



LEGEND

Quaternary

- Q: Quaternary

Proterozoic

- HURWITZ GROUP (Hb-Hu)
- Undifferentiated
- Magnetite-chlorite schists
- AMETO FORMATION: gabbro, minor volcanic rocks
- AMETO FORMATION: argillite and siltstone
- AMETO FORMATION: pillowed and massive volcanic rocks
- AMETO FORMATION: dolomite
- KINGA FORMATION: Waterloo Member, quartzite
- KINGA FORMATION: Magpie Member, argillite
- PADLEE FORMATION: pyroxenite conglomerate, quartz pebble conglomerate and argillite
- ARCHAIC
- SPR GROUP: breccia, conglomerate and argillite
- Gabbro
- Agmatite and migmatite gabbro
- Granodiorite
- Granite
- Granitic gneiss with metasedimentary rock inclusions

Minerals

- hbl: Hornblende
- grt: Garnet
- sil: Sillimanite
- crd: Cordierite
- Tonalite
- Diorite

TABLE 1: SUMMARY INFORMATION ON THE PRINCIPAL MINERAL OCCURRENCES WITHIN THE AREA COVERED BY THIS SET OF MAPS.

ID NUMBR	NAME	ALTERNATE	STATUS	COMMODITIES	DEFTYPE	DESCRIPTION	NOTABLE ASSAYS, ETC.	NORMID#	CANNIMDEX#	REFERENCE
1	Wolke Lake	DEM Claims	drilled prospect	U	Paleogabbro	py & uraninite-bearing disseminations in quartz-pebble conglomerate; S diamond drill holes (ddh)	2430 ppb Au on "Grid C" (DIAND AR082737)		00933700	DIAND AR019955; locations "n" & "f" in GSC Paper 69-82, Fig. 3
2	Mac Bay	KIM TEGUCLA Claims	drilled prospect	U, Ag	Paleogabbro	radioactive layers 10 km long in pyroxenite conglomerate with pyrite; 1 ddh			00933400	DIAND AR019958
3	Hening Lake		reserves	Zn, Cu, Ag, Au	VMS	subphos disseminations & layers in felsic to intermediate volcanic rocks; 3 ore zones: Central, West & East - East is high grade	5.1 Mt of 9.2% Zn, 1.3% Cu, 66.0 g/t Ag & 1.03 g/t Au (Northern Miner 2003:1983)	006HNED001	00154400	DIAND MR1979, HWTS EGS-1983-9, pp. 89-91
4	MAG	E tip of Mag Lake	drilled prospect	Zn, Cu, Pb, Ag	VMS	subphos disseminations & layers in silicified & sericitized felsic volcanic rocks	8.1% Zn, 2.5% Cu, 135.0 g/t Ag & 0.255 g/t Au (DIAND AR081819)	006HNED001-01048900	DIAND AR083295	
5	False Hook Lake	NE of "SPR 18" showing	drilled prospect	Au	Vein gold	quartz veins in sheared quartz-carbonate-altered volcanic rocks	3.0 g/t Au; 1 ddh gave insignificant gold (DIAND AR083309)			DIAND AR083377
6	Hook Lake	SPR 1 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 AR083775
7	Turquoise Lake	JOYCE 1 claim	reserves	Au	Vein gold	quartz-carbonate veins in sheared iron carbonate-altered mafic volcanic rocks	0.5 Mt of 6.31 Au (-80 ddh) (Nickle Peak Resources Ltd. Annual Report 1999)	01186600		DIAND AR083822
8	Sp Lake	DE Claims	drilled prospect	Zn, Cu, Pb, Ag	VMS	subphos and stringers in silicified & sericitized felsic to intermediate volcanic 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	005L5W0133	00633300	DIAND NWY MR1979 EGS-1983-9, pp. 16-20
9	Unnamed	SE of Arrowhead Lake	drilled prospect	Zn, Cu, Ag, Au	VMS	subphos disseminations & layers in contact between volcanic and carbonate rocks; 1 ddh	ddh: 6.60% Zn, 0.31% Cu, 4.98 g/t Ag & 5.16 g/t Au over 1.5 m	005L5W0142		DIAND AR061294
10	Unnamed	S of Arrowhead Lake	drilled prospect	Cu, Ag	Vein	quartz-carbonate veins in hornblende-biotite and diabase; ddh cut out py stringers in amphibolite breccia; ddh: 30.0% Cu, 0.2% Zn	channel sample: 0.03% Cu & 2.74 g/t Ag over 1.5 m	005L5W0141		DIAND AR061294
11	Unnamed	NE of Arrowhead Lake	drilled prospect	Zn, Cu	Vein	EM quartzite with pyrite in mylonite breccia above fault contact with andesite	ddh: 0.12% Zn & 0.02% Cu over 1.5 m	005L5W0144		DIAND AR061294
12	VG Prospect	KAM Claims	drilled prospect	Au	Vein gold	quartz veins in sericitized felsic volcanic rocks near a sheared contact with quartz-sphene-magnetite iron-formation	706.7 g/t Au			DIAND AR083938
13	Mule	Elbow Lake	drilled prospect	Zn, Cu, Fe	VMS	chert-pyroxenite-magnetite iron-formation in felsic to intermediate volcanic rocks		005L5W0255	01088200	DIAND AR083938
14	Unnamed		drilled prospect	Cu	VMS	subphos disseminations in felsic silt; diamond drill hole on nearby EM altered intersected disseminated pyrite and pyroxenite		005L5W0259		DIAND AR083938
15	MAC Gold Zone		drilled prospect	Au	Vein gold	quartz vein alteration volcanic rocks near a sheared contact with sericitized schist	ddh: 13.989 g/t Au over 3.40 m	005L5W0080		DIAND AR083938
16	Unnamed		drilled prospect	Au	Vein gold	quartz veins in hornblende, sericitized & quartz-carbonate-altered mafic volcanic rocks	22.29 g/t Au	005L5W0060		DIAND NWY MR 1988-89, p.55
17	LAD Zone		drilled prospect	Cu	Vein	quartz veins in carbonate and sericitized-quartz zone along contact between mafic and felsic volcanic rocks		005L5W0097	00354100	DIAND AR017007
18	Kamuk Lake NE-2 (PETER)		drilled prospect	Au	Vein gold	quartz-carbonate veins in felsic-schist		005L5W0257	01088400	NMI No. 502628 or 055L7AU001; GSC Map 1216A
19	Catche Zone		reserves	Au	Vein gold	quartz veins and quartz iron carbonate veins in sheared, sericitized & iron carbonate felsic volcanic rocks near contact with a quartz-feldspar porphyry plug	0.364 Mt of 9.26 g/t Au (13 ddh)	005L5W0056		DIAND AR083888

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

Geology by S. Hamner, H.A. Sandeman, R.H. Rainbird, T.D. Peterson, and J.J. Ryan, 1997

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

Electronic 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 1996, 1° 51' E, decreasing 8' 1" annually. True magnetic declination 1996, 1° 51' E, decreasing 8' 1" annually. True magnetic declination 1996, 1° 51' E, decreasing 8' 1" annually. True magnetic declination 1996, 1° 51' E, decreasing 8' 1" annually.

Coordinated through the auspices of the Western Churchill NATMAP Project

OPEN FILE 3648

GEOLOGY

HENING LAKE - KOGTOK RIVER AREA, KIVALLIQ REGION, DISTRICT OF KEEWATIN, NORTHWEST TERRITORIES

Scale 1:25 000 - Echelle 1/25 000

Universal Transverse Mercator Projection / Projection transversale universelle de Mercator / UTM-Mercator / UTM-Mercator

Location map