: Direction 86.5 W Distance 1.3

Depth of Haul bottom

Apparatus and Rig used as before

Time towing — h. 20 m.

Remarks: Recording watch stopped at 10:15.

Deck Officer Mr. Metten Recorder Roberts

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
A. M. DOWN.	UP.	A. M.		A. M. DOWN.	UP.	A. M.
10 06 15	10	17 20	0	10 14 30	10	55 30
07 00		09 50	100	18 30		52 10
10 07 40	10	08 00	175 200	22 00		49 40
			<del>200</del>	10 25 00	10	45 00
			400			
			500			
			600			
			700			
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			4700			
			4800			
			4900			

Dredge } No. 5268 Date, June 4, 1909  
Hydrog. }

Sdg. Mch. Tanner Reel 157 Shot Lead 35 lbs.

Turns 170 Cor'n Depth 170 fms.

Sdg. Cup Arming Amt. Bot'm Sample 2.07

Character of Bottom Brk. & pebb.

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

Bottom Reading Cor'd Temp.

Temp. Surf. { 85° Time 11:05 a } Air { 83°  
              { 85° Time 11:45 a }     { 80°

Density: Surf. 1.02433 fms.

Wind: Direction South Force 1-2

Baromet. 29.75 Amt. of Clouds 7 State of Sea 5

Weather bcy

Direction and Force of Current { Surface  
  { Bottom

Tide → 5.8 mi.

General Locality Batangas Bay

Cagador Pt. (Luzon) 17 1/2 W. Malabon (Philippines) 150 E.

Position 13-42-00 N. - 120-57-15 E.

Chart used: No. 4240CS Ed'n

Drift: Direction N 3 W Distance 1.0

Depth of Haul Bottom

Apparatus and Rig used as before

Time towing h. 10 m.

Remarks:

Deck Officer M. Mettens Recorder Roberto



SOUNDING WIRE.				FMS.	DREDGING CABLE.								
<u>A</u> M. Down.	Up.	<u>A</u> M.			<u>A</u> M. Down.	Up.	<u>A</u> M.						
10	57	00		0	11	03	20	11	44	30			
	57	50	11	00	50	100		07	10	41	00		
10	58	30	10	59	00	178	200	10	30	37	40		
						300		11	14	00	11	34	00
						400							
						500							
						600							
						700							
						800							
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						4000							
						4100							
						4200							
						4300							
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						4500							
						4600							
						4700							
						4800							
						4900							

Dredge } No. 5269 Date, 8 June 1908  
Hydrog }

Sdg. Mch. T. N. Reel T. N. Shot 35 lbs.  
Lead

Turns 238 Cor'n 240 = 221 Depth 220 fms.

Sdg. Cup Arming Amt. Bot'm Sample trace.

Character of Bottom fine p. s.

Thermom. { Make N. 3. Cor'n { Instr. No. 108023. Stem.

Bottom Reading didn't register Cor'd Temp.

Temp. Surf. { 85.0 Time 1:23 p. } Air { 84.0  
85.0 Time 1:55 p. } 85.0

Density: Surf. 1.02417 fms. 1.02509

Wind: Direction SE Force 3

Baromet. 29.71 Amt. of Clouds 8 State of Sea S

Weather bc.

Direction and Force of Current { Surface Bottom

Tide

→ 3 mi.

General Locality Batangas Bay

Cutebra Id. (E) 3.51 W. - Matoco Pt 5.54 E

Position 13°39'50"N - 120°59'30"E

Chart used: No. 4240 Ed'n -

Drift: Direction N 18 E Distance 1.5 mi

Depth of Haul Bottom

Apparatus and Rig used As before.

Time towing - h. 20 m.

Remarks: Wtr bottle used in sdg. -  
Thermometer tripped but failed to register.

Deck Officer J. C. Hazard Recorder A. N. Kil

SOUNDING WIRE.				FMS.	DREDGING CABLE.						
P M. DOWN.		UP.	P M.		P M. DOWN.		UP.	P M.			
1	04	10	1 15 00	0	1	19	40	✓	09	50	
	05	40	11 50	100		23	00		06	20	
	07	10	08 45	200		26	00	✓	02	50	
1	07	50	1 08 00	235	300	29	15		57	10	
				400		32	30		55	30	
				430	500	1	34	00	1	54	00
				600							
				700							
				800							
				900							
				1000							
				1100							
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				4600							
				4700							
				4800							
				4900							

Dredge } No. 5270 Date, 8 June, 1908  
Hydrog. }

Sdg. Mch. T. 50 Reel T. 50 Shot 35 lbs.  
Sink Lead

Turns 270 Cor'n Depth 275 fms.

Sdg. Cup Arming Amt. Bot'm Sample Trace

Character of Bottom gy. S. G. Sp. -

Thermom. { Make N. 3. Cor'n { Instr. -.24  
                  { No. 108023.                    { Stem. -.27

Bottom Reading 50.2° Cor'd Temp. 49.5

Temp. Surf. { 84° Time 3:20 p. } Air { 85°  
                  { 83° Time 3:50 p. }        { 80.5°

Density: Surf. 1.02448 fms.

Wind: Direction SE-WSW Force 3-4

Baromet. 29.68 Amt. of Clouds 7 State of Sea 6

Weather beg

Direction and Force of Current { Surface  
  { Bottom

Tide 4.25 mi.

General Locality Verde Id. Passage.

Escarcas Id. S 9 E - Verde Id. (N) S 79 E

Position 13° 35' 45" N = 120° 58' 30" E

Chart used: No. 4240 Ed'n -

Drift: Direction N 1 W Distance 1.1 mi.

Depth of Haul Est. 130-150 fms.

Apparatus and Rig used 10' Inter # 5; 2 plank-  
tows # 20 x # 2; double cones.

Time towing - h. 20 m.

Remarks: Wtr. bottle used in sdg. but  
no specimen received (= leaked out)

Deck Officer Mr. Hazard Recorder [Signature]

SOUNDING WIRE.			FMS.	DREDGING CABLE.				
P. M. Down.	Up.	P. M.		P. M. Down.	Up.	P. M.		
3	04 00	3	15 30	0	3	20 20	3	55 00
	05 00		17 25	100		23 30		57 00
	06 00		19 15	200	3	27 00	3	47 00
3	06 50	3	07 20 270	300				
				400				
				500				
				600				
				700				
				800				
				900				
				1000				
				1100				
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				4000				
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				4300				
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				4500				
				4600				
				4700				
				4800				
				4900				

Dredge } No. 5271 Date, July 14, 1908  
Hydrog. }

Sdg. Mch. Tanner Reel T.M. Shot Lead 30 lbs.

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

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

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

Thermom. { Make N.Z. Cor'n { Instr. \_\_\_\_\_  
                  { No. 105023 ✓                    { Stem. \_\_\_\_\_

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

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

Position \_\_\_\_\_

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

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

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

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

Time towing \_\_\_\_\_ h. \_\_\_\_\_ m.  
Remarks: Ran out 75 fath<sup>s</sup> dredging, <sup>to</sup> take out turns. Every thing carried away at sounding, including water bottle, thermometer, Sigbee Sdg. Cup, 30<sup>th</sup> shot and 4 fath were stray lead put on above this and water bottle

Deck Officer Mr. Mutton Recorder C. E. [Signature]

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				
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				4800				
				4900				

Dredge } No. 5-271 Con. Date, July 14, 1908  
Hydrog. }  
Sdg. Mch. Tanner Reel T.D. Shot Lead 35 lbs.  
Turns 56 Cor'n \_\_\_\_\_ Depth 56 fms.  
Sdg. Cup tallow on lead Amt. Bot'm Sample plentiful  
Character of Bottom S.

Thermom. { Make none Cor'n { Instr. \_\_\_\_\_  
                  { No. \_\_\_\_\_                    { Stem. \_\_\_\_\_

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

Temp. Surf. { 85° Time 8.16 } Air { 83°  
                  { 88° Time 8.39 }            { 88 1/2

Density: Surf. 1.02552 \_\_\_\_\_ fms. \_\_\_\_\_

Wind: Direction S.W. Force 3

Baromet. 29.68 Amt. of Clouds 8 State of Sea G.

Weather bc.

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

Tide Corregidor S. N 18° 30' E., 20.7 mi.

General Locality Tortosa Id (S.E.) E.; Limbone Id

(N.W.) N. 33° E.; China Sea, E. Luzon

Position Lat 14° 03' 00" N. Long 129° 27' 45" E

Chart used: No. 4240 Ed'n Feb 1907.

Drift: Direction S. Distance .7 mi.

Depth of Haul bottom

Apparatus and Rig used 12' Agassiz N.R., 3 glass floats, v. trawling weights, 1 tail weight

Time towing h. 19 1/4 m.

Remarks: See preceding page.

Deck Officer Mrs. Wetters Recorder C.E. DeLong



SOUNDING WIRE.			FMS.	DREDGING CABLE.		
9 M. Down.	Up.	9 M.		9 M. Down.	Up.	9 M.
8 07 40	8 10 40		0	8 14 00	8 43 40	
8 08 10	8 08 15		5-6 100	8 15 20	8 39 50	
			110	8 19 20		
			200	8 29 30	8 38 45	
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
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			4900			



SOUNDING WIRE.			FMS.	DREDGING CABLE.		
a. M. Down.	Up.	a. M.		a. M. Down.	Up.	a. M.
9 30 30	9 36 20		0	9 33 00	10 19 20	
9 31 30	9 32 50		100	9 35 30	10 13 40	
9 31 40	9 52 10	121	200	9 41 15	10 10 10	
			200	9 42 50		
			300	10 05 10	10 09 10	
			400			
			500			
			600			
			700			
			800			
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			4900			



SOUNDING WIRE.			FMS.	DREDGING CABLE.		
a M. Down.	Up.	a M.		a M. Down.	Up.	a M.
10 32 20	10 38 20		0	10 39 00	11 27 30	
10 33 15	10 34 15		100	10 41 40	11 22 00	
10 33 25	10 33 45		200	10 44 50	11 18 20	
			300	10 45 10		
			400	10 47 00	11 17 00	
			500			
			600			
			700			
			800			
			900			
			1000			
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			1200			
			1300			
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			4700			
			4800			
			4900			



SOUNDING WIRE.				FMS.	DREDGING CABLE.			
a.M. Down.	Up.	a.M.			a.M. Down.	Up.	a.M.	
9	8.50	9	22.40	0	9	27.10	11	07.30
	13.10		22.00	100		31.10	11	03.30
	12.05		21.20	200		34.40	11	00.00
	15.10		20.40	300		38.30		56.10
	16.10		20.05	400		41.25		52.30
	17.15		18.20	500		44.40		48.05
9	17.50	9	18.50	525	600	48.10		43.40
				700		51.30		39.00
				800		55.30		34.15
				900	9	59.00	10	29.00
				1000				
				1100				
				1200				
				1300				
				1400				
				1500				
				1600				
				1700				
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				4000				
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Dredge } No. 5275 Date, 16 Jul, 1908  
Hydrog. }

Sdg. Mch. J. N. Reel Shot Lead 20 lbs.

Turns 120 Cor'n 120=117 Depth 117 fms.

Sdg. Cup Arming Amt. Bot'm Sample Force

Character of Bottom fine S.

Thermom. { Make } none used Cor'n { Instr. } -  
{ No. } { Stem. } -

Bottom Reading - Cor'd Temp. -

Temp. Surf. { 83° Time 12:57 } Air { 82°  
84° Time 1:35 } 82°

Density: Surf. 1.02453 fms. -

Wind: Direction SSW Force 3-4

Baromet. 29.61 Amt. of Clouds 10 State of Sea C

Weather opp

Direction and Force of Current { Surface }  
{ Bottom }

Tide Malawetan Id. (N S 71° E., 10.75 mi.)

General Locality China Sea, N. Luzon Ids

Ambil Id. (W) S 36 E - Luzon Ids (W) S 40 W

Position 13° 55' 55" N - 120° 10' 15" E

Chart used: No. 4240 Ed'n [50] [00]

Drift: Direction N 84° E Distance 1.5 m.

Depth of Haul Bottom

Apparatus and Rig used As before

Time towing - h. 20 m.

Remarks: Sta. Hy 4913, next page, also shows terminal sag. of this number.

Deck Officer J. N. Recorder Arupil-



SOUNDING WIRE.						FMS.	DREDGING CABLE.						
P. M. DOWN.			UP. P. M.				P. M. DOWN.			UP. P. M.			
12	49	10	12	54	30	0	12	53	00	1	32	00	
	50	10		51	20	100		56	40		28	40	
12	50	30	12	50	50	120	200	59	20		25	10	
						300	50	1	01	00			
						300	400	1	05	00	1	21	20
						500							
						600							
						700							
						800							
						900							
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SOUNDING WIRE.					FMS.	DREDGING CABLE.		
<del>⊕</del> M. Down.	Up.	<del>⊕</del> M.				M. Down.	Up.	M.
1	26	50	1	32	10			
	27	50		28	45			
1	28	00	1	28	10/20			
					0			
					100			
					200			
					300			
					400			
					500			
					600			
					700			
					800			
					900			
					1000			
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					4900			

Dredge } No. 5276 Date, July 17, 1905  
Hydrog. }

Sdg. Mch. Tanner Reel Shot 35 lbs.  
Lead

Turns 15 Cor'n — Depth 15 fms.

Sdg. Cup tallow on lead Amt. Bot'm Sample plentiful

Character of Bottom sh. P. S.

Thermom. { Make None used Cor'n { Instr. No. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 82° Time 8:49 } Air { 80°  
82° Time 9:05 } 80 1/2°

Density: Surf. X not taken fms.

Wind: Direction S. S. W. Force 3

Baromet. 29.64 Amt. of Clouds 10 State of Sea C.

Weather cal.

Direction and Force of Current { Surface Bottom

Tide Malawetan Id (N.W.) N 61° 30' E, 6.5 mi (W)

General Locality Ambil Id S 56° E, N. W. point to Balibias Bay S 3° W; China Sea N. Sulu

Position 12° 49' 15" N; 120° 14' 45" E

Chart used: No. 4240 Ed'n

Drift: Direction N 22° W Distance 17 mi.

Depth of Haul bottom

Apparatus and Rig used 12' Agassiz H. R., 3 glass floats, mud bag, & rolling weights, tail weight

Time towing h. 15 m.

Remarks: Net badly torn.

Deck Officer Mr. Mutton Recorder C. B. Long

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
A. M. Down.	Up.	A. M.		A. M. Down.	Up.	A. M.
8 43 50	8 44 25		0	8 45 10	9 07 00	
8 44 00	8 44 05	15	100	8 48 30		
			200	8 51 20	9 03 40	
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
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			4100			
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			4800			
			4900			

Dredge } No. 5277 Date, July 17, 19

Hydrog. }  
Sdg. Mch. Tanner Reel T.N. Shot Lead 35 lbs.

Turns 81 Cor'n - Depth 80 fms.

Sdg. Cup tallos on lead Amt. Bot'm Sample about 1/2 of

Character of Bottom fine S.

Thermom. { Make T.G. Cor'n { Instr. -.2  
                  { No. 108013                    { Stem. -.41

Bottom Reading 59.2 Cor'd Temp. 58.6

Temp. Surf. { 83° Time 10:11 } Air { 82 1/2°  
                  { 83° Time 10:40 }        { 81°

Density: Surf. 1.02442 fms.

Wind: Direction S.S.W. Force 4

Baromet. 29.64 Amt. of Clouds 10 State of Sea C

Weather 0

Direction and Force of Current { Surface  
  { Bottom

Tide Malavatuwa Id (N) S 56° E. 8. min

General Locality Anbil Id. (W) S 12° E; Malavatuwa Id. (N) S. 5-6° E.; China Sea N. Lubang Id.

Position 13° 5-6' 55" N. 120° 13' 45" E  
  [45]

Chart used: No. 4240 Ed'n

Drift: Direction S. 70° E. Distance 1.2 mi.

Depth of Haul bottom

Apparatus and Rig used 12' Agassiz N.R., mud bag, 2 glass flats, 2 ring weights, 1 tail weight

Time towing h. 19 1/4 m.

Remarks:

Deck Officer Mr. Meters Recorder C. E. De Long







SOUNDING WIRE.						FMS.	DREDGING CABLE.					
9 M. Down.			Up. 9 M.				9 M. Down.			Up. 9 M.		
11	32	35	11	35	30	0	11	42	00		14	10
11	33	35	11	34	35	100	11	45	00		06	50
11	33	35	11	34	35	200	11	48	05	12	02	00
						300	11	50	35	11	58	20
						400	11	52	00			
						500	11	52	35	11	56	15
						600						
						700						
						800						
						900						
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						3700						
						3800						
						3900						
						4000						
						4100						
						4200						
						4300						
						4400						
						4500						
						4600						
						4700						
						4800						
						4900						



SOUNDING WIRE.				FMS.	DREDGING CABLE.			
<i>P</i> M. Down.	Up.	<i>P</i> M.			<i>P</i> M. Down.	Up.	<i>P</i> M.	
1	10 30	1	16 20	0	1	15 10	1	48 00
1	12 30		13 30	100		18 40		44 00
1	17 40	1	13 00	200		22 30		40 00
				300		25 20		35 40
				400		26 20	1	34 30
				500				
				600				
				700				
				800				
				900				
				1000				
				1100				
				1200				
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				1400				
				1500				
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				1700				
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				2000				
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				4500				
				4600				
				4700				
				4800				
				4900				

Dredge } No. 5280 Date, July 17, 1908  
Hydrog. }

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

Turns Cor'n Depth 193 fms.

Sdg. Cup sigbe Amt. Bot'm Sample amt. amt.

Character of Bottom gy S.

Thermom. { Make H3 Cor'n { Instr. -.13  
                  { No. 108013                    { Stem. -.53

Bottom Reading 50.3 Cor'd Temp. 49.6

Temp. Surf. { 83° Time 2:50 P } Air { 81°  
                  { 83 Time 3:38 P }        { 81°

Density: Surf. 1.02422 Bot'm fms. 1.02517

Wind: Direction SW Force 4-5

Baromet. 29.65 Amt. of Clouds 8 State of Sea C

Weather bcg

Direction and Force of Current { Surface  
  { Bottom

Tide Malavatuau Id (N) S 60° W, 6.1 mi.

General Locality China Sea, East Luzon Id  
Santiago 855 E Malavatuau Id (E) S 84 W.

Position 13-55-20 N - 120-25-55 E. [45]

Chart used: No. 4240 Ed'n -

Drift: Direction 71.38 E Distance .6

Depth of Haul bottom

Apparatus and Rig used as before

Time towing - h. 18 m.

Remarks:

Deck Officer Me Hazard Recorder Roberts

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
P. M. Down.	Up.	P. M.		P. M. Down.	Up.	P. M.
2 36 10	2	44 00	0	2 50 40	3	37 10
37 30		43 00	100	54 15		33 40
2 41 30	2	42 30	193 200	57 40		30 30
			300	3 01 10		27 15
			400	05 00	3	22 40
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1800			
			1400			
			1500			
			1600			
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			2800			
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			3000			
			3100			
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			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Dredge } No. 5281 Date, 18 July, 1908  
Hydrog. }

Sdg. Mch. Lucas Reel Lucas Shot/Load 35 lbs.

Turns 201 Cor'n - Depth 201 fms.

Sdg. Cup Sigsbee Amt. Bot'm Sample Trace

Character of Bottom Mgy S

Thermom. { Make 713 Cor'n { Instr. 713  
No. 108013 Stem. 53

Bottom Reading 51.1° Cor'd Temp. 50.4

Temp. Surf. { 84° Time 10:29 } Air { 81.5°  
83° Time 11:00 } 82°

Density: Surf. 1.02402 Bot'm fms. 1.02538

Wind: Direction SSW Force 3

Baromet. 29.69 Amt. of Clouds 10 State of Sea S

Weather 0

Direction and Force of Current { Surface  
Bottom

Tide (4.3 mi.)

General Locality

Cape Santiago Lt. 8.65°E, Malapitan Id(N) 8.84°W.

Position 13-52-45N - 126-25-00"E.

Chart used: No. 4240 Ed'n [45]

Drift: Direction N 86°E. Distance 1.3

Depth of Haul Bottom.

Apparatus and Rig used 12' Agassiz NR; 2 ring wts, tail out, mud bag, 3 glass floats.

Time towing - h. 20 m.

Remarks: Wtr bottle used in sog.

Deck Officer Dr. Hazard Recorder A. J. [unclear]

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
A. M. Down.	Up.	A. M.		A. M. Down.	Up.	A. M.
10 15 00	10 20 00		0	10 25 30	11 14 30	
16 00	19 00		100	59 15	11 00	
16 55			200	53 30	07 30	
10 16 56	10 18 10	201	300	57 20	04 00	
			400	10 40 00	11 00 00	
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
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			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Dredge } No. 5282 Date, 18 July, 1908  
Hydrog. }

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

Turns 248 Cor'n - Depth 248 fms.

Sdg. Cup Sigsbee Amt. Bot'm Sample 2 3.

Character of Bottom dk gy S

Thermom. { Make T.S. Cor'n { Instr. -11  
                  { No. 108013.                    { Stem. .56

Bottom Reading 48.10 Cor'd Temp. 47.4.

Temp. Surf. { 83° Time 11:36 } Air { 82°  
                  { 83 Time 12:04 }            { 82 1/2

Density: Surf. 1.02437 Bot'm fms. 1.02517

Wind: Direction SSW Force 4

Baromet. 29.69 Amt. of Clouds 9 State of Sea S

Weather bc

Direction and Force of Current { Surface  
  { Bottom

Tide

→ 6.2 mi

General Locality Cape Santiago Lt S. 61° E; Malantran Id. (N) S 84° W. China Sea, Luzon

Position 13° 53' 00" N 120° 26' 45" E [27-00]

Chart used: No. 4240 Ed'n

Drift: Direction N. 85° E. Distance .7 mi

Depth of Haul Bottom

Apparatus and Rig used As before.

Time towing h. 19 1/2 m.

Remarks: W. Febothe used in Sdg.

Deck Officer { Mr. Cassidy Recorder { [Signature] 11-1023



SOUNDING WIRE.				FMS.	DREDGING CABLE.							
A. M. Down.		Up.	A. M.		A. M. Down.		Up.	P. M.				
11	18	40	11	23	45	0	11	26	00	12	21	25
	19	35		27	55	100		29	30	12	17	45
	20	30		22	20	200		33	00	12	14	05
11	21	00	11	22	00	300		36	40	12	10	00
						400		40	00	12	07	00
						500	11	43	30	12	03	00
						600						
						700						
						800						
						900						
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						4500						
						4600						
						4700						
						4800						
						4900						

✓

Dredge } No. 5283 Date, July 18, 1908  
Hydrog }

Sdg. Mch. Sigsbee Reel Sigsbee Shot/Lead 30 lbs.

Turns 280 Cor'n \_\_\_\_\_ Depth 280 fms.

Sdg. Cup Sigsbee Amt. Bot'm Sample trace

Character of Bottom M. gy. S.

Thermom. { Make N. G. Instr. -1  
          { No. 105013 Cor'n { Stem. -0.57

Bottom Reading 47.5 Cor'd Temp. 46.8

Temp. Surf. { 82° Time 1<sup>15</sup> } Air { 79°  
              { 83° Time 2<sup>12</sup> }       { 80°

Density: Surf. 1.02417 Bot'm fms. 102517

Wind: Direction S. by W. Force 6-4

Baromet. 29.68 Amt. of Clouds 9 to 10 State of Sea 2

Weather S. by W.

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

Tide Malaitian Id (N) N. 64° W., 8.75 mi.

General Locality Cape Santiago Lt. S 78° E.; Gales Id (E) S 16° W.; China Sea, East Luzon

Position 13° 48' 30" N; 120° 28' 40" E

Chart used: No. 4240 Ed'n \_\_\_\_\_

Drift: Direction S 83° E Distance 1.7 mi

Depth of Haul bottom

Apparatus and Rig used as before

Time towing h. 24 m.

Remarks:

Deck Officer Mr. Cassidy Recorder C. B. Peck

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
P.M. DOWN.	UP.	P.M.		P.M. DOWN.	UP.	P.M.
1 03 20	1 08 50		0	1 17 15	2 19 15	
1 04 25	1 08 15		100	1 20 45	2 15 30	
1 05	1 07 00		200	1 24 10	2 12 10	
1 05 40	1 06 40		<del>300</del>	1 27 50	2 08 40	
			400	1 30 25	2 05 10	
			500	1 34 10	2 01 30	
			<del>600</del>	1 36 00	1 59 50	
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
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			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Dredge } No. 5284 Date, July 20, 1905  
Hydrog. }

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

Turns \_\_\_\_\_ Cor'n \_\_\_\_\_ Depth 422 fms.

Sdg. Cup Sigbee Amt. Bot'm Sample 40g

Character of Bottom gy. m. glob

Thermom. { Make 77 Cor'n { Instr. -06  
No. 108013 Stem. .63

Bottom Reading 43. Cor'd Temp. 42.3

Temp. Surf. { 84 Time 8:20 a. Air { 83°  
84° Time 9:40 a. 81.0

Density: Surf. 1.02437 Bot'm fms. 1.02566

Wind: Direction S Force 2

Baromet. 29.73 Amt. of Clouds 4 State of Sea S

Weather bcy

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

Tide Malawatuan Id(S) N46°W, 14.25 mi

General Locality China sea North Mindoro

Ambil Id (N.E) N57W Solo Id (E) S54W

Position 13-42-05 N - 120-30-45 E

Chart used: No. 4240 Ed'n \_\_\_\_\_

Drift: Direction 824 E Distance 1.1

Depth of Haul bottom

Apparatus and Rig used 12' agassiz NR 2 wing

wt; mud trap, 1 lb. wt

Time towing \_\_\_\_\_ h. 25 m.

Remarks: water bottle was used in sounding

Deck Officer M Metters Recorder Roberts

SOUNDING WIRE.				FMS.	DREDGING CABLE.			
A. M. Down.		Up.	A. M.		A. M. Down.		Up.	A. M.
8	02 50	8	10 40	0	8	19 30	9	38 50
	03 40		10 00	100	8	23 00		34 50
	04 40		09 20	200		26 10		31 20
	05 35		08 50	300		29 10		28 00
	06 35		08 10	400		32 15		34 20
8	07 00	8	08 00	422 500		35 20		30 30
				600		38 40		16 40
				700		42 00		12 30
				800	8	44 30	9	10 10
				900				
				1000				
				1100				
				1200				
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				1700				
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				1900				
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				3900				
				4000				
				4100				
				4200				
				4300				
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				4500				
				4600				
				4700				
				4800				
				4900				

Dredge } No. 5285 Date, July 20, 1914  
Hydrog. }

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

Turns \_\_\_\_\_ Cor'n \_\_\_\_\_ Depth 272 fms.

Sdg. Cup (Ligabur) lost Amt. Bot'm Sample \_\_\_\_\_

Character of Bottom soft mud.

Thermom. { Make 726 Cor'n { Instr. -1  
                  { No. 108013                    { Stem. -60

Bottom Reading 47.2 Cor'd Temp. 46.5

Temp. Surf. { 84° Time 10:15 a } Air { 85°  
                  { 84° Time 11:25 a }        { 84°

Density: Surf. 1.02497 fms. 1.02421

Wind: Direction SW Force 2

Baromet. 29.77 Amt. of Clouds 4 State of Sea 3

Weather bcg

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

Tide Malawatan Id(S) N 45° W, 17.5 mi.

General Locality China Sea N Mindoro

Ambil Id (NE) N 54° W 1/2 mi. 2 (E) 580 W

Position 13-39-36 N - 120-32-55 E  
  [33-06]

Chart used: No. 4240 Ed'n \_\_\_\_\_

Drift: Direction S 21 E Distance 1.7

Depth of Haul bottom

Apparatus and Rig used as before

Time towing h. 30 m.

Remarks: water bottle used, sounding cup was lost (Ligabur)  
One glass ball lost in net.

water haul - net not on bottom.

Deck Officer Mr. Mesters Recorder Rabbits

SOUNDING WIRE.				FMS.	DREDGING CABLE.		
<i>a</i> M. Down.	Up.	<i>a</i> M.	<i>a</i> M. Down.		Up.	<i>a</i> M.	
10 02 40	10	08 00		0	10 14 00	11 23 30	
03 35		07 30		100	17 30	19 30	
04 30		06 50		200	21 10	16 05	
10 05 10	10	04 10	27	300	24 30	12 30	
				400	28 00	09 00	
				500	31 30	05 10	
				600	10 33 00	11 03 00	
				700			
				800			
				900			
				1000			
				1100			
				1200			
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				4400			
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				4700			
				4800			
				4900			





## SOUNDING WIRE.

FMS.

## DREDGING CABLE.

M. DOWN.		UP.	M.		FMS.	M. DOWN.			UP.	M.	
11	30	20	11	39		00					
	31	05		38	00						
	32	00		37	20						
	32	45		36	40						
	33	40		36	00						
11	34	30	11	35	30	46					
						600					
						700					
						800					
						900					
						1000					
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						1200					
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						4800					
						4900					

Dredge } No. 5286 Date, 20 July, 1908  
Hydrog. }  
Sdg. Mch. Lucas Reel Lucas Shot 35 lbs.  
Turns 450 Cor'n - Depth 450 fms.  
Sdg. Cup Sigbee Amt. Bot'm Sample 3 1/2 oz.  
Character of Bottom gy. S. T. N. 3.  
Thermom. { Make N. 3. Cor'n { Instr. -.06  
          { No. 108013            { Stem. -.63  
Bottom Reading 43.2° Cor'd Temp. 42.5°  
Temp. Surf. { 84° Time 12:41 p. Air { 84.5°  
              { 85° Time 1:53 p.        { 85°  
Density: Surf. 1.02503 Bot'm fms. 1.02556  
Wind: Direction SSW Force 3  
Baromet. 29.70-29.6 Amt. of Clouds 5 State of Sea S  
Weather bc

Direction and Force of Current { Surface  
  { Bottom

Tide Malawatuan Id(S) N. 45° W., 19.5 mi.

General Locality Chinn Sea North Mindoro.

Ambil Id (NE) N. 53 W - Golo Id (E) N 89 W

Position 13 38.15 N - 120 34 20 E  
[05]

Chart used: No. 4240 Ed'n -

Drift: Direction N 78° E Distance 1.8 m.

Depth of Haul Bottom

Apparatus and Rig used 12' Agassiz NR trawl.  
2 wing wts, tail wt, mudbar, 3 fl. floats.

Time towing - h. 20 m.

Remarks: No bottle used in sdg.  
Net wrecked.

Deck Officer J. T. Hazard Recorder J. T. Hazard

SOUNDING WIRE.				FMS.	DREDGING CABLE.								
P. M. Down.	Up.	P. M.			P. M. Down.	Up.	P. M.						
12	26	45	12	35	50	0	12	39	45	2	05	10	
	27	50		55	00	100		42	50	2	01	00	
	28	50		34	20	200		46	40		57	00	
	29	50		33	35	300		50	00		53	10	
	30	50		32	13	400		53	30		49	00	
12	31	20	12	32	20	450	500	57	00		43	15	
						600		1	00	00	39	10	
						700			03	45	35	20	
						800			07	10	31	10	
						900		1	09	00	1	28	45
						1000							
						1100							
						1200							
						1300							
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V

Dredge } No. 538) Date, 20 July, 1908  
 Hydrog. }  
 Sdg. Mch. Lucas Reel Lucas Shot 35 lbs.  
 Turns 379 Cor'n - Depth 379 fms.  
 Sdg. Cup Sigbee Amt. Bot'm Sample Trace  
 Character of Bottom G.S.  
 Thermom. { Make N.3. Cor'n { Instr. -.09  
 { No. 108013. { Stem. -.64  
 Bottom Reading 44.1° Cor'd Temp. 43.4  
 Temp. Surf. { 85° Time 2:43p. } Air { 84. }°  
 { 84° Time 3:30p. } { 84. }°  
 Density: Surf. 1.02433 fms. 1.02521  
 Wind: Direction SSW Force 3  
 Baromet. 29.66 Amt. of Clouds 6 State of Sea S.  
 Weather bc

Direction and Force of Current { Surface  
 { Bottom

Tide

→ 11.25 mi.

General Locality

Verde Id Passage

Santiago Id. N. - Sombros Id. N 68 E

Position

13 37 40 N - 120 36 45 E

Chart used: No.

4240

Ed'n

[50]

Drift: Direction

S 73° E

Distance

2.2 mi

Depth of Haul

Calculated 310 fms.

Apparatus and Rig used

10' Inter, double cone

Sinker

Time towing

h. 19 1/2 m.

Remarks:

Wt. bottle used in sdg. -

- 550 fms. dredge rope reeled out, as per column "Dredging Cable" on opposite page (vertical depth of haul = 310 fms).

Deck Officer

Mr. Hazard

Recorder

Fruit

## SOUNDING WIRE.

FMS.

## DREDGING CABLE.

M. Down.		Up.	P. M.		FMS.	M. Down.		Up.	P. M.	
2	26 10	γ	38 30			0	2	39 00	3	41 00
	27 00		32 40		100		48 00		36 30	
	27 55		32 00		200		46 15		32 00	
	28 55		31 20		300		44 30		28 00	
γ	29 40	γ	30 40	379	400		52 20		23 40	
					500		55 50		19 10	
					600	2	57 30	3	17 00	
					700					
					800					
					900					
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SOUNDING WIRE.				FMS.	DREDGING CABLE.					
M. Down.		Up.	M.		A. M. Down.		Up.	A. M.		
				0	8	06	10	8	41	40
				100 <sup>100</sup>	8	08	10	8	37	20
				200 <sup>200</sup>	8	10	45			
				300 <sup>300</sup>	8	14	15	8	33	30
				400						
				500						
				600						
				700						
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Dredge } No. 5289 Date, July 22, 1918  
Hydrog. }

Sdg. Mch. Lucas Reel P.M. Shot/Lead 35 lbs.

Turns 181 Cor'n - 1 Depth 172 fms.

Sdg. Cup Yellow on lead Amt. Bot'm Sample trace

Character of Bottom bk. sh; S.

Thermom. { Make U.S. Cor'n { Instr. No. 108213 Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 83° Time 9:13 } Air { 82°  
84° Time 9:48 } 82°

Density: Surf. 1.02497 Bot'm fms. 1.02359

Wind: Direction S.E. by E Force 2

Baromet. 29.72 Amt. of Clouds 8 State of Sea S

Weather bc

Direction and Force of Current { Surface Bottom

Tide

General Locality Culebra Id (off) S. 24° W. 5.00 mi.

Mateo Pt. Luzon S 42° E. Batangas Bay

Position 13° 41, 50" N 120° 58' 30" E

Chart used: No. 4240 Ed'n

Drift: Direction S 52° E Distance 1 mi.

Depth of Haul bottom

Apparatus and Rig used 12' Agassiz mud bag, 3 glass floats, 2 wing weights, 1 fish weight

Time towing h. 19 3/4 m.

Remarks:

Deck Officer Mr Cassidy Recorder C. B. ...



SOUNDING WIRE.			FMS.	DREDGING CABLE.		
Q M. Down.	Up.	Q M.		Q M. Down.	Up.	Q M.
9 01 10	9 09 20		0	9 06 30	9 53 15	
9 02 15	9 06 30		100	x See below	9 49 40	
9 03 55	9 05 50	181	200	9 14 05	9 46 15	
			300	9 17 30	9 42 55	
			400	9 21 00		
			500	9 29 30	9 40 45	
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
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			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700	x Failed to get time		
			2800	first 100 fathoms was		
			2900	out, as was		
			3000	at sounding		
			3100	machines at that		
			3200	time		
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Dredge } No. 5290 Date, July 22, 1905  
Hydrog. }

Sdg. Mch. Tanner Reel T.M. Shot/Lead 35 lbs.

Turns \_\_\_\_\_ Cor'n \_\_\_\_\_ Depth (Chart) 214 fms.

Sdg. Cup tallow on lead Amt. Bot'm Sample trace.

Character of Bottom fine G. S. S.

Thermom. { Make T.G. note Cor'n below  
No. 10503 Instr. Stem.

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

Temp. Surf. { 84° Time 10:35 } Air { 83°  
84° Time 11:04 } 84°

Density: Surf. 1.02482 Bot'm fms. 1.02354

Wind: Direction S.W. Force 1 to 3

Baromet. 29.71 Amt. of Clouds 4 State of Sea S

Weather bc

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

Tide \_\_\_\_\_ → 3.10 mi.

General Locality Culebra Id. (Ph.) S 52° 00', Matoco Pt Luzon, S 30° E.; Butangas Bay, Luzon

Position 13° 40' 09" N 120° 59' 30" E

Chart used: No. 4240 Ed'n \_\_\_\_\_

Drift: Direction S. 36° E Distance 1.3 mi

Depth of Haul bottom

Apparatus and Rig used 12' Agassiz N.R., mud bag, 3 glass floats,

Time towing h. 19 3/4 m.

Remarks: Lounding a failure as could not tell where lead hit bottom. Probably caused by too light a lead & too great a weight of wire for depth. 5 sinks in sounding wire at 122 fath, 2 at 118, 1 at 95, 1 at 42, 1 at 40, 1 at 26, 1 at 21. Bag slightly torn on net.

Deck Officer Mr Cassidy Recorder C. E. DeLong

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
A. M. Down.	Up.	A. M.		A. M. Down.	Up.	A. M.
<del>10 2 10</del>			0	10 25 30	11 19 15	
<del>10 13 05</del>			100	10 29 15	11 14 40	
<del>10 13 55</del>			200	10 33 00	11 10 45	
<del>10 17</del>			300	10 37 15	11 07 00	
			400	10 40 15	11 03 20	
			500	10 50 25		
			600	51 30		
			700	10 54 20	11 00 00	
			800			
			900			
			1000			
			1100			
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Dredge } No. 5291 Date, July 23, 1908  
Hydrog. }

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

Turns \_\_\_\_\_ Cor'n \_\_\_\_\_ Depth 173 fms.

Sdg. Cup Dredge Amt. Bot'm Sample trace

Character of Bottom fine bk s

Thermom. { Make N 3 Cor'n { Instr. -14  
No. 108013 Stem. -51

Bottom Reading 52.2 Cor'd Temp. 51.5

Temp. Surf. { 84° Time 1:35 P } Air { 86°  
85° Time 2:18 P } 85

Density: Surf. 1.02462 fms. 1.02468

Wind: Direction 777W Force 1-2

Baromet. 29.67 Amt. of Clouds 8 State of Sea S

Weather bcg

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

Tide \_\_\_\_\_

General Locality Subaong Bay Mindoro → 2.2 mi

Escarce Pt. Mindoro 139W (Vend. 18E) 164E

Position 1329-40 N - 121-00-45 E.

Chart used: No. 4240 C.S. Ed'n \_\_\_\_\_

Drift: Direction S 28 E Distance 1.0

Depth of Haul bottom

Apparatus and Rig used as before

Time towing \_\_\_\_\_ h. 2.0 m.

Remarks: Water bottle used in sounding

Deck Officer M. Metters Recorder Roberts

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
P. M. Down.	Up.	P. M.		P. M. Down.	Up.	P. M.
1 24 40	1 29 40		0	1 32 50	2 16 20	
26 00	29 00		100	37 00	12 15	
1 26 50	1 27 50	173	200	40 30	08 40	
			300	1 45 00	2 05 00	
			400			
			500			
			600			
			700			
			800			
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SOUNDING WIRE.			FMS.	DREDGING CABLE.					
P. M. Down.	Up.	P. M.		P. M. Down.	Up.	P. M.			
2	21 30	7 25	00	0	2	27 30	3 07	00	
	22 20	14 30		100		30 50	3 03	15	
2	23 00	2 20	00	160		33 55	3 00	00	
				200		2 37	00	2 57	00
				300					
				400					
				500					
				600					
				700					
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Dredge } No. 5293 Date, July 23, 1908  
Hydrog. }

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

Turns 180 Cor'n - Depth 180 fms.

Sdg. Cup Large Amt. Bot'm Sample Trace

Character of Bottom fine bk S

Thermom. { Make Noy Cor'n { Instr. - .19  
                  { No. 108013                    { Stem. - .44

Bottom Reading 58. Cor'd Temp. 57.4°

Temp. Surf. { 84° Time 3:58 p } Air { 84°  
                  { 84° Time 4:32 p }        { 84.5°

Density: Surf. 1.02457 Bottom fms. 1.02570

Wind: Direction WNW Force 3

Baromet. 29.63 Amt. of Clouds ) State of Sea S

Weather b'z

Direction and Force of Current { Surface  
  { Bottom

Tide

General Locality Subaang Bay Mindoro  
Escarces Pt N 59 W, Verde Id (SE) N 16° E.

Position 13-28-15 N. - 121-04-30 E.

Chart used: No. 4240 Ed'n

Drift: Direction West Distance .8

Depth of Haul Bottom

Apparatus and Rig used as before

Time towing - h. 30 m.

Remarks: water bottle used in sounding  
Deck Officer and Recorder returned  
at 4:00 p.

Deck Officer Mr. Metters Recorder Roberts

Mr. Hazard

11-1023



SOUNDING WIRE.					FMS.	DREDGING CABLE.						
P. M. Down.		Up.	P. M.			P. M. Down.		Up.	P. M.			
3	40	15	3	44	40	0	3	47	30	4	41	00
	41	30		44	00	100		51	30		37	15
3	42	15	3	43	15	180	200	54	40		33	15
						300		58	00		30	00
						400	300	59	00	4	29	50
						500						
						600						
						700						
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Dredge } No. 5294 Date, July 24, 1908  
Hydrog. }

Sdg. Mch. Lucas Reel Lucas Shot/Lead 30 lbs.

Turns 244 Cor'n \_\_\_\_\_ Depth 244 fms.

Sdg. Cup Sigbee Amt. Bot'm Sample trace

Character of Bottom \* S, P

Thermom. { Make N3. Cor'n { Instr. 713  
                  { No. 108013                    { Stem. 55

Bottom Reading 49.1 Cor'd Temp. 48.4

Temp. Surf. { 83° Time 9.08 a } Air { 82°  
                  { 83' Time 9.37 }            { 83°

Density: Surf. 1.02580 Bottom fms. 1.2482

Wind: Direction N.W. Force 3

Baromet. 29.79 Amt. of Clouds 4 State of Sea 2

Weather bc

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

Tide Escarcelo St. S 71° W, 2.75 mi.

General Locality Verde Id (N. Id.) N 9° E, Verde Id. (S.E.) S 74° E, S. Pass, Verde Id. Passage

Position 13° 32' 15" N 121° 02' 00" E

Chart used: No. 4240 Ed'n \_\_\_\_\_

Drift: Direction N 86° W Distance 6 min

Depth of Haul bottom

Apparatus and Rig used 12' Agassiz N.P., 3 glass floats, 1 mud bag, 2 trimming weights, 1 tail weight.

Time towing h. 17 m.

Remarks: Hole torn in mud bag.  
\* Bottom data given me by Mr. Rat-chiff differs from that in Navigator's record book, which is brd. clay, gravel.

Deck Officer W. Hazard Recorder C.D. [unclear]

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
Q. M. Down.	Up.	Q. M.		Q. M. Down.	Up.	Q. M.
8 51 25	8 56 30		0	9 00 20	9 43 30	
8 52 30	8 56 05		100	9 04 15	9 40 15	
8 53 20	8 55 20		200	9 07 45	9 36 40	
8 54 00	8 55 00	244	300	9 11 10	9 31 30	
			400	9 12 55	9 29 45	
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
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			4900			

Dredge } No. 5295 Date, July 27, 1905  
Hydrog. }

Sdg. Mch. Lucas Reel Lucas Shot head 30 lbs.

Turns 231 Cor'n \_\_\_\_\_ Depth 231 fms.

Sdg. Cup Sigbee Amt. Bot'm Sample trace

Character of Bottom gy. s.

Thermom. { Make T.T. Cor'n { Instr. -14  
                  { No. 105013                    { Stem. -51 +

Bottom Reading 52° Cor'd Temp. 51.3

Temp. Surf. { 84° Time 10<sup>16</sup> a } Air { 83°  
                  { 84° Time 10<sup>53</sup> a }       { 83 1/2°

Density: Surf. 1.02457 Bot'm fms. 1.02513

Wind: Direction N.N.W. Force 3

Baromet. 29.78 Amt. of Clouds 4 State of Sea 2

Weather bc

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

Tide \_\_\_\_\_

→ 2.00 mi.

General Locality Verde Id. (N.W.) N. 66° E., Escarcia Pt. S. 20° W.; South Pass, Verde Id. Passage

Position 12° 32' 15" N., 121° 00' 00" E

Chart used: No. 4240 Ed'n \_\_\_\_\_

Drift: Direction N. 59° W Distance 1.2 mi.

Depth of Haul bottom

Apparatus and Rig used as before

Time towing h. 19 3/4 m.

Remarks:

Navigator - hard clay, gravel

Deck Officer Mr. Hazard Recorder C.E. Kellogg

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
Q. M. Down.	Up.	Q. M.		Q. M. Down.	Up.	Q. M.
10 03 00	10 08 45		0	10 14 35	10 59 00	
10 04 15	10 07 58		100	10 17 50	10 54 20	
10 05 30	10 07 10		200	10 21 25	10 57 30	
10 05 55	10 06 55	231	300	10 24 30	10 45 00	
			400	10 26 15	10 46 00	
			500			
			600			
			700			
			800			
			900			
			1000			
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			4900			

Dredge } No. 5296 Date, July 24, 1909  
Hydrog. }  
Sdg. Mch. 2 Reel Shot/Lead lbs.  
Turns 80 Cor'n Depth 210 chart fms.  
Sdg. Cup Amt. Bot'm Sample  
Character of Bottom M.S. chart

Thermom. { Make Cor'n { Instr.  
          { No.            { Stem.  
Bottom Reading Cor'd Temp.

Temp. Surf. { 84° Time 12:35 P } Air { 84°  
              { 84° Time 1:21 P }     { 84°

Density: Surf. 1.02473 fms.

Wind: Direction W Force 0-1

Baromet. 29.72 Amt. of Clouds 4 State of Sea S

Weather bry

Direction and Force of Current { Surface  
  { Bottom

Tide

Matsucut Pt. S 63° E., 4.50 mi.

General Locality Batangas Bay Luzon

Culebra 21(W) S 28 W Casador Pt N 78 W

Position 13-40-09 N - 120-57-45 E

Chart used: No. 4540 CS Ed'n

Drift: Direction S 63 E Distance 1.2

Depth of Haul bottom

Apparatus and Rig used as before

Time towing 1 h. 20 m.

Remarks:

Deck Officer Mr Cassidy Recorder Roberts

## SOUNDING WIRE.

FMS.

## DREDGING CABLE.

M. Down. | Up. | M.

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

SOUNDING WIRE.		FMS.	DREDGING CABLE.	
M. Down.	Up.		P M. Down.	Up. P M.
		0	12 33 00	1 20 20
		100	37 10	16 30
		200	41 20	12 30
		300	45 00	09 10
		400	12 47 00	1 07 00
		500		
		600		
		700		
		800		
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		4900		

Dredge } No. 5297 Date, July 24, 1908  
Hydrog. }

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

Turns \_\_\_\_\_ Cor'n \_\_\_\_\_ Depth 198 chart fms.

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

Character of Bottom \_\_\_\_\_ M. s. "chart"

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

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

Temp. Surf. { 85° Time 1:45 P } Air { 85°  
                  { \_\_\_\_\_ Time \_\_\_\_\_ } \_\_\_\_\_

Density: Surf. 1.02477 \_\_\_\_\_ fms. \_\_\_\_\_

Wind: Direction W Force 1-2

Baromet. 29.70 Amt. of Clouds 5 State of Sea S

Weather very

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

Tide \_\_\_\_\_

Matocot Pt. S. 50° E., 5.10 mi.

General Locality Batangas Bay Luzon

Culebra Id (W) S 21 W Casador Pt S 86 W

Position 13-41-20 N-120-58-00 E

Chart used: No. 4240 CS. Ed'n \_\_\_\_\_

Drift: Direction S 69 E Distance 1.0

Depth of Haul bottom

Apparatus and Rig used as before

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

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

Deck Officer Mr Cassidy Recorder Roberts



SOUNDING WIRE.				FMS.	DREDGING CABLE.			
M. Down.	Up.	M.			M. Down.	Up.	M.	
				0	1	53 00		28 30
				100		46 30		24 10
				200		50 00		20 10
				300		53 50		16 10
				<del>400</del>	1	55 00	2	15 00
				500				
				600				
				700				
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				4100				
				4200				
				4300				
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				4500				
				4600				
				4700				
				4800				
				4900				

Dredge } No. 5298 Date, July 24, 1908  
 Hydrog. }  
 Sigs. Mch. 76 Reel Shot/Lead lbs.  
 Turns \_\_\_\_\_ Cor'n \_\_\_\_\_ Depth 140 chert fms.  
 Sigs. Cup \_\_\_\_\_ Amt. Bot'm Sample \_\_\_\_\_  
 Character of Bottom \_\_\_\_\_ S. chert  
 Thermom. { Make \_\_\_\_\_ Cor'n { Instr. \_\_\_\_\_  
 { No. \_\_\_\_\_ { Stem. \_\_\_\_\_  
 Bottom Reading \_\_\_\_\_ Cor'd Temp. \_\_\_\_\_  
 Temp. Surf. { 84° Time 3:00 P } Air { 83°  
 { 84° Time 3:30 P } { 84°  
 Density: Surf. not taken fms. \_\_\_\_\_  
 Wind: Direction W x S Force 1  
 Baromet. 29.69 Amt. of Clouds 9 State of Sea S  
 Weather bc

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

Tide Matocot Pt S 38° E., 6.70 mi.

General Locality Batangas Bay, Luzon  
Culpra Id (W) S 11 W Casador Pt 8.62 W.  
 Position 13-43-23 N - 120-57-40 E  
 Chart used: No. 4240 CS Ed'n [15]  
 Drift: Direction S 31 E Distance .5  
 Depth of Haul bottom  
 Apparatus and Rig used as before

Time towing \_\_\_\_\_ h. 10 m.  
 Remarks: Mud bag came up torn

Deck Officer Mr. Cassidy Recorder J. Roberts

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		P. M. Down.	Up.	P. M.
			0	3 00 00	3	29 00
			100	03 30		25 30
			200	06 50		22 00
			300	3 09 00	3	19 40
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
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			3800			
			3900			
			4000			
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			4700			
			4800			
			4900			

Date, 8 Aug, 1908

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

Turns 524 Cor'n — Depth 524 fms.

Sdg. Cup Sigbee Amt. Bot'm Sample no sample

Character of Bottom gy. M.S. (mud bank)

Thermom. { Make N.J. Cor'n { Instr. -.06 No. 108013 Stem. -.63

Bottom Reading 43.2° Cor'd Temp. 42.5

Temp. Surf. { 83° Time 8:20 a } Air { 85.5° 84° Time 9:34 a } 83.5°

Density: Surf. 1.02396 fms. 1.02538

Wind: Direction SW Force 3

Baromet. 29.56 Amt. of Clouds 4 State of Sea S

Weather bc

Direction and Force of Current { Surface Bottom

Tide

General Locality China Sea

190 m. from Hong Kong

Position 20-05-00 N, 116-05-00 E

Chart used: No. 798 F.O. Ed'n -

Drift: Direction Distance

Depth of Haul Bottom

Apparatus and Rig used 12' Agassiz as before

Time towing - h. 22 m.

Remarks: Wtr bottle used in sdy. - One of the three glass floats came up half full of water.

Deck Officer Mr. Hazard Recorder F. W. K. 11-1023

## SOUNDING WIRE.

FMS.

## DREDGING CABLE.

SOUNDING WIRE.		FMS.	DREDGING CABLE.	
M. Down.	Up. P. M.		P. M. Down.	Up. P. M.
8 04 00	8 15 00	0	8 20 30	9 02 30
05 00	14 15	100	23 50	07 50
06 00	13 30	200	27 00	09 00
07 00	12 50	300	29 50	15 00
08 00	12 05	400	33 00	41 00
09 10	11 10	500	36 10	36 45
8 09 30	8 10 50	600	39 30	31 40
		700	42 40	27 35
		800	46 00	23 20
		900	49 20	19 25
		1000	8 53 20	9 15 20
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
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		2800		
		2900		
		3000		
		3100		
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		3700		
		3800		
		3900		
		4000		
		4100		
		4200		
		4300		
		4400		
		4500		
		4600		
		4700		
		4800		
		4900		



SOUNDING WIRE.					FMS.	DREDGING CABLE.						
P. M. Down.		Up. P. M.				P. M. Down.		Up. P. M.				
2	04	20	2	10	40	0	2	14	20	3	07	40
2	05	20	2	09	45	100	2	18	00	3	08	40
2	06	20	2	08	55	200	2	21	25	2	59	45
2	07	00	2	08	10	<del>265</del> 300	2	24	40	2	55	45
					400		2	28	35	2	51	50
					<del>500</del> 500		2	29	15	2	49	10
					600							
					700							
					800							
					900							
					1000							
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					4000							
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					4600							
					4700							
					4800							
					4900							

Dredge } No. 5-301 Date, Aug 5, 1908  
Hydrog. }

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

Turns \_\_\_\_\_ Cor'n \_\_\_\_\_ Depth 208 fms.

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

Character of Bottom gy m. S.

Thermom. { Make N. Z. Cor'n { Instr. -14  
                  { No. 105013                    { Stem. -57

Bottom Reading 51.2° Cor'd Temp. 50.5

Temp. Surf. { 84° Time 5:15 P } Air { 85°  
                  {                    Time                    }                    {                    }

Density: Surf. 1.02433 fms. 1.02453

Wind: Direction SW Force 1

Baromet. 29.49 Amt. of Clouds 2 State of Sea 3

Weather b'f

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

Tide \_\_\_\_\_

General Locality China Sea

Position 20-37-00 N - 115-43-00 E

Chart used: No. 798 H.O. Ed'n \_\_\_\_\_

Drift: Direction ? Distance ?

Depth of Haul bottom

Apparatus and Rig used 12 Agassiz N.R., 3 glass floats, 2 trawling weights, 1 tail weight, 1 mud bag.

Time towing h. 2.0 m.

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

Deck Officer Mr. Mithers Recorder C. W. Long Robertis



SOUNDING WIRE.			FMS.	DREDGING CABLE.		
P. M. Down.	Up.	P. M.		P. M. Down.	Up.	P. M.
5-04-10	5-09-15		0	5-12-00		08-30
5-05-05	5-08-20		100	16-30		04-00
5-05-55	5-07-10		200	20-00	6-00-00	
5-06-05	5-07-05	208	300	23-00		55-50
			400	26-30		51-45
			500	5-29-00		5-49-00
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
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			3900			
			4000			
			4100			
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			4500			
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			4700			
			4800			
			4900			

Dredge } No. 5302 Date, 9 Aug, 1908  
Hydrog. }

Sdg. Mch. T. T. Reel 52 <sup>Shot</sup> Lead 20 lbs.

Turns 36 Cor'n - Depth 38 fms.

Sdg. Cup arming Amt. Bot'm Sample 1 lb. coral.

Character of Bottom sft gy JT

Thermom. { Make N. 2 Cor'n { Instr. -.26  
                  { No. 108013                    { Stem. -.19

Bottom Reading 72.5° Cor'd Temp. 72.1

Temp. Surf. { 83° Time 6:47 a } Air { 84°  
                  { 83° Time 7:07 a }       { 84°

Density: Surf. 1.02288 fms. —

Wind: Direction WSW Force 3

Baromet. 29.53 Amt. of Clouds 7 State of Sea S

Weather bc

Direction and Force of Current { Surface  
  { Bottom

Tide

General Locality China Sea

Position 21-42-00 N - 114-50-00 E.

Chart used: No. 798 H. O. Ed'n

Drift: Direction 2 Distance 2

Depth of Haul Bottom

Apparatus and Rig used AS Bepow

Time towing - h. 15 m.

Remarks:

Deck Officer J. Hazard Recorder A. A. [Signature]

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
A. M. Down.	Up.	P. M.		A. M. Down.	Up.	P. M.
6 42 00	6 43 45		0	6 46 10	6 43 00	
6 42 30	6 42 30	38	100		06 55	
			200	6 57 00	06 20	
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
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			3100			
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			3800			
			3900			
			4000			
			4100			
			4200			
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			4400			
			4500			
			4600			
			4700			
			4800			
			4900			



SOUNDING WIRE.				FMS.	DREDGING CABLE.						
A M. Down.		Up. A M.			A M. Down.		Up. A M.				
8	20	15		0	8	24	00	8	51	10	
8	20	50	8 20 30	24	100	8	37	30	8	47	10
				200							
				300							
				400							
				500							
				600							
				700							
				800							
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				4900							



$$\frac{150 \cdot 2}{1,83} = \frac{2700}{1,83} = 10 \sqrt{166} =$$

$$\frac{100 \cdot 2}{3} = \frac{200}{1,33} = \frac{2}{1,33} = \frac{20}{13}$$

$$\begin{array}{r} 14 \frac{2}{3} \\ \underline{2 \frac{3}{3}} \\ 28 \frac{1}{3} \\ \underline{\phantom{28} \frac{1}{3}} \end{array}$$