

Sample	81-31	XM-61	81-32	81-19	81-26	S64
Age, Ma	45	41	45	43	44	45
Long W	103 29.4	103 27.3	103 29.3	103 23.5	103 29.2	103 29.4
Lat N	29 28.7	29 26	29 29	29 28.2	29 29.5	29 28.7
SiO2	69.11	68.12	68.85	68.68	68.89	68.70
TiO2	0.21	0.20	0.21	0.19	0.34	0.13
Al2O3	17.63	15.68	17.44	15.38	16.74	16.60
Fe2O3	0.89	2.19	0.99	3.96	1.55	1.00
FeO	0.36	0.41	0.36	0.18	0.36	0.21
FeO*						
MnO	0.01	0.07		0.11	0.02	
MgO	0.14	0.32	0.12	0.09		0.14
CaO	0.57	0.41	0.55	0.73	0.30	0.58
Na2O	5.36	5.50	5.13	5.20	5.58	6.00
K2O	5.76	5.51	5.74	4.51	5.40	4.90
P2O5		0.08				0.06
H2O+	0.30	0.54	0.51	1.40	0.23	0.35
H2O-		0.30				
CO2		0.10		0.15		
Total	100.34	99.43	99.90	100.58	99.41	98.67
SiO2'	69.08	69.16	69.27	69.35	69.46	69.87
(Na2O+K2O)'	11.12	11.18	10.94	9.81	11.07	11.09
Sc						
V						
Cr						
Ni						
Cu						
Zn		75				
Ga						
Rb		137				
Sr		47				
Y		34				
Zr		510				
Nb		55				
Cs						
Ba						
La						
Ce						
Pr						
Nd						
Sm						
Eu						
Gd						
Tb						
Dy						
Ho						
Er						
Tm						
Yb						
Lu						

Hf						
Ta						
Pb						
Th						
U						
Li						
F						
Rb/Sr		2.91				
Cen/Ybn						
Eu*						
Zr/Hf						
Ba/Rb						
Rb/Th						
87Sr/86Sr,l						
143Nd/144Nd						
206Pb/204Pb						
207Pb/204Pb						
208Pb/204Pb						

Sample	81-35	H84-27	81-30	TM-003	H86-79	81-33
Age, Ma	44	42.2	45	45	43.5	45.2
Long W	103 30	103 32.3	103 30	105 26.6	103 24.5	103 29.7
Lat N	29 28.2	29 23.8	29 28.5	31 10.6	29 29.4	29 28.7
SiO2	70.11	69.57	69.33	70.79	71.30	70.44
TiO2	0.28	0.25	0.18	0.29	0.14	0.13
Al2O3	14.56	15.64	13.39	15.52	14.76	16.41
Fe2O3	2.63	1.08	3.06	1.77	2.43	1.03
FeO	1.09	0.94	0.91			
FeO*						
MnO	0.06	0.05	0.11	0.07	0.08	
MgO	0.06	0.26	0.02	0.44	0.05	0.09
CaO	1.02	0.92	1.74	1.68	0.54	0.25
Na2O	4.81	5.10	5.30	4.93	5.84	4.78
K2O	5.20	4.93	4.33	4.58	5.03	5.59
P2O5		0.06		0.09		
H2O+	0.42		0.37		0.19	0.52
H2O-						
CO2	0.10	0.01	0.95		0.04	0.22
Total	100.34	98.81	99.69	100	100.4	99.46
SiO2'	70.24	70.41	70.48	70.79	71.18	71.35
(Na2O+K2O)'	10.03	10.15	9.79	9.51	10.85	10.50
Sc						
V				30		
Cr						
Ni						
Cu						
Zn						
Ga						
Rb				161		
Sr				560		
Y				25		
Zr				183		
Nb				15*		
Cs						
Ba				1200		
La						
Ce						
Pr						
Nd						
Sm						
Eu						
Gd						
Tb						
Dy						
Ho						
Er						
Tm						
Yb						
Lu						

Hf						
Ta						
Pb						
Th				25		
U						
Li						
F						
Rb/Sr				0.27		
Cen/Ybn						
Eu*						
Zr/Hf						
Ba/Rb				7.45		
Rb/Th				6.44		
$^{87}\text{Sr}/^{86}\text{Sr}_i$						
$^{143}\text{Nd}/^{144}\text{Nd}$						
$^{206}\text{Pb}/^{204}\text{Pb}$						
$^{207}\text{Pb}/^{204}\text{Pb}$						
$^{208}\text{Pb}/^{204}\text{Pb}$						

Sample	S45	H86-80	W-150a	81-25	81-3	MGD-788
Age, Ma	45	45	38.6	45	44	44
Long W	103 27.6	103 27.5	103 31	103 29.4	103 29	
Lat N	29 27.4	29 29.1	29 22.4	29 28.7	29 27.3	
SiO2	69.20	70.77	71.70	70.86	71.16	71.28
TiO2	0.26	0.16	0.33	0.12	0.27	0.15
Al2O3	11.10	12.82	14.77	15.93	13.98	12.68
Fe2O3	4.80	2.89		0.85	2.92	4.16
FeO	0.12	0.60			0.36	0.10
FeO*			1.10			
MnO	0.14	0.07			0.08	0.39
MgO	0.41		0.23	0.01	0.04	0.02
CaO	1.92	1.11	0.85	0.31	0.80	0.90
Na2O	6.30	5.75	5.43	5.62	4.24	4.77
K2O	2.60	4.82	5.54	5.11	5.12	4.37
P2O5	0.05		0.05			0.01
H2O+	0.49	0.34		0.27	0.74	0.77
H2O-						
CO2		0.69		0.10		0.40
Total	97.39	100.02	100	99.18	99.71	99.99
SiO2'	71.41	71.49	71.70	71.71	71.90	72.13
(Na2O+K2O)'	9.18	10.68	10.97	10.86	9.46	9.25
Sc						
V			2.3			
Cr			1.5			
Ni						
Cu						
Zn						413
Ga						
Rb			163			
Sr			10			70
Y			81.3			
Zr			839			1530
Nb			101			
Cs						
Ba			42			183
La			103			
Ce			203			
Pr						
Nd			91			
Sm						
Eu						
Gd						
Tb						
Dy						
Ho						
Er						
Tm						
Yb						
Lu						

Hf						
Ta						
Pb						
Th						
U						
Li						
F						
Rb/Sr			16.3			
Cen/Ybn						
Eu*						
Zr/Hf						
Ba/Rb			0.26			
Rb/Th						
$^{87}\text{Sr}/^{86}\text{Sr}_i$						
$^{143}\text{Nd}/^{144}\text{Nd}$						
$^{206}\text{Pb}/^{204}\text{Pb}$						
$^{207}\text{Pb}/^{204}\text{Pb}$						
$^{208}\text{Pb}/^{204}\text{Pb}$						

Sample	81-109	H90-74	AF2	H81-44	H86-122	81-108
Age, Ma	41	44	41	44	41	41
Long W	103 27.8	103 27.5	103 38	103 30	103 36.2	103 27.8
Lat N	29 28.7	29 27.5	29 31	29 29	29 29.3	29 28.7
SiO2	71.88	70.59	73.29	71.50	74.64	74.24
TiO2	0.16	0.23	0.10	0.18	0.15	0.16
Al2O3	13.26	12.52	14.20	13.12	12.22	13.67
Fe2O3	3.45			3.80	1.53	1.27
FeO	0.09			0.18	0.75	0.14
FeO*		5.25	1.22			
MnO	0.08	0.11		0.21	0.09	
MgO	0.03		0.24	0.01	0.06	0.15
CaO	0.24	2.05	0.30	0.45	0.16	0.52
Na2O	4.93	4.41	6.09	5.18	5.52	4.46
K2O	4.52	4.81	4.54	4.41	4.73	4.89
P2O5		0.02	0.03	0.01		
H2O+	0.40			0.80	0.13	0.31
H2O-						
CO2	0.17			0.1		0.30
Total	99.21	96.37	100	97.90	99.98	100.11
SiO2'	72.87	73.25	73.29	73.71	74.52	74.61
(Na2O+K2O)'	9.58	9.57	10.63	9.89	10.27	9.40
Sc						
V			3.4			
Cr			3.4			
Ni			3.5			
Cu						
Zn		510		252		
Ga						
Rb		480	323			
Sr		32	10	16		
Y		236	150			
Zr		2127	1376	1640		
Nb		451	385			
Cs						
Ba		50	76	28		
La		263	144			
Ce		610	352			
Pr						
Nd			110			
Sm						
Eu						
Gd						
Tb						
Dy						
Ho						
Er						
Tm						
Yb						
Lu						

Hf						
Ta						
Pb		31		12		
Th		62		39		
U						
Li						
F						
Rb/Sr		15	32.3			
Cen/Ybn						
Eu*						
Zr/Hf						
Ba/Rb		0.1	0.24			
Rb/Th		7.74				
87Sr/86Sr,l						
143Nd/144Nd						
206Pb/204Pb						
207Pb/204Pb						
208Pb/204Pb						

Sample	H86-120	HE-3	Pinto-9
Age, Ma	41	41.2	41
Long W	103 35.8	103 35.5	104 30
Lat N	29 28.6	29 29.4	30 00
SiO2	76.05	75.64	75.90
TiO2	0.09	0.10	0.10
Al2O3	11.59	11.84	13.15
Fe2O3	1.69		0.33
FeO	0.70		0.35
FeO*		2.26	
MnO	0.09		0.01
MgO	0.04	0.26	0.13
CaO	0.09	0.14	0.49
Na2O	5.64	5.67	3.82
K2O	4.35	4.03	4.40
P2O5	0.25	0.05	
H2O+			0.89
H2O-			0.51
CO2			
Total	100.58	100	100.08
SiO2'	75.61	75.64	76.92
(Na2O+K2O)'	9.93	9.70	8.33
Sc			
V		12.4	
Cr		1.7	
Ni			
Cu			
Zn			
Ga			
Rb		331	
Sr		11	
Y		84	
Zr		953	
Nb		251	
Cs			
Ba		56	
La		56.9	
Ce		134.6	
Pr			
Nd		50.7	
Sm		13.16	
Eu		0.481	
Gd		11.7	
Tb			
Dy		11.9	
Ho			
Er		7.1	
Tm			
Yb		8.148	
Lu			

Hf			
Ta			
Pb			
Th			
U			
Li			
F			
Rb/Sr		30.1	
Cen/Ybn		4.47	
Eu*		0.12	
Zr/Hf			
Ba/Rb		0.17	
Rb/Th			
$^{87}\text{Sr}/^{86}\text{Sr}_i$			
$^{143}\text{Nd}/^{144}\text{Nd}$			
$^{206}\text{Pb}/^{204}\text{Pb}$			
$^{207}\text{Pb}/^{204}\text{Pb}$			
$^{208}\text{Pb}/^{204}\text{Pb}$			