GROUP 1 DOLOMITE

SAMPLE	METERS FROM TOP	ROCK TYPE	CL	% DOLOMITE (VIS. EST.)	δ18O	δ13C	MOLE% CaCO3
LC 59	0.0	F-CX DOLO	ZONED	80	1.4	0.9	52.1
LC 55	2.6	CX DOLO	ZONED/IL	80	-0.1	0.7	51.5
LC 53	7.6	CX DOLO	DL	97	0.5	0.5	51.5
LC 48	19.3	M-CX DOLO LIME M	DL/IL	3	1.3	0.4	53.0
LC 46	45.1	F-MX DOLO LIME G	DL	97	7.5	2.2	49.9
LC 38	102.0	FX DOLO M	DL	99	2.8	1.1	51.8
LC 36	106.9	MX DOLO	vDL/NL	97	4.7	1.1	51.5
LC 34	119.7	MX DOLO LIME G	vDL/NL	7	-5.0	1.6	50.8
LC 33	123.9	F-MX DOLO M	vDL/NL	95	-5.0	1.7	51.2
LC 31	127.3	FX DOLO M	vDL/NL	97	3.9	2.7	50.8
LC 23	137.7	FX DOLO M	vDL/NL	97	1.6	2.5	50.5
LC 28	139.8	MX DOLO W	vDL/NL	93	-2.5	4.0	51.5
LC 19	153.5	CX DOLO CAL	DL	99	1.6	1.5	51.8
LC 26	161.6	FX DOLO LIME G	DL	3	-2.6	1.7	51.8
LC 17	162.7	MX DOLO LIME W	vDL/NL	20	-1.4	1.7	52.1
LC 15	176.7	MX DOLO W/P	NL	7	-1.3	2.5	51.5
LC 25	177.6	F-MX DOLO LIME P	DL	3	-5.9	2.4	50.8
LC 13	180.3	F-CX DOLO M	vDL/NL	95	-7.1	2.4	51.5
LC 12	180.3	F-CX DOLO M/W	vDL/NL	95	-6.6	2.4	51.2
LC 11	193.1	FX DOLO M	NL	97	1.1	3.2	50.8
LC 24	194.8	FX DOLO M	NL	97	4.2	3.0	50.5
LC 10	197.1	MX DOLO M	vDL/NL	95	5.8	3.6	52.1
LC 9	201.1	FX DOLO M	NL	95	-4.4	1.8	50.8
LC 7	209.8	MX DOLO LIME G	NL	7	-1.9	3.2	51.8
LC 3	222.4	FX DOLO LIME G	NL	3	-3.1	2.1	50.9
LC 1	223.8	F-MX DOLO M	vDL	5	1.3	4.5	54.8
BMM 26	25.5	FX DOLO M	DL	100	3.5	1.6	53.9
BMM 24	39.0	FX FOLO W	DL	100	3.8	2.4	-
BMM 22	44.1	MX DOLO LIME W	DL	95	1.4	1.7	54.2
BMM 21	48.3	MX DOLO	vDL/NL	95	3.5	1.6	55.1
BMM 19	53.4	MX DOLO CAL	DL/ZONED	85	5.0	1.0	51.8
BMM 18	58.2	MX DOLO	DL	60	-1.1	2.0	51.2
BMM 17	63.4	M-CX DOLO	DL/ZONED	95	2.0	1.8	52.7
BMM 16	66.2	M-CX DOLO	DL/ZONED	90	-2.5	1.8	51.5
BMM 15	73.8	F-MX DOLO W	DL	90	-0.7	1.7	50.8
BMM 14	71.8	MX DOLO LIME W	DL	30	-1.7	2.2	51.5
BMM 11	97.3	F/MX DOLO M	vDL/NL	100	0.4	2.6	51.2
BMM 10	115.7	F-MX DOLO M	DL	100	-0.5	1.4	51.5
BMM 8	130.5	FX DOLO M	vDL/NL	100	-2.5	1.6	51.2
BMM 7	135.8	MX DOLO LIME W	vDL	25	-6.3	1.2	51.5
BMM 6	144.8	FX DOLO M	vDL	100	3.4	1.2	50.8
BMM 5	150.2	MX DOLO LIME M	vDL/NL	10	-1.6	1.4	55.1
BMM 4	157.0	M/CX DOLO M	vDL/NL	100	3.5	2.9	51.2
BMM 3	154.2	MX DOLO CAL	IL/DL	100	2.5	2.9	51.2
BMM 2	161.9	MX DOLO M	NL	90	-3.4	3.2	52.1
WSM 17	109.1	FX DOLO M	DL	100	0.9	0.8	52.7
WSM 14	141.5	FX DOLO M	DL	97	0.8	2.6	51.2
WSM 13	149.2	F-MX DOLO M	DL	99	3.4	1.2	50.8
WSM 11	166.2	F-MX DOLO M	vDL	100	4.9	2.9	50.8
WSM 10	168.3	MX DOLO LIME M	vDL	3	-6.8	1.2	52.4
WSM 9	222.3	MX DOLO LIME W	DL/IL	5	-1.8	0.6	54.2
WSM 6	221.8	MX DOLO W	vDL	80	-0.8	3.7	53.6
WSM 2	222.0	DOLO LIME W	vD/NL	10	1.4	4.7	55.4
WSM 1	223.8	MX DOLO W	vD/NL	70	0.9	5.5	55.7

Table 1
Smith and Donoback

GROUP 2 DOLOMITE

SAMPLE	METERS FROM TOP	ROCK TYPE	CL	% DOLOMITE (VIS. EST.)	δ18O	δ13C	MOLE% CaCO3
SXM 83	30.3	FX DOLO M	DL	97	-1.2	3.6	54.8
SXM 82	32.3	FX DOLO LIME W	vD/NL	40	-7.7	3.8	51.2
SXM 81	35.4	FX DOLO LIME W	vD/NL	30	-9.3	3.7	51.5
SXM 80	40.1	FX DOLO LIME W	vD/NL		-8.9	3.7	51.2
SXM 79	48.9	FX DOLO LIME W	vD/NL	20	-8.3	3.8	50.2
SXM 77	52.1	FX DOLO LIME W	DL	1	-7.5	3.6	51.5
SXM 74	62.5	FX DOLO W	vD/NL	97	-8.6	3.7	50.9
SXM 72	63.9	FX DOLO CAL	vDL	99	-8.0	3.8	50.9
SXM 70	65.7	FX DOLO LIME W	DL	70	-7.3	3.8	50.8
SXM 63	89.5	FX DOLO LIME W	DL	20	-6.8	4.1	50.5
SXM 59	108.1	FX DOLO P	DL	99	-0.1	3.8	55.4
SXM 55	126.1	F DOLO M	DL	97	-1.4	3.1	54.5
SXM 52	130.9	FX DOLO LIME W	DL	1	-4.1	2.5	50.5
SXM 51	130.9	MX DOLO LIME M	DL	40	-1.1	3.1	55.7
SXM 49	135.4	MX DOLO LIME M	DL	15	-0.7	2.5	54.8
SXM 48	141.0	FX DOLO M	DL	100	-0.9	2.3	54.2
SXM 47	141.3	FX DOLO M	DL	95	-4.2	3.0	50.9
SXM 46	148.5	FX DOLO M	DL	95	-2.6	3.1	51.2
SXM 45	150.3	FX DOLO M	DL	97	-3.9	3.1	50.9
SXM 44	151.8	F-MX DOLO M	DL	97	-1.6	3.2	49.3
SXM 41	152.7	DOLO LIME P/W	vDL	20	-3.6	3.9	50.9
SXM 39	158.5	FX DOLO CAL	DL	100	-0.4	2.7	55.1
SXM 38	162.3	F-MX DOLO W	mD	99	-0.5	2.6	54.4
SXM 32	163.4	F-MX DOLO W	vD/NL	99	-0.5	1.0	53.0
SXM 27	177.7	FX DOLO M	DL	90	0.7	2.9	53.6
SXM 25	177.7	FX DOLO M	vDL	99	0.8	3.4	54.4
SXM 23	189.8	FX DOLO M	vD/NL	99	-4.0	4.1	51.2
SXM 22	190.4	FX DOLO M	vD/NL	99	-4.1	4.0	50.2
SXM 21	194.4	FX DOLO W	vD/NL	97	-4.2	4.1	50.9
SXM 13	197.2	FX DOLO M	vD/NL	93	-4.0	3.6	51.8
SXM 7	199.1	FX DOLO LIME G	vDL	7	-2.5	4.0	51.5
SXM 5	255.5	FX FOLO LIME P/G	vD/NL	5	-6.0	3.8	51.2
SXM 4	276.8	MX DOLO W	vDL	93	-4.7	3.9	50.4
SXM 3	280.0	M-CX DOLO W	vDL	93	-5.0	3.5	50.5
SXM 1	282.6	MX DOLO M	vDL	97	-5.0	3.8	51.2
TM 63	13.4	FX DOLO LIME W	DL	40	-1.1	3.2	50.8
TM 42	138.6	M-CX DOLO LIME M	vDL	2	-9.1	2.9	51.2
TM 41	143.9	M-CX DOLO M	DL	95	-2.0	2.0	51.2
TM 39	149.4	FX DOLO LIME W	DL	5	-1.8	2.6	50.2
TM 38	150.9	F-MX DOLO M	DL	100	-2.6	2.5	50.8
TM 37	153.4	FX DOLO LIME P/G	DL	5	-1.4	2.4	50.2
TM 33	177.4	FX DOLO LIME M	vD/NL	3	-11.2	3.1	51.2
TM 23	210.7	FX DOLO CAL	NL	100	0.6	5.0	54.2
TM 20	218.0	FX DOLO W	vDL	70	-2.3	3.8	50.8
TM 14	223.8	FX DOLO W	vDL	97	-2.4	3.5	50.8
TM 10	246.6	FX DOLO M	DL	97	-2.2	3.5	51.5
TM 7	260.4	F-MX DOLO W	vD/NL	70	-1.6	3.4	51.2
SM 43	7.9	FX DOLO M	vDL	97	0.5	6.4	51.1
SM 40	19.8	MX DOLO G	vDL	40	-6.5	3.5	51.1
SM 39	19.8	MX DOLO LIME G	vDL	40	-6.9	2.6	50.5
SM 38	23.2	MX DOLO M	vDL	90	-10.2	0.9	51.1
SM 21	153.8	FX DOLO LIME W	vDL	10	-10.3	2.9	50.5

Table 2
Smith and Donobek

GROUP 1 DOLOMITE TRACE ELEMENT CONCENTRATIONS

SAMPLE	Mn (PPM)	Fe (PPM)	Na (PPM)	Sr (PPM)	87Sr/86Sr
LC 46 (PD)	BDL	BDL	331	BDL	0.70730
LC 36 (PD)	BDL	BDL	-	BDL	
LC 33	-	-	-	-	0.70849
LC 28			364	53	
LC 26			326	61	
LC 25			329	55	
LC 19			241	43	
LC 17			245	63	
LC 15			285	44	
LC 13	BDL	BDL	244	36	
LC 12			284	58	0.70839
LC 11			320	48	
LC 10			322	41	0.70789
LC 9			214	34	
LC 7			233	45	
LC 3			194	29	0.70823
LC 1			454	95	
BMM 18			221	98	
BMM 17			228	73	
BMM 16			168	40	
BMM 15			363	80	
BMM 14			247	66	
BMM 4			247	66	0.70817
BMM 3 (PD)	BDL	400	BDL	BDL	
WSM 14			358	65	
WSM 13			354	58	

GROUP 2 DOLOMITE TRACE ELEMENT CONCENTRATIONS

SAMPLE	Mn (PPM)	Fe (PPM)	Na (PPM)	Sr (PPM)	87Sr/86Sr
SXM 83			472	253	
SXM 82			508	206	0.70788
SXM 81			134	126	0.70808
SXM 80	BDL	300	140	125	
SXM 79			124	83	
SXM 77	BDL	BDL	135	138	
SXM 74	BDL	BDL	158	120	
SXM 72	BDL	BDL	141	55	
SXM 63			149	112	
SXM 59	BDL	390	548	175	
SXM 55			381	142	
SXM 51			343	149	
SXM 46			148	88	
SXM 44			155	108	
SXM 39 (PD)	BDL	BDL	414	BDL	
SXM 38			426	146	0.70780
SXM 27			567	155	0.70785
SXM 25	BDL	BDL	617	189	
SXM 23			193	107	
SXM 21			162	86	
SXM 13			329	126	
SXM 5			232	104	
SXM 1			309	93	
TM 41			119	68	
TM 38			92	59	
TM 20			148	79	
TM 10			197	119	
TM 7			83	163	

Table 3
Smith and Longbotk