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GEOLOGICAL SURVEY OF CANADA — COMMISSION GÉOLOGIQUE DU CANADA

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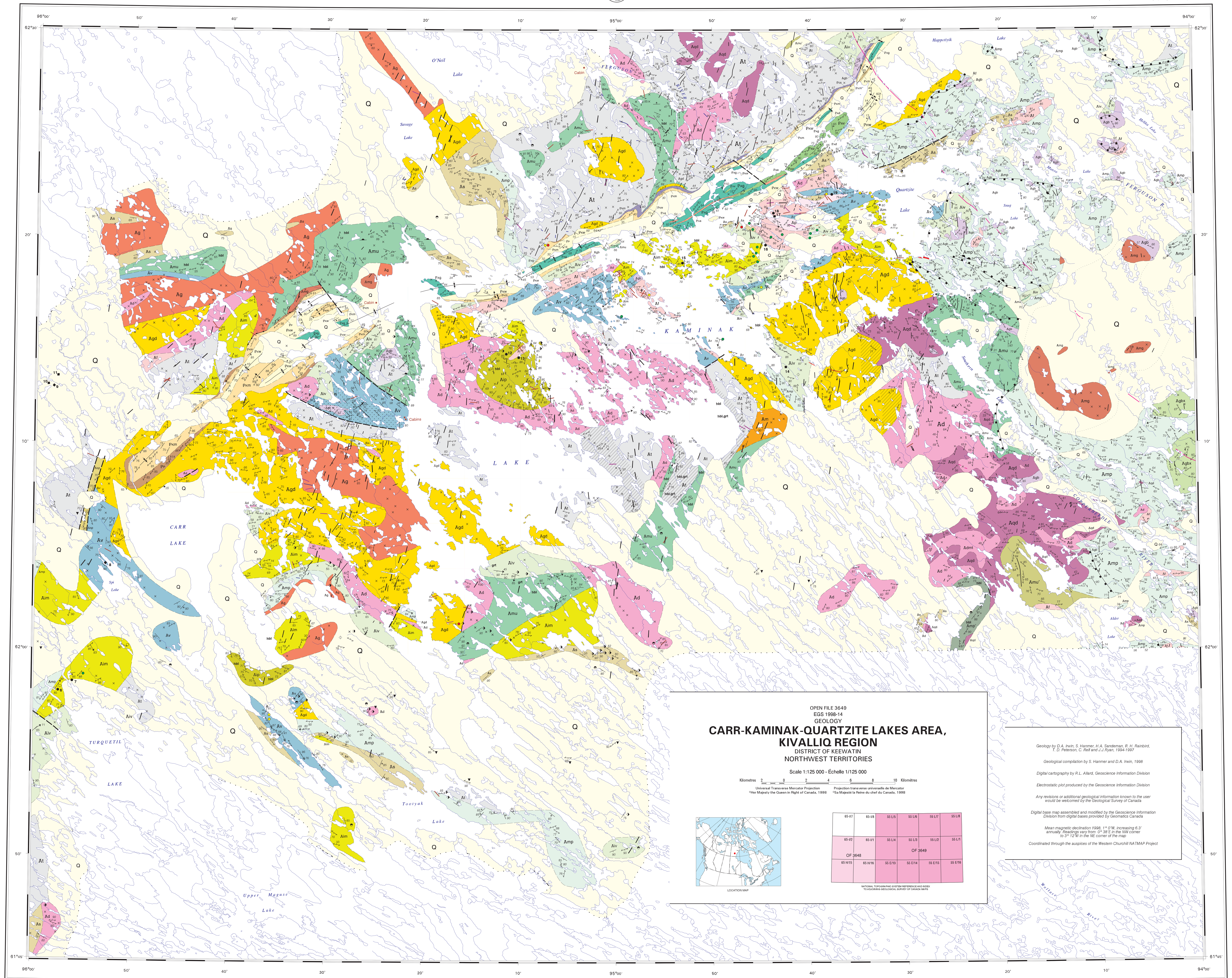
DESCRIPTIVE NOTES



OPEN FILE 3649
EGS 1998-14
GEOLOGY

CARR-KAMINAK-QUARTZITE LAKES AREA, KIVALLIQ REGION

DISTRICT OF KEEWATIN
NORTHWEST TERRITORIES

Scale 1:125 000 - Échelle 1/125 000

Universal Transverse Mercator Projection — Projection transverse universelle de Mercator

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LOCATION MAP

NATIONAL TOPOGRAPHIC SYSTEM REFERENCE AND INDEX TO ADJOINING GEOLOGICAL SURVEY OF CANADA MAPS

Geology by D.A. Irwin, S. Hanmer, H.A. Sandeman, R. H. Rainbird, T. D. Peterson, C. Relf and J.J.Ryan, 1994-1997

Geological compilation by S. Hanmer and D.A. Irwin, 1998

Digital cartography by R.L. Allard, Geoscience Information Division

Electrostatic plot produced by the Geoscience Information Division

Any revisions or additional geological information known to the user would be welcomed by the Geological Survey of Canada

Digital base map assembled and modified by the Geoscience Information Division from digital bases provided by Geomatics Canada

Mean magnetic declination 1998, 1° 0'W, increasing 6.3' annually. Readings vary from 0° 38'E in the NW corner to 3° 12'W in the NE corner of the map

Coordinated through the auspices of the Western Churchill NATMAP Project

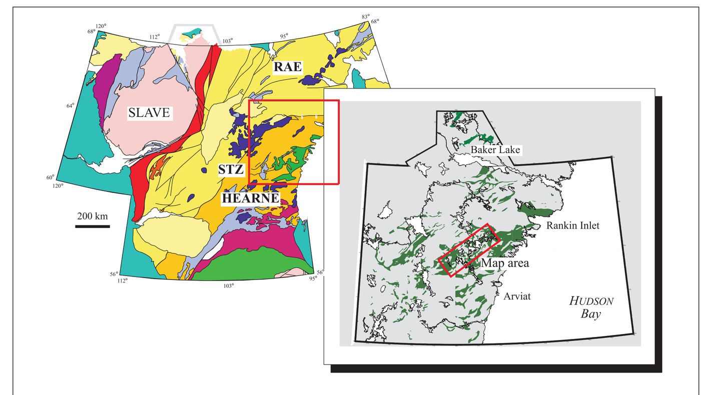

Figure 1. Schematic location of the map area represented by this set of maps. The Western Churchill Province is composed of the Rae and Hearne domains, separated by the Snowbird tectonic zone (STZ). Greenstone belt rocks in the enlargement window are represented in green.

TABLE 1. SUMMARY INFORMATION ON THE PRINCIPAL MINERAL OCCURRENCES WITHIN THE AREA COVERED BY THIS SET OF MAPS.										
ID NUMBER	NAME	ALTERNATE NAME	STATUS	COMMODITIES	DEPTYPE	DESCRIPTION	NOTABLE ASSAYS, ETC.	NORMIN.DB#	CANMINDEX#	REFERENCE
1	Wolks Lake	DEN Claims	drilled prospect	U	Paleoplacer	py & uraninite/pitchblende disseminations in quartz-pebble conglomerate; 5 diamond drill holes (ddh)	2430 ppb Au on "Grid C" (DIAND AR082737)		00933700	DIAND AR019955; locations "e" & "f" in GSC Paper 69-52, Fig.3
2	Mac Bay	KIM & TEQUILA Claims	drilled prospect	U, Ag	Paleoplacer	radioactive layers (2 km long) in polymictic conglomerate with py matrix; 8 ddh			00933400	DIAND AR019958
3	Heninga Lake: Central Zone		reserves	Zn, Cu, Ag, Au	VMS	sulphide disseminations & layers in felsic to intermediate volcaniclastic rocks; 3 ore zones: Central, West & East - East is high grade	5.5 Mt of 9.0% Zn, 1.3% Cu, 68.6 g/t Ag & 1.03 g/t Au (Northern Miner 25/03/1982)	065HNE0001	00159400	DIAND MIR 1979, NWT EGS-1983-9, pp. 89-91
4	MAG	E tip of Mag Lake	drilled prospect	Zn, Cu, Pb, Ag	VMS	sulphide disseminations & layers in silicified & sericite-altered felsic volcaniclastic rocks	31% Zn, 2.5% Cu, 135.0 g/t Ag & 0.255 g/t Au (DIAND AR083169)			065HNE0010,01048900, DIAND AR083285
5	False Hook Lake	NE of "SPI 16" showing"	drilled prospect	Au	Vein gold	quartz veins in sheared quartz-carbonate-altered volcanic rocks	8.9 g/t Au; 1 ddh gave insignificant gold (DIAND AR083309)			DIAND AR083177
6	Hook Lake	SPI 7 claim, W of JOYCE 1	drilled prospect	Au	Vein gold	quartz-carbonate veins in sheared iron carbonate-altered mafic volcanic rocks	10.36 g/t Au; ddh: 3.78 g/t Au over 3.7 m (DIAND AR083309)			DIAND AR082775
7	Turquetil Lake: Discovery	JOYCE 1 claim	reserves	Au	Vein gold	quartz-carbonate veins in sheared iron carbonate-altered mafic volcanic rocks	0.5 Mt of 6.31 g/t Au (>60 ddh) (Noble Peak Resources Ltd. Annual Report 1994)		01088600	DIAND AR082822
8	Spi Lake	DEE Claims	drilled prospect	Zn, Cu, Pb, Au, Ag	VMS	sulphide pods and stringers in silicified & sericite-altered felsic to intermediate volcaniclastic rocks; two mineralized zones: Southern & Northern	ddh: 4.25% Zn & 0.1% Cu, 23.31 g/t Ag & 0.857 g/t Au over 4.27 m	055LSW0133	00533200	DIAND NWT MIR 1973 EGS 1976-9, pp. 18-20
9	Unnamed	SE of Arrowhead Lake	drilled prospect	Zn, Cu, Ag, Au	VMS	sulphide disseminations & layers at contact between chlorite and carbonate-altered dacite and andesite flows	ddh: 6.60% Zn, 0.31% Cu, 4.98 g/t Ag & 2.18 g/t Au over 1.5 m	055LSW0142		DIAND AR061294
10	Unnamed	S of Arrowhead Lake	drilled prospect	Cu, Ag	Vein	quartz-cbt veins in hornblende-basalt and diabase; ddh cut po-py stringers in rhyolite breccia (nb. ddh 300m NE tested py-po in argillite with 0.3% Zn)	channel sample: 0.03% Cu & 2.74 g/t Ag over 1.5 m	055LSW0141		DIAND AR061294
11	Unnamed	NE of Arrowhead Lake	drilled prospect	Zn, Cu	VMS	EM anomaly; ddh: po stringers in rhyolite breccia above fault contact with andesite	ddh: 0.12% Zn & 0.02% Cu over 1.5 m	055LSW0144		DIAND AR061294
12	VG Prospect	KAM Claims	drilled prospect	Au	Vein gold	quartz veins in sericite-altered felsic volcaniclastic rocks at sheared contact with chert-pyrrhotite-magnetite iron-formation	709.7 g/t Au			DIAND AR082938
13	Mule	Elbow Lake	drilled prospect	Zn, Cu, Fe	VMS	chert-pyrrhotite-magnetite iron-formation in felsic to intermediate volcaniclastic rocks		055LSW0255	01089200	DIAND AR082938
14	Unnamed		drilled prospect	Cu	VMS	sulphide disseminations in felsic tuff: diamond drill hole on nearby EM anomaly intersected disseminated pyrite and pyrrhotite		055LSE0029		DIAND AR080438
15	MAC Gold Zone		drilled prospect	Au	Vein gold	quartz veins with prominent sulphide halos in sheared chlorite & carbonate-altered mafic volcanic rocks near a contact with sericite schist	ddh:13.989 g/t Au over 3.40 m	055LSE0080		DIAND AR082891
16	Unnamed		drilled prospect	Au	Vein gold	quartz veins in sheared, sericitized & quartz-carbonate-altered felsic volcaniclastic rocks	22.29 g/t Au	055LSE0060		DIAND NWT MIR 1988-89, p.55
17	LAD Zone		drilled prospect	Cu	Vein	quartz veins in carbonate and sericite-altered shear zone along contact between mafic and felsic volcaniclastic rocks		055LSE0057	00354100	DIAND AR017007
18	Kaminak Lake NE-2 (PETER)		drilled prospect	Au	Vein gold	quartz-carbonate veins in talc-sericite schist		055LSE0257	01089400	NMI No. 502628 or 055L07AU001; GSC Map 1216A
19	Cache Zone		reserves	Au	Vein gold	quartz veins and quartz-iron carbonate veins in sheared, sericitized & iron carbonate-altered felsic volcaniclastic rocks near contact with a quartz-feldspar porphyry plug	0.364 Mt of 9.26 g/t Au (13 ddh)	055LSE0056		DIAND AR082888

Note: ID numbers 1 to 5 are located on Open File 3648 and ID numbers 6 to 19 are located on Open File 3649

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