No. 7.

From D. 5346 to 5384

From H. 4923 to 4997

507

Dredge / ~~Hydrog.~~ No. 5346 Date, Dec 26, 1928

Sdg. Mch. — Reel — Shot Leads — lbs.

Turns — Cor'n — Depth 7 fms.

Sdg. Cup — Amt. Bot'm Sample —

Character of Bottom m

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

Bottom Reading — Cor'd Temp. —

Temp. Surf. 80 Time 10:15a; 80 Time 10:30a Air 81°; 81°

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

Wind: Direction NE Force 1-2

Baromet. 29.89 Amt. of Clouds 8 State of Sea S

Weather bc

Direction and Force of Current. Surface Bottom

Tide

General Locality Malampuya Sd. Palawan
Cliff D (mid.) S 36 E. Peaked D 589 W

Position 10-50-30N - 119-22-20E

Chart used: No. 4349 Ed'n

Drift: Direction S 72 E Distance 1.0

Depth of Haul bottom

Apparatus and Rig used 9' Plankton, 3 glass floats
2 wing wts, 1 tail wt.

Time towing h. 10 m.

Remarks:

Deck Officer Mr Rehang Recorder Roberto

11—1023

11—1023

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
____ M. DOWN.			UP.	____ M.			____ M. DOWN.			UP.	____ M.	
						0	10	14	30	10	35	00
						80 ~~100~~	10	18	00	10	28	20
						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						
			22-24			2700						
						2800						
						2900						
						3000						
						3100						
						3200						
						3300						
						3400						
						3500						
						3600						
						3700						
						3800						
						3900						
						4000						
						4100						
						4200						
						4300						
						4400						
						4500						
						4600						
						4700						
						4800						
						4900						

Dredge / ~~Hydrog.~~ No. 5347 Date, Dec 26, 1908

Sdg. Mch. Hand lead Reel — Shot / Lead — lbs.

Turns — Cor'n — Depth 5 - 4 3/4 fms.

Sdg. Cup — Amt. Bot'm Sample —

Character of Bottom m.

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

Bottom Reading — Cor'd Temp. —

Temp. Surf. 81 Time 10:55a Time Air 81

Density: Surf. fms.

Wind: Direction N.E. Force 2

Baromet. 29.89 Amt. of Clouds 5 State of Sea S

Weather bc

Direction and Force of Current. Surface Bottom

Tide

General Locality Malampaya Sd. Palawan

N. Cliff 2.(m.) S26E Peaked 2.(m.) S84W.

Position 10-50-44N — 119-23-09 E.

Chart used: No. 4349 Ed'n

Drift: Direction N 36 E Distance .5

Depth of Haul bottom

Apparatus and Rig used as before

Time towing h. 10 m.

Remarks:

Deck Officer Mr Rohaugh Recorder Roberts

11—1023

2

11—1023

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
---- M. DOWN.			UP.		---- M.		AM. DOWN.			UP.	AM.	
						0	10	54	40	11	12	15
						~~100~~ 50	10	58	00	11	08	05
						200						
						300						
						400						
						500						
						600						
						700						
						800						
						900						
						1000						
						1100						
						1200						
						1300						
						1400						
						1500						
						1600						
						1700						
						1800						
						1900						
						2000						
						2100						
						2200						
						2300						
						2400						
						2500						
50-40 -				23.06		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~~ Hydrog. No. 4973. Date, Dec. 27, 1908

Sdg. Mch. T.N. Reel T.N. ~~Shot~~ Sinker Lead 20 lbs.

Turns 51 Cor'n — Depth 51 fms.

Sdg. Cup arming. Amt. Bot'm Sample arming covered

Character of Bottom Co. S.

Thermom. Make / No. none used Cor'n Instr. — 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 China Sea, W. coast Palawan. Manimbulao Id (m), S41E, Tapiutan Id (N), N39E.

Position 10°57'.75" N - 119° 1' 00" E.

Chart used: No. 4716 Ed'n —

Drift: Direction Distance

Depth of Haul

Apparatus and Rig used

Time towing h. m.

Remarks:

Deck Officer Mr. Rohange Recorder Arntzen

11—1023

11—1023

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
a.	M. Down.		Up.	a.	M.		----	M. Down.		Up.	----	M.
6	32	00	6	34	05	0						
6	29	20	6	32	22	5/100						
						200						
						300						
						400						
						500						
						600						
						700						
						800						
						900						
						1000						
						1100						
						1200						
						1300						
						1400						
						1500						
						1600						
						1700						
						1800						
						1900						
						2000						
						2100						
						2200						
						2300						
						2400						
36-30			-01-06			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~~ Hydrog. No. 4924. Date, Dec. 27, 1908.

Sdg. Mch. T. N. Reel T. N. ~~Shot~~ Sinker Lead 20 lbs.

Turns 62 Cor'n — Depth 62 fms.

Sdg. Cup arming Amt. Bot'm Sample True

Character of Bottom Sandy.

Thermom. Make / No. none used. Cor'n Instr. — 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 China Sea, W. coast Palawan I.
Bolo Hd, Bruyan Id, S 28 E - Tapiutan I (N), N 48 E

Position 10°57-00 N - 118°55-75 E
55-45 80

Chart used: No. 4716 Ed'n —

Drift: Direction Distance

Depth of Haul

Apparatus and Rig used

Time towing h. m.

Remarks:

Deck Officer Mr. Robange Recorder Atwill

11—1023

11—1023

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
Fl.	M. Down.		Up.	Fl.	M.		M. Down.			Up.	M.	
7	08	50	7	11	40	0						
7	09	30	7	09	37	62 ~~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						
54	30			56	00	2700						
						2800						
						2900						
						3000						
						3100						
						3200						
						3300						
						3400						
						3500						
						3600						
						3700						
						3800						
						3900						
						4000						
						4100						
						4200						
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						4700						
						4800						
						4900						

~~Dredge~~ Hydrog. No. 4925 Date, Dec. 27, 1908.

Sdg. Mch. Lines Reel Lines Shot ~~Lead~~ 35 lbs.

Turns 184 Cor'n — Depth 184 fms.

Sdg. Cup Sigsbee Amt. Bot'm Sample about 1 oz.

Character of Bottom fine Co L.

Thermom. Make N.Z. No. 188022 Cor'n Instr. Stem.

Bottom Reading Did not work 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 China Sea, West Coast ~~Luzon~~ Palawan Bold Head Bugsgan I'd 8 44° E, Tapiutan I'd (N.) N 6-9 E.

Position 10° ~~8'~~ 15" N. 118° ~~47'~~ 15 E

Chart used: No. 4716 Ed'n

Drift: Direction — Distance —

Depth of Haul

Apparatus and Rig used

Time towing h. m.

Remarks: Water bottle used. This failed to trip.

Deck Officer Mr. Johnson Recorder C. E. Deeley

11—1023

2

11—1023

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
A.	M. DOWN.		UP.	A.	M.		M. DOWN.			UP.	M.	
8	02	35	8	08	00	0						
8	03	35	8	06	45	100						
8	04	40	8	05	60	184 ~~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						
37	11		-	48	00	2700						
						2800						
						2900						
						3000						
						3100						
						3200						
						3300						
						3400						
						3500						
						3600						
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						3900						
						4000						
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						4700						
						4800						
						4900						

Dredge / ~~Hydrog.~~ No. 5348 Date, Dec 27, 1908

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

Turns 375 Cor'n — Depth 375 fms.

Sdg. Cup Sigsbee Amt. Bot'm Sample about 1 oz.

Character of Bottom Co S.

Thermom. { Make N. Z. / No. 108022 } Cor'n { Instr. 6 / Stem. — }

Bottom Reading 37° Cor'd Temp. 56 ~~4~~

Temp. Surf. { 81° Time 9 43 / 81° Time 10 30 } Air { 82° / 81½° }

Density: Surf. 1.02432 Btm ~~fms.~~ 1.02576

Wind: Direction NE. Force 3

Baromet. 2986 Amt. of Clouds 2 State of Sea 2

Weather bc

Direction and Force of Current. { Surface / Bottom }

Tide

General Locality Olivey Sea, West coast of Luzon Palawan

Position 10° 37' 45" N. 118° 38' 15" E

Chart used: No. 4716 Ed'n

Drift: Direction N. 80° W. Distance 1.5 mi

Depth of Haul bottom

Apparatus and Rig used 12' Tanner / 80# sinker, 2 wing weights, 1 tail weight, 3 glass floats, 1 mud bag.

Time towing h. 20 m.

Remarks: Water bottle used

Deck Officer Mr Johnson Recorder C. E. Delong

11—1023

11—1023 ✓ 850 bottom ✓

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
A. M. Down.			Up.	A. M.			A. M. Down.			Up.	A. M.	
9	23	30	9	33	10	0	9	37	30	11	07	10
9	24	30	9	31	55	100	9	41	15	11	03	30
9	25	35	9	30	55	200	9	44	50	10	59	50
9	26	45	9	29	40	300	9	47	55	10	56	00
9	27	55	9	28	35	375 ~~400~~	9	51	00	10	52	05
						500	9	53	55	10	48	25
						600	9	57	00	10	44	40
						700	9	59	55	10	41	00
						800	10	02	50	10	36	50
						900	10	05	55	10	33	00
						1000	10	08	30	10	28	30
						1100						
						1200						
						1300						
						1400						
						1500						
						1600						
						1700						
						1800						
						1900						
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						3200						
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						3900						
						4000						
						4100						
						4200						
						4300						
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						4500						
						4600						
						4700						
						4800						
						4900						

20.

~~Dredge~~ Hydrog. No. 5349 Date, Dec 27, 1908

Sdg. Mch. Linear Reel Linear Shot ~~Leads~~ 35 lbs.

Turns Cor'n Depth 730 fms.

Sdg. Cup Sigsbee Amt. Bot'm Sample

Character of Bottom co. sh.

Thermom. Make N.Z. No. 108022 Cor'n Instr. .8 Stem.

Bottom Reading 41.4 Cor'd Temp. 40.6

Temp. Surf. 81 Time 1:00 a Time Air 83

Density: Surf. 1.02406 ~~fms.~~ Btm 1.02564

Wind: Direction NE Force 4

Baromet. 29.83 Amt. of Clouds 1 State of Sea 5

Weather bc

Direction and Force of Current. Surface Bottom

Tide

General Locality China Sea westward Palawan

Position 10-54-00 N - 118-36-30 E

Chart used: No. 4716 Ed'n

Drift: Direction S.80 W. Distance 1.5

Depth of Haul Bottom

Apparatus and Rig used as before

Time towing — h. 20 m.

Remarks:

Deck Officer Mr Hazard Recorder Roberts

11—1023

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
P. M. Down.			Up.	P. M.			A. M. Down.			Up.	A. M.	
12	32	45		48	25	0	12	52	00	3	00	00
	33	45		47	25	100		56	15		56	50
	35	00		46	45	200	1	00	10		52	30
	36	10		46	00	300	1	04	05		49	00
	37	20		45	10	400		07	20		45	20
	38	30		44	20	500		10	10		42	00
	39	35		43	30	600		12	50		38	35
	40	50		42	35	700		15	35		35	05
12	41	10	12	42	10	730 800		18	30		31	30
						900		21	00		27	30
						1000		23	35		23	35
						1100		26	25		19	30
						1200		29	10		15	40
						1300		31	45		11	45
						1400		34	20		08	05
						1500		36	45		04	55
						1600	1	40	00	2	00	00
						1700						
						1800						
						1900						
						2000						
						2100						
						2200						
						2300						
						2400						
						2500						
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						2700						
						2800						
						2900						
						3000						
						3100						
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						3900						
						4000						
						4100						
						4200						
						4300						
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						4500						
						4600						
						4700						
						4800						
						4900						

Dredge / ~~Hydrog.~~ No. 5350 Date, Dec 27, 1908

Sdg. Mch. Lima Reel Lima Shot / ~~Lead~~ 35 lbs.

Turns 515 Cor'n — Depth 515 fms.

Sdg. Cup Sigsbee Amt. Bot'm Sample 1 oz.

Character of Bottom Gy. M.

Thermom. Make NB. No. 108222. Cor'n Instr. — Stem. —

Bottom Reading See remarks. Cor'd Temp. —

Temp. Surf. 80° Time 4:57 p. 80° Time 5:26 p. Air 82° 82°

Density: Surf. 1.02381 ~~fms.~~ btm 1.02523

Wind: Direction NE Force 3-4

Baromet. 29.82 Amt. of Clouds 3 State of Sea S

Weather Uc

Direction and Force of Current. Surface Bottom

Tide

General Locality China Sea. W. coast Palawan No bearings, no land in sight.

Position 10°46'40" N - 118°29'00" E.

Chart used: No. 476 Ed'n —

Drift: Direction S 85° W Distance 3.0

Depth of Haul Bottom.

Apparatus and Rig used As before.

Time towing — h. 27 m.

Remarks: Water bottle used at sdg. Thermo. fouled straplines and did not trip — Towed 10 min. to 1200 for wire then reeved to 1400 — this taking 7 min. — and towed 10 min.; total 27 min towing.

Deck Officer Mr. Rohanger Recorder Struckle

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
P. M. Down.			Up. P. M.				P. M. Down.			Up. P. M.		
4	04	00	4	16	00	0	4	19	30	6	20	00
	04	50		14	50	100		23	30		16	20
	06	05		14	00	200		27	00		13	00
	07	10		13	00	300		31	00		09	20
	08	15		12	00	400		33	50		05	45
	09	30		11	00	500		37	30	6	02	00
4	09	55	4	10	50	5~~600~~		39	30		58	00
						700		42	30		54	00
						800		45	30		49	50
						900		48	00		45	40
						1000		51	10		41	20
						1100		54	20		36	45
						1200	4	57	30		32	50
						1300	5	11	00		28	30
						1400	5	14	00	5	24	30
						1500						
						1600						
						1700						
						1800						
						1900						
						2000						
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						3200						
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						3900						
						4000						
						4100						
						4200						
						4300						
						4400						
						4500						
						4600						
						4700						
						4800						
						4900						

Dredge / Hydrog. } No. No number Date, Dec 27, 1908

Sdg. Mch. Tanner Reel T. M. ~~Shot~~ Lead } 3 s. lbs.

Turns Cor'n Depth fms.

Sdg. Cup tallow in lead Amt. Bot'm Sample

Character of Bottom

Thermom. { Make / No. } Cor'n { Instr. / 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:

Deck Officer Mr Tagard Recorder C. E. DeLong.

11—1023

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
P M.			Down.	Up.	P M.		M.		Down.	Up.	M.	
8	03	40		8	07	00	0					
8	04	20		8	04	30	100					
							200					
							300					
							400					
							500					
							600					
							700					
							800					
							900					
							1000					
							1100					
							1200					
							1300					
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							3700					
							3800					
							3900					
							4000					
							4100					
							4200					
							4300					
							4400					
							4500					
							4600					
							4700					
							4800					
							4900					

No bottom at 100 fath

Dredge / ~~Hydrog.~~ No. 5351 Date, Dec 27, 1928

Sdg. Mch. Tanner Reel T.U. Shot / Lead 85 lbs.

Turns 30 Cor'n — Depth 60 fms.

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

Character of Bottom Co. S.

Thermom. Make None / No. Cor'n Instr. / Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. 80° Time 9 5-2 / 80° Time 9 5-5 Air 81° / 81°

Density: ~~Surf.~~ fms.

Wind: Direction E Force 3

Baromet. 29.86 Amt. of Clouds 3 State of Sea S

Weather lc.

Direction and Force of Current. Surface / Bottom

Tide

General Locality China Sea West Coast of ~~Luzon~~ Palawan

Position 10°-35' N 118°-36' E

Chart used: No. 4716 Ed'n —

Drift: Direction — Distance —

Depth of Haul bottom

Apparatus and Rig used 12' Tanner, 1 Sinker 80#, 2 trimming weights, 1 tail weight, 3 glass floats, 1 mudbag.

Time towing h. 2 m.

Remarks: Cumulator registered as high as 5 tons. Net & frame hanging by bridle, frame lean badly bent, and net torn to pieces

Deck Officer Mr. Hazard Recorder C. B. DeLong

11—1023

100 bottom

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
P M.	Down.		Up.	P M.			P M.	Down.		Up.	P M.	
8	42	10	8	44	00	0	8	46	30	9	03	40
8	42	30	8	42	40	~~50~~ ~~100~~ 140	8	51	00	8	57	15
						~~200~~	8	52	30	8	54	30
						300	8					
						400						
						500						
						600						
						700						
						800						
						900						
						1000						
						1100						
						1200						
						1300						
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						4700						
						4800						
						4900						

Dredge / ~~Hydrog.~~ No. 5352 Date, Oct 30, 1928

Sdg. Mch. hand lead Reel — Shot Leads — lbs.

Turns — Cor'n — Depth 25 fms.

Sdg. Cup — Amt. Bot'm Sample —

Character of Bottom m

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

Bottom Reading — Cor'd Temp. —

Temp. Surf. 81° Time 6:20 a. 81 Time 6:40 a. Air 80° 81

~~Density: Surf.~~ fms.

Wind: Direction NE. Force 2-3

Baromet. 29.83 Amt. of Clouds 4 State of Sea S

Weather Hazy

Direction and Force of Current. Surface Bottom

Tide

General Locality Uligan Bay

side Pole Pt Rid 2d S84W Observatory Rock Rid 2d

Position 10-04-30 N - 119-05-00 E

Chart used: No. 4346 S Ed'n

Drift: Direction NNE Distance .9

Depth of Haul intermediate

Apparatus and Rig used 6' intermediate 180# sinker

Time towing h. 20 m.

Remarks: Depth of travel 24 fms. 40 fms wire out.

Deck Officer Mr Rohanga Recorder Roberts

11—1023

11—1023

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
---- M.	Down.		Up.		---- M.		a M.	Down.		Up.	a M.	
						0	6	15	45	6	40	05
						~~100~~ 40	6	18	00	6	38	00
						200						
						300						
						400						
						500						
						600						
						700						
						800						
						900						
						1000						
						1100						
						1200						
						1300						
						1400						
						1500						
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						1700						
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						2700						
						2800						
						2900						
						3000						
						3100						
						3200						
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						3500						
						3600						
						3700						
						3800						
						3900						
						4000						
						4100						
						4200						
						4300						
						4400						
						4500						
						4600						
						4700						
						4800						
						4900						

Dredge / ~~Hydrog.~~ No. 5353 Date, Jan. 1st, 1909.

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

Turns 148 Cor'n — Depth 148 fms.

Sdg. Cup Sigsbee Amt. Bot'm Sample — ×)

Character of Bottom ×)

Thermom. Make / No. none used Cor'n Instr. — Stem. —

Bottom Reading Cor'd Temp. —

Temp. Surf. 80° Time 7:00a / 80° Time 8:00a Air 75° / 75°

~~Density: Surf. — fms. —~~

Wind: Direction SW Force 4-5

Baromet. 29.85 Amt. of Clouds 10 State of Sea C

Weather Ovf.

Direction and Force of Current. Surface / Bottom

Tide

General Locality China Sea, SW coast Palawan Id. (Balabac Strait, West.)

Position 7°50'45" N. 116°43'15" E. (Approx)

Chart used: No. 4309 Ed'n —

Drift: Direction SE Distance

Depth of Haul Bottom.

Apparatus and Rig used 9' Tanner and usual accessories.

Time towing — h. 34 m.

Remarks: ×) When commenced to haul in wire carried away. Lost 148 fms. wire, Sigsbee sdg. cup, stray line and stray lead and, of course, 35-lb. shot.

Deck Officer Mr. Johnson Recorder Smith

11—1023

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
a M.	Down.		Up.	a M.			a M.	Down.		Up.	a M.	
6.	30	00				0	6	57	00		56	05
	31	00				100	7	06	20		53	10
6.	32	30	6	34	40	148 200		03	40		49	50
						300		06	45		46	40
						400		09	50		44	00
						500						
						600						
						700						
						800						
						900						
						1000						
						1100						
						1200						
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						3000						
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						4000						
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						4200						
						4300						
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						4500						
						4600						
						4700						
						4800						
						4900						

Dredge / Hydrog. No. 5354 Date, Jan 1, 1909.

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

Turns 120 Cor'n -3 Depth 117 fms.

Sdg. Cup tallow filled Amt. Bot'm Sample glauc sil

Character of Bottom m.

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

Bottom Reading Cor'd Temp.

Temp. Surf. 80° Time 9 20 Air 75°
80° Time 10 18 75°

Density: Surf. fms.

Wind: Direction Variable Force 3

Baromet. 29.91 Amt. of Clouds Overcast State of Sea 2

Weather Unknown

Direction and Force of Current. Surface
Bottom

Tide

General Locality Balabac Strait, Great

Lat & Long approx.

Position 7° 47' 5" N. 116° 43' 15" E.

Chart used: No. 4309 Ed'n

Drift: Direction S.E. Distance —

Depth of Haul bottom

Apparatus and Rig used 9' Tanner, 80# sinker, 2 trimming weights, 3 glass floats, mud bag

Time towing h. 2 5 m.

Remarks:

Deck Officer Mr Hagard Recorder C.E. DeLong

11—1023

11—1023

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
H.	M. Down.		Up.	H.	M.		H.	M. Down.		Up.	H.	M.
8	31	30	8	36	10	0	8	42	20	9	30	50
	32	00		34	00	100	8	47	15	9	27	30
8	32	30	8	32	40	120 200	8	51	00	9	24	20
						300	8	54	40	9	20	45
						300 400	8	54	55	9	19	55
						500						
						600						
						700						
						800						
						900						
						1000						
						1100						
						1200						
						1300						
						1400						
						1500						
						1600						
						1700						
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						1900						
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						4000						
						4100						
						4200						
						4300						
						4400						
						4500						
						4600						
						4700						
						4800						
						4900						

Dredge / ~~Hydrog.~~ No. 5355 Date, June 5, 1908

Sdg. Mch. Trusses Reel 7N ~~Shot~~ / Lead 35 lbs.

Turns 14 Cor'n Depth 41 fms.

Sdg. Cup Arming Amt. Bot'm Sample about 1 oz

Character of Bottom ~~coos~~ bo S

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

Bottom Reading — Cor'd Temp. —

Temp. Surf. 82° Time 9:45 a 82° Time 10:15 a Air 82° 82°

Density: Surf. 1.02518 ~~fms.~~

Wind: Direction Calm Force 0

Baromet. 29.87 Amt. of Clouds 3 State of Sea 5

Weather bc

Direction and Force of Current. Surface Bottom

Tide

General Locality Sulu Sea North Channel.
Brook Id (SE) N.26E also Id W. N 31W.

Position 8-08-10N-117-19-15E

Chart used: No. 4309 Ed'n

Drift: Direction S 14 W Distance 1.6

Depth of Haul bottom

Apparatus and Rig used 6' McCormick 180# wt.

Time towing h. 17 m.

Remarks: Towing 100 fms. for 4 mis.

Deck Officer Mr Johnson Recorder Roberts

11—1023

11—1023

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
A. M. Down.			Up.		A. M.		A. M. Down.			Up.	A. M.	
9	39	00	9	40	30	0	9	42	30	10	12	20
9	39	30	9	39	35	44 100	9	47	00	10	08	00
						~~200~~ 125	9	52	00	10	06	25
						300						
						400						
						500						
						600						
						700						
						800						
						900						
						1000						
						1100						
						1200						
						1300						
						1400						
						1500						
						1600						
						1700						
						1800						
						1900						
						2000						
						2100						
						2200						
						2300						
						2400						
						2500						
						2600						
08.75						2700						
						2800						
						2900						
						3000						
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						4000						
						4100						
						4200						
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						4500						
						4600						
						4700						
						4800						
						4900						

Dredge / ~~Hydrog.~~ No. 5356 Date, June 5, 1908

Sdg. Mch. Tanner Reel JN ~~Shot~~ / Lead 35 lbs.

Turns 58 Cor'n Depth 58 fms.

Sdg. Cup Arming Amt. Bot'm Sample 2 oz.

Character of Bottom Marsh

Thermom. { Make — / No. — } Cor'n { Instr. — / Stem. — }

Bottom Reading — Cor'd Temp. —

Temp. Surf. { 87 Time 10:20 a / 87° Time 11:00 } Air { 85° / 85° }

Density: Surf. fms.

Wind: Direction Calm Force 0

Baromet. 29.85 Amt. of Clouds 1 State of Sea S

Weather bcf

Direction and Force of Current. { Surface / Bottom }

Tide

General Locality Sulu Sea North Channel.

Bearings 3d (SE) N 24 E By an 3d. E N 54 W

Position 8-6-40 N - 117-18-45 E

Chart used: No. 4309 Ed'n

Drift: Direction S 50 W Distance ~~1.8~~ 1.3

Depth of Haul Bottom

Apparatus and Rig used as before with 3 glass Inlets.

Time towing h. 16 m.

Remarks:

Deck Officer Mr Johnson Recorder Roberto

11—1023

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
A M. Down.			Up.	A M.			A M. Down.			Up.	A M.	
10	19	50	10	21	40	0	10	28	30	11	00	30
10	20	30	10	20	40	58 100		33	45		55	40
						186 ~~200~~	10	36	00	10	52	00
						300						
						400						
						500						
						600						
						700						
						800						
						900						
						1000						
						1100						
						1200						
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						1600						
						1700						
						1800						
						1900						
						2000						
						2100						
						2200						
						2300						
						2400						
						2500						
6	38					2600						
						2700						
						2800						
						2900						
						3000						
						3100						
						3200						
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						3900						
						4000						
						4100						
						4200						
						4300						
						4400						
						4500						
						4600						
						4700						
						4800						
						4900						

Dredge / Hydrog. No. 5357 Date, Jan 5, 1908

Sdg. Mch. Tanner Reel JN Shot / Lead 35 lbs.

Turns 68 Cor'n Depth 68 fms.

Sdg. Cup Arming Amt. Bot'm Sample 20 g.

Character of Bottom Coa. Co. S

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

Bottom Reading — Cor'd Temp. —

Temp. Surf. 82 Time 11:15 a 85° Air
82 Time 11 40 a 85°

Density: Surf. fms.

Wind: Direction Calm Force 0

Baromet. 29.85 Amt. of Clouds ✓ State of Sea 0

Weather bcf.

Direction and Force of Current. Surface Bottom

Tide

General Locality Sulu Sea, North Channel, Bisuk Id (S.E.) N 29 E Byan Id E. N 42 W.

Position 8-6-00 N - 117-17-30 E

Chart used: No. 4309 Ed'n

Drift: Direction N 45 E Distance .6

Depth of Haul Bottom

Apparatus and Rig used 9 Tanner 3 glass balls
m bag 180# cable wt 2 wing wts 1 Tail wt

Time towing h. 1 m.

Remarks: 1 Bridle stopes carried away
not tow

Deck Officer Mr Johnson Recorder Roberts

11—1023

SOUNDING WIRE.						FMS..	DREDGING CABLE.					
a M. Down.			Up.	a M.			---- M. Down.			Up.	---- M.	
11	12	20	11	14	50	0	11	15	30	11	38	00
11	13	00	11	13	15	68 100	11	20	20	11	33	00
						200	11	25	45		29	10
						~~300~~ 220	11	27	00	11	27	35
						400						
						500						
						600						
						700						
						800						
						900						
						1000						
						1100						
						1200						
						1300						
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						1600						
						1700						
						1800						
						1900						
						2000						
						2100						
						2200						
						2300						
						2400						
						2500						
						2600						
			17	37		2700						
						2800						
						2900						
						3000						
						3100						
						3200						
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						4100						
						4200						
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						4400						
						4500						
						4600						
						4700						
						4800						
						4900						

Dredge / ~~Hydrog.~~ No. 5359 Date, 7 Jan, 1909

Sdg. Mch. T. N. Reel T N Shot / Sinker / Lead 20 lbs.

Turns 39 Cor'n — Depth 39 fms.

Sdg. Cup brass Amt. Bot'm Sample land covered

Character of Bottom muddy.

Thermom. Make / No. [illegible] used Cor'n Instr. — Stem. —

Bottom Reading Cor'd Temp. —

Temp. Surf. 82° Time 7:30 p.m. / 82° Time 7:30 p.m. Air 80° / 80°

Density: Surf. fms.

Wind: Direction Force 0-1

Baromet. 29.82 Amt. of Clouds 9 State of Sea S.

Weather Fr

Direction and Force of Current. Surface / Bottom

Tide

General Locality Sulu Sea, North Channel Taganak Id (S) S13E, Baguan Id (N) East.

Position 6° 06' 40" N - 118° 18' 15" E

Chart used: No. 4720 Ed'n —

Drift: Direction N56° E Distance 0.7 m.

Depth of Haul Bottom.

Apparatus and Rig used 12' Agassiz, 2 wing vts., 1 tail vt., 3 glass floats, New Bag

Time towing — h. 14 m.

Remarks: Refid No 2 towing along side for 14 min.

Deck Officer Wm. Rohrer Recorder [illegible]

11—1023

11—1023

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
0 M. Down.			Up. 0 M.				0 M. Down.			Up. 0 M.		
7	19	55	7	20	55	0	7	24	00	7	50	10
7	20	15	7	20	20	39 100		27	00			
						200	7	29	15	7	41	00
						300						
						400						
						500						
						600						
						700						
						800						
						900						
						1000						
						1100						
						1200						
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						3900						
						4000						
						4100						
						4200						
						4300						
						4400						
						4500						
						4600						
						4700						
						4800						
						4900						

~~Dredge~~ Hydrog. No. 4926 Date, Jan 9, 1909

Sdg. Mch. Lucas Reel Lucas Shot ~~Lead~~ 60 lbs.

Turns 460 Cor'n — Depth 460 fms.

Sdg. Cup Ligabee Amt. Bot'm Sample —

Character of Bottom —

Thermom. Make N.Z. Cor'n Instr.

No. 108022 Stem.

Bottom Reading See remarks 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 Sulu Sea

Position 7-39-08 N 120-4-45 E

Chart used: No. 4921 Ed'n

Drift: Direction — Distance —

Depth of Haul

Apparatus and Rig used

Time towing h. m.

Remarks: Wire carried away while at bottom, breaking stray line. Lost thermometer, stray lead, water bottle, + sounding cup.

Deck Officer Mr. Johnson Recorder C. E. Dowling

11—1023

11—1023

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
a M. Down.			Up.	a M.			____ M. Down.			Up.	____ M.	
6	06	10	6	17	00	0						
6	07	40	6	16	00	100						
6	08	40	6	15	10	200						
6	09	40	6	14	15	300						
6	10	40	6	13	20	400						
6	11	20	6	12	30	460 ~~500~~						
						600						
						700						
						800						
						900						
						1000						
						1100						
						1200						
						1300						
						1400						
						1500						
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						3900						
						4000						
						4100						
						4200						
						4300						
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						4500						
						4600						
						4700						
						4800						
						4900						

Dredge / ~~Hydrog.~~ No. 5359 Date, June 9, 1939

Sdg. Mch. Lucas Reel Lucas Shot / ~~Lead~~ 60 lbs.

Turns 2275 Cor'n — Depth 2275 fms.

Sdg. Cup Sigsbee Amt. Bot'm Sample

Character of Bottom

Thermom. Make N.G. No. 108019 Cor'n Instr. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. 82° Time 1:35 / 82° Time 5:37 p. Air 83° / 82.5°

Density: Surf. fms.

Wind: Direction N.E. Force 3

Baromet. 29.87 Amt. of Clouds 4 State of Sea 2

Weather fog

Direction and Force of Current. Surface Bottom

Tide

General Locality Luzon Sea, Middle

Position 8-12-45 N — 120-37-15 E.

Chart used: No. 4751 Ed'n

Drift: Direction WNW Distance 3

Depth of Haul Bottom (OK)

Apparatus and Rig used 12' Blake, 250# sinker, 1 mud bag, 1 tail weight, 3 glass floats

Time towing h. 21 m.

Remarks: Wire parted about 1 fath. above stray line in sounding. Kinks in wire where broken. Thermometer, water bottle, stray line + lead, and sounding cup lost. — Ceased reading in dredge rope ht. 2100 and 2000 fms. for about 6 mins., in order 5 wash and through nots

Deck Officer Mr. Rohanger / Mr Johnson / Mr Hazard Recorder C.E.W. Long / Roberts

11—1023

11—1023

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
P. M. Down.			Up.	P. M.			P. M. Down.			Up.	P. M.	
12	24	00	1	15	55	0	1	22	20	7	15	30
12	25	30	1	15	00	100	1	27	10		11	00
12	26	45	1	14	20	200	1	31	20		07	00
12	28	00	1	13	30	300	1	35	00	7	02	45
12	29	00	1	12	45	400	1	38	10		58	45
12	30	00	1	11	55	500	1	41	10		54	55
12	31	05	1	11	00	600	1	44	35		51	05
12	32	25	1	10	05	700	1	47	40		47	00
12	33	45	1	09	05	800	1	49	55		43	00
12	34	50	1	08	05	900	1	52	30		39	20
12	36	05	1	07	05	1000	1	55	40		36	00
12	37	20	1	06	00	1100	1	58	30		32	15
12	38	30	1	05	00	1200	2	01	30		27	45
12	39	40	1	03	50	1300	2	04	20		23	35
12	40	50	1	02	45	1400	2	07	10		19	10
12	42	10	1	01	40	1500	2	10	10		14	35
12	43	25	1	00	50	1600	2	12	50		09	55
12	44	45	12	59	50	1700	2	15	30		05	10
12	46	10	12	58	55	1800	2	19	45	6	00	00
12	47	30	12	58	00	1900	2	22	35		54	20
12	48	50	12	57	00	2000	2	27	10		48	30
12	50	10	12	56	00	2100	2	30	35		36	20
12	51	30	12	55	00	2200	2	34	20		30	30
12	52	35	12	53	45	~~2300~~ 2250	2	38	00		25	55
	48					2400	2	42	00		19	05
	28			22		2500	2	46	50		13	00
						2600	2	50	30	5	07	45
						2700	2	54	30		59	10
						2800	2	58	40		49	45
						2900	3	02	30		41	35
						3000	3	06	55		34	50
						3100	3	11	15		28	00
						3200	3	15	05		21	05
						3300	3	18	50		10	40
						3400	3	23	00	4	04	00
						3500	3	27	00	3	58	15
						3600	3	31	00	3	52	00
						3700						
						3800						
						3900						
						4000						
						4100						
						4200						
						4300						
						4400						
						4500						
						4600						
						4700						
						4800						
						4900						

Not counted as Station

Dredge / ~~Hydrog.~~ No. ..... Date, Feby 18, 1909

Sdg. Mch. — Reel — Shot / Lead — lbs.

Turns — Cor'n — Depth by Cht. 35 fms.

Sdg. Cup — Amt. Bot'm Sample —

Character of Bottom No Sdg.

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

Bottom Reading — Cor'd Temp. —

Temp. Surf. 80° Time 7:20 p. / 80° Time 7:50 p. Air 80° / 80.5°

Density: Surf. ..... fms.

Wind: Direction N-E Force 4

Baromet. 29.87 Amt. of Clouds ..... State of Sea S.

Weather Dry.

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

Tide .....

General Locality .....

Position .....

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

Drift: Direction ..... Distance .....

Depth of Haul about 75 fms.

Apparatus and Rig used Inter. Otter Trawl

Time towing — h. 20 m.

Remarks: Net came up foul.

Deck Officer Mr. Johnson Recorder [illegible]

11—1023

SOUNDING WIRE.					FMS.	DREDGING CABLE.					
___ M.	Down.	Up.	___ M.			___ M.	Down.		Up.	___ M.	
					0	2	15	00	2	49	30
					100	2	17	20	2	27	50
					200						
					300						
					400						
					500						
					600						
					700						
					800						
					900						
					1000						
					1100						
					1200						
					1300						
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					4200						
					4300						
					4400						
					4500						
					4600						
					4700						
					4800						
					4900						

Not counted as Station -

Dredge / ~~Hydrog~~ No. ..... Date, Feb 7, 19 09

Sdg. Mch. ..... Reel ..... Shot / Leads ..... lbs.

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

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

Character of Bottom .....

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

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

Temp. Surf. { 78° Time 2:15 / 78° Time 2.5 } Air { 82° / 82° }

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

Wind: Direction N.E. Force 3

Baromet. 29.97 Amt. of Clouds 1 State of Sea 2

Weather Lea.

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

Tide .....

General Locality .....

Position .....

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

Drift: Direction ..... Distance .....

Depth of Haul From surface to about 20 fathoms

Apparatus and Rig used Intermediate Otter Trawl

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

Remarks: At 2^h^5^m^ one strand of wire got out of gin. Stopped towing to replace same. Began towing again at 2.47

Deck Officer Mr. Robange Recorder C. E. Bolong

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
___ M.		Down.	Up.		___ M.		P M.	Down.		Up.	P M.	
						0	2	13	00	2	53	00
						7 ~~100~~	2	13	40	~~2~~		
						35 ~~200~~	2	47	00	2	50	20
						300						
						400						
						500						
						600						
						700						
						800						
						900						
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						4800						
						4900						

Dredge / Hydrog. No. 5360 Date, ~~January~~ Feb. 8, 1909

Sdg. Mch. — Reel Inboard Shot / Lead 12 lbs.

Turns — Cor'n — Depth 12 fms.

Sdg. Cup — Amt. Bot'm Sample

Character of Bottom Hard

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

Bottom Reading — Cor'd Temp.

Temp. Surf. 77 Time 630 / 78 Time — Air 77 / 77

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

Wind: Direction East Force 3

Baromet. 30.01 Amt. of Clouds 0 State of Sea 5

Weather b

Direction and Force of Current. Surface — Bottom

Tide

General Locality South chan. Manila Bay

Position Corregidor 2 845 W Corregidor Lt. N 68 W 14-21-N-120-41-00 E

Chart used: No. 4240 Ed'n

Drift: Direction N 48 E Distance 1.3

Depth of Haul bottom

Apparatus and Rig used 25' trawl

Time towing 1 h. — m.

Remarks: towing 53 minutes with 60 fms. of wire out.

Deck Officer Mr Hazard Recorder Roberts

11—1023

11—1023

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
___ M. DOWN.			UP.		___ M.		P___ M. DOWN.			UP.	P___ M.	
						0	6	26	30	7	35	45
						100		31	00			
						~~200~~ 100	7	25	20	7	31	30
						300						
						400						
						500						
						600						
						700						
						800						
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						1000						
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14-20 –						2600						
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						4800						
						4900						

Dredge / ~~Hydrog.~~ No. 5361 Date, Feb 8–9, 19 09

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

Turns ..... Cor'n ..... Depth Tryght 17 fms.

Sdg. Cup No Sounding Amt. Bot'm Sample .....

Character of Bottom .....

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

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

Temp. Surf. { 78° Time 8:50 p. / Time ..... } Air { 76° }

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

Wind: Direction East Force 3

Baromet. 30.01 Amt. of Clouds 1 State of Sea S.

Weather Clear

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

Tide .....

General Locality S. channel Manila Bay / Caballo I. S 25° W

Position 14-24-15 N 120-41-30 E

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

Drift: Direction N 29 E Distance 12 mi.

Depth of Haul Bottom

Apparatus and Rig used 25' Agassiz trawl.

Time towing 9 h. 8 m.

Remarks: Trawl was towing from 8:47 p.m., Feb. 8 until 5:55 a.m., Feb. 9.

Deck Officer Mr. Rohanger Recorder Frontil

11—1023

11—1023

Feb 8 | Feb 9.

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
___ M. Down.			Up.		___ M.		___ M. Down.			Up.		___ M.
						0	8	40	20	6	00	05
						100	8	41	30	5	55	06
						200						
						300						
						400						
						500						
						600						
						700						
						800						
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Dredge / ~~Hydrog.~~ No. 5362 Date, Feb 19, 1909

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

Turns ..... Cor'n ..... Depth 125 fms.

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

Character of Bottom Sandy

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

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

Temp. Surf. { 80° Time 3 54 / 80° Time 4 09 } Air { 85° / 85° }

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

Wind: Direction Various Force 1-2

Baromet. 29.87 Amt. of Clouds 7 State of Sea S

Weather Sc.

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

Tide .....

General Locality China Sea

Fortune I (W) N 16 W Sandiego Pt N 59 E

Position 13-58-20 N 120-30-30 E

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

Drift: Direction N 58 W Distance 1.0

Depth of Haul Surface to 60 fathoms

Apparatus and Rig used Intermediate Otter Trawl

835 E

Time towing ..... h. 12 m.

Remarks:

Deck Officer Mr. Johnson Recorder C. E. Darling

11—1023

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
___ M. Down.			Up.	___ M.			2 M. Down.			Up.	2 M.	
						0	3	50	50	4	13	20
						85 ~~100~~	3	55	30			
						100 ~~200~~	3	57	20	4	07	10
						300						
						400						
						500						
						600						
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Dredge / ~~Hydrog.~~ No. 5363 Date, Feby 20, 1909

Sdg. Mch. — Reel — Shot / Lead — lbs.

Turns — Cor'n — Depth 180 chart. fms.

Sdg. Cup — Amt. Bot'm Sample —

Character of Bottom Mud

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

Bottom Reading — Cor'd Temp. —

Temp. Surf. 78 Time 9 a.m. / 79° Time 10 45 Air 79 / 82°

~~Density: Surf.~~ fms.

Wind: Direction SE Force 2

Baromet. 29.96 Amt. of Clouds 4 State of Sea S

Weather hazy

Direction and Force of Current. Surface / Bottom

Tide

General Locality Balayan Bay Luzon

Cp Santiago Pt S75W San Pedrino Pt N5W

Position 13-47-20N-120-43-30E

Chart used: No. 4240 Ed'n

Drift: Direction N25E Distance 3.0

Depth of Haul bottom

Apparatus and Rig used 25' Agassiz trawl

2 wing 10's, 1 tail 11 1½ glass balls

Time towing 1 h. 15½ m.

Remarks:

Deck Officer M Johnson Recorder M. C. Roberts

(Q. Long relief)

11—1023

11—1023 ✓ within 300 fms ✓

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
---- M.	DOWN.		UP.		---- M.		a M.	DOWN.		UP.	a M.	
						0	8	58	10	10	57	30
						100	9	10	35	10	53	45
						200	9	16	25	10	50	10
						300		22	40	10	46	50
						400	9	27	00	10	42	30
						500						
						600						
						700						
						800						
						900						
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Dredge / ~~Hydrog.~~ No. 5364 Date, Feb. 20, 1909

Sdg. Mch. — Reel — Shot / Lead — lbs.

Turns — Cor'n — Depth by Cht. 160 fms.

Sdg. Cup — Amt. Bot'm Sample

Character of Bottom U.S. by chart.

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

Bottom Reading — Cor'd Temp. —

Temp. Surf. 81° Time 2:00 p. / 81° Time 3:00 p. Air 86° / 83°

~~Density: Surf.~~ — fms.

Wind: Direction ESE Force 1

Baromet. 29.89 Amt. of Clouds 4 State of Sea S

Weather

Direction and Force of Current. Surface / Bottom

Tide

General Locality Balayan Bay, Luzon, P.I.
Cape Santiago Pt. S63W - San Pedro Pt. N76W

Position 13°48'30"N - 120°43'45"E

Chart used: No. 4242 Ed'n —

Drift: Direction N 43° E Distance 2.8 m.

Depth of Haul Bottom

Apparatus and Rig used 75' Agassiz Trawl, with accessories as recorded for previous sta.

Time towing — h. 43 m.

Remarks: Towed 29 min to 450 fms.; then let out to 500 fms. and towed 13 min. total towing = 43 min. — Bridle stops coming away.

Deck Officer Mr. Hazard Recorder [illegible]

11—1023

11—1023

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
---- M. DOWN.			UP.		---- M.		---- M. DOWN.			UP.	---- M.	
						0	1	57	00	3	15	30
						100		56	25		10	20
						200	2	00	30		06	00
						300		04	30	3	01	40
						400		08	45		58	00
						450 ~~500~~	2	10	30			
						500 ~~600~~	2	40	00	2	53	30
						700						
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Dredge / ~~Hydrog.~~ No. 5365 Date, Feb 22, 1909

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

Turns No Cor'n ____ Depth 214 to 200 fms.

Sdg. Cup ____ Amt. Bot'm Sample ____

Character of Bottom Sounding

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

Bottom Reading ____ Cor'd Temp. ____

Temp. Surf. 80° Time ____ Time ____ Air 80°

~~Density: Surf.~~ ____ fms.

Wind: Direction E Force 3

Baromet. 29.95 Amt. of Clouds 3 State of Sea ____

Weather Sc

Direction and Force of Current. Surface ____ Bottom ____

Tide ____

General Locality Balayan Bay Luzon
Ligo Pt N 60 E Sombrero 8 586

Position 13-44-24 N 120-45-30 E

Chart used: No. 4240 Ed'n ____

Drift: Direction N 10 W Distance 3.8

Depth of Haul bottom

Apparatus and Rig used 25' Agassiz 10 glass floats, 2 wing weights, 1 tail weight.

Time towing h. 36 m.

Remarks: Drum slipping, cause of heaving in slow.
Nut Knob loose from bridle & came up hanging to lines at sides of frame

Deck Officer Mr. Rohange Recorder C. H. Long

11—1023

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
---- M. Down.			Up.		---- M.		a M. Down.			Up.	a M.	
						0	8	09	20	10	08	15
						100	8	14	20	9	59	40
						200	8	20	20	9	51	00
						300	8	25	10	9	41	50
						400	8	29	25	9	29	05
Towed 32 min at						500	8	32	50	9	17	35
5 00 (and between 5 00						600	9	04	00	9	08	30
& 6 00 fathe) and						700						
4½ min at 600						800						
fath.						900						
						1000						
						1100						
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N.H.

Dredge / ~~Hydrog.~~ No. 5366 Date, Feb 22, 1909

Sdg. Mch. Reel Shot / Lead short lbs.

Turns Cor'n Depth 240 fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom m S ~~co~~ b

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

Bottom Reading Cor'd Temp.

Temp. Surf. 79° Time 1.40 P / 80 Time 2.40 P Air 80° / 80

Density: Surf. fms.

Wind: Direction S.E. Force 2

Baromet. 29.89 Amt. of Clouds 3 State of Sea 6

Weather fog

Direction and Force of Current. Surface / Bottom

Tide

General Locality Batangas Bay Luzon

Cazador Pt. N69W Culebra 2 (E) S52W

Position 13-39- N-120-58-30 E

Chart used: No. 4240 CS Ed'n

Drift: Direction N6E Distance 2.5

Depth of Haul surface 120 fms to 150 fms.

Apparatus and Rig used 2 Otter trawl

Time towing h. 20 m.

Remarks:

Deck Officer Mr Johnson Recorder Roberts

11—1023

11—1023

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
---- M. DOWN.			UP.	---- M.			P---- M. DOWN.			UP.	P---- M.	
						0	1	25	20	2	39	30
						100		32	20		33	30
						200		35	20		29	00
						300		38	00	2	24	10
						400	1	40	00	2	00	00
						500						
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						4900						

Dredge / ~~Hydrog.~~ No. 5367 Date, Feby 22, 1909

Sdg. Mch. — Reel — Shot / Lead — lbs.

Turns — Cor'n — Depth 180 by cht. fms.

Sdg. Cup N — Amt. Bot'm Sample —

Character of Bottom S., by cht.

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

Bottom Reading — Cor'd Temp. —

Temp. Surf. 80° Time 5:00 p. / 80° Time 5:27 p. Air 83° / 82°

Density: Surf. — — fms. —

Wind: Direction SE Force 3

Baromet. 29.88 Amt. of Clouds 7 State of Sea S

Weather bcy

Direction and Force of Current. Surface / Bottom

Tide

General Locality Verde Id. Passage

Verde Id. (NW) S 87 W - Verde Id. (SE) S 35° W

Position 13°34'37" N - 121°07'30" E.

Chart used: No. CS 4740 Ed'n —

Drift: Direction N 63° E Distance .9 mile

Depth of Haul Bottom.

Apparatus and Rig used 75' Agassiz Trawl, 2 wing wts., 1 tail wt., 22 glass floats

Time towing — h. 26 m.

Remarks: Trawled to 400 fms wire for 9 min. and to 500 fms for 17 min.; total trawling 26 min. — One bridle stop carried away; lower wooden beam broken; iron frame twisted and broken — Washington's birthday! Oh!

Deck Officer Mr. Hazard Recorder Frutil

11—1023

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
---- M.	Down.		Up.	---- M.			P.	M. Down.		Up.	P.	M.
						0	4	38	00	5	54	15
						100		43	45		4)	50
						200		51	20		41	00
						300		56	25		35	30
						400	5	00	30		31	30
						500	5	09	30	5	26	30
						600						
						700						
						800						
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Dredge / ~~Hydrog~~ No. 5368 Date, Feb. 23, 1909

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

Turns 181 Cor'n — Depth 181 fms.

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

Character of Bottom ~~gm M~~ gy M

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

Bottom Reading Cor'd Temp.

Temp. Surf. 82° Time 2:18 / 82° Time 3:15 Air 87° / 87°

Density: Surf. — fms.

Wind: Direction Various Force 0 to 2

Baromet. 29.90 Amt. of Clouds 7 to 9 State of Sea S

Weather Clear

Direction and Force of Current. Surface / Bottom

Tide

General Locality Bet Tayabas Bay + Maindugue Pt Datimeana S 66° E Pt Sn Andres S 71° E

Position 13-35-30 N 121-48-40 E

Chart used: No. 4714 Ed'n

Drift: Direction N 22 W Distance 6.0

Depth of Haul bottom

Apparatus and Rig used 12' Agassiz N.R., 2 wing weights, 1 tail weight, 4 glass floats 1 mud bag.

Time towing h. 37 m.

Remarks: Net came up with one side of bridle loose from frame.

Deck Officer Mr. Johnson Recorder C. E. Perlong

11—1023

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
P.M. Down.			Up.	P.M.			P.M. Down.			Up.	P.M.	
2	05	45	2	12	15	0	2	17	50	3	29	05
2	07	15	2	10	50	100	2	21	20	3	25	45
2	08	25	2	09	35	181 ~~200~~	2	25	55	3	22	20
						300	2	29	20	3	18	50
						400	2	32	01	3	15	20
						479 ~~500~~	2	34	20			
						500 ~~600~~	2	44	30	3	11	15
						700						
						800						
						900						
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						2200						
						2300						
						2400						
						2500						
						2600						
35	20			48	10	2700						
						2800						
						2900						
						3000						
						3100						
						3200						
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						3600						
						3700						
						3800						
						3900						
						4000						
						4100						
						4200						
						4300						
						4400						
						4500						
						4600						
						4700						
						4800						
						4900						

Dredge / ~~Hydrog.~~ No. 5369 Date, Feb 3d, 1909

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

Turns 106 Cor'n Depth 106 fms.

Sdg. Cup arming Amt. Bot'm Sample

Character of Bottom ~~Rs~~ Bk S

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

Bottom Reading — Cor'd Temp. —

Temp. Surf. 79 Time 810 a 79 Time 850 a Air 80 80

Density: Surf. fms.

Wind: Direction East Force 2

Baromet. 29.97 Amt. of Clouds 5 State of Sea 8.

Weather bcy.

Direction and Force of Current. Surface Bottom

Tide

General Locality Tayabas Bay Luzon

Pagbilao 2(W) N9E Pagbilao 3(E) N42E

Position 13-48-00N-121-43-00E

Chart used: No. 4267 Ed'n

Drift: Direction S9W Distance 1.7

Depth of Haul bottom

Apparatus and Rig used 12' Agassiz 4 floats

wing wts, tow wt m bag

Time towing h. 70 m.

Remarks:

Deck Officer Mr. Hazard Recorder Roberts

11—1023

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
a M. Down.			Up.	a M.			a M. Down.			Up.	a M.	
8	02	50	8	07	20	0	8	07	50	8	50	30
	03	30		04	10	100		12	20		46	20
8	03	40	8	04	00	106 200		16	20		42	30
						300		18	00			
						380 400	8	29	30	8	38	00
						500						
						600						
						700						
						800						
						900						
						1000						
						1100						
						1200						
						1300						
						1400						
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						4200						
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						4700						
						4800						
						4900						

Dredge / ~~Hydrog.~~ No. 5370 Date, Feb 24, 1909

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

Turns ____ Cor'n ____ Depth 159 fms.

Sdg. Cup Sigsbee Amt. Bot'm Sample ____

Character of Bottom soft m

Thermom. Make N.B. No. 108015 Cor'n Instr. .6 Stem. -

Bottom Reading 54.9 Cor'd Temp. 54.3

Temp. Surf. 80 Time 10:00 a 80 Time 10:20 a Air 80 81

Density: Surf. ____ fms.

Wind: Direction East Force 1-2

Baromet. 29.97 Amt. of Clouds 6 State of Sea 8

Weather bcg.

Direction and Force of Current. Surface ____ Bottom ____

Tide ____

General Locality South of Tayabas Bay

Pt Trapichihan S 49 E Pagbilao 2(E) N 38 E

Position 13-44-15 N - 121-42-36 E

Chart used: No. 4714 C.S. Ed'n ____

Drift: Direction S 31 W Distance 3.8

Depth of Haul Bottom.

Apparatus and Rig used as before

Time towing ____ h. 20 m.

Remarks: sounding cup didn't trip.

11.6

Deck Officer Mr Hazard Recorder Roberts

11—1023

11—1023

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
a M. Down.			Up.	a M.			a M. Down.			Up.	a M.	
9	32	00	9	38	30	0	9	44	00	10	36	30
	33	40		37	00	100		48	15		32	15
9	34	30	9	35	30	159 200		51	00		28	30
						300		53	30		24	30
						400		56	30		20	30
						~~500~~ 530	9	58	00	10	18	00
						600						
						700						
						800						
						900						
						1000						
						1100						
						1200						
						1300						
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						2600						
			~~44~~ - 36			2700						
						2800						
						2900						
						3000						
						3100						
						3200						
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						4000						
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						4200						
						4300						
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						4500						
						4600						
						4700						
						4800						
						4900						

Dredge / ~~Hydrog.~~ No. 5371. Date, Feb. 24, 1909.

Sdg. Mch. — Reel — Shot / Lead — lbs.

Turns — Cor'n — Depth by Cht. 83 fms.

Sdg. Cup — Amt. Bot'm Sample —

Character of Bottom (mud bay:) gr M.

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

Bottom Reading — Cor'd Temp. —

Temp. Surf. 80° Time 7:17 p. / 80° Time 7:40 p. Air 83° / 82.5°

Density: Surf. — fms. —

Wind: Direction SE Force 2

Baromet. 29.88 Amt. of Clouds 7 State of Sea S

Weather bcs.

Direction and Force of Current. Surface — Bottom —

Tide —

General Locality Tayabas Bay.

Tayabas H. N 75° W – Pataya Id (E) N 20° E.

Position 13°49'40" N – 121°40'15" E.

Chart used: No. 4267 Ed'n —

Drift: Direction S 87° W Distance 0.9 m.

Depth of Haul Bottom.

Apparatus and Rig used As before.

Time towing — h. 27½ m.

Remarks: No Sounding taken.

Deck Officer Mr. Rohange Recorder Fritz

11—1023

11—1023

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
M.	Down.		Up.		M.		M.	Down.		Up.		M.
						0	7	06	30	7	55	00
						100		11	20		50	15
						200		15	00		45	45
						254 ~~300~~	7	17	00			
						300 ~~400~~	7	19	50		41	45
						350 ~~500~~	7	31	40	7	39	30
						600						
						700						
						800						
						900						
						1000						
						1100						
						1200						
						1300						
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69-24 –						2600						
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						4800						
						4900						

Dredge / ~~Hydrog.~~ No. 5372 Date, Feb. 24, 1909.

Sdg. Mch. — Reel — Shot / Lead — lbs.

Turns — Cor'n — Depth by Cht. 150 fms.

Sdg. Cup — Amt. Bot'm Sample —

Character of Bottom (mud bag:) fin M

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

Bottom Reading — Cor'd Temp.

Temp. Surf. 81° Time 3:42 pm; 81° Time 4:05 Air 82° 82½°

Density: Surf. — — fms. —

Wind: Direction SSW Force 2

Baromet. 29.87 Amt. of Clouds 9 State of Sea S

Weather Fog.

Direction and Force of Current. Surface — Bottom —

Tide —

General Locality Tayabas Bay.

Tayabas Pt N 3 W - Pagbilao Id (SE) N 72 E

Position 13°49'12" N - 121°36'09" E

Chart used: No. 1267 Ed'n —

Drift: Direction S 74° E Distance 1.5 miles

Depth of Haul Bottom.

Apparatus and Rig used As before.

Time towing h. 21 m.

Remarks: No sounding. Drum slipping on ~~drum~~, cause of leaving in slow. Outside dredging of net came off at surface of water.

Deck Officer Mr. Twhange Recorder Stuart

Mr. Johnson C.E. Neeley

11—1023

11—1023

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
____ M. DOWN.			UP.	____ M.			____ M. DOWN.			UP.	____ M.	
						0	3	26	30	4	35	15
						100		31	05	4	28	05
						200		34	20	4	14	15
						300		37	30	4	09	40
						400		40	20	4	05	10
						450 ~~500~~	3	41	35	4	02	40
						600						
						700						
						800						
						900						
						1000						
						1100						
						1200						
						1300						
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						4700						
						4800						
						4900						

Dredge / ~~Hydrog.~~ No. 5373 Date, 7 Mar 2, 1909

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

Turns Cor'n Depth 338 fms.

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

Character of Bottom sf. m

Thermom. Make N+L No. 108015 Cor'n Instr. .6 Stem.

Bottom Reading 52.4 Cor'd Temp. 51.8

Temp. Surf. 80 Time 9.45 a 80 Time 10.36 a Air 82 81

Density: Surf. 1.02550 fms.

Wind: Direction East Force 2

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

Weather bc 2

Direction and Force of Current. Surface Bottom

Tide

General Locality Tayabas Bay

Pagbilao I. (NW) N38E. Pt Loco Loco S82W

Position 13-40-00 N - 121-31-10 E

Chart used: No. 4714 Ed'n

Drift: Direction N32E. Distance 4.5

Depth of Haul bottom

Apparatus and Rig used 12' Tanner + floats

V wing wb, tailrt & mn stay

Time towing h. 20 m.

Remarks: sounding cut didn't trip

~~2 wing outs~~

Deck Officer Mr Rohange Recorder Roberts

11—1023

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
A.M. Down.			Up.	A.M.			A.M. Down.			Up.	A.M.	
9	33	25	9	43	40	0	9	51	00	11	10	50
	34	50		42	00	100		55	20		06	30
	36	15		41	20	200		58	30	11	02	20
	38	00		40	00	300	10	01	00		58	15
9	38	15	9	39	15	338 400		03	30		54	00
						500		06	05		50	10
						600		08	30		46	30
						700		11	00		41	00
						800		13	45		37	30
						841 ~~900~~	10	15	00	10	35	00
						1000						
						1100						
						1200						
						1300						
						1400						
						1500						
						1600						
						1700						
						1800						
						1900						
	143					2000						
						2100						
						2200						
						2300						
						2400						
						2500						
Tanjabao Lt						2600		20	E			
						2700						
	~~31~~	15				2800		15.	m			
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						3100						
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						3900						
						4000						
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						4700						
						4800						
						4900						

Dredge / ~~Hydros.~~ No. 5374 Date, Mar. 2, 1909

Sdg. Mch. — Reel — Shot Lead — lbs.

Turns — Cor'n — Depth by Cht. 190 fms.

Sdg. Cup — Amt. Bot'm Sample —

Character of Bottom — gy M. (mb)

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

Bottom Reading — Cor'd Temp. —

Temp. Surf. 80° Time 12 m. 80° Time 12:31 p. Air 82° 82°

Density: Surf. — — fms. —

Wind: Direction East Force 1-2-3-4

Baromet. 29.97 Amt. of Clouds 9 State of Sea 8

Weather bcsp

Direction and Force of Current. Surface — Bottom —

Tide —

General Locality Tayabas Bay.

Pagbilao I (SE) N 62 E - Tayabas Pt. Light N 9

Position 13°46'45" N - 121°35'00" E.

Chart used: No. 4714 Ed'n —

Drift: Direction N 29° E Distance 2.0 m.

Depth of Haul Bottom

Apparatus and Rig used As before.

Time towing — h. 33½ m.

Remarks: No sounding: depth by chart, character of bottom from mudbag.

Deck Officer Mr Rohange Mr. Johnston Recorder Roberto Frutil

11—1023

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
---- M.		DOWN.	UP.		---- M.		a ---- M.		DOWN.	UP.		a M.
						0	11	39	25	12	57	30
						100		44	00		48	50
						200		47	40		45	35
						300		51	30		42	40
						400		55	20		33	30
						465 ~~500~~	11	57	00	12	30	30
						600						
						700						
						800						
						900						
						1000						
						1100						
						1200						
						1300						
						1400						
						1500						
						1600						
						1700						
		144				1800						
						1900						
						2000						
						2100						
						2200						
						2300						
						2400						
						2500						
Tayabas St						2600	n a E					
			25-05			2700		7.4 m				
						2800						
						2900						
						3000						
						3100						
						3200						
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						4000						
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						4500						
						4600						
						4700						
						4800						
						4900						

Dredge / ~~Hydrog~~ No. 5375 Date, March 2, 1909.

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

Turns 110 Cor'n 120=117 Depth 107 fms.

Sdg. Cup arming Amt. Bot'm Sample Lead covered

Character of Bottom gr. m.

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

Bottom Reading – Cor'd Temp. –

Temp. Surf. 80° 80° Time 3:23 p. Time 3:45 p. Air 82° 83°

~~Density: Surf.~~ – fms.

Wind: Direction NE Force 3-4

Baromet. 29.89 Amt. of Clouds 8 State of Sea S

Weather hoz.

Direction and Force of Current. Surface – Bottom –

Tide – –

General Locality Betw. Marinduque & Lemon
San Andres I (W) S2E - Pt Stalong S48E

Position 13°42'15"N - 121°50'15"E.

Chart used: No. 4714 Ed'n –

Drift: Direction N 39° W Distance 1.5 m.

Depth of Haul Bottom

Apparatus and Rig used 12' Agassiz, 4 floats, wing & tailwts, mudbag.

Time towing – h. 20 m.

Remarks:

Deck Officer Mr. Johnson Recorder Arnutil

11—1023

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
P. M.			Up.	P. M.			P. M.			Up.	P. M.	
3	04	00	3	08	00	0	3	10	45	3	50	40
	04	45				100		16	40		47	10
3	05	00	3	05	10	110 200		20	55		44	00
						230 ~~300~~	3	21	50			
						270 ~~400~~	3	25	00	3	42	15
						500						
						600						
						700						
						800						
						900						
						1000						
						1100						
						1200						
						1300						
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						4700						
						4800						
						4900						

145

Tayabas Lt

N 49 B

182 m

Dredge / ~~Hydrog~~ No. 5376 Date, March 2, 1909

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

Turns No Cor'n ____ Depth 90 (chart) fms.

Sdg. Cup ____ Amt. Bot'm Sample Mud bag full

Character of Bottom gy M, S. & Sh.

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

Bottom Reading ____ Cor'd Temp. ____

Temp. Surf. 80° Time 4 12 / 80° Time 4 38 Air 82° / 84°

~~Density: Surf.~~ ____ fms.

Wind: Direction N.E. Force 4

Baromet. 29.90 Amt. of Clouds 2 State of Sea L

Weather bc.

Direction and Force of Current. Surface ____ Bottom ____

Tide ____

General Locality (Between Marinduque & Luzon) San Andres Isl (N.) L. 5° N. Pt. Santa Cruz, (Marinduque) L 48 E.

Position 13° 42' 50" N. 121° 51' 30" E.

Chart used: No. 4714 Ed'n ____

Drift: Direction N. 11° W. Distance 1.5 mi.

Depth of Haul bottom

Apparatus and Rig used as below

Time towing ____ h. 22 m.

Remarks: Net torn in two places near mouth.

Deck Officer Mr. Hagard Recorder C. E. DeLong

11—1023

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
---- M.			DOWN.	UP.	---- M.		P M.		DOWN.	UP.	P M.	
						0	4	10	20	4	51	45
						100	4	14	30	4	47	30
						200	4	17	35	4	43	50
						252 ~~300~~	4	19	20	4	41	40
						400						
						500						
						600						
						700						
						800						
						900						
						1000						
						1100						
						1200						
						1300						
						1400						
						1500						
						1600						
						1700						
		146				1800						
						1900						
						2000						
						2100						
						2200						
						2300						
						2400						
Day dbus Lt						2500			53			
						2600						
						2700			18.7 m			
43-00				51-30		2800						
						2900						
						3000						
						3100						
						3200						
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						4000						
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						4200						
						4300						
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						4500						
						4600						
						4700						
						4800						
						4900						

Dredge / ~~Hydrog.~~ No. 5377 Date, Mar. 4, 1909.

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

Turns 400 Cor'n — Depth 400 fms.

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

Character of Bottom Sl gn sm

Thermom. Make N.B. No. 108015 Cor'n Instr. .6 Stem.

Bottom Reading 50.2 Cor'd Temp. 49.6

Temp. Surf. 80° Time 7:51 a. 80° Time 8:20 a. Air 78° 79°

Density: Surf. fms.

Wind: Direction NE Force 1

Baromet. 29.99 Amt. of Clouds 4 State of Sea S

Weather Vez.

Direction and Force of Current. Surface — Bottom —

Tide —

General Locality East of Marinduque Id.

Monpog I (S) N63W - Marinduque I (SE) S49W

Position 13°26'00" N - 122°19'00" E

Chart used: No. 4715 Ed'n —

Drift: Direction S 31 E Distance 2.5

Depth of Haul Bottom.

Apparatus and Rig used As before

Time towing — h. 13 m.

Remarks: Towed 6 mis at 1000 fms - 7 mis at 1200 fms. Accumulator registered 6-7 hrs just before hoving in. At 445 fms weight released suddenly - Not completely wrecked

Deck Officer Mr. Pohange Recorder Roberts

Mr. Johnson Arritt

11—1023

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
A. M. Down.			Up.	A. M.			A. M. Down.			Up.	A. M.	
7	03	30	7	13	30	0	7	17	00	9	06	00
	04	55		12	20	100		21	20	9	02	20
	06	10		11	30	200		25	20		58	20
	07	20		10	35	300		38	30		54	30
7	08	30	7	09	30	400		31	30		51	00
						500		34	40		46	15
						600		38	05		40	30
						700		41	10		36	00
						800		44	10		31	00
						900		47	10		26	50
						1000	7	50	00		22	45
						1100	8	00	00		18	35
						1200	8	03	00	8	10	00
						1300						
						1400						
						1500						
						1600						
						1700						
		150				1800						
						1900						
						2000						
						2100						
						2200						
						2300						
						2400						
Mombpog I (E)						2500	N 55 W					
						2600						
						2700	9. mi					
						2800						
						2900						
						3000						
						3100						
						3200						
						3300						
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						4000						
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						4200						
						4300						
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						4500						
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						4700						
						4800						
						4900						

Dredge / ~~Hydrog.~~ No. 5378 Date, Mar 4, 1909.

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

Turns 395 Cor'n — Depth 395 fms.

Sdg. Cup Sigsbee Amt. Bot'm Sample trace on shot

Character of Bottom Sft. gn. M.

Thermom. Make N.3. No. 108015. Cor'n Instr. .6 Stem.

Bottom Reading 51.0 Cor'd Temp. 50.4

Temp. Surf. 80° Time 10:40 a. 80° Time 11:06 a. Air 80° 79.5°

~~Density: Surf.~~ — ~~fms.~~ —

Wind: Direction Variable Force 1

Baromet. 29.99 Amt. of Clouds 4 State of Sea S

Weather Fog.

Direction and Force of Current. Surface — Bottom —

Tide —

General Locality East of Marinduque Island. Bondoc Pt, Luzon S 58 E — Marinduque Is (SE)

Position 13-17-45 N - 122-32-00 E.

Chart used: No. 4715 Ed'n —

Drift: Direction S 40 E Distance 3.5

Depth of Haul Bottom

Apparatus and Rig used As before.

Time towing — h. 20 m.

Remarks: Sounding Shot did not detach. Sdg. Cup valve did not operate. — Net wrecked; pieces recovered. — Highest reading of accumulator was 5 tons.

Deck Officer Mr. Johnson Recorder Smith

11—1023

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
a. M. Down.			Up.	a. M.			a. M. Down.			Up.	a. M.	
9	57	40	10	06	40	0	10	11	20	11	34	30
	58	40		05	40	100		15	15		31	20
	59	50		04	50	200		18	00		27	50
10	00	50		03	55	300		20	50		24	00
10	02	00	10	03	00	395 400		23	50		20	25
						500		27	15		16	30
						600		30	40		12	20
						700		33	40		08	30
						800		37	00	11	03	30
						880 ~~900~~	10	39	30	10	59	30
						1000						
						1100						
						1200						
						1300						
						1400						
						1500						
						1600						
						1700						
						1800						
		151				1900						
						2000						
						2100						
						2200						
						2300						
						2400						
574						2500						
	Morning d (E)					2600		23 8 m				
						2700						
						2800		14 m				
						2900						
						3000						
						3100						
						3200						
						3300						
						3400						
						3500						
						3600						
						3700						
						3800						
						3900						
						4000						
						4100						
						4200						
						4300						
						4400						
						4500						
						4600						
						4700						
						4800						
						4900						

~~Dredge~~ Hydrog. No. 4927 Date, March 4, 1909

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

Turns 730 Cor'n — Depth 730 fms.

Sdg. Cup Sigsbee Amt. Bot'm Sample —

Character of Bottom No specimen

Thermom. Make N. G. Cor'n Instr. .6

No. 188015 Stem.

Bottom Reading 51° Cor'd Temp. 50.4

Temp. Surf. 81 Time 1.00 P Air 85

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 Bondoc Pt (Luzon) S. 84° E.

Sabangan Pt, Luzon N. 21° E. (E. of Marinduque)

Position 13° 10' 35" N. 122° 27' 30" E.

Chart used: No. 4715 Ed'n

Drift: Direction Distance

Depth of Haul

Apparatus and Rig used

Time towing h. m.

Remarks:

Deck Officer W. T. Hazard Recorder C. E. Dudley

11—1023

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
P. M. Down.			Up.	P. M.			P. M. Down.			Up.	P. M.	
12	50	40	1	14	25	0						
12	52	35	1	13	20	100						
12	54	05	1	12	25	200						
12	55	50	1	11	25	300						
12	57	45	1	10	25	400						
12	59	55	1	09	20	500						
1	02	10	1	08	15	600						
1	04	55	1	07	25	700						
1	05	45	1	06	45	730 ~~800~~						
						900						
						1000						
						1100						
						1200						
						1300						
						1400						
						1500						
						1600						
						1700						
						1800						
						1900						
						2000						
						2100						
						2200						
						2300						
						2400						
						2500						
						2600						
						2700						
10	45	-	27	35		2800						
						2900						
						3000						
						3100						
						3200						
						3300						
						3400						
						3500						
						3600						
						3700						
						3800						
						3900						
						4000						
						4100						
						4200						
						4300						
						4400						
						4500						
						4600						
						4700						
						4800						
						4900						

152

(degrees)

Mompog I (E) N 37 W

25.6 m

Dredge / ~~Hydros.~~ No. 5379 Date, March 7, 1909

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

Turns 920 Cor'n — Depth 920 fms.

Sdg. Cup Sigsbee Amt. Bot'm Sample

Character of Bottom no got specimens

Thermom. Make N. G. No. 108015 Cor'n Instr. 6 Stem.

Bottom Reading 511° Cor'd Temp. 50.5

Temp. Surf. 81° Time 3 00 / 81° Time 5:28 p Air 82° / 83°

Density: Surf. 1.02443 fms.

Wind: Direction Various Force 0-1

Baromet. 29.88 Amt. of Clouds 6 State of Sea 2

Weather Sun

Direction and Force of Current. Surface Bottom

Tide

General Locality Arena Pt. bears N. 38° E. Marinduque (SW) N 67° W (S.E. of Marinduque)

Position 12° 59' 15" N. 122° 30' 40" E.

Chart used: No. 4715 Ed'n

Drift: Direction N. 43° W. Distance 5.3 mi.

Depth of Haul bottom

Apparatus and Rig used 12' Agassiz M.R., 4 glass floats, 2 trimming weights, 1 tail weight, 1 mud bag.

Time towing h. 30 m.

Remarks:

Deck Officer Ms. Hazards Mx Rohrunge Recorder C E Darling Roberts

11—1023

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
P. M.			Up. P. M.				P. M.			Up. P. M.		
2	32	30	2	55	30	0	3	00	30	5	50	30
2	33	55	2	54	35	100	3	04	40		57	00
2	35	15	2	53	40	200	3	08	00		43	50
2	36	35	2	52	40	300	3	10	50		40	00
2	38	15	2	51	45	400	3	13	40		36	10
2	39	40	2	50	50	500	3	16	45		32	30
2	41	15	2	50	00	600	3	19	40		28	45
2	42	30	2	49	10	700	3	22	40		25	10
2	44	20	2	48	20	800	3	25	35		21	20
2	45	55	2	47	10	900	3	28	55		17	30
2	46	10	2	47	00	920 ~~1000~~	3	32	10		13	10
						1100	3	35	20		09	00
						1200	3	38	15		05	30
						1300	3	41	20	5	00	30
						1400	3	44	30		55	45
						1500	3	47	30		51	00
						1600	3	50	40		46	40
						1700	3	54	05		42	00
						1800	3	56	20		38	00
						1900	4	00	30		34	10
						1925 ~~2000~~	4	02	00	4	32	00
						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						

153

Mompog I (E)

37-06 30-45

N 30 m

37 m

Dredge / ~~Hydrog.~~ No. 5380 Date, Mar 4, 1909

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. 81 Time 7:30 P / Time — Air 82

Density: Surf. — fms.

Wind: Direction variable Force 0-1

Baromet. 29.92 Amt. of Clouds 3 State of Sea 0

Weather fog

Direction and Force of Current. Surface — Bottom —

Tide —

General Locality S.E. of Marinduque

Position 13-02-45 N - 122-29-00 E

Chart used: No. 4715 Ed'n

Drift: Direction mins recorded Distance

Depth of Haul Intermediate

Apparatus and Rig used 10' Intermediate 500# cable wt.

Time towing h. m.

Remarks: accumulator rods jumped out of the net and outer eye bolt pulled out of cable wt.

Deck Officer Mr Johnson Recorder Roberts

11—1023

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
---- M. DOWN.			UP.	---- M.			R M. DOWN.			UP.	R M.	
						0	7	22	30	7	32	20
						~~100~~ 200	7	26	00	7	28	30
						300						
						400						
						500						
						600						
						700						
						800						
						900						
						1000						
						1100						
						1200						
						1300						
						1400						
						1500						
						1600						
						1700						
						1800						
		154				1900						
						2000						
						2100						
						2200						
						2300						
						2400						
						2500						
						2600						
mongoyd (8)						2700	n 31					
						2800						
						2900	33 m					
						3000						
						3100						
						3200						
						3300						
						3400						
						3500						
						3600						
						3700						
						3800						
						3900						
						4000						
						4100						
						4200						
						4300						
						4400						
						4500						
						4600						
						4700						
						4800						
						4900						

Dredge / ~~Hydrog.~~ No. 5381 Date, Mar. 6, 1909

Sdg. Mch. TN Reel TN ~~Shot~~ / Lead Short lbs.

Turns 90 Cor'n (100 = 98) Depth 88 fms.

Sdg. Cup Strong Amt. Bot'm Sample free

Character of Bottom Co S

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

Bottom Reading — Cor'd Temp. —

Temp. Surf. 80° Time 9:31 a. / 79° Time 9:57 a. Air 82° / 84.5°

Density: Surf. — — fms. —

Wind: Direction ENE Force 2

Baromet. 30.03 Amt. of Clouds 5 State of Sea S

Weather Cos

Direction and Force of Current. Surface — Bottom —

Tide —

General Locality Mouth of Ragay Gulf, S. Luzon
From Pt. Luzon, S 68 W - Alibijabon I (E) N 12 W

Position 13°-14' (15") N - 122-44-45 E.

Chart used: No. 4715 Ed'n —

Drift: Direction N 13° E Distance 1.3 m.

Depth of Haul Bottom.

Apparatus and Rig used 12' Agassiz NR, 4 floats, wing & tail weights, mudbag.

Time towing — h. 20 m.

Remarks: Trawled 3 min to 200 fms. wire, & 17 min. to 240 fms. wire; = 20 min. - Trawl was probably not on bottom throughout entire haul.

Deck Officer Lt. Rohange Recorder Amiel

11—1023

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
a M. Down.			Up. a M.				9 M. Down.			Up. 9 M.		
9	14	00	9	17	30	0	9	27	30	10	00	00
9	15	00	9	15	30	90 100		27	00		56	30
						200	9	36	05		57	55
						240 ~~300~~	9	35	20	9	50	10
						400						
						500						
						600						
						700						
						800						
						900						
						1000						
						1100						
						1200						
						1300						
						1400						
						1500						
						1600						
		159				1700						
						1800						
						1900						
						2000						
						2100						
						2200						
						2300						
						2400						
						2500						
						2600						
Arena Pt, Luzon						2700	8 68 m					
						2800						
						2900	2.8 m					
						3000						
						3100						
						3200						
						3300						
						3400						
						3500						
						3600						
						3700						
						3800						
						3900						
						4000						
						4100						
						4200						
						4300						
						4400						
						4500						
						4600						
						4700						
						4800						
						4900						

Dredge / ~~Hydrog.~~ No. 5382 Date, Mar 6, 1909

Sdg. Mch. J. N Reel JN ~~Shot~~ / Lead Shark lbs.

Turns 130 Cor'n 120=117 Depth 128 fms.

Sdg. Cup Arming Amt. Bot'm Sample trace

Character of Bottom M

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

Bottom Reading — Cor'd Temp. —

Temp. Surf. 79° Time 10:23 a 79° Time 10:39 a Air 83° 84°

Density: Surf. — — fms. —

Wind: Direction E NE Force 2

Baromet. 30.03 Amt. of Clouds 5 State of Sea S

Weather Occ

Direction and Force of Current. Surface — Bottom —

Tide —

General Locality Mouth of Ragay Gulf, S. Luzon

Approx. Pt. S 56° W – Alibijaben I (E) N 19 W

Position 13-15-20 N – 122-45-30 E

Chart used: No. 4715 Ed'n —

Drift: Direction N 18° E Distance 1.5 m.

Depth of Haul Bottom

Apparatus and Rig used As before

Time towing — h. 15 m.

Remarks: This sounding also marks the end of previous station.

Deck Officer Mr. Robange Recorder [illegible]

11—1023

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
Ft.	M.	Down.	Up.	Ft.	M.		Ft.	M.	Down.	Up.	Ft.	M.
10	01	00	10	05	15	0	10	11	00	10	51	30
	02	00		03	30	100		14	50		48	00
10	02	20	10	02	30	130 200		18	20		44	45
						300		21	30		40	35
						350 ~~400~~	10	23	00	10	38	30
						500						
						600						
						700						
						800						
						900						
						1000						
						1100						
						1200						
						1300						
						1400						
						1500						
						1600						
		160				1700						
						1800						
						1900						
						2000						
						2100						
						2200						
						2300						
						2400						
						2500						
Arena Pt Lyon						2600						
						2700 855 B						
10-18-						2800						
						2900		3.8				
						3000						
						3100						
						3200						
						3300						
						3400						
						3500						
						3600						
						3700						
						3800						
						3900						
						4000						
						4100						
						4200						
						4300						
						4400						
						4500						
						4600						
						4700						
						4800						
						4900						

Dredge / ~~Hydrog.~~ No. 4-3-83 Date, March 8, 1909

Sdg. Mch. Lucas Reel Lucas Shot / ~~Leads~~ 25 lbs.

Turns 127 Cor'n — Depth 127 fms.

Sdg. Cup Sugden Amt. Bot'm Sample 100

Character of Bottom gr. M.

Thermom. Make N. G. No. 108015 Cor'n Instr. .6 Stem.

Bottom Reading 63.1° Cor'd Temp. 62.5

Temp. Surf. 80° Time 8 16 Time Air 84°

Density: Surf. 1.02293 fms.

Wind: Direction N. Force 3

Baromet. 29.84 Amt. of Clouds 3 State of Sea S

Weather Sc

Direction and Force of Current. Surface Bottom

Tide

General Locality Ragay Gulf S. Luzon.

Refugio 2 N 7 E Carabang 3 N 41 W

Position 13-22-00 N - 123-02-30 E

Chart used: No. 4715 Ed'n

Drift: Direction N 70 W Distance 1.3

Depth of Haul bottom

Apparatus and Rig used 12' Agassiz M.R., 4 glass floats, 2 sinking weights, 1 tail weight, 1 mud bag.

Time towing h. 20 1/3 m.

Remarks:

Deck Officer Mr. Hagardo Recorder C. E. Dedeing

11—1023

3-3-01

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
P. M. DOWN.			UP.		P. M.		P. M. DOWN.			UP.		P. M.
3	06	55	3	10	50	0	3	16	00	3	57	45
3	08	00	3	09	35	100	3	19	55	3	54	20
3	08	15	3	09	05	127 ~~200~~	3	22	45	3	50	50
						300	3	25	30	3	47	50
						~~400~~ 350	3	34	45	3	45	50
						500						
						600						
						700						
						800						
						900						
						1000	Towed for 7½					
						1100	min at 300 fath.					
						1200						
						1300						
						1400						
						1500						
						1600						
						1700						
						1800						
		68				1900						
						2000						
						2100						
						2200						
						2300						
						2400						
Arena Pt. Luzon						2500						
						2600	S 66 W					
21-45						2700						
						2800	27 7 m					
						2900						
						3000						
						3100						
						3200						
						3300						
						3400						
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						3600						
						3700						
						3800						
						3900						
						4000						
						4100						
						4200						
						4300						
						4400						
						4500						
						4600						
						4700						
						4800						
						4900						

Dredge / ~~Hydrog.~~ No. 5384 Date, March 8, 1909

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

Turns Cor'n Depth 320 fms.

Sdg. Cup sigsbee Amt. Bot'm Sample

Character of Bottom

Thermom. Make N.Z. No. 108015 Cor'n Instr. 6 Stem.

Bottom Reading 63 Cor'd Temp. 62.4

Temp. Surf. 80 Time 4.10 P Time Air 84

Density: Surf. fms.

Wind: Direction NNW Force 2-3

Baromet. 29.84 Amt. of Clouds 6 State of Sea 8

Weather bar.

Direction and Force of Current. Surface Bottom

Tide

General Locality Ragay Gulf & Luzon

Refugio 2 N 17 E Caratahg 2 N 39 W

Position 13-22-15 N - 123-01-15 E

Chart used: No. 4715 Ed'n

Drift: Direction N 74 W Distance 2.7

Depth of Haul bottom

Apparatus and Rig used as before

Time towing h. 25 m.

Remarks:

Deck Officer Mr Pohange Recorder Robert

11—1023

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
P.M.	Down.		Up.	P.M.			P.M.	Down.		Up.	P.M.	
4	00	30	4	05	15	0	4	08	10	5	14	30
	01	35		04	25	100		11	35		10	50
	02	30		03	35	200		14	00		07	30
4	02	45	4	03	30	300		16	30		04	00
						400		19	30	5	00	40
						500		22	00		57	20
						600	4	25	00		53	45
						~~700~~ 693	4	32	00	4	50	00
						800						
						900						
						1000						
						1100						
						1200						
						1300						
						1400						
						1500						
						1600						
						1700						
						1800						
						1900		towards smith's bar				
		69				2000						
						2100						
						2200						
						2300						
						2400						
						2500						
						2600						
						2700						
Anna Pt, Luzon						2800		S 64 W				
						2900						
22-24			01-00			3000		207 m				
						3100						
						3200						
						3300						
						3400						
						3500						
						3600						
						3700						
						3800						
						3900						
						4000						
						4100						
						4200						
						4300						
						4400						
						4500						
						4600						
						4700						
						4800						
						4900						

Dredge / Hydrog. } No. ..... 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. { ..... 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: .....

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.....

Deck Officer ..... Recorder .....

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
---- M.		Down.	Up.		---- M.		---- M.		Down.	Up.		---- M.
						0						
						100						
						200						
						300						
						400						
						500						
						600						
						700						
						800						
						900						
						1000						
						1100						
						1200						
						1300						
						1400						
						1500						
						1600						
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						2800						
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						3000						
						3100						
						3200						
						3300						
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						3600						
						3700						
						3800						
						3900						
						4000						
						4100						
						4200						
						4300						
						4400						
						4500						
						4600						
						4700						
						4800						
						4900						

Dredge / ~~Hydrog.~~ No. 5457 Date, June 8, 1909

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. ..... 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 17' Agassiz Tow Net; 6 Glass floats; 7 wire weights.

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

Remarks: No Sounding.

Deck Officer Mr. Roberts Recorder A. M. Kiil

11—1023

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
---- M.	Down.		Up.	---- M.			a M.	Down.		Up.	a ---- M.	
						0	9	26	5			
						100		29	50			
						200		33	10			
						300		35	40			
						350 ~~400~~	9	39	30			
						500						
						600						
						700						
						800						
						900						
						1000						
						1100						
						1200						
						1300						
						1400						
						1500						
						1600						
						1700						
						1800						
						1900						
						2000						
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						2200						
						2300						
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						2700						
						2800						
						2900						
						3000						
						3100						
						3200						
						3300						
						3400						
						3500						
						3600						
						3700						
						3800						
						3900						
						4000						
						4100						
						4200						
						4300						
						4400						
						4500						
						4600						
						4700						
						4800						
						4900						

39
117 × 11
+20
4

39
39
429 | 4
4 | 107
29

fac = turns × cor / total force

Arabic

39
117 × 130
120
4

39
13
117
39
507 | 17
4 | 127
10
8
27

89 × 90
100

18
90

801

49
98 × 90
150
5

49
9
441 | 5
40 | 88
40
1

2295
6
13650