ARCHEAN BASEMENT UNDERLYING PALEOPROTEROZOIC CAPE SMITH BELT: PART OF POVUNGNITUK MAP AREA NTS 35-C, GSC OPEN FILE 7847

BY W.R.A. BARAGAR

61°00' N
78°00' W
77°00' W
76°30' W
60°30' N
60°20' N

CAPE SMITH BELT
Rivière Chukotat
Rivière Korak
Korak Bay
HUDSON BAY
Neakongut Bay
UNDIFFERENTIATED ARCHEAN
Lac Tasirjuarusiq
0 5 10 Km

LEGEND

Proterozoic

Cape Smith Belt undivided

Cape Smith Belt:
a: Carbonitic volcanic rocks
b: Iron-formation

Proterozoic?

Dolerite dykes

Archean

Potash feldspar-phyric, megacrystic, granitic gneiss:
A: Migmatitic phase
B: Mainly homogeneous, megacrystic, potash-rich, weakly foliated phase
C: Mafic (marginal) phase

Leucocratic trondhjemitic-tonalitic, weakly foliated gneiss

Unconformity

8B-18a Field station

2B-07 Field station, geochemistry reported in Table 1, this map

J lineation, inclined, generation unknown, Archean

foliation, inclined, generation unknown, mostly Archean gneissosity

foliation, vertical, generation unknown, mostly Archean gneissosity

P late schistosity and shearing, inclined, possibly Proterozoic

R late schistosity and shearing, vertical, possibly Proterozoic

N

Projection: NAD83 UTM18N

Recommended citation:
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GIS by D. Lemkow

Digital cartography by D. Lemkow and J. Boettcher

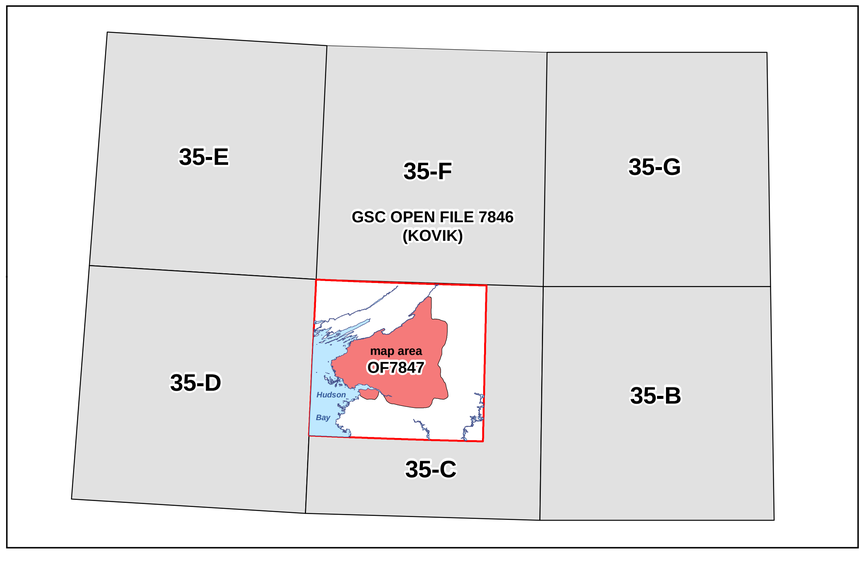
Station	Dyke Set	Spec_Num.	SIO2 %	AL2O3 %	FE2O3 %	FEO %	MGO %	CAO %	NA2O %	K2O %	TIO2 %
5B-2	Major N-S	BL85 49	51.8	14.2	3.3	5.8	8.0	7.64	3.0	1.25	0.64
2B-07	Major N-S	BL85 5	52.7	15.2	2.6	6.2	7.2	8.79	2.9	1.28	0.51
3B-13	E-W	BL85 22	53.2	14.7	4.0	10.2	2.5	5.89	4.2	0.69	1.53
4B-5	E-W	BL85 33	49.6	13.3	4.8	10.6	5.7	8.42	1.8	1.54	1.41
4B-6	E-W	BL85 35	49.1	14.7	4.6	10.4	4.8	9.76	2.2	0.40	1.39
3B-20	Major E-W	BL85 84	50.4	14.1	2.7	12.7	5.3	7.19	3.2	0.76	1.53
3B-31	E-W	BL85 91	50.1	14.3	3.4	12.1	4.9	9.38	2.5	0.46	1.42

Spec_Num.	P205 %	MNO %	S %	CO2 %	H2O %	RB ppm	BA ppm	NB ppm	SR ppm	ZR ppm	Y ppm
BL85 49	0.11	0.14	999	0.3	2.5	59	56	6	306	94	12
BL85 5	0.09	0.14	999	0.1	2.1	47	396	5	327	71	8
BL85 22	0.46	0.22	0.15	0.1	3.0	33	258	24	210	223	54
BL85 33	0.13	0.24	0.04	999	3.2	51	531	11	350	86	18
BL85 35	0.14	0.22	0.09	0.1	2.7	13	170	12	162	88	24
BL85 84	0.16	0.21	999	999	2.6	44	157	14	112	106	24
BL85 91	0.13	0.23	0.07	999	1.8	37	126	11	100	87	24

Spec_Num.	LA ppm	YB ppm	ZN ppm	BE ppm	MO ppm	CU ppm	V ppm	CO ppm	NI ppm	CR ppm	TOTAL
BL85 49	18	1.2	74	0.8	4	82	160	50	170	520	98.90
BL85 5	14	0.8	65	0.7	4	34	140	48	140	310	101.00
BL85 22	21	4.6	86	2.0	4	130	110	30	26	8	101.00
BL85 33	9	2.1	160	1.2	2	250	310	50	77	61	100.90
BL85 35	8	1.8	110	1.0	5	220	290	51	53	34	100.50
BL85 84	8	2.2	140	0.9	5	130	310	48	58	39	101.00
BL85 91	7	2.0	200	0.9	6	96	310	52	60	40	100.90

Note: 999 = no data

Table 1. Chemical composition of dolerite dykes, Povingnituk map area. Chemistry locations on map represented by yellow circles.



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