DR2003012 Table DR1, Detailed Geochemistry

	BM1	BM2	BM3
	scoria	non-v	scoria
SiO2	58.16	58.19	58.68
Al2O3	17.29	17.36	17.70
TiO2	0.875	0.879	0.889
FeO*	5.85	5.84	5.94
MnO	0.11	0.11	0.11
CaO	6.94	6.95	6.97
MgO	4.67	4.61	3.61
K2O	1.88	1.89	1.63
Na2O	3.89	3.82	4.13
P2O5	0.341	0.345	0.349
Ni	68	65	53
Cr	117	114	111
Sc	21	16	23
V	142	145	142
Ba	743	723	750
Rb	38	39	30
Sr	554	555	558
Zr	170	170	173
Y	22	20	21
Nb	12.0	12.1	12.7
Ga	19	18	18
Cu	38	32	42
Zn	69	69	65
Pb	8	9	4
La	30	22	34
Ce	55	46	42
Th	4	4	4
La			25.38
Ce			48.47
Pr			5.53
Nd			22.50
Sm			4.83
Eu			1.36
Gd			4.38
Tb			0.66
Dy			3.93
Ho			0.79
Er			2.08
Tm			0.30
Yb			1.93
Lu			0.31
Ba			734.55
Th			3.52
Nb			11.86
Y			22.38
Hf			4.13
Ta			0.72
U			1.04
Pb			8.39
Rb			32.05
Cs			0.83
Sr			576.98
Sc			21.25
Zr			
87/86			
143/144			

BM4	BM5	BM6	BM7
scoria	non-v	scoria	non-v
58.20	58.87	56.93	58.46
18.54	17.35	19.44	17.33
0.903	0.866	0.956	0.879
5.69	5.77	6.44	5.82
0.11	0.11	0.12	0.11
6.81	6.92	6.80	6.98
3.71	4.68	3.69	4.68
1.77	1.66	1.58	1.57
3.94	3.42	3.73	3.81
0.327	0.341	0.303	0.347
56	70	62	72
106	115	118	115
16	21	21	26
133	136	139	145
762	742	752	743
33	37	32	40
542	555	553	555
180	170	186	171
24	21	28	24
12.3	12.4	13.0	11.7
20	18	19	15
44	7	49	20
66	64	71	64
11	11	10	8
30	33	27	31
37	53	53	38
5	5	5	1
	25.63		
	48.73		
	5.74		
	23.23		
	5.10		
	1.43		
	4.50		
	0.69		
	4.09		
	0.82		
	2.16		
	0.32		
	2.03		
	0.33		
	739.28		
	3.98		
	11.58		
	23.51		
	4.27		
	0.72		
	1.20		
	9.23		
	34.80		
	0.96		
	572.23		
	19.99		
		0.704425, +/- 0.000013	
		0.512708, +/- 0.000008	

			Stron
BM8	BM9	BM10	BM11
non-v	scoria	non-v	scoria
57.81	58.64	57.63	59.69
17.21	17.38	17.09	18.16
0.874	0.884	0.936	1.025
5.90	5.47	6.36	6.75
0.11	0.11	0.12	0.09
6.96	6.80	7.29	6.31
4.80	4.81	5.03	3.50
1.92	1.83	1.76	0.47
4.07	3.73	3.49	3.71
0.344	0.346	0.302	0.300
68	68	74	62
120	120	118	117
18	19	21	25
143	147	147	141
727	735	663	607
38	38	35	15
557	546	527	511
170	168	162	163
22	20	21	20
12.5	10.7	12.5	12.8
20	17	17	18
30	27	13	28
68	68	67	60
7	6	5	25
23	30	24	16
56	39	31	51
6	4	0	4
		23.56	
		44.95	
		5.14	
		21.29	
		4.77	
		1.34	
		4.18	
		0.66	
		3.92	
		0.79	
		2.06	
		0.32	
		1.96	
		0.32	
		675.01	
		3.84	
		11.56	
		22.14	
		4.06	
		0.73	
		1.25	
		8.67	
		34.91	
		0.98	
		553.71	
		21.05	

Table DR1, Detailed Geochemistry

BM12	BM13	BM17	BM18
dike	dike	microv	microv
57.91	57.98	58.55	59.08
17.44	17.21	17.29	17.83
0.881	0.863	0.873	0.890
6.12	6.06	5.68	5.47
0.11	0.11	0.11	0.12
6.75	6.85	6.83	6.23
4.67	4.68	4.71	4.38
1.84	1.85	1.89	1.89
3.92	4.05	3.73	3.77
0.349	0.339	0.340	0.335
65	73	65	68
113	115	117	116
14	19	16	21
134	134	154	142
726	727	731	719
39	38	38	38
554	562	542	507
171	171	167	168
22	21	20	20
12.7	13.1	10.8	11.4
21	18	20	18
31	35	26	42
67	73	66	67
5	5	9	7
25	33	16	28
67	57	40	37
3	5	5	5
	25.01		
	47.87		
	5.54		
	22.32		
	4.78		
	1.35		
	4.07		
	0.64		
	3.82		
	0.77		
	2.03		
	0.30		
	1.93		
	0.31		
	728.43		
	3.93		
	11.64		
	21.70		
	4.20		
	0.72		
	1.17		
	7.42		
	36.01		
	0.86		
	571.47		
	19.47		

BM19	BM20	BM21	BM22
scoria	scoria	scoria	scoria
58.94	58.17	57.88	58.23
17.51	18.54	17.20	17.36
0.889	1.034	0.877	0.883
5.56	6.55	6.23	5.55
0.11	0.11	0.11	0.11
6.63	6.68	7.03	7.04
4.48	4.12	4.83	4.84
1.91	0.91	1.65	1.90
3.64	3.61	3.85	3.75
0.326	0.273	0.345	0.346
63	71	69	67
112	105	121	114
21	24	25	19
128	154	149	142
752	639	717	741
39	19	37	39
547	506	561	552
171	162	170	168
21	24	21	21
10.8	11.8	12.3	11.3
19	18	17	17
41	60	25	11
70	80	67	68
10	11	7	11
37	17	33	30
51	38	59	33
4	4	4	5
	23.42		25.25
	46.26		48.49
	5.38		5.57
	22.17		22.25
	5.08		4.79
	1.49		1.37
	4.67		4.20
	0.72		0.65
	4.44		3.87
	0.88		0.79
	2.35		2.09
	0.35		0.31
	2.22		1.93
	0.36		0.32
	639.43		718.78
	3.81		3.87
	12.62		11.64
	25.23		22.61
	4.13		4.24
	0.81		0.74
	1.18		1.19
	11.79		9.07
	18.51		37.76
	0.79		1.04
	528.03		574.99
	22.22		18.30
	0.704213 +/- 0.000013		0.704425 +/- 0.000014
	0.512741 +/- 0.000007		0.512718 +/- 0.000009

BM23	BM24	BM25	BM26
scoria	scoria	pumiceous	non-v
58.60	58.45	58.10	58.17
17.54	17.39	17.32	17.16
0.886	0.882	0.883	0.896
5.44	5.45	5.82	5.89
0.11	0.11	0.11	0.12
7.01	7.00	6.94	7.10
4.45	4.84	4.86	4.73
1.88	1.85	1.87	1.87
3.75	3.67	3.73	3.72
0.337	0.348	0.348	0.347
63	71	69	63
107	121	118	110
19	20	19	19
145	139	146	154
727	685	732	711
39	37	37	37
552	549	549	553
168	167	169	167
21	21	21	21
11.2	10.9	11.3	10.5
17	20	19	21
40	10	18	7
67	67	69	67
10	8	11	9
34	31	8	14
43	56	36	46
5	1	3	5

		<-- Scoria -->	
BM27	BM28	BM29	BM31
scoria	non-v	scoria	scoria
58.47	58.42	58.52	58.11
17.39	17.38	17.56	17.16
0.868	0.878	0.893	0.877
5.87	5.95	5.92	6.28
0.11	0.11	0.11	0.11
6.93	6.93	7.05	6.83
4.54	4.72	3.97	4.58
1.88	1.71	1.74	1.74
3.63	3.56	3.90	3.97
0.324	0.347	0.348	0.343
60	66	52	68
107	114	119	114
26	22	20	19
135	137	147	146
727	731	745	726
38	37	35	38
535	553	559	553
169	172	171	173
22	21	21	21
11.2	10.6	11.5	12.8
19	17	21	16
21	8	44	37
71	70	68	70
9	5	6	10
23	16	40	29
51	38	54	62
4	4	5	4

led Geochemistry

Brush Mountain

BM32	BM33	BM34	BM35
scoria	scoria	scoria	microv
58.33	58.25	58.14	58.07
17.31	17.24	17.34	17.20
0.880	0.872	0.878	0.862
5.99	6.24	6.28	6.02
0.11	0.11	0.11	0.11
6.74	6.81	6.80	6.90
4.56	4.21	4.29	4.68
1.78	1.95	1.87	1.90
3.95	3.98	3.93	3.91
0.345	0.339	0.344	0.343
62	60	59	68
112	113	110	109
24	21	19	22
144	137	144	154
730	728	734	746
39	39	39	38
543	552	553	556
171	173	173	172
21	21	20	22
12.7	13.0	13.0	12.4
17	17	16	20
42	41	51	16
70	66	67	67
7	8	10	6
33	21	32	23
47	45	36	54
5	3	6	4

BM36	BM37	BM39	BM40
non-v	non-v	scoria	non-v
58.33	58.49	57.96	57.82
17.24	17.29	17.24	17.15
0.882	0.882	0.880	0.877
6.33	6.24	5.87	6.12
0.12	0.11	0.12	0.11
7.04	7.02	6.98	6.98
4.65	4.67	4.82	4.82
1.63	1.45	1.98	1.96
3.44	3.50	3.81	3.82
0.341	0.347	0.342	0.344
68	67	73	71
114	108	117	115
24	18	16	19
157	147	137	146
730	737	739	723
39	38	41	40
566	564	557	557
172	174	171	172
21	23	22	22
12.0	11.9	12.7	12.6
19	19	19	16
8	14	34	43
69	69	66	66
7	12	8	7
16	14	31	23
43	63	51	51
7	5	2	3

		Strong, p. 3	
BM41	BM42	BM43	BM50
glass non-v	scoria	scoria	scoria
57.93	58.21	58.16	57.91
17.14	17.31	17.30	17.31
0.867	0.875	0.889	0.865
6.12	6.04	6.04	6.15
0.11	0.11	0.11	0.11
6.87	6.77	6.86	6.98
4.77	4.50	4.73	4.79
1.89	1.86	1.86	2.07
3.98	3.98	3.70	3.47
0.339	0.341	0.341	0.342
68	60	75	69
110	103	117	113
21	25	22	15
139	139	146	141
723	736	717	732
38	38	38	41
553	549	546	562
172	172	173	172
22	21	22	21
12.3	13.4	12.6	12.0
18	16	20	18
25	33	25	19
69	71	67	68
6	7	6	7
23	35	32	23
66	33	54	49
3	3	2	4

Table DR1, Detailed Geochemistry

BM52	BM53	BM54	**BM69A**
scoria	scoria	scoria	1 interval
57.99	58.49	57.98	58.28
17.55	17.71	17.39	17.22
0.864	0.881	0.861	0.874
6.06	6.45	6.19	6.32
0.11	0.17	0.12	0.11
6.92	6.70	6.99	6.96
4.56	3.84	4.81	4.19
1.93	1.67	1.85	2.02
3.69	3.75	3.47	3.69
0.338	0.341	0.351	0.343
68	81	70	75
106	112	112	116
20	23	18	18
144	139	149	139
748	783	736	734
39	35	39	39
564	568	564	561
172	175	172	173
21	21	22	21
12.7	12.3	11.8	12.1
19	19	18	18
44	59	14	36
70	77	68	72
10	8	9	7
36	34	16	24
46	57	47	49
5	6	5	3

BM69A®	BM69B	BM69C	BM69D
1 interval	1 interval	1 interval	1 interval
58.35	58.53	58.53	58.46
17.19	17.23	17.17	17.25
0.876	0.873	0.875	0.876
6.28	6.13	6.08	6.29
0.11	0.11	0.11	0.11
6.94	6.79	6.86	6.72
4.15	4.43	4.50	4.27
2.02	1.70	1.60	1.96
3.73	3.86	3.93	3.71
0.340	0.344	0.342	0.346
74	80	86	76
119	123	124	123
22	19	17	20
140	141	137	137
741	727	733	736
41	38	37	41
561	545	545	543
172	171	171	171
21	20	22	21
12	13	12.3	10.9
19	18	18	18
40	44	38	46
71	71	67	70
5	8	8	10
20	25	16	19
63	47	38	52
7	4	5	5

BM69E	BM69F	BM69G	BM69H
1 interval	1 interval	1 interval	1 interval
58.41	58.50	58.37	58.55
17.23	17.17	17.25	17.28
0.879	0.879	0.874	0.879
6.21	6.21	6.00	6.07
0.11	0.11	0.11	0.11
6.91	6.93	6.88	6.78
4.36	4.33	4.48	4.38
1.84	1.72	1.97	1.86
3.71	3.80	3.72	3.74
0.340	0.343	0.345	0.343
85	74	80	83
123	116	115	122
20	17	18	21
131	139	133	149
744	737	725	741
38	39	39	39
554	556	553	545
174	173	172	173
21	20	21	21
11.1	10.4	11.8	12.1
17	16	17	17
29	22	28	43
68	70	68	71
5	9	6	5
23	24	29	36
56	59	51	49
3	6	4	3

Strong, p. 4		Table DR1, Deta	
			F
BM69I	BM14	BM15	BM16
1 interval	flow	flow	flow
58.45	51.78	51.75	50.24
17.28	18.12	18.01	17.80
0.880	1.857	1.839	2.265
6.29	9.23	8.78	8.80
0.11	0.15	0.15	0.16
6.89	8.69	8.81	8.96
4.16	4.79	4.92	5.88
1.87	1.29	1.35	1.33
3.73	3.69	3.99	4.07
0.342	0.396	0.399	0.488
67	74	71	44
115	121	114	96
25	20	22	23
142	171	175	203
733	443	383	316
38	23	23	20
556	575	558	556
173	186	178	198
22	27	26	31
11.1	23.6	22.2	29.1
14	18	16	17
23	27	37	37
68	67	65	65
6	3	1	2
23	23	19	17
46	50	54	43
4	2	0	3
			21.70
			43.07
			5.40
			23.86
			6.04
			2.04
			5.98
			0.98
			5.83
			1.17
			3.05
			0.43
			2.75
			0.43
			331.80
			2.05
			29.80
			33.49
			4.57
			1.89
			0.64
			2.28
			20.90
			0.36
			586.66
			26.61
			0.703572 +/- 0.000011
			0.512849 +/- 0.000009

iled Geochemistry			
ow			
BM38	BM38®	BM69	
flow	flow	flow	
49.85	50.14		
17.89	18.05		
2.120	2.136		
9.14	8.79		
0.16	0.16		
9.20	9.24		
5.77	5.75		
1.29	1.28		
4.13	3.99		
0.459	0.461		
41	42		
94	93		
24	26		
198	202		
332	330		
19	19		
660	655		
192	190		
29	29		
27.6	27.6		
15	17		
42	46		
58	61		
4	4		
11	20		
34	35		
3	3		
20.66		20.87	
42.32		41.63	
5.24		5.36	
23.12		23.61	
5.77		5.86	
1.99		2.01	
5.81		5.91	
0.95		0.95	
5.62		5.65	
1.14		1.17	
3.03		3.05	
0.43		0.44	
2.63		2.66	
0.41		0.42	
330.62		379.35	
1.98		2.07	
29.18		24.88	
29.87		30.21	
4.40		4.44	
1.92		1.65	
0.48		0.59	
2.15		3.79	
19.85		20.92	
0.28		0.95	
678.94		549.95	
28.44		27.84	
		183	

	West Scoria		
PC-W1	PC-W2	PC-W4	PC-W3
scoria	scoria	bomb	dike
54.42	54.35	54.14	53.00
17.83	17.96	17.94	17.51
1.192	1.195	1.202	1.461
7.39	7.33	7.20	8.18
0.14	0.14	0.14	0.16
7.91	7.69	7.96	8.15
5.29	5.32	5.45	5.56
1.37	1.36	1.38	1.27
3.98	4.18	4.12	4.20
0.478	0.479	0.478	0.510
74	73	78	73
118	112	114	124
14	21	21	21
166	172	177	190
536	544	533	464
23	23	22	18
561	561	559	494
165	163	162	185
24	25	24	30
13.3	13.0	13.3	12.8
18	18	18	18
58	54	53	58
73	77	73	76
4	5	4	7
25	26	32	16
41	38	47	57
1	2	0	1
22.61	22.23		20.99
45.70	45.23		43.76
5.54	5.51		5.54
23.38	23.56		24.17
5.41	5.60		6.09
1.66	1.65		1.91
5.15	5.04		6.04
0.79	0.80		0.97
4.88	4.78		5.87
0.97	0.97		1.18
2.60	2.55		3.27
0.39	0.37		0.46
2.34	2.30		2.92
0.38	0.36		0.46
563.38	556.64		489.63
2.26	2.61		2.30
12.77	12.51		13.24
25.44	25.30		31.55
3.97	3.89		4.44
0.74	0.74		0.85
0.68	0.70		0.68
5.85	6.35		7.46
23.31	22.34		20.07
0.59	0.60		0.58
591.20	578.22		507.71
26.95	19.71		24.16
	160		184
0.704031, +/- 0.000011			
0.512845, +/- 0.000019			

	Strong, p. 5		
			West Lava Flow
PC-W5	PC-W11	PC-W12	PC-W13
dike	flow	flow	flow
52.90			
17.39			
1.443			
8.59			
0.15			
8.04			
5.62			
1.27			
4.08			
0.515			
73			
125			
25			
194			
480			
19			
495			
186			
31			
13.4			
17			
48			
78			
5			
21			
54			
3			
20.86	20.52	20.67	20.67
43.03	42.80	43.20	43.33
5.41	5.43	5.48	5.49
23.80	23.79	23.77	24.13
6.07	6.02	6.00	6.09
1.89	1.91	1.88	1.90
6.07	5.90	5.77	5.89
0.97	0.96	0.93	0.95
6.08	5.89	5.67	5.84
1.23	1.16	1.14	1.19
3.23	3.13	3.07	3.21
0.47	0.45	0.45	0.45
2.91	2.88	2.80	2.93
0.46	0.46	0.46	0.46
481.37	484.87	477.08	478.89
1.99	1.96	1.92	1.95
12.91	12.86	12.23	12.94
31.75	31.35	29.96	31.27
4.52	4.39	4.27	4.37
0.80	0.80	0.80	0.83
0.65	0.69	0.65	0.67
5.49	6.19	5.74	6.01
20.19	19.56	18.79	19.72
0.50	0.44	0.52	0.45
517.66	524.35	506.49	525.05
30.49	25.75	22.95	25.16
	185	176	184
0.703777, +/- 0.000017			
0.512854, +/- 0.000007			

Table DR1, Detailed Geochemistry

Popcorn Cave Mafic Shield

PC-W14	PC-W15	PC-W16	PC-W17
flow	flow	flow	flow
53.29			53.26
17.30			17.36
1.441			1.458
8.70			8.65
0.16			0.16
8.10			8.10
5.37			5.34
1.35			1.31
3.80			3.85
0.501			0.506
72			68
125			118
27			24
206			207
483			486
19			21
492			492
191			195
32			33
12.5			14.5
16			17
51			53
79			77
9			10
21			14
52			57
6			4
20.59	20.16	20.02	20.30
42.91	42.25	41.45	42.32
5.51	5.29	5.17	5.26
24.15	23.60	22.84	23.39
5.95	5.98	5.76	5.89
1.89	1.88	1.87	1.85
5.82	5.78	5.61	5.77
0.95	0.95	0.91	0.95
5.74	5.75	5.57	5.81
1.17	1.17	1.11	1.16
3.14	3.15	3.04	3.14
0.45	0.45	0.43	0.45
2.80	2.89	2.73	2.90
0.46	0.45	0.44	0.44
472.82	467.64	455.87	464.24
1.92	2.00	1.91	2.03
12.33	12.90	13.00	12.98
30.30	31.17	30.11	31.44
4.35	4.41	4.24	4.35
0.80	0.81	0.81	0.79
0.66	0.68	0.67	0.69
5.89	6.15	6.02	5.82
19.46	20.17	18.94	19.96
0.47	0.52	0.48	0.55
503.33	523.57	526.10	497.56
23.70	27.69	26.80	27.39
177	185	180	185

	East Scoria		East
	PC-E1	PC-E4	PC-E2
	scoria	scoria	clast
	54.29	54.67	60.94
	17.76	18.01	16.83
	1.196	1.185	0.693
	7.79	7.23	5.47
	0.14	0.14	0.11
	7.89	8.00	6.39
	5.28	5.11	3.79
	1.31	1.35	2.26
	3.88	3.85	3.26
	0.457	0.451	0.259
	78	72	54
	113	113	102
	24	27	18
	200	187	148
	539	544	825
	22	24	48
	556	558	444
	168	164	162
	26	25	24
	13.5	13.1	8.0
	16	16	15
	40	44	28
	73	71	64
	5	7	14
	22	23	24
	40	45	53
	6	7	8
	21.97	21.63	24.41
	44.72	44.08	45.96
	5.56	5.41	5.35
	23.42	22.99	21.44
	5.41	5.43	4.86
	1.72	1.65	1.27
	4.93	4.98	4.36
	0.79	0.78	0.68
	4.58	4.59	4.03
	0.94	0.93	0.83
	2.48	2.49	2.27
	0.36	0.36	0.33
	2.32	2.28	2.12
	0.36	0.37	0.35
	548.08	539.60	801.92
	2.17	2.24	4.99
	11.72	12.19	7.04
	24.18	24.82	23.31
	3.88	3.86	4.16
	0.75	0.74	0.49
	0.70	0.69	1.58
	5.68	6.29	11.54
	21.34	22.82	47.90
	0.58	0.69	1.54
	567.10	585.19	472.49
	20.38	22.26	18.08
	153	156	156

			Stron
Flow		Shield lavas	
PC-E3		PCLKOT1	PCLKOT2
flow		Ikot shield	Ikot shield
59.52		48.44	
16.90		17.71	
0.768		0.806	
6.05		9.78	
0.11		0.17	
6.79		11.20	
4.07		9.08	
2.19		0.14	
3.33		2.59	
0.270		0.081	
60		197	
98		195	
21		38	
156		238	
768		122	
47		1	
458		235	
164		50	
23		23	
10.1		3.2	
15		15	
41		87	
64		59	
17		4	
2		10	
56		29	
9		5	
22.70		2.53	2.53
42.72		6.40	6.60
4.98		0.99	1.04
20.35		5.43	5.53
4.55		1.95	2.07
1.24		0.83	0.90
4.08		2.67	2.73
0.64		0.52	0.54
3.78		3.56	3.63
0.78		0.79	0.80
2.11		2.28	2.35
0.31		0.33	0.35
1.93		2.19	2.22
0.32		0.34	0.36
726.55		101.34	84.00
4.77		0.02	0.02
8.45		0.99	0.81
21.17		20.86	20.44
3.91		1.20	1.21
0.56		0.06	0.06
1.53		0.04	0.04
11.18		0.68	0.87
45.59		0.68	0.61
1.49		0.03	-0.03
470.31		240.52	237.99
20.73		43.89	38.63
152		42	41

Table DR1, Detailed Geochemistry

Round Barn #2

	Scoria		
	RB2-1	RB2-2	RB2-3
	lo spatter	hi scoria	hi nonv
	54.00	53.77	54.10
	19.15	19.03	18.98
	1.000	0.980	0.990
	7.90	8.36	8.02
	0.14	0.14	0.14
	8.70	8.62	8.65
	4.23	4.40	4.59
	0.98	0.78	0.80
	3.66	3.67	3.50
	0.240	0.240	0.240
	61	68	59
	82	87	88
	28	19	22
	200	189	184
	436	442	447
	19	14	17
	603	608	601
	93	94	93
	19	20	21
	4.7	3.9	3.4
	20	18	18
	61	56	47
	68	69	68
	10	6	5
	18	25	14
	25	12	34
	1	1	3
	11.64	11.81	11.85
	23.95	24.68	24.02
	3.09	3.15	3.16
	14.11	14.38	14.37
	3.69	3.79	3.81
	1.28	1.25	1.25
	3.70	3.77	3.87
	0.60	0.60	0.61
	3.73	3.79	3.84
	0.73	0.76	0.77
	2.02	2.10	2.10
	0.29	0.30	0.30
	1.80	1.88	1.91
	0.29	0.31	0.30
	422.07	433.01	425.84
	1.50	1.53	1.49
	3.98	4.16	4.03
	20.04	20.83	21.61
	2.27	2.36	2.27
	0.25	0.26	0.25
	0.52	0.51	0.49
	6.11	5.39	4.69
	15.73	13.13	14.80
	0.76	0.53	0.72
	612.48	613.35	587.20
	24.90	24.86	24.64
	82	84	83

		Round Barn #1 (BLM pit	
Flow		Scoria	
RB2-4		**RB1**	**RB1®**
flow		spatter	
51.18		53.11	
18.76		18.16	
1.462		1.223	
8.82		8.68	
0.15		0.15	
9.22		8.68	
5.55		5.51	
0.80		0.90	
3.74		3.20	
0.315		0.380	
78		124	
124		153	
23		16	
227		207	
412		536	
13		16	
552		543	
132		127	
27		26	
10.6		8.5	
19		18	
44		20	
66		78	
3		8	
8		18	
44		37	
1		3	
17.15		17.10	17.41
29.25		35.16	35.92
4.38		4.52	4.67
19.80		20.01	20.37
5.15		5.07	5.05
1.71		1.57	1.63
5.31		4.87	4.86
0.85		0.78	0.78
5.29		4.69	4.70
1.08		0.97	0.96
2.84		2.60	2.61
0.40		0.37	0.37
2.45		2.31	2.37
0.39		0.37	0.38
394.11		527.42	540.31
1.38		1.69	1.73
12.44		8.09	8.26
28.64		25.54	25.70
3.16		3.10	3.18
0.77		0.50	0.50
0.43		0.61	0.64
3.69		5.79	6.07
10.71		14.47	15.02
0.34		0.66	0.51
577.49		547.77	571.45
28.95		26.10	25.42
125		119	120

Flow			
RB2		DA1	DA2
dike		nonv 1m	nonv 1m
52.19		53.35	53.10
17.86		18.39	18.20
1.274		1.296	1.273
8.73		8.40	8.69
0.15		0.15	0.15
8.52		8.53	8.39
6.15		3.90	4.07
1.09		1.11	1.18
3.66		4.36	4.44
0.395		0.506	0.499
115		58	60
152		101	108
24		22	23
217		172	176
499		610	603
19		15	17
530		747	742
143		156	157
27		26	25
10.6		9.5	8.4
14		21	21
48		68	61
73		82	84
8		8	3
18		30	12
47		43	46
3		3	2
17.76		24.05	
36.36		49.28	
4.62		6.09	
20.32		26.48	
4.95		6.20	
1.65		1.93	
4.91		5.80	
0.81		0.87	
4.92		5.19	
0.99		1.01	
2.65		2.62	
0.38		0.39	
2.42		2.33	
0.39		0.37	
494.31		617.14	
1.78		3.08	
10.49		7.88	
27.14		27.07	
3.34		4.01	
0.62		0.44	
0.64		0.83	
5.53		8.53	
18.47		15.48	
0.29		0.38	
563.15		776.41	
26.55		26.93	
135			

	Strong, p. 7		
DA3	DA4	DA5	DA6
vesic 1m	nonv 19m	nonv 21m	nonv crater
53.16	53.50	53.26	53.26
18.45	18.01	18.50	17.78
1.294	1.284	1.308	1.278
8.90	8.29	8.57	8.55
0.15	0.15	0.16	0.15
8.52	8.14	8.31	8.13
3.61	5.12	3.50	5.45
0.98	1.26	1.32	1.26
4.44	3.74	4.57	3.65
0.506	0.497	0.500	0.492
61	58	69	75
104	96	103	97
16	22	23	24
171	147	165	181
615	654	685	642
13	16	20	19
754	719	735	719
158	159	163	160
26	26	26	25
8.4	9.2	8.5	9.2
18	20	21	22
67	11	42	27
79	91	92	93
8	8	7	6
13	34	11	33
53	47	68	62
3	3	0	2
24.67	24.88		
49.46	49.59		
6.20	6.20		
27.01	26.96		
6.35	6.27		
1.94	1.90		
5.70	5.68		
0.89	0.86		
5.20	5.00		
1.02	1.01		
2.72	2.59		
0.39	0.37		
2.43	2.25		
0.38	0.35		
626.66	662.69		
3.13	3.43		
8.01	7.57		
27.10	26.56		
3.89	3.92		
0.44	0.43		
0.83	0.86		
7.04	6.73		
10.14	17.32		
0.28	0.35		
770.87	720.32		
27.21	25.25		
0.703863, +/- 0.000013			
0.512869, +/- 0.000009			

Table DR1, Detailed Geochemistry			
		Day Pit	
Scoria			
DAVL1	DAV1	DAV2A	DAV3
vesic	vesic	vesic	vesic
53.03	53.23	53.24	53.30
18.09	20.66	19.28	19.00
1.246	1.288	1.299	1.298
8.67	8.77	9.14	9.09
0.15	0.15	0.15	0.15
8.23	7.48	8.16	8.22
4.97	2.95	2.90	2.96
1.06	1.00	1.08	1.20
4.07	4.03	4.26	4.29
0.491	0.454	0.488	0.491
67	67	58	59
103	98	100	98
26	22	22	16
177	160	159	163
562	688	668	676
14	9	10	16
737	693	731	741
154	173	169	167
25	26	27	27
9.0	10.2	9.3	9.2
17	19	22	19
65	88	56	56
88	79	77	80
6	11	9	6
14	34	23	31
38	60	50	49
5	5	2	2

DAV4	DAV5	DAV6	DA9
vesic	vesic	vesic	spatter
53.36	53.07	52.80	54.44
19.01	18.43	18.23	18.22
1.307	1.287	1.253	1.194
9.06	9.01	9.02	8.12
0.15	0.15	0.15	0.14
8.20	8.15	8.37	8.03
3.01	3.61	4.26	3.89
1.18	1.40	1.07	1.37
4.23	4.40	4.34	4.13
0.493	0.500	0.497	0.478
48	57	74	55
95	100	106	99
18	25	21	17
171	174	169	184
682	657	612	740
15	19	12	23
735	739	751	757
166	164	159	173
27	25	26	25
9.9	8.5	8.0	8.2
21	18	18	18
59	64	69	66
82	89	91	84
11	8	10	6
23	25	15	19
66	46	50	50
4	3	2	5
			28.86
			59.18
			7.26
			31.10
			7.05
			2.05
			6.06
			0.87
			5.08
			0.98
			2.48
			0.36
			2.14
			0.34
			741.57
			3.93
			7.69
			26.26
			4.32
			0.42
			1.09
			9.34
			22.89
			0.61
			765.64
			24.90
			0.703895, +/- 0.000011
			0.512849, +/- 0.000008

		Strong, p. 8	
	Flow		
DA7	DA8	DA20	
Dike	Dike	lava	
54.15	53.57	53.27	
17.85	17.76	17.75	
1.178	1.159	1.236	
7.72	7.89	8.63	
0.15	0.14	0.15	
8.06	7.91	8.16	
4.82	5.15	5.01	
1.39	1.39	1.24	
4.18	4.55	4.07	
0.498	0.484	0.482	
74	64	78	
99	95	101	
19	20	20	
186	167	203	
736	724	634	
22	19	18	
748	744	729	
168	168	160	
26	25	27	
8.2	8.0	9.3	
18	20	19	
63	43	41	
88	82	90	
6	8	10	
23	24	15	
45	56	46	
2	5	5	
28.71			
56.92			
7.21			
31.16			
7.07			
2.07			
6.14			
0.91			
5.09			
1.00			
2.56			
0.37			
2.26			
0.36			
750.09			
3.99			
7.72			
26.86			
4.41			
0.44			
1.12			
7.41			
21.58			
0.46			
766.28			
24.52			
0.703897, +/- 0.00001			
0.512845, +/- 0.000007			

			Stron
		Horr's Corner	
HC-a	HC-b	HC-c	HC-d
lo spatter			hi spatter
	48.40		48.91
	17.61		17.49
	0.837		0.850
	9.55		9.42
	0.17		0.17
	11.24		11.10
	9.44		9.37
	0.13		0.14
	2.54		2.47
	0.076		0.070
	181		178
	208		204
	39		39
	185		221
	73		81
	1		2
	203		204
	50		52
	23		23
	2.1		2.3
	15		16
	110		106
	56		62
	0		0
	10		4
	13		19
	3		1
2.60	2.51	2.72	2.84
6.70	6.54	6.79	7.26
1.00	1.02	1.07	1.12
5.41	5.63	5.96	6.03
2.03	2.07	2.14	2.24
0.89	0.90	0.93	0.92
2.75	2.85	2.89	3.00
0.54	0.56	0.56	0.58
3.70	3.82	3.87	4.05
0.83	0.87	0.88	0.90
2.36	2.51	2.50	2.62
0.36	0.37	0.38	0.39
2.28	2.42	2.43	2.52
0.38	0.40	0.40	0.40
87.44	70.88	74.39	79.89
0.44	0.14	0.18	0.39
1.07	0.79	0.92	1.07
21.53	22.98	23.14	23.46
1.43	1.25	1.36	1.38
0.07	0.06	0.07	0.08
0.20	0.08	0.10	0.11
2.51	0.83	1.29	1.27
3.86	1.18	1.98	2.47
1.07	0.00	0.04	0.17
192.24	216.60	212.27	210.61
46.02	43.97	44.53	42.93
50	45	47	48

g, p. 9

HC-e
last out
3.05
7.61
1.18
6.31
2.30
0.96
3.05
0.59
4.02
0.89
2.54
0.38
2.47
0.40
75.41
0.20
0.88
22.84
1.36
0.06
0.12
1.34
2.31
0.16
183.68
38.30