

No 11

5579

5564.





Dredge } No. 55519 ✓ Date, August 9, 1905  
Hydrog. }

Sdg. Mch. Lucas Reel Lucas Shot } 25 lbs.  
Leach }

Turns 142 Cor'n \_\_\_\_\_ Depth 142 fms.

Sdg. Cup Sigbee Amt. Bot'm Sample 3 1/2 oz.

Character of Bottom glob. sh.

Thermom. { Make U.S. Cor'n { Instr. -1.7  
                  { No. 108815                    { Stem. \_\_\_\_\_

Bottom Reading 55.0 Cor'd Temp. 54.3

Temp. Surf. { 55.0 Time 1:45 } Air { 83.0  
                  { \_\_\_\_\_ Time \_\_\_\_\_ } \_\_\_\_\_

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

Wind: Direction Various Force 13

Baromet. 29.70 Amt. of Clouds 5 State of Sea 1

Weather hazy.

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

Tide \_\_\_\_\_

General Locality Mt. Silla, Mind. I. S. P.; Sillindit

(M.) 110° W.; N. of Mind. I. S. P. & Negros

Position 8° 47' 00" N. 123° 31' 15" E.

Chart used: No. 4723 Ed'n \_\_\_\_\_

Drift: Direction S 14° E. Distance 1.6 mi.

Depth of Haul bottom

Apparatus and Rig used Owl-below.

Time towing h. 43 m.

Remarks:

Deck Officer M. Hazard Recorder C. DeLong

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
P.M. Down.	Up.	P.M.		P.M. Down.	Up.	P.M.
1 36 30	1 41 00		0	1 44 40	2 48 15	
37 25	40 05		100	45 30	45 20	
1 38 10	1 39 10	182	<del>200</del>	51 50	42 25	
			300	45 20	39 00	
			<del>315</del> 400	1 56 00	2 39 00	
			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			

65

Tagdo H Lt S 71 W  
8.7 m



SOUNDING WIRE.

A. M. Down.	Up.	A. M.
6 01 00	6	03 45
01 50		02 55
6 01 52	6	02 52

FMS.

- 0
- 100
- 102 200 170
- 204 300
- 400
- 500
- 600
- 700
- 800
- 900
- 1000
- 1100
- 1200
- 1300
- 1400
- 1500
- 1600
- 1700
- 1800
- 1900
- 2000
- 2100
- 2200
- 2300
- 2400
- 2500
- 2600
- 2700
- 2800
- 2900
- 3000
- 3100
- 3200
- 3300
- 3400
- 3500
- 3600
- 3700
- 3800
- 3900
- 4000
- 4100
- 4200
- 4300
- 4400
- 4500
- 4600
- 4700
- 4800
- 4900

DREDGING CABLE.

A. M. Down.	Up.	A. M.
6 07 00	6	46 40
11 30		43 25
6 14 15		40 30
6 19 40	6	40 10

64

N. 58 W.

Tugdo ~~St~~ N 48 E  
4.5 m





## SOUNDING WIRE.

A. M. Down.	Up.	A. M.
7 22 00	7 27 10	
22 55	26 15	
23 55	25 30	
7 24 10	7 25 10	22 1800

FMS.

## DREDGING CABLE.

A. M. Down.	Up.	A. M.
7 29 50	8 09 30	
33 45	07 00	
37 45	04 20	
43 05	8 01 30	
49 05	56 00	
7 50 50	7 55 00	

		0		
		100		
		200		
		300		
		400		
		425 500		
		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		
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		3600		
		3700		
		3800		
		3900		
		4000		
		4100		
		4200		
		4300		
		4400		
		4500		
		4600		
		4700		
		4800		
		4900		

65

S 74 W

Tangle St

S 11 E

3 m

Dredge } No. 5522 Date, Aug 10, 1909  
Hydrog. }  
Sdg. Mch. Lucas Reel S Shot/Lead 35 lbs.  
Turns 230 Cor'n - Depth 230 fms.  
Sdg. Cup Sigbee Amt. Bot'm Sample 1 oz.  
Character of Bottom Glob.

Thermom. { Make N.B. Cor'n { Instr. - .7  
          { No. 108015           { Stem.  
Bottom Reading 53° Cor'd Temp. 52.3  
Temp. Surf. { 84° Time 9:58 a.m. } Air { 81°  
              { 84° Time 10:16 a.m. }     { 81.8°

Density: Surf. \_\_\_\_\_ fms. \_\_\_\_\_  
Wind: Direction SW Force 3  
Baromet. 29.98 Amt. of Clouds 4 State of Sea S  
Weather hazy

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

Tide \_\_\_\_\_

General Locality N of Mintaras, S of Negro.  
Sibina I (W) N 48 W - Tagolo Pt., Mindanao, S 39 W  
Position 8° 49' 00" N - 123° 26' 30" E

Chart used: No. 4723 Ed'n -

Drift: Direction S 79 E Distance 1.2 m

Depth of Haul Bottom

Apparatus and Rig used 12' Tanner trawl;  
2 gh. floats; 3 wts.

Time towing - h. 18 m.

Remarks: Net fouled over beam.

Deck Officer Mr. Hazard Recorder A. J. L.

SOUNDING WIRE.

FMS.

DREDGING CABLE.

~~7~~ M. Down. Up. ~~7~~ M.

~~9~~ M. Down. Up. ~~9~~ M.

9 09 10 9 14 25  
 10 00 13 25  
 11 00 12 40  
 9 11 20 9 12 30

230

9 42 00 10 29 00  
 45 50 24 50  
 49 30 21 50  
 53 05 18 25  
 9 57 15 10 15 15

67

Tagolo Lt

S 39 m  
 6 m

0  
 100  
 200  
 300  
 400  
 500  
 600  
 700  
 800  
 900  
 1000  
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 3700  
 3800  
 3900  
 4000  
 4100  
 4200  
 4300  
 4400  
 4500  
 4600  
 4700  
 4800  
 4900



SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		A.M. Down.	Up.	A.M.
			0	10 31 20	11 20 15	
			100	35 30	17 15	
			200	39 30	14 00	
			300	43 40	11 00	
			400	10 48 00	08 00	
			410 500	10 48 40	11 07 30	
			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	S 48 m		
			3400	6.7 m		
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

*Nothing found.*

*6*

*Wagon.*

*Tagolo St*

*S 48 m*  
*6.7 m*

Dredge } No. 5524 Date, August 10, 1909  
Hydrog. }

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

Turns 360 Cor'n \_\_\_\_\_ Depth 360 fms.

Sdg. Cup Ligebee Amt. Bot'm Sample about 2 drums

Character of Bottom S.

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

Bottom Reading 52.5° Cor'd Temp. 52.9

Temp. Surf. { 84° Time 1:20 } Air { 82.5°  
              { 84° Time 2:10 }       { 83.5°

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

Wind: Direction S.W. Force 3-4

Baromet. 29.89 Amt. of Clouds 2 State of Sea S.

Weather bc

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

Tide \_\_\_\_\_

General Locality Palitan Pt., Siquijor Id. N. 18° W.;

Kinalulan Pt., Siquijor Id. N. 41° E.; 7/8 N. Wind S. Siquijor

Position 8° 55' 07" N. 123° 32' 45" E.

Chart used: No. 4723 C.S. Ed'n \_\_\_\_\_

Drift: Direction S 16° W. Distance 1.2 mi.

Depth of Haul Bottom

Apparatus and Rig used 12' Tanner, 2 glass floats,  
2 ring weights, 1 tail weight.

Time towing \_\_\_\_\_ h. 23 m.

Remarks:

Deck Officer Mr. Bohange Recorder C. C. Colong

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
P.M. DOWN.	UP.	P.M.		P.M. DOWN.	UP.	P.M.
1 02 30	1 09 30		0	1 16 00	2 25 30	
03 20	09 45		100	19 25	22 30	
04 10	08 05		200	23 10	19 30	
05 05	07 20		300	26 20	16 45	
1 03 40	1 06 40	360	<del>400</del>	29 30	13 30	
			500	33 30	08 50	
			600	x 1 39 30	05 30	
			<del>650</del> 700	1 50 35	2 03 50	
			800			
			900			
			1000	* Towed for 9 min at 600 fath.		
			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			

*69*

*Tagolo*

*S 34 W  
17 m.*

Dredge No. 4934 Date, Aug. 10, 1920

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

Turns \_\_\_\_\_ Cor'n \_\_\_\_\_ Depth 405 fms.

Sdg. Cup Sigsbee Amt. Bot'm Sample Trace

Character of Bottom gy. M.

Thermom. { Make A. T. Cor'n { Instr. \_\_\_\_\_  
No. 108015 Stem. \_\_\_\_\_

Bottom Reading 54 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 E. of Siquijor Id.

Surmanga Pt., Siquijor Id. N. 48 W.

Position Lat 9° 12' 30" Long. 123° 44' 07"

Chart used: No. 4718 Ed'n Dec 06

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

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

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

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

Remarks \* Did not dredge.

*See next page*

Deck Officer M. Johnson Recorder H. W. Corder





Dredge } No. 5525 Date, Aug 11<sup>th</sup>, 1929

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

Turns \_\_\_\_\_ Cor'n \_\_\_\_\_ Depth 405 fms.

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

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

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

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

Temp. Surf. { 82 Time 8:00 a } Air { 82 }  
{ 83 Time 8:50 a } { 82 }

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

Wind: Direction Variable Force 1-2

Baromet. 29.94 Amt. of Clouds 3 State of Sea S

Weather bc

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

Tide \_\_\_\_\_

General Locality E. of Siquijor Id.

Lunang Pt. Siquijor Id. N. 48 W.

Position Lat. 9° 12' 30" Long. 123° 44' 07"

Chart used: No. 4718 Ed'n \_\_\_\_\_

Drift: Direction N. 15 E. Distance 1.7

Depth of Haul Bottom

Apparatus and Rig used 12' Tanner, 2 glass floats, 2 wing weights, 1 tail weight.

Time towing \_\_\_\_\_ h. 22<sup>30</sup> m.

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

Deck Officer Mr. Rohan Recorder H. W. Crider

## SOUNDING WIRE.

FMS.

## DREDGING CABLE.

M. Down. Up. A M.

M. Down. Up. A M.

FMS.	M. Down.	Up.	A M.
0	8 02 45	9 10 10	
100	06 30	12 00	
200	09 35	09 10	
300	12 50	06 10	
400	16 20	03 20	
500	19 10	9 00 20	
600	22 10	57 40	
700	25 15	54 25	
800	8 28 20	8 50 00	
900			
1000			
1100			
1200			
1300			
1400			
1500			
1600			
1700			
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2800			
2900			
3000			
3100			
3200			
3300			
3400			
3500			
3600			
3700			
3800			
3900			
4000			
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4200			
4300			
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4500			
4600			
4700			
4800			
4900			

~~See page 11-1023~~  
 (See preceding page)

Minaluluan Pt. Sijaya Lt. S. 27 W.

Bahia de Lt. R. 11 W.  
 18 m



SOUNDING WIRE.			FMS.	DREDGING CABLE.		
A. M. Down.	Up.	A. M.		A. M. Down.	Up.	A. M.
9 19 25	9 36 10		0	9 39 20	11 42 30	
20 20	35 20		100	43 05	39 45	
21 10	34 40		200	46 55	37 00	
22 10	34 00		300	51 40	34 10	
23 10	33 20		400	56 55	31 30	
25 25	32 30		500	10 00 00	24 45	
26 30	31 50		600	03 05	25 40	
27 40	31 00		700	06 10	22 35	
28 00	30 05		800	09 10	19 30	
9 29 00	9 30 00	805	900	11 55	16 25	
			1000	15 10	13 30	
			1100	17 55	10 55	
			1200	21 00	07 40	
			1300	24 20	04 45	
			1400	27 40	11 01 50	
			1500	30 35	59 10	
			1600	33 45	06 00	
			1670	10 36 00	10 53 00	
			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			

Minalulan Pt. Siquijor Id. S. 42 W.

Balicasag Id. N 11 W

18.2

Dredge } No. 3527 Date, Aug. 11, 1909  
Hydrog. }

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

Turns 392 Cor'n — Depth 392 fms.

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

Character of Bottom Glob. Oz.

Thermom. { Make N.Z. Cor'n { Instr. 7.7  
          { No. 108015.           { Stem.

Bottom Reading 54° Cor'd Temp. 53.3

Temp. Surf. { 84° Time 1:38.5 } Air { 87°  
              { 85° Time 1:55.0 }       { 89°

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

Wind: Direction W by N Force 2

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

Weather Veg.

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

Tide \_\_\_\_\_

General Locality Bet. Siquijor & Bohol

Sandigan Pt., Siquijor, S 53 W - Bali

Position 9° 22' 30" N - 123° 42' 40" E.

Chart used: No. 4718 Ed'n —

Drift: Direction S 14 E Distance 1.2 m

Depth of Haul Bottom.

Apparatus and Rig used 12' Tanner trawl; 2 glass floats; 2 wing-weights; 1 tail weight

Time towing — h. 20 m.

Remarks:

Deck Officer Mr. Johnson Recorder A. T. H. T. 11-1023

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
P. M. Down.	Up.	P. M.		P. M. Down.	Up.	P. M.
1 03 25	1 11 10		0	1 14 10	2 19 30	
04 25	10 25		100	17 55	16 40	
05 15	09 40		200	21 50	13 55	
06 10	09 00		300	25 00	10 55	
1 07 00	1 08 00	392	400	27 55	07 55	
			500	30 55	05 00	
			600	34 10	2 02 05	
			700	1 37 30	1 57 55	
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
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			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

casting Lt., N 14 W

Bahicay Lt N 14 W

8 m





SOUNDING WIRE.				FMS.	DREDGING CABLE.			
P. M. Down.	Up.	P. M.			P. M. Down.	Up.	P. M.	
3 03 20	2	13 45		0	3 16 00	4	26 25	
04 25		12 40		100	19 45		32 05	
05 25		11 50		200	23 30		29 15	
06 35		10 50		300	26 45		26 30	
07 40		09 50		400	30 10		23 30	
3 08 15	3	09 15	439	500	33 00		20 30	
				600	36 00		17 35	
				700	39 10		14 40	
				800	3 42 10	4	11 20	
				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				
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				3900				
				4000				
				4100				
				4200				
				4300				
				4400				
				4500				
				4600				
				4700				
				4800				
				4900				

73

TT 15 E.

Bahicag St N 156

5.8 m



SOUNDING WIRE.			FMS.	DREDGING CABLE.		
P.M. Down.	Up.	P.M.		P.M. Down.	Up.	P.M.
4 39 30	4 45 40		0	4 52 45	6 19 10	
40 30	47 40		100	56 46	16 10	
41 20	46 55		200	5 00 00	13 15	
42 15	46 10		300	03 10	10 20	
43 20	45 25		400	06 05	07 25	
4 43 45	4 44 50	441	500	09 00	04 30	
			600	12 00	6 01 40	
			700	15 00	5 5 30	
			800	18 00	5 5 40	
			<del>840</del> 900	5 19 10	5 5 40	
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
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			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Bohol,

Bahiasag St N 11 E  
6.9 m



SOUNDING WIRE.			FMS.	DREDGING CABLE.					
M. Down.	Up.	M.		P. M. Down.	Up.	P. M.			
			0	7	12	45	7	25	40
			25- <del>100</del>	7	14	00	7	34	30
			200						
			300						
			400						
			500						
			600						
			700						
			800						
			900						
			1000						
			1100						
			1200						
			1300						
			1400						
			1500						
			1600						
			1700						
			1800						
			1900						
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			2400						
			2500						
			2600						
			2700						
			2800						
			2900						
			3000						
			3100						
			3200						
			3300						
			3400						
			3500						
			3600						
			3700						
			3800						
			3900						
			4000						
			4100						
			4200						
			4300						
			4400						
			4500						
			4600						
			4700						
			4800						
			4900						

Bahia Sagd Lt N 32 E

4.3 m



SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		P. M. Down.	Up.	P. M.
			0			
			<del>20-100</del>	7 48 00	8 18	25
			200	7 49 30	8 17	15
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400	Bahia Sag Lt R 438		
			3500			
			3600			
			3700			
			3800	4.2 m		
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Dredge } No. 5532 ✓ Date, Aug. 13, 1909  
Hydrog. }

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. { 84 Time 7:15 P. } Air { 86  
84 Time 7:30 P. } 86

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

Wind: Direction N<sup>2</sup>E. Force 1

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

Weather cu n.

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

Tide \_\_\_\_\_

General Locality Between Masbate & Leyte

Timanganan Id. (NW) N. 57 E. Gigantangan

Position Lat. 11° 36' 39" Long. 124° 13' 30"

Chart used: No. 4718 Ed'n \_\_\_\_\_

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

Depth of Haul Surface.

Apparatus and Rig used 40' Intermediate

used as surface.

Time towing \_\_\_\_\_ h. 14<sup>05</sup> m.

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

Deck Officer Mr. Hazard Recorder H. W. Crider.



## SOUNDING WIRE.

M. Down. Up. M.

FMS.

## DREDGING CABLE.

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

0

15 ~~100~~

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

7 13 30 7 29 20

7 14 10 7 28 15

H. (S) S 336

Gigantangan (S) S 336  
3.8 m

Dredge } No. 5533 Date, Aug. 19, 1909  
 Hydrog. }  
 Sdg. Mch. Lucas Reel S Shot 35 lbs.  
 Turns 432 Cor'n - Depth 432 fms.  
 Sdg. Cup Sigsbee Amt. Bot'm Sample 2 oz.  
 Character of Bottom gy MS  
 Thermom. { Make K3 Cor'n { Instr. -7  
 { No. 108015 { Stem.  
 Bottom Reading 14' Cor'd Temp. 53.3  
 Temp. Surf. { 81° Time 6:09 a } Air { 80°  
 { 81° Time 6:35 a } { 82°  
 Density: Surf. \_\_\_\_\_ fms.  
 Wind: Direction Variable Force 1  
 Baromet. 29.93 Amt. of Clouds 8 State of Sea S  
 Weather bc  
 Direction and Force of Current { Surface \_\_\_\_\_  
 { Bottom \_\_\_\_\_  
 Tide \_\_\_\_\_

General Locality Bet. Cebu & Siquijor.  
 Pasigain Pt S13W - Balicasag It  
 Position 9°27'15" N - 123°31'48" E  
 Chart used: No. 4718 Ed'n -  
 Drift: Direction S30E Distance 1.3 m.  
 Depth of Haul Bottom.  
 Apparatus and Rig used 12' Tanner Trawl, 2 floats,  
 3 weights.

Time towing - h. 23 m.

Remarks:

Deck Officer J. P. Bohange Recorder A. A. Atal

SOUNDING WIRE.

FMS.

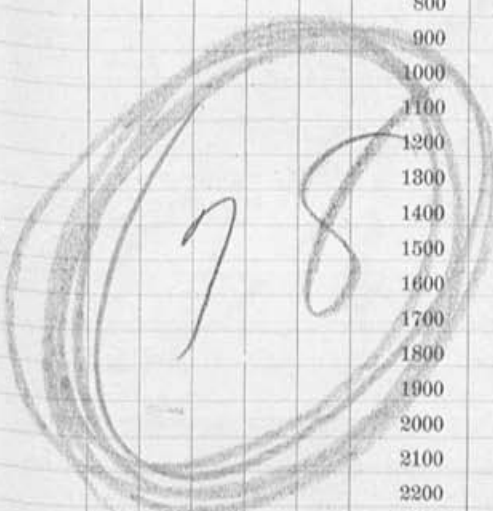
DREDGING CABLE.

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

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

√ 25 20	5 35 00	0
26 20	34 00	100
27 20	33 00	200
28 20	32 00	300
29 20	31 00	400
5 29 40	5 30 40 432	500

5 40 00	6 57 00
45 00	57 00
48 20	49 00
51 30	46 10
54 40	43 20
57 50	40 30
6 01 10	37 20
04 40	34 20
6 08 00	6 31 00



7-715

Balinasag Lt 716  
9.4 m

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. 47534 Date, August 19, 1909

Sdg. Mch. Lucas Reel Lucas Shot/Lead 25 lbs.

Turns 333 Cor'n \_\_\_\_\_ Depth 333 fms.

Sdg. Cup Sigbee Amt. Bot'm Sample 1 ounce

Character of Bottom gy. glob. Bz

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

Bottom Reading 5.4° Cor'd Temp. 53.3

Temp. Surf. { 82° Time 8:35 } Air { 82°  
83° Time 9:25 } 83°

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

Wind: Direction Various Force 0-1

Baromet. 29.94 Amt. of Clouds 4 State of Sea S.

Weather bc

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

Tide \_\_\_\_\_

General Locality Sumilon Id (Mid) N 59° W; Apo Id (Mid) S 25° W; South end of Cebu.

Position 9° 26' 00" N; 123° 26' 37" E.

Chart used: No. 4718 Ed'n \_\_\_\_\_

Drift: Direction S. 64° W. Distance 1.8 miles.

Depth of Haul bottom

Apparatus and Rig used 12' Tanner, 2 glass floats, 2 trimming weights, 1 tail weight.

Time towing h. 20 1/2 m.

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

Deck Officer Mr. Johnson Recorder C. P. Long

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
A.M. DOWN.	UP.	A.M.		A.M. DOWN.	UP.	A.M.
8 20 10	8 27 20		0	8 29 30	9 32 00	
21 10	26 30		100	33 25	29 55	
22 10	25 40		200	37 30	27 05	
23 05	24 50		300	41 25	24 05	
8 23 20	8 24 20	323	<del>400</del>	44 50	21 05	
			500	48 00	18 05	
			600	51 20	15 05	
			<del>650</del> 700	8 53 05	9 13 00	
			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			

Balicasag Lt

R 72 E

14.7 m



SOUNDING WIRE.			FMS.	DREDGING CABLE.		
A. M. Down.	Up.	A. M.		A. M. Down.	Up.	A. M.
10 34 30	10 41 35		0	10 47 50	11 56 50	
35 30	40 45		100	51 25	33 10	
36 30	39 55		200	55 20	29 50	
37 30	38 55		300	58 55	26 10	
10 37 40	10 38 40	3 10	400	11 00 55	23 00	
			500	02 55	19 40	
			600	11 06 45	11 15 15	
			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			

Apo Lt

S 24 M

17 m

Dredge } No. 5536 Date, Aug. 19, 1909

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

Turns — Cor'n — Depth 279 fms.

Sdg. Cup Sieber Amt. Bot'm Sample Trace

Character of Bottom gm. M.

Thermom. { Make M. Z Cor'n { Instr. 7  
                  { No. 108015                    { Stem. —

Bottom Reading 54.2 Cor'd Temp. 53.5

Temp. Surf. { 85 Time 1:15 P } Air { 84  
                  { 85 Time 2:00 P }        { 84

Density: Surf. — fms. —

Wind: Direction S.W. Force 1-2

Baromet. 29.87 Amt. of Clouds 8 State of Sea S.

Weather hazy

Direction and Force of Current { Surface —  
  { Bottom —

Tide —

General Locality Bet. Siquijor & Negros

App. Id (n.w) S. 27 W. Paliton Pt. Siquijor Id.

Position Lat. 9° 15' 45" Long. 123° 22' 00"

Chart used: No. C.S. 4718 Ed'n —

Drift: Direction S 60 W. Distance 2.7

Depth of Haul Bottom

Apparatus and Rig used 12' Tanner, 2 glass floats, 2 wing weights, 1 tail weight

Time towing h. 19<sup>40</sup> m.

Remarks: K.S. towed alongside

Deck Officer Mr. Hazard Recorder H.W. Cider



SOUNDING WIRE.

FMS.

DREDGING CABLE.

# M. Down. Up. # M.

# M. Down. Up. # M.

12 47 50 12 54 05 0  
 48 40 53 05 100  
 49 35 52 15 200  
 12 50 20 12 51 20 279 300

1 16 20 2 11 45  
 20 20 08 30  
 24 40 05 40  
 28 15 2 02 40  
 31 35 59 50  
 35 20 56 50  
 1 36 10 1 55 50

525 400



S. 49 E.

apo Lt

S 26 W

11.8 m

- 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. 5537 Date, Aug. 19, 1909

Sdg. Mch. Lucas Reel L Shot 35 lbs

Turns \_\_\_\_\_ Cor'n \_\_\_\_\_ Depth 254 fms.

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

Character of Bottom G.S.M.

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

Bottom Reading 54.2 Cor'd Temp. 53.5

Temp. Surf. { 84 Time 3:20 } Air { 87  
84 Time 4:00 } 85

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

Wind: Direction Variable Force 1-2

Baromet. 29.83 Amt. of Clouds 8 State of Sea S

Weather bc

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

Tide \_\_\_\_\_

General Locality Bd. Siquijor & Negros.

App Id (NW) S 47 W - Cambalagua Pt, Siquijor

Position 9° 11' 00" N - 173° 23' 00" E

Chart used: No. C.S. 4718 Ed'n \_\_\_\_\_

Drift: Direction S 75 W Distance 2.0 m.

Depth of Haul Bottom.

Apparatus and Rig used As before.

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

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

Deck Officer Mr. Hazard Recorder H.W. Corder

Mr. Pokanga Armitel

## SOUNDING WIRE.

#	M. Down.	Up.	#	M.
3	12 25		18	20
	13 25		17	25
	14 25		16	35
3	15 00	3	16	00

FMS.

0  
100  
200  
300  
400  
500  
600  
700  
800  
900  
1000  
1100  
1200  
1300  
1400  
1500  
1600  
1700  
1800  
1900  
2000  
2100  
2200  
2300  
2400  
2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000  
4100  
4200  
4300  
4400  
4500  
4600  
4700  
4800  
4900

## DREDGING CABLE.

#	M. Down.	Up.	#	M.
3	21 45	4	14	10
	25 55		11	00
	29 20		08	10
	33 55		05	50
	36 55	4	02	30
3	39 20	3	57	05

for IS S68E

Apr 24 1946 W  
8.7 m

Dredge No. 5538 Date, Aug. 19, 1909

Sdg. Mch. Lucas Reel L Shot 25 lbs

Turns 256 Cor'n - Depth 256 fms.

Sdg. Cup Eijsbee Amt. Bot'm Sample 1 3.

Character of Bottom fm. M. S.

Thermom. { Make N. 3. Cor'n { Instr. - 7  
No. 108015. Stem.

Bottom Reading 54° Cor'd Temp. 53.3

Temp. Surf. { 83° Time 5:21 p } Air { 83°  
83° Time 5:44 p } 83°

Density: Surf. fms.

Wind: Direction Trade Force 1

Baromet. 29.86 Amt. of Clouds 8 State of Sea S

Weather beam

Direction and Force of Current { Surface  
Bottom

Tide

General Locality Bet. Siquijor & Negros

Passigajo Pt. N 45 E - Bagacay Pt

Position 9° 08' 15" N - 123° 23' 20" E

Chart used: No. SC 4718 Ed'n -

Drift: Direction S 80 W Distance 1.3 m.

Depth of Haul Bottom

Apparatus and Rig used 12' Tanner, 2 floats;  
3 Sinker

Time towing - h. 22 m.

Remarks:

Deck Officer Mr. Robinson Recorder Fontal

SOUNDING WIRE.			FMS.	DREDGING CABLE.									
P. M. Down.	Up.	P. M.		P. M. Down.	Up.	P. M.							
4	52	40	4	58	20	0	5	01	00	5	57	30	
	53	30		57	30	100		05	30		54	30	
	54	30		56	40	200		09	15		51	30	
4	55	00	4	56	05	250		12	25		48	30	
						300		15	50		45	40	
						400		5	20	00	5	42	30
						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							

5848

apost

864M  
7.3 m

Dredge } No. 5539 Date, Aug 19, 1919  
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 7:11 p. } Air { 83°  
                  { 83° Time 7:30 p. }            { 83°

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

Wind: Direction Variable Force 1

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

Weather clear

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

Tide \_\_\_\_\_

General Locality Bet. Siquijor & Negros

Pasigajon At N 20 E - Apo At N 78 W

Position 9° 3' 20" N - 123° 24' 45" E

Chart used: No. CS 4718 Ed'n -

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

Depth of Haul Surface

Apparatus and Rig used 10' Inter & double

cone. (no surface net).

Time towing - h. 19 m.

Remarks: No sdg.

Deck Officer Mr. Johnson Recorder [Signature]

## SOUNDING WIRE.

FMS.

## DREDGING CABLE.

M. Down. Up. M.

M. Down. Up. M.

				0					
				<del>100</del>	7	10	00	7	30 25
				200	7	11	00	7	29 20
				300					
				400					
				500					
				600					
				700					
				800					
				900					
				1000					
				1100					
				1200					
				1300					
				1400					
				1500					
				1600					
				1700					
				1800					
				1900					
				2000					
				2100					
				2200					
				2300					
				2400					
				2500					
				2600					
				2700					
				2800					
				2900					
				3000					
				3100					
				3200					
				3300					
				3400					
				3500					
				3600					
				3700					
				3800					
				3900					
				4000					
				4100					
				4200					
				4300					
				4400					
				4500					
				4600					
				4700					
				4800					
				4900					

Apr 21

R 78 M

S. 2 m





SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		M. Down.	Up.	M.
			0			
			15-100	740.00	858.00	
			200	741.30	857.30	
			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			

*Apot St*

*Or 76.00*

*P. 1 m*

Dredge } No. 5541 Date, Aug 20, 1909  
Hydrog }

Sdg. Mch. Lucas Reel Lucas Shot/Lead 55 lbs.

Turns 219 Cor'n --- Depth 219 fms.

Sdg. Cup Sigbee Amt. Bot'm Sample 1 sample

Character of Bottom fine S; blk sh.

Thermom. { Make N.G. Cor'n { Instr. 7.7  
                  { No. 105015                    { Stem.

Bottom Reading 5-4° Cor'd Temp. 53.3

Temp. Surf. { 83° Time 5:40 } Air { 81°  
                  { 83° Time 6:15 }        { 83°

Density: Surf. --- fms.

Wind: Direction Variable Force 0-1

Baromet. 29.57 Amt. of Clouds 4 State of Sea 2

Weather bc

Direction and Force of Current { Surface  
  { Bottom

Tide ---

General Locality Siline Id (N) 7.80° N; Tagdelo Pt, Mindanao S 65° W, N of Mindanao.

Position 8° 49' 35" N 123° 34' 30" E.

Chart used: No. 4723 Ed'n

Drift: Direction S 17° E. Distance 1.0 mi.

Depth of Haul bottom.

Apparatus and Rig used 12' Tanner, 2 glass floats, 2 wing weights, 1 tail weight.

Time towing --- h. 20 m.

Remarks: ---

Deck Officer Mr. Johnson Recorder C.E. DeLong

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
A. M. Down.	Up.	A. M.		A. M. Down.	Up.	A. M.
5-23 00	5-25 00		0	5-33 00	6-22 40	
23 55	27 15		100	36 50	20 35	
24 50	26 30		200	40 50	17 40	
5-25 10	5-26 10	2-14 30	<del>300</del>	44 45	14 45	
			400	5 50 30	6 11 15	
			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			

Tagolo Lt S 65 Or  
12.7 m

Dredge } No. 5-5-42 Date, August 20, 1929  
Hydrog }

Sdg. Mch. Lucas Reel Lucas Shot/Lead 40 lbs.

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

Sdg. Cup Sigbee Amt. Bot'm Sample 1 draw

Character of Bottom fine S.; brk sh.

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

Bottom Reading 5.5 Cor'd Temp. 54.3

Temp. Surf. { 83° Time 6:45 } Air { 83°  
                  { 83° Time 7:25 }            { 80°

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

Wind: Direction Various Force 0-1

Baromet. 29.87 Amt. of Clouds 5 State of Sea 2

Weather bc

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

Tide \_\_\_\_\_

General Locality Sibira Id (N.) N 76° W, Mt. Silla

Mindanao, S 42° W; North of Mindanao

Position 8° 48' 30" N 123° 35' 30" E

Chart used: No. 4773 Ed'n \_\_\_\_\_

Drift: Direction S 25° W. Distance 1.4 mi

Depth of Haul bottom

Apparatus and Rig used As before

Time towing h. 20 m.

Remarks: Trawl traps carried away & net  
came up bottom side up &  
badly tangled. 1 Runner & beam  
badly bent. Net torn. Lost both  
glass floats.

Deck Officer Mr. Johnson Recorder C. E. ...

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
Q. M. Down.	Up.	Q. M.		Q. M. Down.	Up.	Q. M.
6 31 50	6 36 30		0	6 41 00	7 29 15	
32 50	35 40		100	44 50	26 15	
6 33 50	6 34 50		200	48 40	23 15	
			300	52 30	20 20	
			400	6 56 00	7 16 25	
			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			

T agolo Lt

S 70 M

13.2 m.

Dredge } No. 5543 Date, Aug. 20<sup>th</sup>, 1909  
Hydrog. }

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

Turns — Cor'n — Depth 162 fms.

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

Character of Bottom Sand.

Thermom. { Make N.Z. Cor'n { Instr. — .7  
                  { No. 108015                    { Stem. —

Bottom Reading 55.2 Cor'd Temp. 54.5

Temp. Surf. { 84 Time 8:50 A } Air { 85  
                  { 84 Time 9:30 A }        { 86.2

Density: Surf. — fms. —

Wind: Direction Variable Force 1

Baromet. 29.90 Amt. of Clouds 6 State of Sea S.

Weather hazy

Direction and Force of Current { Surface —  
  { Bottom —

Tide —

General Locality North of Mindanao.

Silene Id (N) N. 68 W. Mt. Silla Mindanao

Position Lat. 8° 47' 15" Long. 123° 35' 00"

Chart used: No. C.S. 4723 Ed'n —

Drift: Direction S. 20 W Distance 0.7

Depth of Haul Bottom.

Apparatus and Rig used 12' Tanner Trawl, 3 glass floats, 2 wing weights, 1 nail weight.

Time towing ~~was~~ h. 16<sup>30</sup> m.

Remarks: \* Heaved in very slowly. Bridle straps carried away, frame bent and net badly torn.

Deck Officer Mr. Hazard Recorder N. W. Under

SOUNDING WIRE.

DREDGING CABLE.

FMS.

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

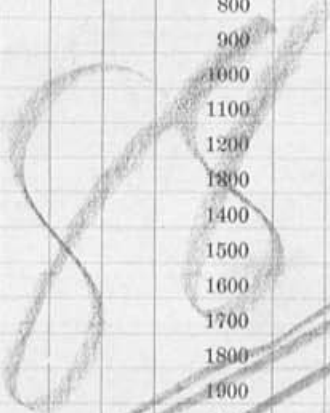
A. M. Down. Up. A. M.

8 44 25 8 48 45  
 45 30 47 50  
 8 46 10 8 47 10

16200

8 53 20 9 38 50  
 57 25 34 25  
 9 01 00 30 00  
 9 04 00 9 20 30\*

0  
100  
200  
300  
400  
500  
600  
700  
800  
900  
1000  
1100  
1200  
1300  
1400  
1500  
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2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000  
4100  
4200  
4300  
4400  
4500  
4600  
4700  
4800  
4900



845 w.

Tagolo Lt

S 75 M

12.5

Dredge No. 5544 Date, Sep. 6, 1909  
 Sdg. Mch. Lucas Reel 5 Shot 35 lbs.  
 Turns 759 Cor'n - Depth 759 fms.  
 Sdg. Cup Sigsbee Amt. Bot'm Sample 1 1/2 oz.  
 Character of Bottom fm. M. fine S  
 Thermom. { Make N.3. Cor'n { Instr. -  
 { No. 108015 { Stem. -  
 Bottom Reading 50.5 Cor'd Temp. 49.8  
 Temp. Surf. { 83° Time 11:18 a } Air { 82°  
 { 83° Time 11:39 a } { 82 1/2°  
 Density: Surf. \_\_\_\_\_ fms. \_\_\_\_\_  
 Wind: Direction SSW Force 2  
 Baromet. 29.88 Amt. of Clouds 9 State of Sea S  
 Weather bcz  
 Direction and Force of Current { Surface \_\_\_\_\_  
 { Bottom \_\_\_\_\_  
 Tide \_\_\_\_\_

General Locality NW of Mindanao  
Coronada Pt., Mindanao, S 37 W - Simd  
 Position 8°16'30" N - 122°26'35" E  
 Chart used: No. CS 4723 Ed'n \_\_\_\_\_  
 Drift: Direction N 49° W Distance 1.5 m.  
 Depth of Haul Intermediate, 600 fms.  
 Apparatus and Rig used 10' Inter.; double cone.

Time towing \_\_\_\_\_ h. 20 1/2 m.

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

Deck Officer Mr. Robinson Recorder Arndt  
Mr. Johnson C. E. Red Long



## SOUNDING WIRE.

a. M. DOWN.			UP. a. M.		
10	26	00	10	40	25
	27	00		39	40
	27	50		29	00
	28	45		38	20
	29	45		37	40
	30	50		37	00
	32	00		36	15
	33	10		35	30
10	33	50	10	34	50

FMS.

## DREDGING CABLE.

a. M. DOWN.			UP. a. M.		
10	48	30	12	10	10
	57	30		07	10
	55	55		04	05
	57	05	12	01	15
11	04	40		58	20
	07	10		54	55
	09	20		51	40
	11	40		48	10
	14	00		40	20
11	16	40	11	37	15

757

91

Angam Pt. Mindanao,

S 66 E.

Colorado Pt S 37 W

21.5 m

Dredge } No. ~~5-11~~ Date, Sept 15, 1909  
Hydrog. }

Sdg. Mch. Tanner Reel TN Shot 55 lbs.  
Ledd }

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

Sdg. Cup tallow on lead Amt. Bot'm Sample \_\_\_\_\_

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

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

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

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

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

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

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

Weather \_\_\_\_\_

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

Tide \_\_\_\_\_

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

Position \_\_\_\_\_

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

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

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

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

\_\_\_\_\_

\_\_\_\_\_

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

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

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Deck Officer \_\_\_\_\_ Recorder C. B. Hadley

11-1023

SOUNDING WIRE.

FMS.

DREDGING CABLE.

9 M. Down. Up. 9 M.

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

9 19 00  
19 35

- 0
- 100
- 200
- 300
- 400
- 500
- 600
- 700
- 800
- 900
- 1000
- 1100
- 1200
- 1300
- 1400
- 1500
- 1600
- 1700
- 1800
- 1900
- 2000
- 2100
- 2200
- 2300
- 2400
- 2500
- 2600
- 2700
- 2800
- 2900
- 3000
- 3100
- 3200
- 3300
- 3400
- 3500
- 3600
- 3700
- 3800
- 3900
- 4000
- 4100
- 4200
- 4300
- 4400
- 4500
- 4600
- 4700
- 4800
- 4900

Dredge } No. 6546 Date, Sept 15, 1909  
Hydrog. }

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

Turns 140 Cor'n Depth 114 fms.

Sdg. Cup yellow one lid Amt. Bot'm Sample plentiful

Character of Bottom fine Co. S.

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

Bottom Reading Cor'd Temp.

Temp. Surf. { 82° Time 9:35 } Air { 81°  
82° Time 10:00 } 83°

Density: Surf. fms.

Wind: Direction Various Force 1-3

Baromet. 29.81 Amt. of Clouds 5 to 10 State of Sea 2

Weather bcy - 0

Direction and Force of Current { Surface  
Bottom

Tide

General Locality Luzon S (S) S 88 W; Tubbataha Id (E) S 17° W; NE Gale Id

Position 6° 04' 45" N. 121° 20' 20" E

Chart used: No. C.S. 4572 Ed'n Sep/06

Drift: Direction S. 34° E. Distance 1.1 mi.

Depth of Haul bottom

Apparatus and Rig used 9' Tanner, 2 wing weights, 1 tail weight, 3 glass floats.

Time towing h. 16 m.

Remarks:

Deck Officer Mr. Johnson Recorder C. E. Long

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
A. M. Down.	Up.	A. M.		A. M. Down.	Up.	A. M.
9 24 40	9 29 30		0	9 52 50	10 00 40	
9 25 20	9 27 00		100	36 20	10 00 40	
9 25 40	9 26 10	140	<del>200</del>	40 20	57 35	
			210	9 40 50		
			300	9 43 00	9 56 50	
			220			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
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			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			

108

Guyangem (S) 288 m  
4 m



## SOUNDING WIRE.

FMS.

## DREDGING CABLE.

A. M. Down.		Up. A. M.		FMS.	A. M. Down.		Up. A. M.	
10	32 15	10	35 50		0	10	34 45	11
	33 10		35 00	100		44 00		16 50
10	33 35	10	34 35	200		48 20		13 45
				300	10	51 30	11	11 00
				400				
				500				
				600				
				700				
				800				
				900				
				1000				
				1100				
				1200				
				1300				
				1400				
				1500				
				1600				
				1700				
				1800				
				1900				
				2000				
				2100				
				2200				
				2300				
				2400				
				2500				
				2600				
				2700				
				2800				
				2900				
				3000				
				3100				
				3200				
				3300				
				3400				
				3500				
				3600				
				3700				
				3800				
				3900				
				4000				
				4100				
				4200				
				4300				
				4400				
				4500				
				4600				
				4700				
				4800				
				4900				

*Duyongand (N) S 75 W*

*4.7*





## SOUNDING WIRE.

FMS.

## DREDGING CABLE.

P M. Down.

Up. P M.

M. Down.

Up.

M.

1 23 10  
 23 50  
 1 24 10

0  
 100  
~~136~~  
~~170~~  
 200  
 300  
 400  
 500  
 600  
 700  
 800  
 900  
 1000  
 1100  
 1200  
 1300  
 1400  
 1500  
 1600  
 1700  
 1800  
 1900  
 2000  
 2100  
 2200  
 2300  
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 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. 3547 Date, Sept 15, 1909

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

Turns 155 Cor'n Depth 155 fms.

Sdg. Cup Sigbee Amt. Bot'm Sample Trace

Character of Bottom fine S.

Thermom. { Make K.T. Cor'n { Instr. 7  
                  { No. 108015                    { Stem. —

Bottom Reading 57° Cor'd Temp. 56.3

Temp. Surf. { 82 Time 1'40" Air { 84  
                  { 82 Time 2'10"                    { 84

Density: Surf. fms.

Wind: Direction SSW. Force 3-4

Baromet. 29.77 Amt. of Clouds 6 State of Sea S

Weather b'f'g.

Direction and Force of Current { Surface —  
  { Bottom —

Tide —

General Locality N. Jolo Island.

Position Sijangan Id. (NE) of 34 E. Panganaad Id.  
Lat 6° 9' 20" Long 121° 13' 40"

Chart used: No. 4542 Ed'n Apr/03

Drift: Direction S 32 E. Distance 1.5

Depth of Haul Bottom

Apparatus and Rig used 9 Tanner, 2  
swing weights, 1 tail  
weight, 3 glass floats.

Time towing h. 20 m.

Remarks:

Deck Officer Mr. Hazard Recorder H.W. Crider

## SOUNDING WIRE.

M. Down. Up. F. M.

1	29	00	1	33	00
	30	00		32	00
1	30	40	1	31	30

FMS.

155

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

## DREDGING CABLE.

M. Down. Up. F. M.

1	39	00	2	21	20
	43	00		18	35
	46	45		15	15
	50	10		12	10
1	51	00	2	11	00

(mid) S. 25 W.

Gujangan (R.E) S 34 E  
4.9 m

✓

Dredge } No. 5548 Date, Sep 17, 1909  
Hydrog. }  
Sdg. Mch. Lucas Reel L Shot/Lead 35 lbs.  
Turns 232 Cor'n - Depth 252 fms.  
Sdg. Cup Sigbee Amt. Bot'm Sample 1/4 oz.  
Character of Bottom Sbk. Sx

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

Bottom Reading 54.7° Cor'd Temp. 53.5

Temp. Surf. { 82° Time 8:22 a } Air { 82°  
               { 83° Time 8:50 a }       { 82.50

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

Wind: Direction Variable Force 1

Baromet. 29.87 Amt. of Clouds 8 State of Sea S

Weather Bcm.

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

Tide \_\_\_\_\_

General Locality NW of Jolo Id.

Pangasinan Id. (S) N62E - Branga Pt.,

Position 6°00'20" N - 120°45'35" E.

Chart used: No. 4542 Ed'n -

Drift: Direction N55W Distance 1.5 m.

Depth of Haul Bottom

Apparatus and Rig used 9' Tanner, 3 glass floats; 3 weights; mudbag.

Time towing - h. 29 1/2 m.

Remarks:

Deck Officer { Mr. Hazard Recorder Arutit -  
                  { Mr. Robinson

SOUNDING WIRE.			FMS.	DREDGING CABLE.				
A. M. Down.	Up.	A. M.		A. M. Down.	Up.	A. M.		
7	52 00	7	57 30	0	8	01 20	9	03 20
	53 10		56 30	100		05 00		09 00 25
	54 05		55 50	200		08 50		57 35
7	54 30	7	55 30	232 300		12 50		54 30
				400		18 00		51 30
				450 500		8 20 00	8	49 30
				600				
				700				
				800				
				900				
				1000				
				1100				
				1200				
				1300				
				1400				
				1500				
				1600				
				1700				
				1800				
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				2500				
				2600				
				2700				
				2800				
				2900				
				3000				
				3100				
				3200				
				3300				
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				3500				
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				3700				
				3800				
				3900				
				4000				
				4100				
				4200				
				4300				
				4400				
				4500				
				4600				
				4700				
				4800				
				4900				

Jolo Id., S 55 E

Biringa Pt (Jolo) S 55 E

8.6 m

Dredge } No. 5549 Date, Sep. 17, 1909  
Hydrog. }

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

Turns 263 Cor'n - Depth 263 fms.

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

Character of Bottom S. Glob. For.

Thermom. { Make T.V.3. Cor'n { Instr. 77  
                  { No. 108015                    { Stem.

Bottom Reading 53° Cor'd Temp. 52.3

Temp. Surf. { 83° Time 9:40 a. } Air { 83°  
                  { 83° Time 9:57 a. }        { 84°

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

Wind: Direction Variable Force 1-2

Baromet. 29.90 Amt. of Clouds 8 State of Sea S

Weather. *bcn*

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

Tide \_\_\_\_\_

General Locality NW of Iolo I.

Pangasinan I (S) N 67 E - Bunga Pt S 76 E

Position 6° 01' 15" N - 120° 44' 20" E.

Chart used: No. 4542 Ed'n -

Drift: Direction N 23 E Distance 1.1 m.

Depth of Haul Bottom

Apparatus and Rig used 9' Tanner as before.

Time towing - h. 20 1/2 m.

Remarks:

Deck Officer Mr. Torrance Recorder J. M. Kil -

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
A. M. Down.	Up.	A. M.		A. M. Down.	Up.	A. M.
9 06 10	9 14 20		0	9 14 50	10 12 00	
07 10	11 15		100	18 50	09 05	
08 05	10 30		200	22 25	06 15	
9 08 40	9 09 40	263	300	26 30	03 30	
			400	30 30	10 00 30	
			500	35 25	57 30	
			<del>520</del>	9 36 15	9 56 45	
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
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			2500			
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			2700			
			2800			
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			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Bunga Pt S 56 E

10.2 m





SOUNDING WIRE.

FMS.

DREDGING CABLE.

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

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

10 17 50 10 24 00  
 19 00 23 00  
 19 55 22 00  
 10 20 20 10 21 20

10 24 00 11 30 10  
 31 00 27 00  
 35 00 24 00  
 38 40 21 00  
 42 10 18 00  
 45 30 15 00  
 10 46 10 11 14 00

520000

- 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

113

Bunga Pt

S 51 E

10.3 m

Dredge } No. 5551 Date, Sept 17, 1909  
Hydrog. }

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

Turns 193 Cor'n — Depth 193 fms.

Sdg. Cup Sieber Amt. Bot'm Sample 1/3 oz

Character of Bottom fine s.

Thermom. { Make T.S. Cor'n { Instr. -7  
                  { No. 104015                    { Stem.

Bottom Reading 54° Cor'd Temp. 53.3

Temp. Surf. { 83° Time 1:36 } Air { 83°  
                  { 83° Time 2:30 }            { 84 1/2

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

Wind: Direction S.W. Force 2

Baromet. 29.83 Amt. of Clouds 10 State of Sea S

Weather oz

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

Tide \_\_\_\_\_

General Locality Tuhau Id (W) 75° E.; Sulado Id (E) 83° E.; S.W. Jolo Id.

Position 5° 54' 45" N.; 120° 44' 24" E.

Chart used: No. 4542 C.C. Ed'n

Drift: Direction S. 15° E. Distance 1.1 mi.

Depth of Haul bottom

Apparatus and Rig used 9' Tanner, 2 glass floats, 2 ring weights, 1 tail weight.

Time towing h. 20 m.

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

Deck Officer Mr. Johnson Recorder C. B. Long

SOUNDING WIRE.				FMS.	DREDGING CABLE.								
P.M. Down.		Up.	P.M.		P.M. Down.		Up.	P.M.					
1	43	45	1	45	52	0	1	51	30	2	41	00	
	44	50		47	50	100		55	00		38	00	
1	45	55	1	46	55	193	200	58	10		35	10	
						300		2	01	45		32	00
						400			06	20		28	40
						425	500	2	07	20	2	27	30
						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							

*Subadel (E)*

*S 36 E*

*5.6 m*

Dredge } No. 555-2 ✓ Date, Sept 17, 1909  
Hydrog. }

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

Turns \_\_\_\_\_ Cor'n \_\_\_\_\_ Depth 190 (catm) fms.

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

Character of Bottom No mud No specimen

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

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

Temp. Surf. { 83° Time 3:10 } Air { 83°  
83° Time 3:40 } 83°

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

Wind: Direction Various Force 2

Baromet. 29.50 Amt. of Clouds 10 State of Sea 2

Weather 07

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

Tide \_\_\_\_\_

General Locality Julian Id (N) 75°2' E. Sulado

Id (E.) 83° E; S. Ob. folo Id

Position 5°54' 30" N.; 120°44' 15" E

Chart used: No. 4542 Ed'n \_\_\_\_\_

Drift: Direction S 23° E. Distance 1.5 mi

Depth of Haul bottom

Apparatus and Rig used As before except

used mud bag

Time towing h. 20 1/2 m.

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

Deck Officer Mr. Johnson Recorder C. B. Long

SOUNDING WIRE.			FMS.	DREDGING CABLE.			
M. DOWN.	UP.	M.		P. M. DOWN.	UP.	P. M.	
			0	3	02 00	3	52 05
			100		05 45		49 00
			200		09 05		46 00
			300		12 20		42 50
			400		16 25		39 25
			<del>426-500</del>	3	17 40	3	38 10
			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				

*Insulated (C)*

*3396*

*5.6 m*

Dredge } No. 5553 Date, Sept. 17, 1909  
 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 7:30 P } Air { 82  
 { 82 Time 6:00 A } { 81  
 Density: Surf. \_\_\_\_\_ fms. \_\_\_\_\_  
 Wind: Direction S. Force 2-3  
 Baromet. 29.85 Amt. of Clouds 10 State of Sea S  
 Weather clear.

Direction and Force of Current { Surface strong  
 { Bottom yellow anchor  
 Tide changed at 8:09 pm & 6:16 am.  
 General Locality North of Sulade Id.  
 Sulade Id. (N.W.) S 45 E Sulade Id.  
 Position Lat 5° 03' 00" Long 120° 46' 30"  
 Chart used: No. 4542 Ed'n \_\_\_\_\_  
 Drift: Direction Ship at anchor Distance \_\_\_\_\_  
 Depth of Haul Surface.  
 Apparatus and Rig used 10' intermediate  
 used as surface

Time towing 10 h. 40<sup>45</sup> m.  
 Remarks: Ship at anchor

Deck Officer Mr. Polans Recorder T. W. Corder.  
 11-1023

SOUNDING WIRE.

M. Down. Up. M.

FMS.

DREDGING CABLE.

M. Down. Up. M.

- 0
- 100
- 200
- 300
- 400
- 500
- 600
- 700
- 800
- 900
- 1000
- 1100
- 1200
- 1300
- 1400
- 1500
- 1600
- 1700
- 1800
- 1900
- 2000
- 2100
- 2200
- 2300
- 2400
- 2500
- 2600
- 2700
- 2800
- 2900
- 3000
- 3100
- 3200
- 3300
- 3400
- 3500
- 3600
- 3700
- 3800
- 3900
- 4000
- 4100
- 4200
- 4300
- 4400
- 4500
- 4600
- 4700
- 4800
- 4900

*7 28 25 6 9 00*

*W. 117*

*117*

*W. 117 E.*

*Subade I (117) S 4 E*

*5. m*

Dredge } No. 5554 ✓ Date, Sept 19<sup>th</sup>, 1909  
Hydrog. }  
Sdg. Mch. Tanner Reel T.V. Steel Lead 35 lbs.  
Turns 28 Cor'n — Depth 25 fms.  
Sdg. Cup Arming Amt. Bot'm Sample Trace  
Character of Bottom Co. S.

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

Bottom Reading — Cor'd Temp. —

Temp. Surf. { 84 Time 9:30 A } Air { 83  
              { 84 Time 9:40 A }     { 83

Density: Surf. — fms. —

Wind: Direction S.E. Force 3

Baromet. 29.87 Amt. of Clouds 6 State of Sea S

Weather bcg.

Direction and Force of Current { Surface —  
  { Bottom —

Tide —

General Locality South of Jolo Id.  
Cabalion Pt. Jolo Id. N. 76 E. Silangan  
Position Lat 5° 52' 27" Long 120° 52' 18"

Chart used: No. 4542 Ed'n —

Drift: Direction N. 74 W Distance 0.2

Depth of Haul Bottom

Apparatus and Rig used 6' McCormick trawl.

Time towing h. 5<sup>45</sup> m.

Remarks: Net torn.

Deck Officer Mr. Johnson Recorder H.W. Coker



## SOUNDING WIRE.

## DREDGING CABLE.

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
A. M. Down.	Up.	A. M.		A. M. Down.	Up.	A. M.
9 18 25	9 19 30		0	9 21 50	9 39 15	
9 18 40	9 18 50		25 100	9 28 30	9 34 15	
			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			

Pt. Gold. N. & W.

Cabalian Pt (Gold) N 76 E  
3.8 m

Dredge } No. 5555 Date, Sept 18, 1909  
Hydrog. }  
Sdg. Mch. Tanner Reel TW Shot Lead 35 lbs.  
Turns 39 Cor'n — Depth 34 fms.  
Sdg. Cup Arming Amt. Bot'm Sample Trace  
Character of Bottom Cos. S.

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

Bottom Reading — Cor'd Temp. —

Temp. Surf. { 83 Time 11:00 A } Air { 82  
               { 83 Time 11:15 A }     { 82

Density: Surf. — fms. —

Wind: Direction South Force 3

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

Weather hazy

Direction and Force of Current { Surface —  
  { Bottom —

Tide —

General Locality South of Jolo Id.

Tubinganton Pt. Jolo Id. N. 56 W.

Position Lat 5° 51' 15" Long 120° 58' 35"

Chart used: No. 4542 Ed'n —

Drift: Direction N. 75 E Distance 0.5

Depth of Haul Bottom

Apparatus and Rig used As before.

Time towing h. 3<sup>55</sup> m.

Remarks:

Deck Officer Mr. Johnson Recorder H. W. Bider

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	A. M.		A. M. Down.	Up.	A. M.
10 58 55	11 00 30		0	11 4 40	11 15 25	
10 59 10	10 59 20		35 40 <sup>18</sup>	11 8 50	11 12 45	
			200			
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			75400			
			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			

Patric Pt. Jolo Id. 71.7500

Tubingantar Pt (Jolo) 71.5600

4. 2 m

Dredge } No. 5556 Date, Sept 18, 1909  
Hydrog. }  
Sdg. Mch. Hand Reel Shot Lead 14 lbs.  
Turns — Cor'n — Depth 14 1/2 fms.  
Sdg. Cup — Amt. Bot'm Sample —  
Character of Bottom —

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

Bottom Reading — Cor'd Temp. —

Temp. Surf. { 83 Time 11:35 A } Air { 82  
              { 83 Time 11:40 A }     { 82

Density: Surf. — fms. —

Wind: Direction South Force 3

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

Weather hazy.

Direction and Force of Current { Surface —  
  { Bottom —

Tide —

General Locality South of Tolo Id.

Leonabal Id. (low) S 48 E. Point

Position Lat 5° 30' 55" Long. 121° 00' 00"

Chart used: No. 4542 Ed'n —

Drift: Direction N. 68 E. Distance 0.3

Depth of Haul Bottom.

Apparatus and Rig used As before

Time towing h. 3 1/2 m.

Remarks: Accumulator registered as much as 5 tons and the cable parted losing trawl and 15 fathoms of cable.

Deck Officer Mr. Johnson Recorder H. W. Crider

## SOUNDING WIRE.

FMS.

## DREDGING CABLE.

M. Down. Up. M.

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

FMS.	A. M. Down.	Up.	A. M.
0	11 34	10	11 44
100	11 36	20	11 39
200			
300			
400			
500			
600			
700			
800			
900			
1000			
1100			
1200			
1300			
1400			
1500			
1600			
1700			
1800			
1900			
2000			
2100			
2200			
2300			
2400			
2500			
2600			
2700			
2800			
2900			
3000			
3100			
3200			
3300			
3400			
3500			
3600			
3700			
3800			
3900			
4000			
4100			
4200			
4300			
4400			
4500			
4600			
4700			
4800			
4900			

Sounding by  
hand

120

Pt. Jolo Id. N. 68 E

Teonabal Id (SM) S 48 E

1.6 m

Dredge } No. 5557 Date, Sep. 18, 1909  
Hydrog. }

Sdg. Mch. Hand Lead Reel Shot/Lead 14 lbs.

Turns — Cor'n — Depth 13-14 fms.

Sdg. Cup — Amt. Bot'm Sample —

Character of Bottom S.Co.

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

Bottom Reading — Cor'd Temp. —

Temp. Surf. { 82° Time 3:00 p. } Air { 83°  
                  { 82° Time 3:05 p. }         { 83°

Density: Surf. — fms. —

Wind: Direction SSE Force 2

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

Weather Bcs

Direction and Force of Current { Surface —  
  { Bottom —

Tide —

General Locality South of Job Id.

Tomabal I (W) SW - Tubingatan

Position 5° 57' 30" N - 121° 01' 00" E

Chart used: No. 4542 Ed'n —

Drift: Direction SW Distance 0-1 m

Depth of Haul Bottom

Apparatus and Rig used 6' McCormick; tailnet

Time towing — h. 5 m.

Remarks:

Deck Officer Mr. Johnson Recorder Arntvil

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		A. M. Down.	Up.	A. M.
			0	7 55	10 3	05 00
			45 100	7 58	00 3	03 00
			200			
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

122

Pt. N 71 W

Thomabal (m) S 1° W  
 1. m

Dredge } No. 5558 Date, Sep 18, 1909  
Hydrog. }  
Sdg. Mch. Hauled Reel Shot/Lead 14 lbs.  
Turns — Cor'n — Depth 14 1/2 fms.  
Sdg. Cup — Amt. Bot'm Sample —  
Character of Bottom Coral

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

Temp. Surf. { 82° Time — } Air { 83°  
              { 82° Time 3.18 p. }     { 83°

Density: Surf. — fms. —

Wind: Direction SSE Force 2

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

Weather bry

Direction and Force of Current { Surface —  
  { Bottom —

Tide —

General Locality South of Jolo Is

Teomabal I (NW) South - Tubingantan

Position 5°57'33" N - 121°00'58" E

Chart used: No. 4542 Ed'n —

Drift: Direction S44W Distance 0.4 m

Depth of Haul Bottom

Apparatus and Rig used As before

Time towing — h. 3 m.

Remarks: —

Deck Officer Mr. Johnson Recorder F. Tuttle



SOUNDING WIRE.

M. Down. Up. M.

FMS.

DREDGING CABLE.

M. Down. Up. M.

0	3	15	10	3	22	30
100	3	17	10	3	20	10
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						

123

Pt. N 71 W

Teomabal (N) South  
1.1 m

Dredge } No. 5559 Date, Sep. 18, 1909  
Hydrog. }

Sdg. Mch. Hand Lead Reel Shot Lead 14 lbs.

Turns - Cor'n - Depth 13 fms.

Sdg. Cup - Amt. Bot'm Sample -

Character of Bottom Co. -

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

Bottom Reading - Cor'd Temp. -

Temp. Surf. { 82° Time 3:36 p. } Air { 83°  
              { 82°                   }     { 83°

Density: Surf. - fms. -

Wind: Direction SSE Force 2-1

Baromet. 29.76 Amt. of Clouds 7 State of Sea S

Weather hazy

Direction and Force of Current { Surface -  
  { Bottom -

Tide -

General Locality South of Jolo Is.

Teomabal I (nr) S 8° E - Tabingantam

Position 5° 51' 36" N - 121° 00' 45" E

Chart used: No. 4542 Ed'n -

Drift: Direction SW Distance 0.6 m

Depth of Haul Bottom

Apparatus and Rig used as before

Time towing - h. 6 1/2 m.

Remarks:

Deck Officer Mr. Johnson Recorder A. H. H. H. H. H.

SOUNDING WIRE.

FMS.

DREDGING CABLE.

M. Down. | Up. | M.

M. Down. | Up. | M.

0	3	33	30	1	40	20
45	3	35	10	3	41	40
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						

124

pt., N 71° W.

Tomabal (M) S E  
1.1 m

Dredge } No. 5500 Date, Sep 18, 1909  
Hydrog. }

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

Turns Cor'n Depth 14 fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom No Spec

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

Bottom Reading Cor'd Temp.

Temp. Surf. { 82° Time 4:03 } Air { 82 1/2°  
82° Time 4:15 }

Density: Surf. fms.

Wind: Direction S.E. Force 1-2

Baromet. 29.76 Amt. of Clouds 9 State of Sea

Weather bc

Direction and Force of Current { Surface Bottom

Tide

General Locality Terminal Id (26) S 3° W; Tubing  
autan Pt, Id S 76° W; S of Id.

Position 5° 52' 00" N 121° 01' 06" E

Chart used: No. 4542 C.S. Ed'n

Drift: Direction S 20° E Distance .5 mi

Depth of Haul bottom

Apparatus and Rig used as before

Time towing h. 9 m.

Remarks: Out carried away while on  
bottom. Every thing lost except  
bridle.

Deck Officer Mr Hazard Recorder C. B. Long

SOUNDING WIRE.

DREDGING CABLE.

M. DOWN. UP. M.

FMS.

M. DOWN. UP. M.

0	4	01	30	4	15	00
<del>50</del> 100	4	03	45	4	12	45
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						

125

Teomabal (m) 1300  
1.6 m

Dredge } No. 55-21 Date, Sept 15<sup>th</sup> 1900

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

Turns \_\_\_\_\_ Cor'n \_\_\_\_\_ Depth 10 1/2 fms.

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

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

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

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

Temp. Surf. { Time \_\_\_\_\_ Air { 81° Time \_\_\_\_\_

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

Wind: Direction Various Force 0-1

Baromet. 29.50-29.5 Amt. of Clouds 9 to 3 State of Sea S.

Weather bczw.

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

Tide \_\_\_\_\_

General Locality Temple Id (N 21) S 36° W; Teonatal Id (E) S 43° E, S of Jolo.

Position 5° 30' 45" N 121° 01' 15" E

Chart used: No. 4542 CG Ed'n \_\_\_\_\_

Drift: Direction \_\_\_\_\_ Distance - 1

Depth of Haul surface

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

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

Remarks: Ship at anchor

Deck Officer Mr. Johnson Recorder C. H. Long

SOUNDING WIRE.				FMS.	DREDGING CABLE.		
M. Down.	Up.	M.	P. M. Down.		Up.	A. M.	
				0	Sept 18	Sept 19	
				100	6 13 00	6 00 00	
				200			
				300			
				400			
				500			
				600			
				700			
				800			
				900			
				1000			
				1100			
				1200			
				1300			
				1400			
				1500			
				1600			
				1700			
				1800			
				1900			
				2000			
				2100			
				2200			
				2300			
				2400			
				2500			
				2600			
				2700			
				2800			
				2900			
				3000			
				3100			
				3200			
				3300			
				3400	(2 m) 236 m		
				3500			
				3600	.2 m		
				3700			
				3800			
				3900			
				4000			
				4100			
				4200			
				4300			
				4400			
				4500			
				4600			
				4700			
				4800			
				4900			

126

From abal (2 m) 236 m

.2 m





## SOUNDING WIRE.

M. Down. | Up. | M.

FMS.

## DREDGING CABLE.

# M. Down. | Up. | M.

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

129

H (w) S. 26 W.

Tanner Pt (Jolo) 8406

1.1 m

#	M. Down.	Up.	M.
61	720	5148	20

Dredge } No. 5563 Date, Sept 21, 1909  
Hydrog. }

Sdg. Mch. Lucas Reel Shot 36 lbs.

Turns Cor'n Depth 224 fms.

Sdg. Cup Sigsbee Amt. Bot'm Sample Trace

Character of Bottom fine C.S.

Thermom. { Make N.Z. Cor'n { Instr. 5.7  
                  { No. 108015                    { Stem.

Bottom Reading 53 Cor'd Temp. 52.3

Temp. Surf. { 83 Time 10:30 A } Air { 83  
                  {                                    { Time 11:05 A }                    { 83

Density: Surf. fms.

Wind: Direction E.N. Force 3

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

Weather bc.

Direction and Force of Current { Surface  
  { Bottom

Tide

General Locality North of Tami Tami Id.

Dampin Id. (N) N 79 W. Dassen Id. (S)

Position Lat. 5° 48' 12" Long. 120° 30' 48"

Chart used: No. 4722 Ed'n

Drift: Direction N. 6 W Distance 1.3

Depth of Haul Bottom

Apparatus and Rig used 9' Tanner, 3 glass floats, 2 wing weights, 1 tail weight. Mud bag.

Time towing h. 18 m.

Remarks:

Deck Officer Mr. Johnson Recorder H. H. C. C.

SOUNDING WIRE.

FMS.

DREDGING CABLE.

SOUNDING WIRE.			DREDGING CABLE.		
A. M. Down.	Up.	A. M.	A. M. Down.	Up.	A. M.
10 22 20	10 27 30	30	10 30 30	11 18 20	20
23 20	26 40	100	34 15	15 15	15
24 15	25 50	200	38 20	12 10	10
10 24 35	10 25 35	<del>224 300</del>	42 30	09 05	05
		400	46 00	06 10	10
		<del>500</del>	10 47 00	11 05 00	00
		600			
		700			
		800			
		900			
		1000			
		1100			
		1200			
		1300			
		1400			
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		1800			
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		2000			
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		2400			
		2500			
		2600			
		2700			
		2800			
		2900			
		3000			
		3100			
		3200			
		3300			
		3400			
		3500			
		3600			
		3700			
		3800			
		3900			
		4000			
		4100			
		4200			
		4300			
		4400			
		4500			
		4600			
		4700			
		4800			
		4900			

134

S49 W.

Dammid (m) R 79 Pr  
6. m

Dredge } No. 5564 Date, Sept 21, 1909.

Hydrog. } Lucas Reel Shot 35 lbs.

Turns Cor'n Depth 236 fms.

Sdg. Cup Sigabee Amt. Bot'm Sample Trace

Character of Bottom as before

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

Bottom Reading 53 Cor'd Temp. 52.3

Temp. Surf. { 83 Time 11:45 a. Air { 84  
83° Time 12:15 p. } 83°

Density: Surf. fms.

Wind: Direction E x N. Force 2-3

Baromet. 29.88 Amt. of Clouds 3 State of Sea S.

Weather bc.

Direction and Force of Current { Surface  
Bottom

Tide

General Locality North of Tawi Tawi

Dammi I (N) S 85 W - Dasaam I (S)

Position 5°50'00" N - 120°31'00" E

Chart used: No. 4722 Ed'n

Drift: Direction N 90° E Distance 1.5 m.

Depth of Haul Bottom

Apparatus and Rig used As before except mud bag.

Time towing - h. 28 m.

Remarks:

Deck Officer Mr. Johnson Recorder Mr. Hazard

Mr. Cridley

## SOUNDING WIRE.

M. Down.			Up. A. M.		
11	21	30	11	26	30
	22	20		25	40
	23	10		25	00
11	23	30	11	24	30

FMS.

236

300

400

450

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

## DREDGING CABLE.

M. Down.			Up. M.		
11	28	30	12	26	30
	32	25		24	30
	36	15		21	40
	39	30		18	45
	43	25		15	50
11	45	20	12	13	55

135

S 40° W.

Dammid (m) 885 (m)  
6.1

$$\begin{array}{r}
 1670 \\
 \quad 6 \\
 \hline
 52 \overline{) 10028} \quad (2 \\
 \underline{1056} \\
 \hline
 \end{array}$$

$$120 - \frac{4}{3} \times 100 \frac{1}{3}$$

$$-120 - \frac{20}{128} \times 100$$

$$5 \overline{) 30} \\ \underline{6}$$

$$\begin{array}{r} 12-73-55 \\ 11-45-20 \\ \hline 22-35 \end{array}$$

$$\begin{array}{r} 11-37-75 \\ 16-40 \\ \hline 20-35 \end{array}$$