

Appendix List of the chemical analyses used in this paper of the intrusive rocks related to the porphyry copper deposits in the United States

Localities and rock names	Bingham, Last Chance and Bingham stock								Robinson, monzonite and monzonite porphyry						Yerington			Bagdad	New Cornelia				Globe-Ray region								Castle Dome		San Manuel		Warren		Morenci	Santa Rita					
	1 Bt-Px Mz	2 Bt-Px Mz	3 Bt-Px Qm	4 Bt-Px Mz	5 Bt-Px Mz	6 Bt-Px Mz	7 Mz	8 Mz	Liberty monzonite			Weary Flat stock		14 Lane Valley sill	15 Gd	16 Qm	17 Qm	18 Qm	19 Bt Qd	20 Hb-bt Qm	21 Hb-bt Qm	22 Schultze Gr	23 Gp	24 Gp (dike)	25 Gr Mtn Qmp	26 Lost G. Qm	27 Gd	28 Qd	29 Qmp	30 Qmp	31 Gdp	32 Gdp	33 Alk Gr	34 Gp (sill)	35 Qmp	Hanover-Fierro		Santa Rita stock					
									9	10	11	12	13																							36 Gd	37 Gdp	38 Qmp	39 Qmp	40 Qmp	41 Qmp		
									9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41		
SiO <sub>2</sub>	55.7	57.6	60.1	59.1	58.9	63.4	58.64	57.16	57.30	57.95	58.36	57.26	61.69	59.79	57.90	68.35	67.70	64.49	60.59	65.29	66.23	70.95	69.35	68.95	70.52	68.63	64.84	60.42	69.60	70.68	61.8	64.88	75.86	76.81	68.04	61.26	65.36	65.7	64.87	64.90	66.93		
TiO <sub>2</sub>	0.87	0.87	0.81	0.86	0.86	0.69	0.83	0.87	0.71	0.75	0.67	0.71	n.d.	n.d.	1.12	0.57	0.23	0.46	0.61	0.54	0.47	0.23	0.19	0.22	0.27	0.69	0.50	0.83	0.62	0.55	0.62	0.56	0.21	0.13	0.41	0.52	0.45	0.42		0.37			
Al <sub>2</sub> O <sub>3</sub>	14.5	14.7	14.8	15.0	14.8	15.6	15.35	16.69	16.69	17.52	16.96	17.79	17.26	17.70	16.38	14.71	15.95	17.43	17.39	15.74	15.71	16.30	15.71	15.84	15.54	13.68	16.49	17.27	13.99	13.82	16.5	15.01	12.17	10.96	17.20	16.22	16.29	16.0	16.63	17.55	15.74		
Fe <sub>2</sub> O <sub>3</sub>	2.8	2.3	2.5	2.0	2.1	1.9	3.25	3.47	3.37	3.14	3.11	3.39	3.53	2.42	3.02	1.69	1.53	1.84	1.60	2.05	2.20	1.01	1.18	1.14	0.77	2.53	1.87	2.60	1.82	2.03	3.3	1.06	0.85	1.18	0.34	3.0	1.94	2.5	2.36	1.65	0.25		
FeO	3.5	3.5	2.9	3.7	3.8	2.4	2.54	2.76	3.08	3.07	2.87	3.45	1.91	2.76	3.66	1.47	1.14	1.65	1.98	2.03	1.98	0.36	0.43	0.56	1.31	1.81	2.28	3.47	2.15	1.83	1.2	2.42	0.36	0.08	0.67	2.38	1.88	1.8	2.35	1.50	2.23		
MnO	0.12	0.15	0.15	0.15	0.11	0.04	tr	tr	0.17	0.17	0.17	0.29	0.09	0.09	0.09	0.04	n.d.	0.09	0.08	0.07	0.08	tr	tr	tr	0.02	0.15	0.06	0.13	0.13	0.11		0.04			0.06	0.08	0.04	0.04			0.02		
MgO	5.3	6.2	4.0	4.2	4.8	2.6	2.84	2.47	2.34	2.05	2.07	2.02	1.45	1.92	3.13	1.11	1.23	1.93	2.38	1.84	1.58	0.23	0.36	0.24	0.66	1.10	1.58	2.30	0.86	0.44	2.6	1.44		0.14	1.05	2.57	1.76	1.5	2.27	1.10	1.36		
CaO	6.7	6.2	4.8	5.7	6.2	3.3	5.37	5.86	6.71	6.46	6.35	6.58	5.49	5.22	6.33	3.11	2.70	3.47	5.06	3.66	3.78	1.85	1.79	1.96	2.49	2.51	4.54	6.36	2.12	1.61	3.6	2.59	0.62		2.21	6.12	4.05	2.5	3.24	2.05	1.78		
Na <sub>2</sub> O	3.4	3.7	3.9	3.5	3.5	3.8	3.60	3.82	3.41	3.34	3.52	3.06	3.05	2.64	4.10	4.28	4.83	4.48	4.09	3.77	3.89	5.16	4.78	4.56	3.96	2.94	4.18	3.14	2.66	2.64	4.3	3.02	3.60	0.26	5.33	4.34	3.90	3.4	5.71	3.40	2.24		
K <sub>2</sub> O	4.1	3.1	4.2	4.6	3.8	4.3	4.23	4.49	4.52	4.08	4.46	4.15	3.88	4.19	2.52	3.54	3.74	2.38	1.63	4.11	3.22	3.34	3.63	3.69	3.72	4.04	2.46	2.34	4.56	4.48	2.5	3.14	5.04	8.50	2.65	2.61	3.29	4.2	2.79	4.70	6.70		
P <sub>2</sub> O <sub>5</sub>	0.63	0.52	0.46	0.49	0.49	0.32	0.02	0.41	0.42	0.42	0.36	0.21	0.34	0.37	0.42	0.20	n.d.	0.19	0.36	0.24	0.24	tr	0.08	0.08	0.09	0.24	0.19	0.20	0.23	0.19	0.22	tr	tr	0.12	0.48	0.24	0.31				0.17		
S							0.05		n.d.	n.d.	n.d.	n.d.	n.d.	n.d.								tr	tr	0.00	tr	(FeS <sub>2</sub> ) 0.11	0.00	0.05	(FeS <sub>2</sub> ) 0.02	(FeS <sub>2</sub> ) 0.05	(SO <sub>3</sub> ) 1.04 0.00 1.35				0.05		n.d.	0.22	0.17	1.17			
CO <sub>2</sub>	0.55	0.12	0.15	<0.05	<0.05	0.10			0.26	0.16	0.11	0.04	n.d.	n.d.	0.08	0.14	0.12	0.12							0.00	tr	0.00			1.0	1.35			0.09	0.06	0.06	0.08		0.01				
H <sub>2</sub> O(+)	1.1	0.64	0.58	0.49	0.38	0.77	1.50	1.06	0.50	0.48	0.47	0.55	0.73	2.00	0.89	0.46	0.36	0.90	3.29	0.62	0.67	0.37	0.97	1.49	0.88	0.87	0.98	0.86	1.00	1.26	1.9	2.03	0.72	1.17	1.23	0.20	0.52	1.3	0.15	0.87	0.93		
H <sub>2</sub> O(-)	0.31	0.30	0.20	0.25	0.09	0.53	0.86	0.83	0.18	0.31	0.19	0.44	0.44	0.44	0.18	0.31	0.19	0.44	0.78	0.14	0.03	0.26	1.17	0.86	0.36	0.70	0.19	0.40	0.14	0.14	0.5	0.37	0.27	0.48	0.60	0.15	0.20	n.d.	n.d.	0.03	0.27		
Total	100	100	100	100	100	100	99.08	99.89	99.48	99.59	99.48	99.50	99.42	99.10	99.82	99.98	99.60	99.87	99.84	100.10	100.08	100.06	99.64	99.59	100.59	100.00	100.16	100.37	99.90	99.83	100.04	99.14	99.70	99.71	99.91	100.07	99.98	100	100.67	97.92	100.17		
Source	MOORE et al. (1968)						BUTLER et al. (1920)		BAUER, Jr. et al. (1966)						KNOPF (1918)			ANDERSON et al. (1955)	GILLULY (1946)				PETERSON (1962)								PETERSON et al. (1951)		CREASEY (1965)		RANSOME (1904)		LINDGREN (1905)	JONES et al. (1967)					

Abbreviations Qd: quartz diorite, Gd: granodiorite, Gdp: granodiorite porphyry, Qm: quartz monzonite Gr: granite Gp: granite porphyry, Mz: monzonite Px: augite, Hb: hornblende, Bt: biotite