USGS DREDGE LOG

No Recovery

SHIP/LEG F7-87-SC

STATION # 15

DREDGE # D15

DATE JD 344 LOCAL 12-10-87

TIME GMT 2024-2235 LOCAL _____

DEPTH INTERVAL(m) 2505-3449m

DEPTH(m)corrected _____

LATITUDE 31 43.29 TO 120 43.58'

LONGITUDE 31 42.96 TO 120 43.38

TOTAL WEIGHT: DREDGE 4 CRUST _____

PERCENTAGE OF ROCK COVERED BY CRUST _____

PERCENT BROKEN FROM: OUTCROP _____ TALUS _____

THICKNESS OF MN CRUST: MAXIMUM _____ MINIMUM _____ AVERAGE _____

DOMINANT SURFACE TEXTURE _____

SUBSTRATE LITHOLOGY _____

NODULES PRESENT _____

REMARKS: No Recovery.

Sampled 3420m – 3400m USGS DREDGE LOG

341

Julian day 344

local date 12/10/87

(month/day/year)

CRUISE I.D. F7 87 SC

STATION NO. 15

DREDGE NO. 15

Chief Scientist Hein

Marine Tech on Watch O TOOLE

	ON STATION	DREDGE ON BOTTOM	DREDGE OFF BOTTOM	OFF STATION
GMT.	1920	2024	2235	
LATITUDE	31° 42.49'	31 43.29'	31 42.95	
LONGITUDE	120° 43.11'	120 43.58	120 43.38	
H_2O DEPTH (M)		3420m	3445	

OPERATION (ON/OFF BOTTOM, BITES)	GMT	DEPTH (M)	WIRE OUT (M)	TENSION	COMMENTS
BAG IN WATER	1920				
	1941				WILL LET OUT 1000 M WIRE TIL OVER SPOT
					THEN LET OUT SCOPE
ON Bottom	2024	3420	4000		
bite 2.8	2054		4000	2.8	43
3.7	0648	2505	"	3.7	temporarily hung up broke off at 2.4 about 2 min later
2.9 2.9	2109	35-3200m		2.9 2.9	31° 43.83, 120 43.95
4.2 3.7 3.4 3.3	2112	~3220m		4.2, marginal 3.3	depth record ambiguous 31° 43.85, 120° 43.97
	2115	3210 m			Hooked
	2123			5.6	5.6 tonpull Hung-up
					backing down to try to break free
	2145	3255m	3800		
	2150	3270	3748		
	2235	3449			off Bottom 17m scope held fast

OTHER COMMENTS: – GETTING BLOWN AROUND

– hung up & backing down.

– Most likely Rx from → 3420 – 3400

→ 3445 – 3400m

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No Recovery

USGS DREDGE LOG

SHIP/LEG F7 87 SC

STATION # 16

DREDGE # D16

DEPTH INTERVAL(m) 2895- 2950 m

DEPTH(m)corrected _____

DATE JD 344 LOCAL 12-10-87

TIME GMT 0149-0640 LOCAL _____

LATITUDE 31° 44.89' TO 31° 44.53'

LONGITUDE 120° 44.28' TO 120° 45.17'

TOTAL WEIGHT: DREDGE _____ CRUST _____

PERCENTAGE OF ROCK COVERED BY CRUST _____

PERCENT BROKEN FROM: OUTCROP _____ TALUS _____

THICKNESS OF MN CRUST: MAXIMUM _____ MINIMUM _____ AVERAGE _____

DOMINANT SURFACE TEXTURE _____

SUBSTRATE LITHOLOGY _____

NODULES PRESENT _____

REMARKS: Lost Dred on Bag & 500 m of wire

Page 1 of 2

local date 12-10-87 (month / day / year)

CRUISE I.D. F7 87 SC

STATION NO. 16

DREDGE NO. 16

Chief Scientist Hein

Marine Tech on Watch O'Lane

	ON STATION	DREDGE ON BOTTOM	DREDGE OFF BOTTOM	OFF STATION
GMT	345/0045	0149Z	0640	
LATITUDE	31° 44.10'	31°44.89	31° 44.53	
LONGITUDE	120°44.08'	120°44.28'	120° 45.17	
H_2O DEPTH (M)	2940m	2895	2905	

0115 31°44.29 120°44.20

OPERATION (LON/OFF BOTTOM, BITES)	GMT	DEPTH (M)	WIRE OUT (M)	TENSION	COMMENTS
	0045				ON STATION
	0056	2935	2050		
	0059	2925	2500		
	0135	2905	3852		CABLE OUT AND TAKING UP SLACK
	0142				
On Bottom	0149	2895	3852		ARE WE BEEN ON BOTTOM SINCE 0135?
	0310		4350		Paying out
	0320				Breaking off
	0345	2950	3650	4.8	4.8 Break
	0346			5.2	5.2 Break off
	0354	2940	3898	3.5	3.8
	0358	2950	3871	2.9	3
	04007	2950	3850	3.8	
	0409	2950	3795		
	0427	2950	3690	3.9	
	0430	2940	3668		
	0436	2940	3632	3.4, 3.4	Break off
	6440			5.2	+ Break off
	0457	2940	3511	3.1	+ 3 breaks
	0503	2940		3.6	Breaks
	0507	2935	3460	3.4	

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OTHER COMMENTS:

540 m — wire marked at 540m

Wire splayed

CRUISE I.D. F7 87 SC

STATION NO. 16

DREDGE NO. 16

Ben Seamont

Page 2 of 2

local date 12-10-87 (month/day/year)

Chief Scientist Hein

Marine Tech on Watch Corky

	ON STATION	DREDGE ON BOTTOM	DREDGE OFF BOTTOM	OFF STATION
GMT	345/0045	0149Z		
LATITUDE	31 44.16	31° 44.89'		
LONGITUDE	120 44.08	120° 44.28'		
H_2O DEPTH (M)		2895		

OPERATION (ON/OFF BOTTOM, BITES)	GMT	DEPTH (M)	WIRE OUT (M)	TENSION	COMMENTS
	0522		3400		Still hung up
Pulling in -	0551	2910	3250		" "
	0558	2900	3210	4.2	HUNG UP Free
	0601	2910	3189	3.1	HUNG UP Free
	0608	2910	3157		Free
	0610	2910		3.5	Hung up 3.7 3.6 3.5
	0611	2910	3140	4.3	break off - Free
	0615	2910	3100		STUCK AGAIN bitch!
	0620	2910	3100		
	0628	2900	3046	5.3	Break off
	0634	2905	3000		STUCK - WINCHING BACK
	0637	2920	2960		
	[illegible]				off bottom

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OTHER COMMENTS:

Lost bag near surface w/ 540 meter out!

USGS DREDGE LOG

Ben

SHIP/LEG F7-87-SC

STATION # 16

DREDGE # D17

DEPTH INTERVAL(m) 2925 - 2875

DEPTH(m)corrected _____

DATE JD 345 LOCAL Dec 11, 1987

TIME GMT 1104 LOCAL 304

LATITUDE 31°44.20 TO 31°44.54

LONGITUDE 120°44.12 TO 120°44.17

TOTAL WEIGHT: DREDGE 900kg CRUST 75kg

PERCENTAGE OF ROCK COVERED BY CRUST 100%

PERCENT BROKEN FROM: OUTCROP 50 TALUS 50

THICKNESS OF MN CRUST: MAXIMUM 42 mm MINIMUM patina AVERAGE 8 mm

DOMINANT SURFACE TEXTURE smooth

SUBSTRATE LITHOLOGY basalt - Volcaniclastic Breccias, hyaloclastite

NODULES PRESENT None

REMARKS: [illegible] None [illegible] Too [illegible]

21 [illegible] of Basalts overboard = 550 kg

local date 12/11/87
(month/day/year)

CRUISE I.D. F7 87 SC
STATION NO. 16
DREDGE NO. 17

Chief Scientist Hein
Marine Tech on Watch O'TOOLE

	ON STATION	DREDGE ON BOTTOM	DREDGE OFF BOTTOM	OFF STATION
GMT	1004	1104	1307	1359
LATITUDE	31° 43.90	31° 44.20'	31° 44.54	31° 45.13'
LONGITUDE	120° 43.94	120° 44.12'	120° 44.87	120° 44.47'
H_2O DEPTH (M)		2925 m	2875 m	

OPERATION	LON/OFF BOTTOM, BITES)	GMT	DEPTH (M)	WIRE OUT (M)	TENSION	COMMENTS
BAG IN WATER		1004	2990			
		1030	2970			LOWERING
		1154	[illegible]	2870		[illegible]
Lowering dredge		1101	2935	~~2870~~ 2880		~~paying~~ paying out scope
ON BOTTOM		1104	2925	3000		
		1122		3600		SCOPE IS OUT. WILL MOVE UP THE LINE.
		1130	2890	3600		SLACK IS TAKEN UP.
		1145	~~2905~~ 2905			
		1200	2915			
		1210				LOOKS LIKE TEN BITES WILL START S[illegible]
		1215	2935			HAS BEEN CHIPPING AWAY FOR A WHI[illegible]
		1219			2.8	~~HAS~~ FIRST "TEN" BITE
		1221				HUNG UP.
		1230	2940			BACKING DOWN!
		1245				MAYBE BROKE OFF; MAX TENSION 5.5 HUNG AGAIN
		1251	2900	3150		
		1300				
OFF BOTTOM		1307	2875	~~2890~~		MAX. PULL 6.5
		1330				COMING UP.
DREDGE ON DECK		1359				1/2 FULL

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OTHER COMMENTS: LOOKS LIKE A PREGNANT COW COMING ON DECK