

TABLE DR1. MICROPROBE ANALYSES OF FELDSPAR, TUFF OF SAN FELIPE, BAJA CALIFORNIA

SiO_2 (Wt%)	FeO (Wt%)	CaO (Wt%)	Na_2O (Wt%)	Al_2O_3 (Wt%)	K_2O (Wt%)	BaO (Wt%)	Total (Wt%)
Sample locality MA[†]							
66.8	0.2	1.5	7.9	20.1	4.4	0.1	101.0
67.3	0.2	1.3	7.9	20.1	4.6	0.0	101.5
65.9	0.2	3.0	8.8	21.8	1.8	0.0	101.6
67.7	0.1	0.5	6.2	19.4	7.7	0.1	101.6
67.0	0.1	0.6	6.3	19.3	7.4	0.1	100.8
67.8	0.2	0.5	6.2	19.3	7.6	0.1	101.7
67.2	0.2	1.2	7.6	20.0	4.9	0.0	101.2
67.3	0.2	1.0	7.4	19.6	5.3	0.1	100.9
67.1	0.2	0.6	6.4	19.0	7.2	0.1	100.5
67.0	0.2	1.5	8.0	20.2	4.3	0.0	101.1
67.2	0.2	1.2	7.6	20.0	5.0	0.1	101.3
67.5	0.2	1.3	7.5	20.1	5.1	0.0	101.7
66.7	0.2	1.6	8.0	20.4	4.1	0.0	100.9
66.7	0.1	1.7	7.8	20.5	4.1	0.0	101.0
67.0	0.2	1.7	8.0	20.4	4.2	0.0	101.5
67.1	0.1	0.6	6.5	19.3	7.0	0.0	100.7
67.4	0.2	0.5	6.1	19.1	7.7	0.0	101.1
66.6	0.2	0.5	6.2	19.1	7.9	0.0	100.5
57.6	0.1	9.3	6.2	27.3	0.3	0.0	100.9
58.7	0.1	8.4	6.6	26.6	0.3	0.0	100.7
59.6	0.1	7.9	7.0	26.1	0.4	0.0	101.1
67.1	0.1	0.8	7.0	19.7	6.4	0.0	101.1
67.2	0.2	0.9	7.2	19.7	5.9	0.0	101.1
67.9	0.1	0.6	6.2	19.3	7.4	0.0	101.6
66.5	0.2	1.1	7.6	19.7	5.2	0.1	100.4
67.8	0.2	0.5	6.2	19.1	7.7	0.0	101.4
67.2	0.1	0.8	6.9	19.5	6.5	0.0	101.1
67.6	0.1	0.6	6.4	19.2	7.3	0.0	101.2
67.2	0.1	1.2	7.6	19.8	5.1	0.0	101.1
66.9	0.1	1.2	7.6	20.0	5.0	0.1	100.8
66.9	0.1	1.6	7.9	20.1	4.2	0.0	100.9
67.0	0.1	1.2	7.7	19.8	5.1	0.1	101.0
66.9	0.1	1.5	7.8	20.0	4.6	0.0	100.9
67.1	0.1	1.0	7.5	19.7	5.4	0.1	101.0
67.2	0.1	1.2	8.2	19.9	4.2	0.1	100.9
67.2	0.1	0.9	6.9	19.5	6.2	0.0	100.9
67.3	0.1	1.0	7.6	19.6	5.2	0.0	100.9
67.2	0.1	1.4	7.7	20.0	4.8	0.1	101.2
67.3	0.1	1.4	7.8	20.1	4.5	0.2	101.4
66.9	0.1	1.5	8.0	20.2	4.2	0.0	101.0
66.5	0.1	1.5	8.0	20.0	4.3	0.1	100.6
66.9	0.1	1.3	7.7	19.9	4.8	0.0	100.7
67.1	0.1	1.4	7.6	19.9	4.5	0.0	100.7

TABLE DR2. MICROPROBE ANALYSES OF FELDSPAR, TUFF OF SAN FELIPE, SONORA

SiO ₂ (Wt%)	FeO (Wt%)	CaO (Wt%)	Na ₂ O (Wt%)	Al ₂ O ₃ (Wt%)	K ₂ O (Wt%)	BaO (Wt%)	Total (Wt%)
<u>Sample locality BK[†]</u>							
66.2	0.2	1.3	8.0	20.1	4.4	0.1	100.2
66.5	0.2	1.1	7.4	19.8	5.4	0.0	100.5
66.3	0.2	1.3	7.7	20.1	4.6	0.0	100.2
66.5	0.1	1.2	7.5	19.9	5.0	0.0	100.4
67.4	0.2	1.0	7.5	19.8	5.2	0.0	101.1
67.0	0.2	1.2	7.7	20.0	4.7	0.0	100.8
66.8	0.2	0.9	7.0	19.7	6.1	0.1	100.7
66.9	0.1	1.4	7.7	20.2	4.5	0.0	100.9
67.3	0.1	1.1	7.1	19.8	5.7	0.0	101.2
67.1	0.1	1.4	7.9	20.3	4.5	0.0	101.3
66.9	0.1	1.2	7.5	19.9	5.1	0.0	100.8
67.0	0.2	1.4	7.6	20.2	4.6	0.0	101.0
66.9	0.1	1.3	7.5	20.1	5.1	0.0	101.0
67.6	0.2	0.8	6.8	19.7	6.5	0.2	101.7
67.6	0.1	0.6	6.4	19.3	7.0	0.0	101.2
66.5	0.2	1.1	7.5	19.8	5.3	0.0	100.3
66.8	0.1	1.4	7.6	20.1	4.7	0.0	100.6
66.7	0.1	0.7	5.9	19.3	7.7	0.1	100.5
66.4	0.1	1.4	8.2	20.1	3.9	0.1	100.3
66.1	0.1	1.2	7.9	20.0	4.6	0.2	100.1
66.8	0.1	0.9	7.0	19.8	6.1	0.0	100.8
65.4	0.1	1.4	7.7	20.1	4.5	0.0	99.3
67.0	0.0	0.5	6.1	19.3	7.8	0.0	100.7
66.5	0.0	1.2	7.4	19.9	5.2	0.0	100.2
<u>Sample locality PC[§]</u>							
66.5	0.2	1.3	7.7	19.9	4.8	0.1	100.5
66.3	0.2	1.2	7.7	19.7	4.9	0.1	100.1
66.7	0.2	1.4	8.1	19.9	4.5	0.0	100.7

TABLE DR2. CONTINUED

SiO_2 (Wt%)	FeO (Wt%)	CaO (Wt%)	Na_2O (Wt%)	Al_2O_3 (Wt%)	K_2O (Wt%)	BaO (Wt%)	Total [*] (Wt%)
Sample locality SM[#]							
67.2	0.1	0.6	6.5	19.3	7.3	0.0	101.2
66.9	0.2	1.2	7.8	19.9	4.9	0.1	101.0
67.0	0.2	0.9	7.4	19.6	5.8	0.0	100.8
67.0	0.1	1.2	7.5	19.9	5.1	0.0	100.9
66.9	0.2	1.4	7.8	20.0	4.7	0.0	101.0
66.8	0.2	1.1	7.6	19.8	5.3	0.0	100.8
66.5	0.2	1.6	8.1	20.3	4.1	0.0	100.9
66.5	0.2	1.8	8.4	20.5	3.6	0.1	101.0
66.8	0.2	1.1	7.4	19.6	5.4	0.0	100.5
66.4	0.1	0.9	7.1	19.5	6.2	0.1	100.4
66.6	0.2	1.4	7.9	20.1	4.5	0.0	100.7
65.0	0.2	1.5	8.0	20.1	4.2	0.1	99.2
64.4	0.1	1.4	7.9	20.0	4.6	0.1	98.6
66.6	0.2	1.2	7.7	19.9	5.1	0.1	100.7
66.7	0.1	1.6	8.0	20.2	3.9	0.0	100.6
67.0	0.2	1.2	7.8	19.9	5.0	0.0	101.2
67.1	0.1	1.0	7.4	19.7	5.6	0.0	100.9
66.7	0.2	1.5	8.1	20.2	4.3	0.1	100.9
66.7	0.1	1.3	8.0	20.0	4.6	0.1	100.9
66.8	0.2	0.9	7.1	19.4	6.3	0.0	100.6
67.5	0.2	0.8	7.2	19.3	6.0	0.1	101.2
67.2	0.1	0.6	6.7	19.3	7.0	0.0	101.1
67.1	0.2	1.2	7.8	19.8	4.8	0.0	100.9

Note: Each grouping of 2 to 4 analyses is from a single crystal.

* Total of measured weight percent. Measurements with totals less than 98% or greater than 102% were discarded.

[†] Sample number BK-98-13, 28.992° N 112.037° W.

[§] Sample number PC-98-18, 29.003° N 112.083° W.

[#] Sample number TIB-98-23, 28.807° N 112.468° W.

TABLE DR3. MICROPROBE ANALYSES OF PYROXENE, TUFF OF SAN FELIPE, BAJA CALIFORNIA

SiO_2 (Wt%)	MgO (Wt%)	FeO (Wt%)	CaO (Wt%)	Na_2O (Wt%)	TiO_2 (Wt%)	Al_2O_3 (Wt%)	MnO (Wt%)	Total (Wt%)
<u>Sample locality MA[†]</u>								
49.6	2.6	27.1	19.9	0.3	0.2	0.4	0.9	101.2
49.0	2.7	27.1	19.7	0.3	0.2	0.4	1.0	100.4
49.7	2.8	26.4	19.9	0.3	0.2	0.4	1.0	100.8
49.3	2.8	27.2	19.6	0.3	0.1	0.4	1.0	100.9
49.3	2.8	27.0	19.8	0.3	0.2	0.4	1.0	100.8
49.5	2.8	27.4	19.4	0.4	0.2	0.4	1.0	101.1
49.6	3.0	26.4	19.9	0.3	0.1	0.4	1.0	100.9
49.4	2.8	26.9	19.8	0.3	0.2	0.4	0.9	100.7
49.6	2.7	26.7	19.6	0.3	0.1	0.4	1.0	100.5
49.6	2.9	26.7	19.8	0.4	0.2	0.4	0.9	101.0
49.3	2.9	26.7	19.3	0.4	0.1	0.5	1.0	100.3
49.3	2.7	27.5	19.0	0.3	0.2	0.5	1.1	100.5
49.5	2.8	26.9	19.5	0.4	0.2	0.4	1.0	100.8
49.4	2.9	27.2	19.6	0.3	0.2	0.5	1.0	101.2
49.2	2.7	27.8	19.0	0.4	0.2	0.5	1.0	100.7
49.5	3.0	26.5	19.8	0.3	0.2	0.4	0.9	100.7
49.5	2.9	26.9	19.7	0.3	0.2	0.4	0.9	100.9
49.6	2.8	26.9	19.6	0.3	0.1	0.4	1.0	100.8
49.8	2.9	26.5	19.9	0.3	0.1	0.4	1.0	101.0
49.4	2.7	27.3	19.5	0.4	0.2	0.4	1.0	100.9
49.5	2.7	26.9	19.5	0.3	0.2	0.4	1.0	100.6
49.5	2.9	26.9	19.6	0.4	0.1	0.4	1.0	100.9
49.3	7.4	39.4	1.7	0.1	0.1	0.6	1.6	100.2
50.1	5.3	22.8	19.4	0.4	0.2	0.6	0.9	99.9
49.7	2.6	27.5	19.8	0.3	0.2	0.4	1.0	101.5
48.9	2.3	27.8	19.5	0.3	0.2	0.5	0.9	100.6
49.5	2.7	26.8	19.9	0.3	0.2	0.4	0.9	100.8
49.3	2.7	27.1	19.5	0.4	0.2	0.4	0.9	100.5
49.2	2.6	27.2	19.8	0.3	0.1	0.4	0.9	100.6
48.9	2.1	27.0	19.8	0.3	0.1	0.4	0.8	99.6
49.2	2.8	24.8	19.7	0.3	0.2	0.4	0.7	98.1
49.4	3.0	24.3	19.8	0.3	0.2	0.4	0.7	98.1
48.5	1.6	26.4	19.2	0.4	0.3	0.6	0.9	98.1
48.4	1.5	28.6	18.9	0.4	0.4	0.7	1.2	100.3
49.3	2.7	26.4	19.5	0.4	0.2	0.4	0.9	99.9
49.3	2.9	26.3	19.4	0.3	0.2	0.5	0.9	100.0
49.5	2.9	24.5	19.2	0.3	0.2	0.6	1.0	98.3
49.3	2.9	23.1	19.7	0.3	0.2	0.4	1.0	97.0
<u>Sample locality SRB[§]</u>								
49.3	2.7	27.4	19.8	0.3	0.2	0.4	1.0	101.2
49.5	2.9	27.3	18.7	0.4	0.2	0.5	0.9	100.4
49.0	2.8	27.6	19.1	0.4	0.2	0.4	0.9	100.4
48.8	2.3	27.8	17.1	0.8	0.2	0.5	0.9	98.6
49.0	2.4	28.3	18.5	0.5	0.2	0.4	0.9	100.4
50.4	7.6	19.8	19.8	0.4	0.3	0.9	1.0	100.3
50.7	7.6	20.1	19.6	0.4	0.4	0.8	1.1	100.7
50.4	7.5	19.8	19.7	0.4	0.4	0.8	1.0	100.0
51.2	9.4	17.6	19.5	0.4	0.4	1.0	0.9	100.4
51.3	9.5	18.2	19.5	0.4	0.4	0.9	0.9	101.2
51.4	9.6	17.2	19.4	0.4	0.5	1.0	0.9	100.5
49.2	2.4	29.0	16.8	0.7	0.2	0.7	0.8	100.1

TABLE DR3. CONTINUED

SiO_2 (Wt%)	MgO (Wt%)	FeO (Wt%)	CaO (Wt%)	Na_2O (Wt%)	TiO_2 (Wt%)	Al_2O_3 (Wt%)	MnO (Wt%)	Total (Wt%)
<u>Sample Locality SFD[#]</u>								
49.1	2.7	27.4	19.9	0.3	0.2	0.5	1.0	101.1
49.2	2.7	27.6	20.0	0.3	0.2	0.4	1.0	101.5
49.3	2.8	27.5	19.8	0.3	0.2	0.4	0.9	101.4
49.2	2.9	27.8	19.8	0.3	0.2	0.5	0.9	101.6
49.3	2.7	27.6	19.8	0.3	0.2	0.4	0.9	101.2
49.3	3.0	28.0	19.6	0.4	0.2	0.4	0.9	101.8
49.0	2.6	27.8	18.7	0.4	0.2	1.0	1.0	100.7
49.2	2.8	27.3	19.8	0.3	0.2	0.4	1.0	101.1
49.4	2.8	27.2	19.6	0.3	0.2	0.4	1.0	101.1
49.4	3.0	27.3	19.8	0.3	0.2	0.4	1.0	101.4
49.3	2.9	27.5	19.4	0.4	0.1	0.6	1.0	101.2
<u>Sample locality SIW^{**}</u>								
49.4	2.7	27.4	20.0	0.3	0.2	0.4	1.0	101.4
49.1	2.9	26.9	19.8	0.4	0.2	0.5	1.0	100.7
49.3	2.9	27.8	19.7	0.3	0.2	0.4	0.9	101.7
49.5	2.7	27.7	19.6	0.3	0.2	0.5	1.0	101.5
49.3	2.7	28.0	19.5	0.3	0.1	0.5	1.0	101.5
49.5	2.7	28.1	19.6	0.3	0.2	0.4	1.0	101.9
52.5	19.4	27.7	0.8	0.0	0.1	0.4	0.6	101.7
52.1	19.1	26.5	1.5	0.0	0.2	0.8	0.6	100.9
53.4	16.7	25.8	0.8	0.1	0.1	0.8	0.6	98.4
48.5	2.6	27.4	19.8	0.3	0.2	0.5	1.0	100.4
48.7	2.8	26.7	19.9	0.3	0.1	0.4	0.9	99.8
48.8	2.8	26.2	20.0	0.3	0.2	0.4	0.9	99.8
<u>Sample locality MC^{††}</u>								
48.1	3.0	26.6	18.7	0.3	0.1	0.4	1.0	98.3
48.3	3.1	25.8	19.2	0.3	0.2	0.4	0.9	98.3
47.9	3.1	26.3	19.2	0.4	0.1	0.4	1.0	98.4

Note: Each grouping of 1 to 4 analyses is from a single crystal.

^{*} Total of measured weight percent. Measurements with totals less than 98% or greater than 102% were discarded.

[†] First 22 analyses: Sample MT-92-14, 30.347° N 115.017° W. Second 16 analyses: Sample MT-92-20, 30.348° N 114.956° W.

[§] Sample number SRB-B316A, 30.849° N 114.963° W.

[#] Sample number SFD-4C, 30.708° N 114.840° W.

^{**} Sample number PVPQ-306A, 30.410° N 114.806° W.

^{††} Sample number MC-2, 30.529° N 114.968° W.

TABLE DR4. MICROPROBE ANALYSES OF PYROXENE, TUFF OF SAN FELIPE, SONORA

SiO ₂ (Wt%)	MgO (Wt%)	FeO (Wt%)	CaO (Wt%)	Na ₂ O (Wt%)	TiO ₂ (Wt%)	Al ₂ O ₃ (Wt%)	MnO (Wt%)	Total (Wt%)
<u>Sample locality BK[†]</u>								
48.4	2.7	26.9	19.4	0.3	0.2	0.4	0.9	99.2
48.4	2.6	27.4	19.4	0.4	0.2	0.5	0.9	99.8
48.6	2.7	26.9	19.1	0.3	0.2	0.4	1.0	99.2
48.7	2.8	26.7	19.7	0.4	0.2	0.4	1.0	99.9
48.7	2.7	26.4	19.4	0.3	0.2	0.4	0.9	99.2
49.9	3.6	24.9	19.1	0.3	0.2	1.0	1.0	100.2
49.2	2.7	26.6	19.3	0.3	0.1	0.5	1.1	100.0
49.3	3.0	25.5	19.9	0.3	0.2	0.4	1.0	99.8
49.4	2.6	26.8	20.1	0.3	0.1	0.4	0.9	100.8
49.2	2.6	27.1	19.8	0.3	0.2	0.5	1.0	101.0
49.1	2.6	26.6	20.1	0.3	0.2	0.4	1.0	100.3
50.5	6.0	21.6	20.1	0.4	0.2	0.7	1.0	100.5
49.3	3.1	25.7	19.9	0.3	0.2	0.4	1.0	100.1
48.5	2.8	25.9	19.8	0.3	0.2	0.4	1.1	99.1
48.4	2.7	26.8	20.0	0.3	0.2	0.4	1.1	99.9
49.0	2.7	26.4	20.0	0.3	0.2	0.4	1.1	100.0
49.1	2.8	26.4	19.9	0.3	0.2	0.4	1.1	100.3
49.3	2.6	27.1	20.0	0.3	0.2	0.5	1.1	101.0
49.4	2.6	27.5	19.6	0.4	0.2	0.5	1.1	101.4
49.6	2.9	26.2	20.0	0.3	0.2	0.4	1.1	100.8
49.0	2.7	26.7	20.0	0.3	0.1	0.4	1.1	100.4
49.0	2.7	26.5	19.9	0.4	0.2	0.4	1.0	100.1
49.1	2.7	26.4	20.0	0.3	0.2	0.4	1.0	100.3
<u>Sample locality PC[§]</u>								
48.7	2.3	27.9	19.2	0.4	0.2	0.5	1.0	100.2
48.6	2.6	27.5	19.6	0.3	0.2	0.4	1.0	100.1
48.6	2.5	27.5	19.5	0.4	0.3	0.5	0.9	100.3
<u>Sample locality SM[#]</u>								
49.4	2.7	27.1	19.6	0.4	0.2	0.5	1.0	100.8
49.4	2.7	27.3	19.5	0.3	0.2	0.4	1.0	100.8
49.8	2.7	27.2	19.0	0.4	0.2	0.5	1.0	100.9
49.4	2.9	27.2	19.4	0.3	0.2	0.4	1.0	100.8
49.4	2.9	26.9	19.6	0.3	0.2	0.4	0.9	100.7
49.2	2.8	27.0	19.3	0.4	0.2	0.4	1.1	100.4
49.3	2.6	27.8	19.3	0.3	0.2	0.5	1.0	100.9
49.1	2.8	27.0	19.6	0.3	0.2	0.4	1.0	100.5
49.0	2.8	27.1	19.5	0.4	0.2	0.4	1.0	100.3
48.7	3.0	26.4	19.2	0.3	0.1	0.6	1.0	99.4
49.0	2.9	27.1	19.2	0.3	0.2	0.4	1.0	100.2
49.1	2.8	27.0	19.4	0.3	0.2	0.5	1.0	100.4
49.1	3.1	27.1	19.1	0.4	0.2	0.4	1.0	100.3
49.0	2.6	27.4	19.4	0.3	0.2	0.4	1.0	100.3
49.3	2.7	27.6	19.2	0.4	0.2	0.4	1.0	100.8
49.1	2.7	27.5	19.3	0.4	0.1	0.4	0.9	100.6
49.2	3.0	27.0	19.5	0.3	0.2	0.4	0.9	100.5

Note: Each grouping of 2 to 3 analyses is from a single crystal.

* Total of measured weight percent. Measurements with totals less than 98% or greater than 102% were discarded.

† First group (3 analyses): Sample BK-98-03, 28.883° N 112.008° W. Second group (20 analyses): Sample BK-98-13, 28.992°N 112.037° W.

§ Sample number PC-98-18, 29.003° N 112.083° W.

Sample number TIB-98-23, 28.807° N 112.468° W

TABLE DR5. MICROPROBE ANALYSES OF FELDSPAR,
TMR3 IGNIMBRITE, BAJA CALIFORNIA

SiO_2 (Wt%)	FeO (Wt%)	CaO (Wt%)	Na_2O (Wt%)	Al_2O_3 (Wt%)	K_2O (Wt%)	BaO (Wt%)	Total [*] (Wt%)
<u>Sample locality VC[†]</u>							
67.8	0.2	0.4	7.7	19.5	5.9	0.3	101.9
68.0	0.2	0.4	7.6	19.3	5.9	0.3	101.7
68.0	0.2	0.5	8.0	19.5	5.4	0.5	102.0
68.1	0.2	0.5	7.8	19.5	5.6	0.2	101.8
68.0	0.2	0.4	7.6	19.4	5.9	0.4	101.8
68.1	0.2	0.3	7.5	19.4	6.1	0.2	101.9
67.3	0.2	0.4	7.6	19.4	5.6	0.4	100.9
66.7	0.2	0.5	7.8	19.2	5.5	0.3	100.1
66.8	0.2	0.5	7.5	19.4	5.5	0.4	100.4
67.2	0.2	0.5	7.6	19.3	5.6	0.4	100.7
63.1	0.1	4.9	8.7	23.6	0.8	0.3	101.4
60.3	0.2	6.4	8.0	24.7	0.6	0.2	100.3
67.4	0.2	0.5	8.0	19.2	5.1	0.5	100.8
66.7	0.2	0.9	8.4	19.7	4.2	0.3	100.4
62.1	0.2	5.0	8.5	23.4	0.8	0.3	100.2
62.2	0.2	4.9	8.5	23.4	0.7	0.4	100.4
<u>Sample locality SFE[§]</u>							
64.2	0.1	1.6	8.8	20.7	3.1	0.7	99.3
63.9	0.1	1.0	7.6	20.1	4.9	1.4	99.1
64.4	0.1	1.3	8.7	20.5	3.5	1.3	99.7
66.2	0.1	0.3	7.6	19.0	5.9	0.3	99.4
65.7	0.1	0.4	7.6	19.2	5.9	0.3	99.3
65.7	0.2	0.3	7.6	19.1	6.0	0.3	99.1
65.2	0.1	0.6	8.3	19.5	4.6	0.3	98.8
65.7	0.2	0.3	7.7	19.2	5.8	0.3	99.2
65.8	0.2	0.4	8.1	19.3	5.2	0.4	99.3
<u>Sample Locality SIW[#]</u>							
66.8	0.2	0.3	7.5	19.5	6.1	0.4	100.9
66.2	0.2	0.4	7.7	19.5	5.8	0.3	100.1
66.6	0.1	0.4	7.8	19.5	6.0	0.2	100.6
66.8	0.2	0.3	7.6	19.4	6.3	0.2	100.9
66.8	0.2	0.3	7.6	19.4	6.2	0.3	100.7
66.6	0.2	0.3	7.3	19.3	6.5	0.2	100.5
65.9	0.2	0.3	7.3	19.1	6.3	0.3	99.5
65.8	0.2	0.3	7.2	19.2	6.4	0.2	99.2

Note: Each grouping of 1 to 3 analyses is from a single crystal.

^{*}Total of measured weight percent. Measurements with totals less than 98% or greater than 102% were discarded.

[†] Sample number VC-86-148, 30.523° N 115.102° W.

[§] Sample number SF-00-11, 30.649° N 114.856° W.

[#] Sample number PVPL-231A, 30.384°N, 114.917° W.

TABLE DR6. MICROPROBE ANALYSES OF FELDSPAR, TMR3 IGNIMBRITE, SONORA

SiO_2 (Wt%)	FeO (Wt%)	CaO (Wt%)	Na_2O (Wt%)	Al_2O_3 (Wt%)	K_2O (Wt%)	BaO (Wt%)	Total (Wt%)
<u>Sample locality SM^T</u>							
67.7	0.2	0.3	7.5	19.1	6.4	0.3	101.5
67.9	0.2	0.3	7.5	18.8	6.5	0.2	101.3
68.0	0.2	0.3	7.4	19.1	6.5	0.2	101.6
67.0	0.2	0.3	7.4	18.9	6.2	0.4	100.5
66.6	0.2	0.8	8.1	19.6	4.9	0.7	100.9
66.4	0.2	0.5	7.9	19.2	5.3	0.5	100.1
66.7	0.2	0.6	8.2	19.5	4.8	0.4	100.5
66.9	0.2	0.3	7.4	18.9	6.6	0.3	100.4
66.8	0.2	0.3	7.3	18.9	6.4	0.2	100.1
67.1	0.2	0.3	7.5	18.9	6.2	0.3	100.5
66.8	0.2	0.3	7.2	18.6	6.4	0.2	99.7
66.8	0.2	0.3	7.3	18.7	6.5	0.2	100.0
66.8	0.1	0.3	7.4	18.9	6.3	0.2	100.0
66.4	0.2	0.3	7.4	18.9	6.3	0.3	99.8
67.3	0.2	0.3	7.5	18.9	6.2	0.3	100.7
66.5	0.1	0.7	8.3	19.3	4.9	0.4	100.2
64.9	0.2	0.4	7.4	19.0	5.9	0.3	98.1
65.1	0.1	0.3	7.3	18.8	6.0	0.3	98.0
65.0	0.2	0.5	7.6	19.1	5.5	0.4	98.4
65.3	0.2	0.4	7.5	18.9	5.7	0.3	98.2
65.4	0.2	0.4	7.6	19.0	5.7	0.2	98.4
65.2	0.2	0.3	7.2	18.9	6.3	0.3	98.5
65.4	0.2	0.3	7.3	18.9	6.2	0.3	98.6
65.5	0.2	0.3	7.4	19.0	6.2	0.3	98.8
66.1	0.2	0.3	7.6	19.0	6.0	0.2	99.3
66.0	0.2	0.3	7.5	19.1	5.9	0.3	99.3
65.9	0.2	0.3	7.5	19.2	6.0	0.3	99.4
<u>Sample locality PR^S</u>							
67.0	0.2	0.3	7.3	19.3	6.5	0.4	100.9
66.9	0.2	0.4	7.6	19.5	6.0	0.3	100.8
67.0	0.1	0.4	7.7	19.6	5.7	0.2	100.9
66.5	0.2	0.3	7.4	19.3	6.2	0.3	100.1
66.3	0.2	0.4	7.8	19.6	5.4	0.3	100.1
66.2	0.2	0.4	7.8	19.4	5.6	0.4	99.9
65.9	0.1	0.4	7.6	19.2	5.6	0.3	99.2
65.7	0.2	0.5	7.7	19.5	5.2	0.4	99.3
66.0	0.1	0.4	7.7	19.2	5.4	0.3	99.1

TABLE DR6. CONTINUED

SiO ₂ (Wt%)	FeO (Wt%)	CaO (Wt%)	Na ₂ O (Wt%)	Al ₂ O ₃ (Wt%)	K ₂ O (Wt%)	BaO (Wt%)	Total [*] (Wt%)
Sample Locality SK[#]							
66.5	0.2	0.3	7.3	19.2	6.4	0.4	100.3
66.6	0.2	0.3	7.4	19.4	6.2	0.2	100.5
66.6	0.2	0.4	7.9	19.6	5.4	0.4	100.6
67.3	0.2	0.3	7.5	19.0	5.6	0.4	100.3
66.6	0.2	0.4	7.8	19.6	5.5	0.3	100.4
66.7	0.2	0.3	7.4	19.4	6.3	0.3	100.6
66.6	0.2	0.3	7.6	19.4	5.8	0.2	100.0
66.5	0.2	0.4	8.2	19.6	5.0	0.3	100.2
66.4	0.2	0.5	8.2	19.8	4.8	0.4	100.3
65.9	0.2	0.3	7.4	18.9	5.8	0.3	98.9
65.7	0.2	0.3	7.3	19.0	5.8	0.2	98.5
65.7	0.2	0.3	7.5	19.1	5.7	0.2	98.7
65.7	0.2	0.4	7.5	19.0	5.7	0.4	98.9
65.5	0.2	0.4	7.9	19.0	5.1	0.3	98.4
65.7	0.2	0.3	7.5	18.8	5.8	0.3	98.7

Note: Each grouping of 1 to 3 analyses is from a single crystal.

* Total of measured weight percent. Measurements with totals less than 98% or greater than 102% were discarded.

[†] First 16 analyses: Sample TIB-98-12, 28.979° N 112.455° W. Second 11 analyses: Sample BV-99-08, 28.917° N, 112.447° W.

[§] Sample number PRS-309, 29.052° N 112.500° W.

[#] Sample number BA-99-13, 29.171° N 112.358° W.

TABLE DR7. MICROPROBE ANALYSES OF PYROXENE, TMR3 IGNIMBRITE, BAJA CALIFORNIA

SiO_2 (Wt%)	MgO (Wt%)	FeO (Wt%)	CaO (Wt%)	Na_2O (Wt%)	TiO_2 (Wt%)	Al_2O_3 (Wt%)	MnO (Wt%)	Total (Wt%)
Sample locality VC[†]								
49.6	3.5	26.8	19.4	0.5	0.2	0.3	0.7	101.0
49.2	2.5	28.4	19.3	0.6	0.3	0.3	0.7	101.3
49.4	2.6	28.3	19.3	0.5	0.1	0.2	0.8	101.3
52.7	18.5	26.9	1.6	0.0	0.2	0.7	0.7	101.4
52.9	19.4	25.0	1.5	0.0	0.2	1.0	0.7	100.9
51.1	15.2	31.4	1.5	0.0	0.3	0.8	0.9	101.4
49.0	7.4	41.7	1.6	0.0	0.1	0.2	1.3	101.5
50.3	4.1	26.3	19.4	0.5	0.2	0.4	0.7	101.9
50.6	6.9	22.8	18.4	0.5	0.4	1.1	0.8	101.5
50.2	6.3	23.1	19.0	0.4	0.2	0.5	0.7	100.6
50.3	6.7	23.5	18.4	0.3	0.2	0.5	0.7	100.6
50.6	6.7	22.6	19.2	0.4	0.1	0.5	0.7	100.9
50.8	7.6	21.8	18.7	0.4	0.2	0.7	0.7	100.9
50.6	6.5	22.9	19.3	0.4	0.1	0.5	0.7	101.2
50.6	7.8	22.8	18.0	0.4	0.3	0.7	0.7	101.3
50.4	6.7	23.8	18.5	0.4	0.2	0.6	0.7	101.5
49.8	3.0	27.3	19.6	0.5	0.2	0.3	0.7	101.5
50.1	3.2	26.8	19.3	0.5	0.1	0.5	0.6	101.2
48.5	7.3	41.4	1.4	0.0	0.2	0.2	1.3	100.3
48.8	7.6	40.3	1.8	0.0	0.1	0.1	1.3	100.2
50.3	5.7	24.1	19.2	0.5	0.2	0.4	0.8	101.2
49.5	3.9	26.4	19.4	0.5	0.1	0.3	0.7	100.8
49.7	3.8	26.2	19.6	0.5	0.1	0.3	0.7	100.9
49.5	10.8	37.1	1.3	0.0	0.1	0.4	1.0	100.3
49.2	9.5	39.1	1.2	0.0	0.1	0.4	1.1	100.6
49.6	3.4	27.1	19.6	0.5	0.1	0.3	0.7	101.3
49.9	3.4	27.2	19.6	0.5	0.2	0.3	0.8	101.8
49.7	3.2	27.4	19.6	0.5	0.2	0.3	0.7	101.6
49.7	3.2	27.5	19.7	0.5	0.1	0.3	0.7	101.8
49.7	4.1	26.5	19.4	0.5	0.1	0.4	0.7	101.5
49.4	9.2	39.3	1.3	0.1	0.1	0.4	1.2	101.2
49.1	8.1	41.1	1.3	0.0	0.1	0.2	1.3	101.3
49.8	7.7	36.2	5.8	0.2	0.1	0.3	1.1	101.1
49.9	2.9	27.7	19.9	0.5	0.2	0.3	0.7	102.0
49.4	3.3	26.7	19.3	0.5	0.1	0.3	0.7	100.4
49.1	2.8	27.6	19.2	0.5	0.2	0.3	0.7	100.5
49.5	3.4	26.5	19.7	0.5	0.2	0.3	0.7	100.7
49.3	2.9	27.4	20.0	0.5	0.2	0.3	0.7	101.2
48.5	3.3	27.0	19.3	0.5	0.1	0.4	0.7	100.0
49.8	2.7	27.4	19.9	0.5	0.1	0.2	0.8	101.6
49.9	2.9	27.3	19.6	0.5	0.1	0.3	0.7	101.4
49.6	3.0	27.4	18.7	0.5	0.1	0.4	0.7	100.5
50.7	7.5	21.5	19.1	0.3	0.2	0.6	0.6	100.6
49.8	6.4	22.8	19.1	0.4	0.1	0.6	0.6	99.9
49.0	3.8	25.9	19.0	0.4	0.2	0.4	0.7	99.4
49.9	5.0	23.9	19.2	0.5	0.2	0.6	0.7	100.0
48.7	5.9	23.9	18.5	0.5	0.2	0.6	0.6	99.1

TABLE DR7. CONTINUED

SiO_2 (Wt%)	MgO (Wt%)	FeO (Wt%)	CaO (Wt%)	Na_2O (Wt%)	TiO_2 (Wt%)	Al_2O_3 (Wt%)	MnO (Wt%)	Total (Wt%)
<u>Sample locality SFE[§]</u>								
49.5	4.3	26.4	19.8	0.5	0.2	0.4	0.7	101.8
49.1	3.6	27.1	19.7	0.5	0.2	0.3	0.8	101.4
49.2	3.8	26.5	19.6	0.5	0.1	0.3	0.7	100.8
48.8	9.6	40.1	1.4	0.0	0.2	0.2	1.5	101.8
48.6	9.0	40.0	1.5	0.0	0.2	0.2	1.4	101.0
48.6	8.5	40.5	1.5	0.0	0.1	0.2	1.3	100.8
49.0	3.9	27.4	19.6	0.5	0.1	0.3	0.7	101.5
48.4	3.7	26.6	19.5	0.5	0.2	0.3	0.8	99.9
47.9	2.7	27.6	19.6	0.5	0.2	0.2	0.7	99.7
48.6	2.7	27.8	20.0	0.5	0.2	0.2	0.7	100.7
48.6	3.2	27.0	19.6	0.5	0.1	0.3	0.8	100.2
48.6	3.5	27.3	19.1	0.5	0.1	0.3	0.7	100.2
48.3	3.7	26.9	19.2	0.5	0.2	0.3	0.7	99.9
48.5	4.0	26.3	19.3	0.5	0.2	0.3	0.7	99.8
48.6	3.9	26.6	19.3	0.5	0.1	0.3	0.7	100.0
48.4	3.3	27.1	19.3	0.5	0.1	0.3	0.7	99.8
<u>Sample Locality SIW[#]</u>								
48.7	3.6	27.0	19.4	0.5	0.1	0.3	0.7	100.4
48.7	3.7	27.0	19.4	0.4	0.2	0.3	0.7	100.5
48.7	3.9	26.5	19.3	0.5	0.1	0.3	0.7	100.0
48.8	10.8	37.0	1.4	0.0	0.1	0.2	1.1	99.7
47.6	7.6	41.3	1.9	0.0	0.2	0.4	1.3	100.1
48.8	3.9	26.1	19.3	0.5	0.2	0.3	0.8	99.8
48.9	4.0	26.3	19.1	0.5	0.1	0.3	0.7	100.0
49.7	12.6	35.4	1.3	0.0	0.1	0.4	1.1	100.7
49.9	6.7	24.2	18.4	0.4	0.2	0.5	0.8	101.1
49.6	5.0	25.9	19.3	0.5	0.2	0.4	0.8	101.6
49.6	3.9	26.6	19.7	0.5	0.1	0.3	0.8	101.4
49.2	9.5	40.0	1.4	0.0	0.1	0.2	1.3	101.9
49.0	9.2	40.3	1.5	0.0	0.1	0.2	1.4	101.9
48.3	7.9	41.9	1.4	0.0	0.1	0.2	1.3	101.3
49.6	4.6	26.6	19.2	0.5	0.1	0.3	0.8	101.8
49.4	3.9	26.8	19.7	0.5	0.1	0.3	0.7	101.5
49.4	3.6	27.0	19.9	0.4	0.2	0.3	0.8	101.8

Note: Each grouping of 2 to 10 analyses is from a single crystal.

[†] Total of measured weight percent. Measurements with totals less than 98% or greater than 102% were discarded.[‡] Sample number VC-86-148, 30.523° N 115.102° W.[§] Sample number SF-00-11, 30.649° N 114.856° W.[#] Sample number PVPL-231A, Tmr3-type II, 30.384°N, 114.917° W.

TABLE DR8. MICROPROBE ANALYSES OF PYROXENE, TMR3 IGNIMBRITE, SONORA

SiO ₂ (Wt%)	MgO (Wt%)	FeO (Wt%)	CaO (Wt%)	Na ₂ O (Wt%)	TiO ₂ (Wt%)	Al ₂ O ₃ (Wt%)	MnO (Wt%)	Total (Wt%)
<u>Sample locality SM[†]</u>								
48.9	3.3	26.4	19.7	0.5	0.2	0.3	0.7	99.8
49.8	4.1	25.8	20.0	0.4	0.2	0.3	0.7	101.4
49.6	2.2	27.1	19.0	0.5	0.2	0.6	0.7	100.0
49.8	3.9	26.2	19.6	0.5	0.1	0.3	0.8	101.3
49.3	3.1	27.0	19.6	0.5	0.2	0.3	0.7	100.9
49.7	3.8	26.5	19.6	0.5	0.1	0.3	0.7	101.3
49.5	3.8	26.0	19.6	0.5	0.1	0.3	0.7	100.6
49.5	4.6	26.4	19.6	0.5	0.1	0.3	0.7	101.7
49.8	3.9	27.0	19.6	0.5	0.2	0.3	0.7	101.9
49.4	3.7	26.4	19.5	0.5	0.2	0.3	0.7	100.9
48.8	12.2	36.3	1.0	0.0	0.2	0.9	1.0	100.4
47.4	7.3	42.7	1.3	0.0	0.2	0.3	1.4	100.6
48.8	3.8	27.3	19.6	0.5	0.2	0.3	0.7	101.2
48.9	3.3	27.5	19.7	0.5	0.1	0.3	0.7	101.1
47.8	3.9	26.8	19.3	0.5	0.1	0.3	0.7	99.5
48.8	9.2	40.5	1.3	0.0	0.1	0.2	1.3	101.6
49.2	9.7	39.7	1.4	0.0	0.1	0.2	1.4	101.9
48.7	8.6	41.3	1.4	0.0	0.1	0.2	1.4	101.8
49.5	4.4	27.2	18.8	0.5	0.1	0.3	0.8	101.6
49.3	3.9	26.9	19.6	0.5	0.2	0.3	0.7	101.4
48.7	10.3	39.3	1.0	0.0	0.1	0.7	1.1	101.4
49.3	12.1	36.8	1.0	0.0	0.2	0.8	1.0	101.3
49.0	3.3	26.4	19.2	0.5	0.2	0.3	0.8	99.8
48.6	2.4	27.8	19.5	0.5	0.2	0.2	0.7	100.0
48.5	2.5	27.8	19.4	0.5	0.2	0.2	0.8	99.8
48.2	3.8	25.9	18.9	0.5	0.1	0.3	0.7	98.6
48.3	3.6	25.9	18.8	0.4	0.1	0.3	0.7	98.2
48.5	3.9	25.6	19.1	0.4	0.2	0.3	0.7	98.8
48.4	3.8	25.1	19.2	0.5	0.1	0.3	0.7	98.2
47.8	2.6	27.0	19.2	0.5	0.2	0.2	0.7	98.3
47.9	2.7	26.7	19.0	0.6	0.2	0.3	0.7	98.1
48.8	3.2	26.6	19.1	0.5	0.2	0.3	0.6	99.3
48.8	2.8	27.0	19.5	0.5	0.2	0.3	0.7	99.7
48.8	3.5	26.2	19.5	0.5	0.1	0.3	0.6	99.5
<u>Sample locality PR[§]</u>								
48.8	3.9	26.4	19.0	0.5	0.2	0.3	0.7	99.9
48.5	3.2	27.0	19.4	0.5	0.1	0.3	0.7	99.8
49.9	6.1	24.1	18.9	0.4	0.2	0.4	0.8	100.9
50.0	6.0	24.4	18.8	0.4	0.1	0.4	0.8	101.0
49.8	5.0	25.2	19.3	0.4	0.1	0.4	0.7	101.0
48.9	3.1	27.5	19.5	0.6	0.2	0.3	0.7	100.8
48.6	2.6	28.1	19.8	0.5	0.2	0.2	0.8	100.8
48.5	3.3	27.4	19.9	0.5	0.2	0.3	0.7	100.7
48.9	1.9	29.3	19.5	0.6	0.2	0.2	0.9	101.6
49.0	2.6	28.1	19.6	0.6	0.2	0.2	0.8	101.1
48.7	3.0	27.5	19.4	0.5	0.1	0.3	0.8	100.4
48.5	4.1	26.0	19.1	0.4	0.2	0.4	0.7	99.4
48.4	2.4	27.9	19.6	0.5	0.2	0.2	0.7	100.0
48.3	2.2	28.4	19.8	0.6	0.2	0.2	0.8	100.5
48.1	3.2	26.3	19.1	0.5	0.2	0.3	0.7	98.6
48.8	3.9	26.6	19.0	0.5	0.1	0.3	0.8	100.1
48.6	3.9	26.4	19.0	0.5	0.2	0.3	0.8	99.7
48.9	4.7	25.6	18.9	0.5	0.2	0.4	0.8	99.9
49.0	4.2	26.1	19.4	0.4	0.1	0.3	0.7	100.3

49.2	4.6	25.7	19.1	0.5	0.2	0.4	0.8	100.6
TABLE DR8. CONTINUED								
SiO ₂ (Wt%)	MgO (Wt%)	FeO (Wt%)	CaO (Wt%)	Na ₂ O (Wt%)	TiO ₂ (Wt%)	Al ₂ O ₃ (Wt%)	MnO (Wt%)	Total (Wt%)
Sample Locality SK [#]								
47.9	2.3	28.9	18.5	0.5	0.2	0.3	0.8	99.4
48.6	2.7	27.6	19.3	0.5	0.1	0.3	0.8	99.8
48.7	3.9	26.0	19.1	0.5	0.2	0.3	0.7	99.4
48.2	4.0	25.4	19.2	0.4	0.2	0.3	0.7	98.5
49.2	4.6	25.4	18.9	0.4	0.1	0.5	0.7	99.8
48.9	4.0	26.0	19.1	0.4	0.1	0.4	0.7	99.9
49.3	3.7	26.1	19.3	0.5	0.1	0.3	0.7	100.0
49.2	3.4	26.8	19.1	0.5	0.1	0.3	0.7	100.3
49.0	3.3	26.5	19.6	0.5	0.1	0.3	0.7	100.0
49.0	2.9	27.4	19.5	0.5	0.1	0.3	0.8	100.5
48.8	2.6	27.6	19.2	0.6	0.2	0.3	0.7	99.9
48.3	2.8	27.2	19.1	0.5	0.1	0.3	0.8	99.0
48.4	3.0	27.2	19.1	0.5	0.2	0.3	0.7	99.3
47.1	6.5	41.7	1.6	0.0	0.1	0.2	1.4	98.5
48.2	3.1	26.8	19.4	0.4	0.1	0.2	0.7	99.0
48.3	3.5	26.7	19.3	0.5	0.2	0.3	0.7	99.4
48.5	3.4	26.7	19.3	0.5	0.2	0.3	0.7	99.6
48.3	3.2	26.5	19.7	0.5	0.1	0.3	0.8	99.4

Note: Each grouping of 1 to 5 analyses is from a single crystal.

^{*} Total of measured weight percent. Measurements with totals less than 98% or greater than 102% were discarded.

[†] First group (22 analyses): Sample TIB-98-12, 28.979° N -112.455° W. Second group (13 analyses): Sample BV-99-08, 28.917° N, 112.447° W.

[§] Sample number PRS-309, 29.052° N 112.500° W.

[#] Sample number BA-99-13, 29.171° N 112.358° W.

TABLE DR9: WHOLE-ROCK GEOCHEMICAL ANALYSES FROM CORRELATIVE TUFFS

Component	Tuff of San Felipe [†]		Tmr3 ignimbrite		Tmr4 ignimbrite	
	Coastal Sonora [§]	Isla Tiburón [#]	Sierra San Fermín ^{††}	Isla Tiburón ^{§§}	Sierra San Fermín ^{##}	Isla Tiburón ^{†††}
SiO ₂ (%)	76 .57	76 .50	75 .90	75 .88	74 .33	76 .24
TiO ₂	0 .13	0 .12	0 .13	0 .14	0 .16	0 .16
Al ₂ O ₃	12 .67	12 .62	12 .45	12 .29	12 .79	12 .78
Fe ₂ O ₃ *	1 .81	1 .75	1 .80	1 .88	1 .37	1 .36
MnO	0 .04	0 .04	0 .03	0 .03	0 .03	0 .03
MgO	0 .18	0 .08	0 .67	0 .19	0 .34	0 .32
CaO	1 .13	0 .69	0 .65	0 .62	3 .44	0 .96
Na ₂ O	4 .72	4 .38	3 .88	4 .24	3 .82	3 .78
K ₂ O	2 .58	3 .90	4 .31	4 .34	3 .95	4 .54
P ₂ O ₅	0 .01	0 .01	0 .01	0 .01	0 .06	0 .02
Total	99 .84	100 .07	99 .83	99 .63	100 .28	100 .17
Y (ppm)	51 .8	52 .6	53 .6	55 .4	26 .7	27 .6
U	5	5	4	4	3	4
Rb	176 .3	195 .4	155 .6	149 .8	124 .9	129 .9
Th	17	18	12	12	10	10
Pb	28	25	29	19	23	15
Ga	21	22	23	23	16	16
Nb	24 .6	25 .0	20 .5	21 .1	11 .9	12 .6
Zr	315	321	329	320	168	177
Sr	90	35	65	44	88	68
Zn	91	85	107	109	68	42
Ni	2	1	1	2	1	1
Cr	2	6	0	4	2	6
V	2	2	4	2	3	3
Ce	123	127	94	94	56	57
Ba	78	39	428	460	1093	996
La	54	56	43	38	27	26

Note: Major- and trace-element analyses (XRF) were done at the University of Massachusetts, Amherst and are reported on a volatile-free, oxidized basis. See Rhodes (1988) for typical values of analytical precision from this facility.

[†] See Stock et al. (1999) for geochemical analyses of the Tuff of San Felipe in Baja California.

[§] Sample number BK-99-05, 28.880° N 112.001° W.

[#] Sample number BV-99-30, 28.979° N 112.458° W.

^{††} Sample number SF-92-64, 30.594° N 114.756° W.

^{§§} Sample number BV-99-08, 28.917° N 112.447° W.

^{##} Sample number SF-92-101, 30.566° N 114.790° W.

^{†††} Sample number TIB-98-17, 28.979° N 112.476° W.

TABLE DR10. PALEOMAGNETIC RESULTS FROM CORRELATIVE TUFFS, SONORA

Location unit	Bedding		N/N _c	Geographic		Tilt-corrected		Bingham statistics			Fisher statistics	
	Strike	Dip		Dec	Inc	Dec	Inc	K ₁	α ₉₅	K ₂	α ₉₅	κ
<u>SA</u>												
Tmr _{sf}	12	38	6/7	219.7	-31.9	235.1	-15.8	-299.8	2.4	55.1	5.5	128.6
<u>BK</u>												
Tmr _{sf}	010	71	10/11	199.7	-55.4	245.6	-10.4	-167.1	2.4	-57.6	4.2	138.2
<u>PC</u>												
Tmr _{sf}	013	73	13/13	210.1	-59.6	262.9	-11.6	-1150	0.8	-108.8	2.7	323.9
<u>PR</u>												
Tmr _{sf}	030	24	10/12	230.6	-1.7	231.3	-1.3	-109.2	3.0	-43.9	4.8	100.8
Tmr ₃	341	23	13/13	0.1	64.4	35.6	53.7	-440.6	1.3	-63.5	3.5	188.4
Tmr ₄	341	23	5/9	339.7	37	358.1	38.3	-114.4	4.2	-0.44	4.7	177.4
<u>PRS</u>												
Tmr ₃	25	10	11/12	23.0	60.3	40.9	61.0	-1151	0.9	-78	3.4	240.9
Tmr ₄	25	10	8/9	16.3	32.2	22.7	35.1	-170.8	2.7	-0.42	3.0	292.2
<u>SM</u>												
Tmr _{sf}	330	15	11/13	225.4	-10.8	226.0	2.7	-181.4	2.2	-46.4	4.4	121.5
Tmr ₃	195	16	11/12	46.0	53.0	23.8	55.6	-53.2	4.2	-0.01	4.2	96
Tmr ₄	112	12	9/11	7.1	34.0	2.6	44.7	-122.4	3.0	-0.01	3.0	217

Note: We report only new data in this table. Paleomagnetic results from Tmr_{sf}, localities SIW and SRB, are published in Stock et al. (1999). Paleomagnetic results for Tmr₃ (type II) and Tmr₄ for locality SIW are site-averaged results published in Nagy (2000). Paleomagnetic results for all units for localities SFB, SFD, SFE, SFJ, SFH, and MC published in Lewis and Stock (1998b).

TABLE DR1. CONTINUED

SiO_2 (Wt%)	FeO (Wt%)	CaO (Wt%)	Na_2O (Wt%)	Al_2O_3 (Wt%)	K_2O (Wt%)	BaO (Wt%)	Total [*] (Wt%)
Sample locality SRB ^{\$}							
66.9	0.2	0.9	7.3	19.4	5.8	0.0	100.5
67.0	0.1	0.5	6.1	19.0	7.8	0.0	100.5
67.1	0.1	0.5	6.3	19.1	7.5	0.1	100.7
66.8	0.2	0.9	7.3	19.5	5.7	0.0	100.4
66.3	0.2	1.4	7.8	19.9	4.4	0.0	100.0
66.4	0.2	1.3	7.8	19.7	4.5	0.1	100.0
66.5	0.2	0.9	7.2	19.4	6.1	0.0	100.2
66.4	0.2	1.3	7.8	19.9	4.7	0.0	100.3
66.5	0.2	1.2	7.7	19.7	5.0	0.0	100.3
66.7	0.2	0.6	6.3	19.0	7.3	0.0	100.1
66.8	0.2	0.6	6.4	19.0	7.2	0.1	100.2
67.0	0.1	0.5	6.3	19.0	7.3	0.0	100.3
66.5	0.2	1.2	7.5	19.6	5.2	0.0	100.2
66.4	0.2	1.3	7.7	19.7	4.7	0.0	100.0
66.6	0.1	1.1	7.5	19.5	5.3	0.0	100.2
Sample Locality SFD [#]							
66.8	0.1	0.5	6.3	19.0	7.5	0.0	100.4
66.5	0.2	1.0	7.3	19.5	5.7	0.0	100.2
66.9	0.2	0.6	6.4	19.1	7.3	0.1	100.6
66.5	0.2	1.2	7.8	19.9	4.9	0.0	100.6
66.4	0.2	1.2	7.8	19.8	4.9	0.0	100.4
66.4	0.2	1.5	8.0	20.2	4.2	0.0	100.6
66.4	0.1	0.5	6.2	18.8	7.4	0.0	99.5
66.4	0.2	0.7	6.5	18.9	6.8	0.0	99.5
66.5	0.2	0.5	6.1	18.7	7.7	0.1	99.7
66.9	0.2	0.5	6.1	19.0	7.9	0.1	100.8
67.1	0.2	0.6	6.5	19.2	7.1	0.1	100.8
66.5	0.2	1.3	7.5	19.8	5.1	0.0	100.5
66.9	0.2	0.6	6.4	19.1	7.3	0.0	100.7
66.9	0.2	0.5	6.2	18.9	7.7	0.0	100.5
66.7	0.1	0.7	6.6	19.1	7.1	0.1	100.4

TABLE DR1. CONTINUED

SiO_2 (Wt%)	FeO (Wt%)	CaO (Wt%)	Na_2O (Wt%)	Al_2O_3 (Wt%)	K_2O (Wt%)	BaO (Wt%)	Total [*] (Wt%)
<u>Sample locality SIW</u>							
66.7	0.2	0.7	6.3	19.1	7.2	0.0	100.2
67.0	0.1	0.6	6.3	19.1	7.3	0.0	100.5
67.1	0.2	0.6	6.4	19.1	7.3	0.1	100.6
66.5	0.1	1.4	7.7	19.9	4.4	0.0	100.2
66.4	0.1	1.5	8.0	20.1	4.4	0.0	100.6
67.1	0.2	0.6	6.3	19.1	7.3	0.0	100.5
66.7	0.1	0.5	6.1	18.9	7.8	0.1	100.2
66.9	0.1	0.5	6.2	19.0	7.6	0.0	100.4
66.9	0.2	0.5	6.2	19.0	7.7	0.1	100.7
66.7	0.2	1.0	7.3	19.6	5.6	0.1	100.5
66.4	0.2	1.1	7.3	19.6	5.6	0.0	100.4
66.4	0.2	1.4	7.9	20.0	4.6	0.0	100.5
66.9	0.2	1.3	7.7	19.8	4.8	0.1	100.9
66.4	0.1	1.0	7.4	19.5	5.4	0.0	100.0
66.9	0.1	0.5	6.2	18.9	7.5	0.0	100.3
<u>Sample locality MC</u> ^{††}							
65.0	0.2	1.5	8.1	19.7	3.9	0.0	98.4
65.2	0.2	1.2	7.7	19.3	4.7	0.0	98.3
64.8	0.1	1.4	7.9	19.5	4.2	0.0	98.0
65.6	0.1	0.6	6.4	18.7	7.0	0.1	98.5
65.5	0.2	0.6	6.5	18.8	6.9	0.1	98.6
65.1	0.1	1.2	7.4	19.2	4.9	0.1	98.1
65.3	0.1	0.7	6.6	18.8	6.6	0.0	98.2
64.9	0.2	1.4	8.0	19.6	4.1	0.0	98.2
65.1	0.1	1.3	7.8	19.5	4.4	0.1	98.3

Note: Each grouping of 1 to 3 analyses is from a single crystal. Additional microprobe analyses of feldspar from the Tuff of San Felipe published in Stock et al. (1999).

Total of measured weight percent. Measurements with totals less than 98% or greater than 102% were discarded.

[†] First 24 analyses: Sample MT-92-14, 30.347° N 115.017° W. Second 19 analyses: Sample MT-92-20, 30.348° N 114.956° W.

[§] Sample number SRB-B316A, 30.849° N 114.963° W.

[#] Sample number SFD-4C, 30.708° N 114.840° W.

^{**} Sample number PVPQ-306A, 30.410° N 114.806° W.

^{††} Sample number MC-2, 30.529° N 114.968° W.