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Rb-Sr DATA FROM MISCELLANEOUS PRECAMBRIAN ROCKS, NORTHERN NEW MEXICO

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We report previously unpublished Rb-Sr data from miscellaneous whole rocks and minerals from Precambrian rocks from northern New Mexico. The data are from studies conducted in the middle to late 1970's and are shown in table 1. Isochrons have not been constructed for the samples, except for the Puntiagudo granite prophyry and the Rana quartz monzonite (Register, 1979).

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TABLE 1. Sample locations and analytical results

Sample	Location	$^{87}Sr/^{86}Sr$	Rb(ppm)	Sr(ppm)	$^{87}Rb/^{86}Sr$	Model age (m.y.)[1]
Pegmatite at Ortega Quartzite-metarhyolite contact						
1168	105°47'08"W 36°15'51"N	1.6132	771	52.3	46.46	1407
1169	105°47'08"W 36°15'51"N	1.7347	911	56.2	51.73	1430
Pegmatite cutting above metarhyolite						
1173	105°47'25"W 36°16'01"N	2.3952	256	10.1	85.19	1422
Harding pegmatite (K-feldspar)						
1178	105°47'40"W 36°11'32"N	12.161	4535	49.4	566.0	1441
1179	105°47'40"W 36°11'32"N	8.407	1844	25.3	371.4	1476
Harding pegmatite (fine-grained phase)						
1273	105°47'40"W 36°11'32"N	1.5353	106	9.4	35.47	1655
1274	105°47'40"W 36°11'32"N	4.0487	567	13.0	168.0	1416
Embudo Granite						
1193	105°51'01"W 36°12'00"N	0.8069	132	79.5	4.84	1427
1197	105°51'09"W 36°00'16"N	0.9219	147	39.4	11.06	1365
1202	105°52'43"W 36°00'07"N	0.7914	178	116	4.48	1185
1204	105°55'03"W 35°58'51"N	0.7760	135	122	3.23	1457
1206	105°54'22"W 35°50'44"N	0.8022	166	101	4.79	1372
1207	105°54'22"W 35°50'44"N	1.0027	533	108	14.76	1412
1213	105°53'02"W 35°47'00"N	1.0802	255	43.3	17.67	1492
1214	105°53'02"W 35°47'00"N	1.1916	241	32.8	22.24	1534
Metafelsite in Vadito Formation						
1185	105°47'10"W 36°11'20"N	0.8412	112	52.8	6.24	1495
1186	105°47'10"W 36°11'20"N	0.8303	93.1	49.3	5.53	1739
1187	105°47'10"W 36°11'20"N	0.7457	98.6	165	1.74	1460
1188	105°47'10"W 36°11'20"N	0.8294	101	52.0	5.67	1501
Rinconada Schist Member of Ortega Formation						
1189	105°47'54"W 36°14'47"N	0.8643	136	52.2	7.66	1435
1190	105°47'54"W 36°14'47"N	0.8896	170	55.8	8.99	1424
1191	105°48'04"W 36°12'56"N	0.8487	136	59.0	6.78	1457
1192	105°48'04"W 36°12'56"N	0.8815	156	53.2	8.65	1413
Metarhyolite below Ortega Quartzite						
1171	105°47'14"W 36°15'57"N	0.8172	115	66.6	5.05	1708
1172	105°47'14"W 36°15'57"N	0.8864	164	56.0	8.62	1598
1175	105°47'25"W 36°16'01"N	1.0049	119	26.0	13.59	1627
1176	105°48'58"W 36°14'56"N	1.3735	136	12.5	33.68	1438
1177	105°48'58"W 36°14'56"N	1.1441	149	23.1	19.50	1584

continued

TABLE 1. Sample locations and analytical results (continued).

Sample	Location	$^{87}Sr/^{86}Sr$	Rb(ppm)	Sr(ppm)	$^{87}Rb/^{86}Sr$	Model age (m.y.)[1]
Puntiagudo granite porphyry						
Pgp-1	105°48'32"W 36°11'12"N	0.7682	126.16	132.33	2.78	1550 ± 130[2]
Pgp-2	105°48'38"W 36°11'10"N	0.7565	142.10	171.97	2.40	
Pgp-3	105°48'35"W 36°11'08"N	0.7729	151.46	145.59	3.03	
Pgp-4	105°48'41"W 36°11'15"N	0.7370	135.44	293.36	1.34	
Pgp-5	105°48'38"W 36°11'17"N	0.8118	192.52	122.60	4.59	
Pgp-6	105°48'33"W 36°11'16"N	0.7822	35.67	100.69	3.93	
Rana quartz monzonite						
Rqm-1	105°48'05"W 36°10'58"N	1.0353	173.11	30.62	16.89	1440 ± 130[3]
Rqm-2	105°48'51"W 36°10'05"N	0.7947	163.34	132.96	3.59	
Rqm-3	105°48'38"W 36°10'55"N	0.7607	144.48	179.15	2.35	
Rqm-4	105°48'37"W 36°10'47"N	0.7576	141.29	158.80	2.59	
Rqm-5	105°48'30"W 36°10'52"N	0.7612	145.21	172.80	2.45	

[1]Initial $^{87}Sr/^{86}Sr$ = 0.710 assumed. The decay constant of ^{87}Rb is taken as 1.42×10^{-11} yr^{-1} for calculating the model ages.
[2]Whole rock isochron age (Register, 1979).
[3]Whole rock isochron age (Register, 1979).

REFERENCE

Register, M. E. (1979) Geochemistry and geochronology of the Harding pegmatite, Taos County, New Mexico: Masters thesis, University of New Mexico, 145 p.