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APPENDIX I: FEATURES ASSOCIATED WITH SUBAERIAL EXPOSURE HORIZONS

Depth (m)	Color of crust-like surface or horizon *	Unlaminated surface	Laminated surface	Shell layer above horizon	Black pebbles	Lithoclasts/ coated grains	Vugs	Pipes/ cavities	Facies change above & below horizon	Aluminum ppm †
UNDA										
21.4	Red brown	♦		♦	♦		♦	♦	♦	1600
24.1	Gray brown			♦		♦	♦	♦	♦	3390
30.5	Light brown	♦		♦	♦	♦	♦		♦	1200
32.2	Red brown	♦		♦	♦	♦	♦	♦	♦	520
33.2	Brown		♦	♦	♦	♦	♦		♦	1200
36.2	Light brown	♦		♦	♦	♦	♦		♦	2500
37.7	Brown		♦	♦	♦	♦	♦		♦	2860
38.7	Brown		♦	♦	♦	♦	♦		♦	2320
51.1	Brown	♦		♦	♦	♦	♦		♦	3040
56.0	Brown		♦	♦	♦	♦	♦		♦	1610
58.9	Brown		♦			♦	♦		♦	1610
63.8	Red brown		♦	♦		♦	♦		♦	2500
64.6	Brown		♦	♦		♦	♦		♦	1260
CLINO										
22.6	Red stain*					♦	♦			2580
24.7	Black		♦	♦	♦	♦	♦		♦	1090
33.8	Dark brown	♦		♦	♦	♦			♦	450
39.8	Brown	♦		♦	♦	♦	♦		♦	1240
42.7	Brown	♦				♦	♦		♦	940
55.9	Light orange			♦	♦		♦		♦	2150
61.7	Yellow gray			♦	♦	♦	♦		♦	780
63.1	Dark brown					♦			♦	1240
75.6*				♦	♦		♦		♦	1390
101	Light orange			♦	♦	♦			♦	1540

* Nearly all of the horizons had crust-like surfaces, however, those that did not were identified by a change in color or staining of the rocks in addition to the other features designated in the table. One horizon did not have staining or a surface (Clino 75.6m)

† Aluminum concentrations are below 400 ppm in unaltered limestone.

APPENDIX 2. CLINO TRACE ELEMENT DATA

Depth mbmp	Depth fbmp	Fe ppm*	Al ppm*
22.54	73.90	32	0
22.57	74.00	5927	12575
22.61	74.10	3799	8470
22.67	74.30	106	26
24.34	79.80	7	26
24.71	81.00	822	N.D.
24.71	81.00	748	1086
24.74	81.10	451	632
26.24	86.00	40	0
28.37	93.00	81	329
30.60	100.30	81	480
30.63	100.40	57	177
30.63	100.40	81	329
30.93	101.40	77	0
33.77	110.70	152	193
33.80	110.80	1769	1500
34.20	112.10	0	0
36.76	120.50	0	0
37.34	122.40	0	0
39.84	130.60	131	26
39.85	130.62	550	1238
39.87	130.70	106	353
39.89	130.75	131	480
40.24	131.90	155	26
40.27	132.00	32	0
40.33	132.20	81	329
40.34	132.25	303	329
40.36	132.30	57	1389
40.45	132.60	0	329
40.48	132.70	0	1541
40.50	132.75	254	N.D.
40.57	133.00	0	0
42.68	139.90	180	935
42.71	140.00	0	177
42.74	140.10	32	935
52.17	171.00	155	N.D.
52.20	171.10	7	632
55.80	182.90	32	207
55.86	183.10	32	2147
56.13	184.00	254	632

APPENDIX 2. CLINO TRACE ELEMENT DATA

Depth mbmp	Depth fbmp	Fe ppm*	Al ppm*
56.16	184.10	106	329
56.19	184.20	451	632
61.74	202.40	0	783
61.78	202.50	57	329
63.09	206.80	0	60
63.12	206.90	0	480
63.15	207.00	229	1238
75.63	247.90	180	1389
75.66	248.00	0	329
85.27	279.50	0	0
85.27	279.50	0	26
85.30	279.60	0	329
85.33	279.70	106	329
92.13	302.00	0	0
97.83	320.70	7	0
97.93	321.00	106	329
98.02	321.30	7	329
98.14	321.70	7	329
100.98	331.00	427	1541
101.28	332.00	N.D.	1086
110.43	362.00	180	646
120.20	394.00	57	783
129.04	423.00	155	480
138.71	454.70	32	329
147.96	485.00	32	480

Note: Trace elements measured using a Perkin Elmer atomic absorption spectrophotometer.

* 0 = below detection limit.

N.D. = no data

APPENDIX 3. CLINO STABLE ISOTOPE DATA

Depth mbmp	Depth fbmp	Carbon del-^{13}C	Oxygen del-^{18}O
21.96	72.00	2.52	-1.71
22.42	73.50	2.23	-2.18
22.55	73.93	-0.94	-1.75
22.57	74.00	0.55	-1.36
22.68	74.33	-0.55	-2.94
24.35	79.83	-3.83	-3.45
24.56	80.50	0.26	-2.55
24.71	81.00	-4.66	-2.40
24.73	81.08	0.01	-2.05
26.54	87.00	-0.27	-2.04
27.84	91.25	0.21	-2.30
28.37	93.00	0.06	-3.21
30.61	100.33	0.63	-2.92
30.63	100.42	-0.58	-2.60
30.81	101.00	0.76	-2.07
31.73	104.00	-0.66	-2.90
33.80	110.80	-0.77	-2.82
33.86	111.00	0.11	-2.52
36.91	121.00	-2.19	-2.53
36.91	121.00	-1.96	-2.71
39.80	130.62	-0.61	-2.86
39.86	130.67	-0.91	-3.03
40.24	131.92	-2.28	-3.12
40.27	132.00	-2.79	-3.20
40.27	132.00	-2.25	-2.45
40.32	132.17	-2.43	-2.67
40.34	132.25	-2.50	-2.69
40.37	132.33	-2.81	-2.64
40.45	132.58	-1.67	-2.47
40.47	132.67	-2.10	-2.77
40.50	132.75	-1.40	-2.62
40.57	133.00	-1.59	-2.37
42.69	139.93	-1.21	-2.72
42.71	140.00	-1.48	-2.46
42.71	140.00	-1.43	-2.54
42.73	140.08	-0.68	-2.71
46.14	151.25	-0.73	-2.99
46.22	151.50	-0.80	-2.88
46.37	152.00	-0.32	-3.00
52.17	171.00	-0.12	-2.96

APPENDIX 3. CLINO STABLE ISOTOPE DATA

Depth mbmp	Depth fbmp	Carbon del-^{13}C	Oxygen del-^{18}O
52.19	171.08	-1.24	-2.55
52.65	172.58	-1.47	-2.64
52.68	172.67	-0.92	-2.61
55.29	181.25	-1.40	-2.53
55.52	182.00	-0.53	-2.65
55.81	182.93	-0.65	-2.61
55.85	183.08	-1.07	-2.36
56.00	183.58	-0.33	-2.04
56.13	184.00	-1.09	-2.43
56.16	184.08	-1.35	-2.51
56.18	184.17	-2.71	-1.61
56.34	184.67	-0.79	-2.13
57.20	187.50	-1.18	-2.34
58.27	191.00	-0.88	-3.08
58.57	192.00	-0.10	-2.71
58.85	192.92	-0.40	-2.45
61.32	201.00	-0.83	-2.52
61.62	202.00	-0.46	-2.43
61.75	202.42	-2.22	-2.77
61.78	202.50	0.36	-2.49
61.93	203.00	-1.24	-2.63
63.07	206.75	-2.42	-2.71
63.10	206.83	0.63	-3.27
63.12	206.92	-1.03	-3.06
63.15	207.00	-1.35	-2.68
63.15	207.00	-0.84	-2.66
63.45	208.00	-0.63	-2.56
63.76	209.00	-0.62	-2.68
64.06	210.00	-0.63	-2.46
64.37	211.00	-0.25	-2.67
64.67	212.00	0.22	-2.92
66.20	217.00	-0.04	-2.84
67.42	221.00	-0.45	-2.78
67.50	221.25	-0.31	-2.65
70.47	231.00	0.03	-2.88
70.52	231.17	-0.34	-2.72
73.22	240.00	-0.93	-2.75
73.75	241.75	0.63	-2.89
73.83	242.00	0.16	-2.43
74.13	243.00	0.36	-2.67

APPENDIX 3. CLINO STABLE ISOTOPE DATA

Depth mbmp	Depth fbmp	Carbon del-^{13}C	Oxygen del-^{18}O
74.44	244.00	0.37	-2.62
74.77	245.08	-0.04	-2.58
75.05	246.00	-0.10	-2.77
75.30	246.83	-0.09	-2.57
75.63	247.92	-0.27	-1.97
75.63	247.92	0.57	-2.87
75.66	248.00	-0.78	-2.84
75.94	248.92	-0.30	-2.63
76.24	249.92	-0.98	-2.26
76.57	251.00	-0.48	-2.72
76.82	251.83	-0.06	-2.60
77.10	252.75	-0.44	-2.61
77.41	253.75	-0.32	-2.69
78.71	258.00	0.05	-2.73
78.99	258.92	-0.33	-2.77
79.32	260.00	-0.30	-2.83
79.60	260.92	-0.63	-2.91
80.03	262.33	-0.16	-3.13
80.36	263.42	-0.38	-2.85
81.76	268.00	-1.40	-2.71
85.27	279.50	-0.24	-2.85
85.29	279.58	-1.43	-3.68
85.32	279.67	-0.41	-2.96
86.46	283.42	-0.18	-3.23
87.78	287.75	-0.50	-2.90
89.08	292.00	0.06	-2.62
91.82	301.00	-0.24	-2.60
95.00	311.42	-0.17	-2.96
96.42	316.08	0.11	-2.82
97.82	320.67	-0.53	-3.00
97.93	321.00	-0.11	-2.57
98.03	321.33	0.05	-2.80
98.08	321.50	-0.72	-2.46
98.23	322.00	-0.43	-2.64
98.84	324.00	-0.61	-3.04
100.98	331.00	-0.46	-3.07
101.28	332.00	-0.67	-2.78
103.75	340.08	-0.76	-2.71
104.33	342.00	-0.68	-3.07
106.77	350.00	-0.88	-3.35

APPENDIX 3. CLINO STABLE ISOTOPE DATA

Depth mbmp	Depth fbmp	Carbon del-^{13}C	Oxygen del-^{18}O
107.48	352.33	-0.72	-3.00
108.60	356.00	-0.32	-2.57
110.43	362.00	-0.45	-2.94
111.96	367.00	-0.11	-2.46
114.53	375.42	-0.36	-2.85
115.92	380.00	-0.16	-2.08
117.45	385.00	-0.18	-2.63
118.97	390.00	0.14	-1.47
122.33	401.00	0.34	-0.94
123.55	405.00	0.12	-1.22
125.69	412.00	0.25	-2.21
127.36	417.50	0.23	-2.05
129.04	423.00	0.31	-1.96
130.57	428.00	0.28	-1.26
132.17	433.25	0.20	-2.03
133.18	436.58	0.58	-1.15
135.45	444.00	0.40	-2.02
138.70	454.67	0.35	-1.76
140.58	460.83	0.60	-0.87
143.69	471.00	1.25	0.26
146.74	481.00	1.57	-0.52
147.96	485.00	2.25	-0.67
149.61	490.42	1.75	-0.34
149.94	491.50	2.96	1.25

Note: Stable isotope ratios were measured fro
powdered bulk samples on a Finnigan-MAT 25
mass spectrometer at the University of Miami

APPENDIX 4. UNDA TRACE ELEMENT DATA

Depth mbmp	Depth fbmp	Fe ppm*	Al ppm*
18.61	61.00	252	0
18.91	62.00	374	179
19.22	63.00	206	179
19.52	64.00	252	714
20.13	66.00	99	536
20.23	66.30	199	87
20.74	68.00	218	0
21.05	69.00	38	268
21.38	70.08	956	1429
21.41	70.17	1844	1607
21.43	70.25	2456	5179
21.46	70.33	5211	12321
21.46	70.33	5178	11607
21.66	71.00	283	536
21.91	71.83	1232	3393
21.94	71.92	1262	1964
21.96	72.00	1568	1964
22.17	72.67	1109	1607
22.19	72.75	1232	1607
22.22	72.83	344	536
22.57	74.00	497	714
22.65	74.25	457	1897
22.65	74.26	761	940
23.79	78.00	457	1259
24.10	79.00	808	3386
24.71	81.00	598	2216
25.17	82.50	1170	1071
25.32	83.00	1017	1607
25.47	83.50	619	2500
26.08	85.50	987	714
26.24	86.00	926	1964
26.39	86.50	681	1964
30.33	99.42	313	179
30.48	99.92	932	1202
30.63	100.42	527	179
31.12	102.00	163	173
31.12	102.00	273	87
31.88	104.50	160	0
32.03	105.00	772	179
32.21	105.58	309	516

APPENDIX 4. UNDA TRACE ELEMENT DATA

Depth mbmp	Depth fbmp	Fe ppm*	Al ppm*
32.24	105.67	283	536
32.26	105.75	803	0
32.41	106.25	68	357
33.00	108.17	160	0
33.15	108.67	712	1202
33.20	108.83	497	0
33.25	109.00	457	893
33.35	109.33	497	0
33.38	109.42	803	1429
34.93	114.50	383	0
36.20	118.67	497	2500
36.85	120.80	107	727
37.52	123.00	374	2500
37.73	123.67	742	2857
37.88	124.17	1813	2857
38.72	126.92	1660	2679
38.87	127.42	1293	2321
39.02	127.92	772	1250
41.06	134.60	317	727
43.87	143.80	328	173
46.83	153.50	163	0
48.60	159.30	294	834
50.13	164.33	864	2321
50.28	164.83	527	2321
50.44	165.33	252	2143
51.07	167.42	99	3036
51.20	167.83	129	0
51.23	167.92	191	0
51.86	170.00	60	621
53.45	175.20	84	195
55.83	183.00	99	2500
55.95	183.42	129	1607
56.08	183.83	129	1786
56.44	185.00	271	727
58.72	192.50	221	1964
58.88	193.00	742	1607
58.90	193.08	160	2500
59.03	193.50	681	1607
61.04	200.08	200	621
61.95	203.08	154	408

APPENDIX 4. UNDA TRACE ELEMENT DATA

Depth mbmp	Depth fbmp	Fe ppm*	Al ppm*
63.78	209.08	313	1607
63.81	209.17	527	2500
63.83	209.25	68	2143
63.91	209.50	99	1153
64.42	211.17	99	940
64.55	211.58	38	514
64.57	211.67	1538	1259
64.60	211.75	191	408
64.73	212.17	283	408
66.86	219.17	130	195
69.25	227.00	107	408
71.71	235.08	130	514
72.00	236.00	1205	408
72.30	237.00	292	688
76.27	250.00	154	408
82.98	272.00	163	0
87.81	287.83	154	408
88.60	290.42	107	408
94.54	309.90	154	302
97.93	321.00	247	302
105.86	347.00	341	302
112.19	367.75	107	89
118.18	387.40	341	408
120.65	395.50	144	0

Note: Trace elements measured using a Perkin Elmer atomic absorption spectrophotometer.

* 0 = below detection limit.

APPENDIX 5. UNDA STABLE ISOTOPE DATA

Depth mbmp	Depth fbmp	Carbon del-^{13}C	Oxygen del-^{18}O
18.61	61.00	-1.72	-3.50
18.91	62.00	-1.69	-3.58
19.22	63.00	-2.48	-3.34
19.52	64.00	0.50	-3.09
19.83	65.00	0.13	N.D.
20.13	66.00	-1.26	-3.57
20.44	67.00	-0.35	-3.26
20.74	68.00	0.04	-3.32
21.05	69.00	0.31	-3.28
21.38	70.08	-1.62	-3.75
21.41	70.17	-1.75	-2.86
21.43	70.25	-3.18	-3.43
21.46	70.33	-3.69	-3.18
21.66	71.00	-3.13	-3.42
21.91	71.83	-3.92	-3.37
21.94	71.92	-6.36	-3.05
21.96	72.00	-5.23	-3.89
22.17	72.67	-3.71	-4.23
22.19	72.75	-5.58	-3.95
22.22	72.83	-5.09	-3.52
22.40	73.42	-2.95	-3.68
22.57	74.00	-2.79	-3.87
22.65	74.25	-5.66	-3.39
22.65	74.25	-4.58	-3.90
22.88	75.00	-0.85	-3.37
23.18	76.00	-2.46	-3.92
23.49	77.00	-5.60	-3.93
23.79	78.00	-4.61	-3.51
23.79	78.00	-4.23	-3.38
24.10	79.00	-4.60	-4.00
24.10	79.00	-4.72	-3.57
24.71	81.00	-4.90	-4.05
24.71	81.00	-4.31	-3.53
25.02	82.00	-5.73	-3.53
25.17	82.50	-5.46	-3.41
25.32	83.00	-5.86	-3.30
25.47	83.50	-6.00	-3.79
25.63	84.00	-5.54	-3.69
25.63	84.00	-5.82	-3.67
26.08	85.50	-6.10	-3.85

APPENDIX 5. UNDA STABLE ISOTOPE DATA

Depth mbmp	Depth fbmp	Carbon del-^{13}C	Oxygen del-^{18}O
26.24	86.00	-6.51	-3.27
26.39	86.50	-5.53	-3.59
26.85	88.00	-2.36	-3.16
27.15	89.00	-5.59	-3.86
27.76	91.00	-3.16	-3.44
28.07	92.00	-1.97	-2.98
28.27	92.67	-1.87	-3.01
28.37	93.00	-2.22	-3.32
28.68	94.00	-2.67	-3.36
28.98	95.00	-1.72	-3.17
29.29	96.00	-2.55	-3.12
29.59	97.00	-2.59	-3.38
29.90	98.00	-1.66	-2.93
30.33	99.42	-2.60	-3.24
30.48	99.92	-3.09	-3.19
30.51	100.00	-2.75	-3.15
30.63	100.42	-2.96	-3.25
30.81	101.00	-3.95	-3.40
31.12	102.00	-2.64	-3.39
31.12	102.00	-2.83	-3.49
31.42	103.00	-1.93	-2.76
31.88	104.50	-3.40	-3.46
32.03	105.00	-2.93	-3.49
32.21	105.58	-4.89	-3.49
32.24	105.67	-0.67	-4.82
32.26	105.75	-5.24	-4.33
32.41	106.25	-1.60	-4.81
32.64	107.00	-2.73	-3.55
33.00	108.17	-2.84	-4.69
33.15	108.67	-5.46	-4.53
33.20	108.83	-5.60	-3.67
33.25	109.00	-2.00	-1.71
33.35	109.33	-5.50	-4.21
33.38	109.42	-7.36	-4.37
33.56	110.00	-2.05	-2.87
33.56	110.00	-5.70	-3.45
33.86	111.00	-2.25	-2.84
34.17	112.00	-5.28	-3.81
34.47	113.00	-1.23	-3.61
34.78	114.00	-0.40	-3.22

APPENDIX 5. UNDA STABLE ISOTOPE DATA

Depth mbmp	Depth fbmp	Carbon del-^{13}C	Oxygen del-^{18}O
34.93	114.50	-2.29	-3.23
35.08	115.00	0.91	-3.23
35.39	116.00	-2.50	-3.78
35.69	117.00	-3.55	-4.00
36.00	118.00	1.40	-2.10
36.20	118.67	-4.95	-4.58
36.30	119.00	-2.86	-3.48
36.61	120.00	-5.26	-3.97
36.86	120.83	-4.49	-3.32
36.91	121.00	-4.68	N.D.
36.91	121.00	-4.74	-3.90
37.52	123.00	-3.76	-4.53
37.73	123.67	-5.18	-3.77
37.88	124.17	-4.20	-3.62
38.13	125.00	-5.54	-3.89
38.44	126.00	-4.00	-3.60
38.70	126.92	-3.77	-3.35
38.87	127.42	-4.10	-3.35
39.35	129.00	-3.48	-3.72
39.66	130.00	-3.25	-3.54
39.66	130.00	-2.79	-3.24
40.57	133.00	-2.20	-3.38
40.88	134.00	-1.41	-2.82
41.06	134.58	-2.20	-2.73
41.18	135.00	-1.83	-2.89
43.62	143.00	-1.37	-3.34
43.62	143.00	-2.13	-3.51
43.85	143.75	-1.63	-2.94
43.93	144.00	-1.64	-3.16
44.23	145.00	-1.84	-3.28
46.67	153.00	-3.27	-3.83
46.67	153.00	-2.52	-3.09
46.98	154.00	-3.52	-3.72
47.28	155.00	-2.21	-3.41
48.51	159.00	-2.61	-3.60
48.61	159.33	-2.14	-3.07
48.81	160.00	-1.65	-3.33
49.12	161.00	-2.38	-3.24
49.42	162.00	-1.59	-3.24
49.73	163.00	-2.40	-3.25

APPENDIX 5. UNDA STABLE ISOTOPE DATA

Depth mbmp	Depth fbmp	Carbon del-^{13}C	Oxygen del-^{18}O
49.88	163.50	-2.56	-3.19
50.10	164.33	-1.78	-3.11
50.64	166.00	-1.90	-3.07
51.10	167.42	-2.65	-2.94
51.56	169.00	-1.35	-3.28
51.86	170.00	-2.78	-3.32
52.65	172.58	-1.31	-2.85
53.08	174.00	-2.18	-3.39
53.08	174.00	-3.00	-3.09
53.44	175.17	-2.30	-3.24
53.69	176.00	-1.09	-3.41
54.00	177.00	-2.32	-3.20
54.30	178.00	-2.05	-3.80
54.61	179.00	-2.54	-3.50
56.00	183.42	-3.90	-2.86
56.13	184.00	-2.41	-3.26
56.44	185.00	-2.23	-2.98
56.44	185.00	-2.48	-2.94
56.74	186.00	-2.79	-2.98
58.27	191.00	-2.34	-3.15
58.90	193.00	-4.33	-2.64
59.03	193.50	-4.71	-3.15
59.18	194.00	-4.86	-3.67
60.71	199.00	-1.06	-3.30
61.01	200.00	-2.51	-3.58
61.04	200.08	-2.20	-3.65
61.32	201.00	-1.50	-3.83
61.62	202.00	-1.50	-4.08
61.93	203.00	-1.35	-4.27
61.95	203.08	-1.54	-3.86
62.23	204.00	-0.55	-4.20
63.76	209.00	-4.46	-3.69
63.78	209.08	-3.68	-3.17
63.81	209.17	-4.08	-3.10
63.83	209.25	-3.09	-3.79
63.91	209.50	-2.35	-3.91
64.06	210.00	-2.50	-3.73
64.37	211.00	-4.10	-3.85
64.37	211.00	-2.34	-3.65
64.42	211.17	-2.90	-3.71

APPENDIX 5. UNDA STABLE ISOTOPE DATA

Depth mbmp	Depth fbmp	Carbon del-^{13}C	Oxygen del-^{18}O
64.55	211.58	-0.23	-3.12
64.57	211.67	-4.30	-3.71
64.60	211.75	-2.71	-3.20
64.67	212.00	-0.70	-3.80
64.73	212.17	-0.47	-3.13
64.98	213.00	-0.15	-3.34
65.28	214.00	-2.56	-3.34
65.59	215.00	-0.19	-3.87
65.89	216.00	-1.39	-3.90
66.20	217.00	-1.74	-4.10
66.50	218.00	-0.09	-4.34
66.81	219.00	-2.24	-3.91
66.86	219.17	-2.67	-3.49
68.64	225.00	-1.47	-4.17
68.94	226.00	-2.31	-4.11
69.25	227.00	-3.06	-4.01
69.25	227.00	-2.84	-4.00
69.25	227.00	-2.76	-3.98
71.69	235.00	-2.96	-4.33
72.00	236.00	-1.84	-2.90
72.00	236.00	-2.36	-3.44
72.30	237.00	-2.80	-3.38
74.13	243.00	-1.64	-3.39
74.44	244.00	-3.58	-3.82
75.66	248.00	-2.36	-4.21
75.96	249.00	-2.32	-4.29
76.27	250.00	-1.54	-3.36
76.27	250.00	-1.75	-3.33
76.57	251.00	-1.13	-2.92
78.71	258.00	-2.30	-3.51
79.01	259.00	-2.86	-2.97
79.32	260.00	-0.64	-2.78
79.62	261.00	-1.18	-3.05
79.62	261.00	-1.43	-2.90
79.93	262.00	-0.94	-3.26
80.23	263.00	-1.14	-3.27
81.15	266.00	-1.80	-3.54
81.45	267.00	-2.41	-3.41
81.76	268.00	-0.63	-2.86
82.06	269.00	-0.74	-2.96

APPENDIX 5. UNDA STABLE ISOTOPE DATA

Depth mbmp	Depth fbmp	Carbon del-^{13}C	Oxygen del-^{18}O
82.37	270.00	-0.69	-2.56
82.60	270.75	-1.64	-3.02
82.67	271.00	-1.58	-3.13
82.98	272.00	-0.66	-2.60
83.59	274.00	-0.50	-2.71
83.89	275.00	-0.56	-2.35
84.20	276.00	-1.28	-2.97
84.81	278.00	-1.44	-2.66
86.64	284.00	-0.86	-2.23
86.94	285.00	-1.04	-2.61
87.25	286.00	-0.40	-2.50
87.55	287.00	-0.84	-2.52
87.81	287.83	-0.78	-2.51
87.86	288.00	-0.64	-2.56
88.16	289.00	-0.67	-2.64
88.47	290.00	-0.89	-2.52
89.69	294.00	-1.62	-2.95
89.99	295.00	0.23	-2.41
90.30	296.00	0.20	-2.46
90.68	297.25	-0.09	-2.32
95.79	314.00	-0.06	-1.86
99.15	325.00	-0.62	-1.26
101.28	332.00	-0.73	-2.69
105.09	344.50	-0.18	-2.43
108.17	354.58	0.55	-1.35

Note: Stable isotope ratios were measured fror
powdered bulk samples on a Finnigan-MAT 25
mass spectrometer at the University of Miami
N.D. = no data

APPENDIX 6. CORE DRILLING DEPTHS

	UNDA m (ft)	CLINO m (ft)
Mud pit (above sea level)	5.20 (17)	7.32 (24)
Water depth	6.71 (22)	7.63 (25)
Soft sediment thickness	2.16 (7)	4.57 (15)
Mud pit to top of core	18.61 (61)	21.35 (70)
Total depth (below mud pit)	454.20 (1489)	677.30 (2222)