USGS DREDGE LOG

No Recovery

SHIP/LEG EW-87-SC

STATION # 12

DREDGE # D12

DEPTH INTERVAL(m) 3250 – 3275

DEPTH(m)corrected _____

DATE JD 343 LOCAL 12/9/87

TIME GMT 1408 LOCAL 1

LATITUDE 31° 53.60 TO 31° 53.91

LONGITUDE 120° 0.19 TO 120° 0.27

TOTAL WEIGHT: DREDGE ϕ 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

the bed to back off slips

Sampled _____ USGS DREDGE LOG Julian day 345

LITTLE JOE SMT. local date 12/9/87 (month/day/year)

CRUISE I.D. F7 87 SC

STATION NO. 12

DREDGE NO. D12

Chief Scientist Hein

Marine Tech on Watch O'TOOLE

	ON STATION	DREDGE ON BOTTOM	DREDGE OFF BOTTOM	OFF STATION
GMT	343/1307	1408	1647	
LATITUDE	31°53.45	31°53.60	31°53.45'	
LONGITUDE	119°59.98	120° 0.19	120° 0.37'	
H_2O DEPTH (M)		3250	3275	

p. 1 of 2

OPERATION (ON/OFF BOTTOM, BITES)	GMT	DEPTH (M)	WIRE OUT (M)	TENSION	COMMENTS
DREDGE IN WATER	1307	3360			DREDGE IN WATER
	1322				WILL LET OUT 4000M OF WIRE.
	1330	3360.			LOWERING
	1400	3310			STILL LOWERING.
	1404	3310	3200		
DREDGE ON BOTTOM	1408	3250	3333		ON BOTTOM
	1430	3280			STARTING DOWN LINE TAKING UP SLACK.
	1435				STARTING TO FEEL INCREASES IN TENSION
	1446	3010			ROUTINE
	1457	2965		2.6	SMALL BITES
	1459	2955			STUCK?
	1501				BROKE OFF AT 3.2, 3.2
	1503				STUCK AGAIN
	1507			3.8	BROKE OFF AT 3.8 AND BIT AGAIN
	1509				DROPPED AT 3.5
	1515	~2755			ROUTINE. HIGH POINT ON SLOPE
	1530	2675			BEEN HUNG UP FOR A WHILE. WILL PULL TO 5.0 IF NO GO THEN BACK DOWN.
	1545	2675			TUGGING DID NOT RELEASE, ARE NOW MANEUVERING.
	1600	2970			
	1615	3070			STILL
	1617				OFF? YES, but hung up again

OTHER COMMENTS: Dredging on down slope of Little Joe Smt.

LMB Ltd

N/R

Sampled _____ USGS DREDGE LOG

julian day 345
local date 12/9/87
(month/day/year)

CRUISE I.D. F7 87 SC
STATION NO. 12
DREDGE NO. d12

Chief Scientist Hein
Marine Tech on Watch O'TOOLE

	ON STATION	DREDGE ON BOTTOM	DREDGE OFF BOTTOM	OFF STATION
GMT	343/1307	1408	1647	
LATITUDE	31°53.45	31°53.60	31°53.51	31°54.1'
LONGITUDE	119°59.98	120° 0.19	120° 0.27	120° 0.52'
H_2O DEPTH (M)		3250m		

p2 of 2

OPERATION (ON/OFF BOTTOM, BITES)	GMT	DEPTH (M)	WIRE OUT (M)	TENSION	COMMENTS
	1631	3150			ROUTINE, STILL WINDING UP & MANEUVERING
	1645				ROUTINE, STILL WINDING UP & MANEUVERING "
OFF BOTTOM	1647	3275	3215		OFF BOTTOM!!!
	1700	3215			HAULING UP.
	1732	3040			HAULING UP
ON DECK	1745				ON DECK - EMPTY.

OTHER COMMENTS:

LMB Ltd

USGS DREDGE LOG

SHIP/LEG F7 87 SC

STATION # 13

DREDGE # D 13

DEPTH INTERVAL(m) 2155-2840m

DEPTH(m)corrected _____

DATE JD 343 LOCAL 12-9-87

TIME GMT 1757-1842Z LOCAL _____

LATITUDE 31°54.38' TO 120° 1.73'

LONGITUDE 31° 54.27' TO 120° 1.49'

TOTAL WEIGHT: DREDGE 3 Kg CRUST 2.5 Kg

PERCENTAGE OF ROCK COVERED BY CRUST 100%

PERCENT BROKEN FROM: OUTCROP 100% TALUS Φ

THICKNESS OF MN CRUST: MAXIMUM 8 MINIMUM 26 AVERAGE 18

DOMINANT SURFACE TEXTURE _____

SUBSTRATE LITHOLOGY Basalt Clasts in Breccia; Sedimentary Breccia

NODULES PRESENT No

REMARKS: _____

Sampled 2580-2520 USGS DREDGE LOG

Julian day
local date 12/9/87
(month / day / year)

CRUISE I.D. F7 87 SC
STATION NO. 13
DREDGE NO. #13

Chief Scientist Hein
Marine Tech on Watch O'TOOLE

	ON STATION	DREDGE ON BOTTOM	DREDGE OFF BOTTOM	OFF STATION
GMT.	1757Z	1842Z	343/2228	344 2314
LATITUDE	31°54.15'	31° 54.38'	31°54.27'	31 54.77
LONGITUDE	120° 1.05'	120° 1.73'	120° 1.49'	120 1.40
H_2O DEPTH (M)		2520	2580	

OPERATION (ON/OFF BOTTOM, BITES)	GMT	DEPTH (M)	WIRE OUT (M)	TENSION	COMMENTS
DREDGE IN WATER	1757	2840			[illegible]
(letting out wire	1822		3400?		
"	1830				ROUTINE
on Bottom "	1842	2520			WILL PAY OUT TO 3200m SCOPE
Scope is up	1859		3200		SCOPE IS OUT.
Taking out slack	1900	2365			GOING UP THE LINE.
Taking up slack	1915	2285			SLACK IS TAKEN UP.
Dredging	~~1928~~ 1928	2250		1-2.4, 2.3	THE NIBBLES BEGIN.
	1931			3,	HUNG UP.
Kicking Astern	1938			4.2	BROKE OFF OF A 4.2 BITE.
"	1939				HUNG UP. 4.2 BROKE OFF
Pulling	1941	2165			
"	1942			LOT	major bite - hung up pulled off
"	1954	2155			Hung up again
Wire		2170	3180		
	2000Z	2175			HUNG up over your own
	2057	2410	2775		HUNG UP
	2100	2405	2755		
	2115m	2420	2691		Anchored! 8.2 7.6 8.4
	2210Z	2570	2627		slow steady tugs ↑
off bottom	2229	2580	2610		Free - Broke loose off bottom
off station	2314				off STATION

OTHER COMMENTS: But the Balloon dregt Bag

RX@ 2520 - 2580m

USGS DREDGE LOG

SHIP/LEG F7 87 5C

STATION # Sta 14

DREDGE # D 14

DEPTH INTERVAL(m) 2175-2530

DEPTH(m)corrected _____

DATE JD 344 LOCAL 12-9-87

TIME GMT 0111 – LOCAL _____

LATITUDE 31° 54.63' TO 120° 2.21'

LONGITUDE 31° 54.47' TO 120° 1.89

TOTAL WEIGHT: DREDGE 25 Kg CRUST 10 Kg

PERCENTAGE OF ROCK COVERED BY CRUST 100%

PERCENT BROKEN FROM: OUTCROP 100% TALUS 0

THICKNESS OF MN CRUST: MAXIMUM 65 MINIMUM 5 AVERAGE 25

DOMINANT SURFACE TEXTURE smooth bulbous. one is botriodal. Granular on both

SUBSTRATE LITHOLOGY Basalt, phosphorite, glass

1 large basalt boulder w/ glass rind + thick crust; 1 phosphorite cobble-bored, ≈ 1 phosphorite breccia; clast supported, phosphorite clasts + cement; 3 stramatolite-like crusts on basalt pebbles

NODULES PRESENT 0

REMARKS:

Sampled 2285 - 2445 USGS DREDGE LOG

Julian day 344/0028
local date 12-9-87
(month/day/year)

CRUISE I.D. F7 87 SC
STATION NO. 14
DREDGE NO. 14

Chief Scientist Hein
Marine Tech on Watch Corky

	ON STATION	DREDGE ON BOTTOM	DREDGE OFF BOTTOM	OFF STATION
GMT	344/0028	0111	0443	
LATITUDE	31° 54.41	31°54.63	31° 54.47	
LONGITUDE	120 1.70°	120°2.21	120° 1.89	
H_2O DEPTH (M)	2435 m	2285 m	2445	

OPERATION (ON/OFF BOTTOM, BITES)	GMT	DEPTH (M)	WIRE OUT (M)	TENSION	COMMENTS
JD 344/0028	0028	2530	2		Dredge in water
0106	0106	2300	2200		
0109			2275		
~~0111~~	0111	2285			on Bottom
	0116		2500		
	0147			2.5	Bite
	0148			3.4	Bite
	0149			3.7, 3.8, 4.5	Bite
	0150			5.5, 5.9, 7.4	Bite
	0152			7.0, 7.4 →	Broke off
	0153		3051	3.0	
	0155		3051	4.0	
	0200		3051		
	0207				Bringing wire in
	0215	2175	2988		
	0217				Hung up.
	0253	2190	2700		" "
	0354	2440			6.53 still hung
344/0443		2445			OFF the Bottom!
	0526				on Deck

OTHER COMMENTS: NEW BAG; new weak link; new wet

Hung up again - we actually dredged Drumhill!