

	No. of Analyses	Unit*	SiO ₂	FeO	Al ₂ O ₃	Fe ₂ O ₃	MgO	CaO	MnO	Na ₂ O	K ₂ O	H ₂ O	P ₂ O ₅	Ca	Zn	Ni	Cr	Sr	Ba
Brent	18	n	68.4	0.51	15.0	4.31	1.05	1.15	0.05	3.52	4.31	1.22	0.08	11	70	5	15	1500	78
	11	b	63.1	0.81	14.7	6.50	2.12	0.73	0.09	3.47	7.70	1.20	0.09	..	..	..	..	..	..
	6	b	58.3	1.71	17.1	14.8	2.15	1.33	0.09	3.40	6.13	0.93	0.31	13	25	95	40	360	140
New Quebec	1	c	63.2	0.47	16.1	4.3	1.3	1.3	0.08	3.47	1.9	0.8	0.27	..	..	..	..	..	..
	1	b	68.6	0.47	15.8	6.1	1.8	3.32	0.08	3.7	0.08	0.8	..	..	..	..	..	..	..
Midastun	10	d	60.5	0.50	15.8	4.2	1.8	3.0	0.05	4.1	1.5	0.6	0.17	..	..	..	..	..	..
	4	b	50.5	1.29	17.8	7.7	1.7	5.7	0.09	4.2	4.1	1.3	0.31	..	..	..	..	..	..
	6	b	61.4	0.36	15.2	6.5	3.7	6.5	0.08	4.6	2.0	1.2	0.19	..	..	..	..	..	..
Lake St. Martin	3	c	63.2	0.51	15.6	4.8	3.1	3.3	0.08	3.8	3.1	0.9	0.21	30	50	12	10	..	..
East Chawwater	2	b	63.2	0.89	21.0	5.0	1.5	2.1	0.1	1.65	6.40	4.21	0.41	21	30	50	10	..	..
	12	c	62.8	0.71	16.7	5.25	2.38	4.82	0.08	4.31	2.38	0.76	0.32	30	255	780	200	..	..
West Chawwater	16	a	60.4	0.71	16.7	5.25	2.38	4.82	0.08	4.31	2.38	0.76	0.32	30	255	780	200	..	..
	8	b	57.2	0.89	16.2	5.0	2.07	4.00	0.08	3.91	3.41	0.60	0.30	67	205	<4	5	510	72
	12	c	60.4	0.73	15.9	6.5	2.67	4.48	0.05	3.78	3.60	1.33	0.30	19	70	20	30	560	80
Carswell	14	a	66.7	0.54	11.9	17.0	1.5	3.2	0.61	1.12	0.11	10.9	0.30	..	..	..	..	..	..
	4	b	57.2	0.89	16.2	6.0	2.90	4.60	0.08	3.4	3.9	0.43	0.31	40	60	80	115	..	..
	7	c	66.7	0.54	11.9	17.0	1.5	3.2	0.61	1.12	0.11	10.9	0.30	..	..	..	..	..	..
Steens River	3	a	66.70	0.42	15.30	4.30	1.24	2.76	0.08	3.79	2.74	1.76	0.16	..	..	..	..	..	..
	3	b	64.76	0.42	14.49	6.19	2.37	5.08	nd	3.47	2.61	6.41	0.27	..	..	..	..	..	..
	3	c	64.76	0.42	14.49	3.74	1.71	2.44	nd	2.82	5.27	1.34	0.12	..	..	..	..	..	..
Stubbury	34	a	70.0	0.40	13.21	5.1	2.2	2.9	0.03	2.2	2.6	1.1	0.09	..	..	..	..	..	..
	6	a	66.9	0.40	13.73	6.2	2.3	2.8	0.03	2.2	3.3	0.9	0.10	..	..	..	..	..	..
	1	b	58.9	0.46	15.56	8.7	4.6	5.5	0.28	4.7	1.5	2.2	0.27	..	..	..	..	..	..
Manitoungau	38	a	55.1	0.74	19.0	4.9	2.6	5.9	0.09	4.7	2.7	1.4	0.49	..	..	..	..	..	..
	13	b	55.1	0.74	19.0	6.4	3.7	4.8	0.14	3.6	3.4	1.2	0.27	..	..	..	..	..	..
	37	a	57.3	1.16	18.3	6.3	3.0	5.7	0.11	4.1	3.0	1.4	0.25	..	..	..	..	..	..
	4	c	48.9	1.20	17.6	4.1	3.8	3.1	0.25	3.93	1.8	10.2	0.25	..	..	..	..	..	..
Charlevoix	3	c	61.7	0.29	4.1	14.8	3.1	1.7	0.28	3.5	5.18	2.7	0.26	..	..	..	..	..	..
Average country rock	..	..	61.7	0.50	16.5	4.07	1.82	3.03	0.081	3.39	3.42	0.89	0.25	17	30	70	20	430	85
Average pulse apparatus rock	..	..	60.4	0.66	17.2	5.85	1.72	4.13	0.008	3.86	4.22	1.72	0.28	35	155	200	40	370	88
Average Precambrian	..	..	60.4	0.6	15.5	4.6	2.0	3.8	0.1	3.5	3.3	1.22	0.2	..	..	..	..	..	..

TABLE 2. Chemical Composition of Country Rocks and Igneous Rocks from the Brent Crater

[illegible]

East Cleaver Lake crater is crudely quadrilateral, roughly 22 km on a side, cut relative to the surrounding country rocks. It uplift show a significant increase in K₂O ratio in diameter, contains a circular chain of islands composed of altered and fractured Archean metamorphic rocks, shock metamorphosed along fractures. Igneous breccia occurs as pods and veins within the complex, and as a thin sheet overlying the basement and grading rapidly up to 267 m.y. (Shandilgil, unpublished data). In the basement rocks as computed by *Eide et al.* [1969] and by *Bostock* [1969] is compared with the average composition of the central core of Fenchamman, and with the igneous rocks. Although the compositions are all very similar, the igneous rocks contain more potassium, much more zinc nickel and chromium, and less sodium than the country rocks. The rocks of the central