Diamond Dr. 010

Township of KENOGAMING

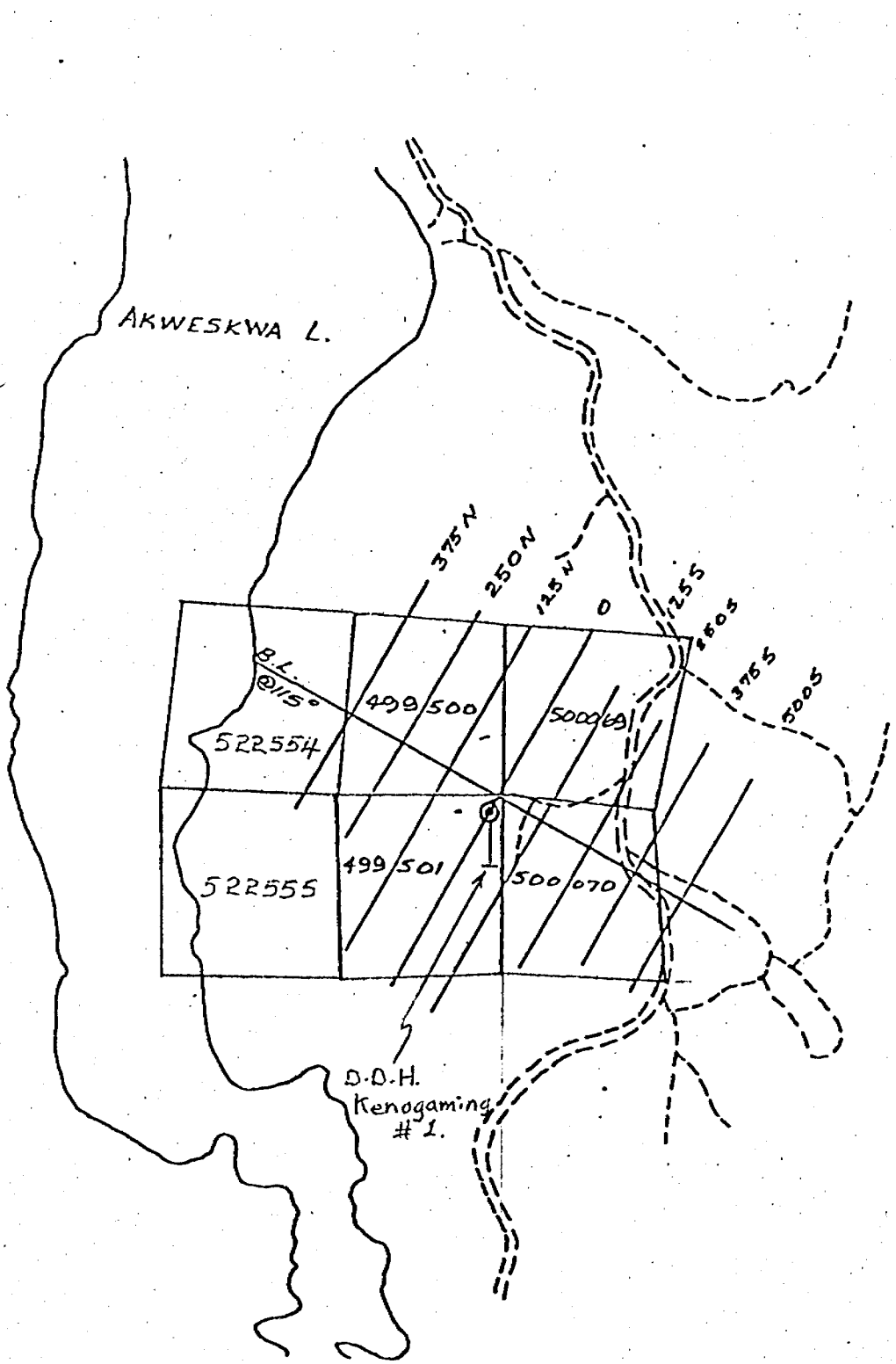
Report NO 20

Work performed by: Amax Potash Limited

Claim NO	Hole NO	Footage	Date	Note
P 499501	1	605.0	May/79	(1)

Notes:

(1) #91-79



GRID MAP

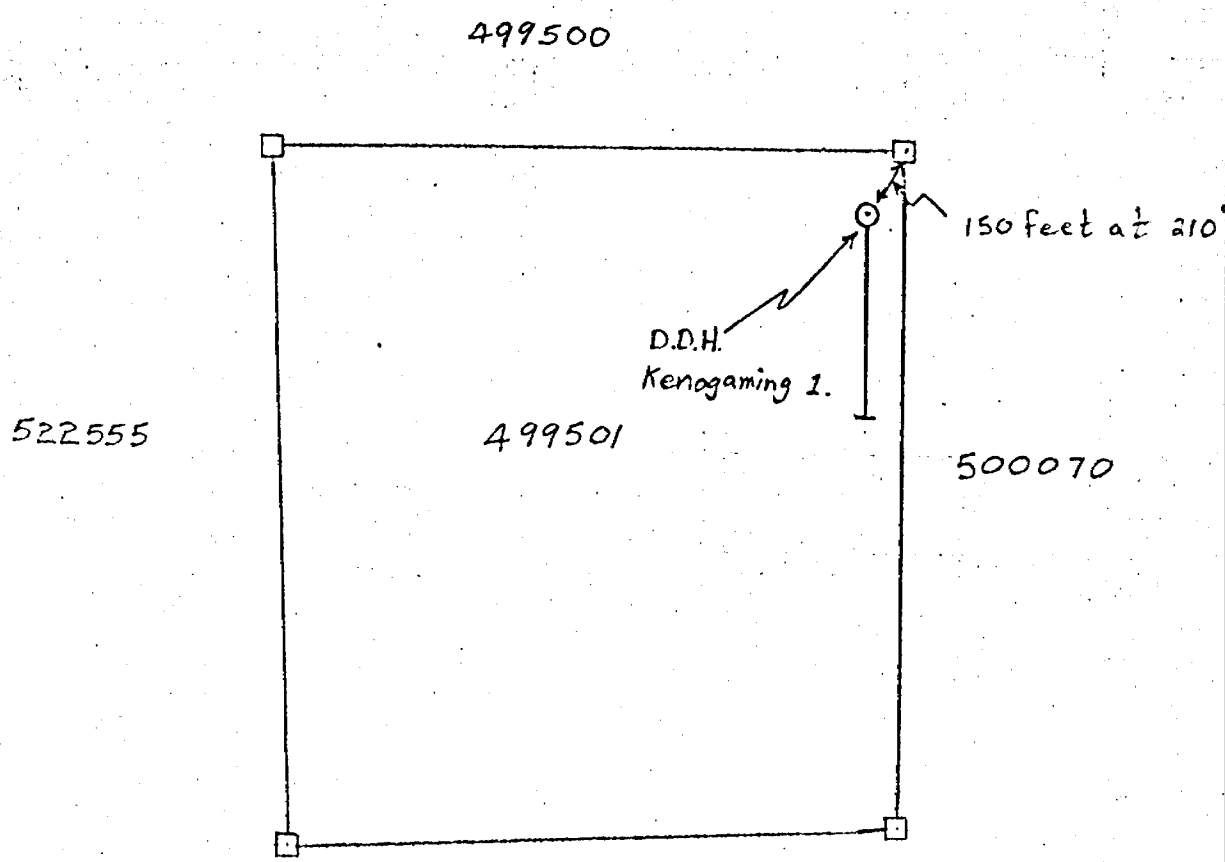
PROJECT 843-01

KENOGAMING-01

Kenogaming Township

Scale: 1" = ¼ mile

Fig. 2



AMAX POTASH LTD
Kenogaming Township
Scale 1" = 400 feet

HOLE NO: 81 | PROJECT: RENOMINING | PAGE NO: 1 OF 10

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: May 30/79 | REF. TO CLAIM CORNER:

COORDINATES 0+00 N. 14+31 W ✱ | DATE FINISHED: June 6/79 | SCALE: 1" = 20'

INCLINATION 50° | BEARING: 180° | TOTAL DEPTH: 605' | LOGGED BY:: Don Robinson

COMMENTS: 0-50 - Overburden. Dip Tests: 250' - 48°; 450' - 49°; 600' - 47°

0-50 - Ultramafic

AVE CORE REC'Y / HOLE: 97%

SECTION	ALTERATION: serpentine	ALTERATION: chlorite	ALTERATION: talc	ALTERATION: carbonate	FRACTURING	MINERAL	GEOLOGY	DESCRIPTIVE GEOLOGY	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
0								0-50 Overburden - sand, silt, clay	0	10	100	BQ			
									0	20	100				
									0	30	100				
									0	40	100				
								50-60 Ultramafic (Dunite) MgO ≥ 40% - green black, highly serp, medium grained 2c to 2.0 cm granular (cumulate) texture, very highly fractured strongly magnetic, carbonate veins about grain boundaries	0	50	98				
									none	60		↓			

HOLE NO. KEN #1 | PROJECT: [illegible] | PAGE NO: 2 OF 10

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: [illegible] | REF. TO CLAIM CORNER:

COORDINATES: N. E. | DATE FINISHED: June 6/79 | SCALE: 1"=20'

INCLINATION: -50° | BEARING: 180° | TOTAL DEPTH: 605 | LOGGED BY: Don Robinson.

COMMENTS: 60-120' Ultramafic (Dunite?)

AVE CORE REC'Y / HOLE

ALTERATION: serpentine | chlorite | talc | carbonate

FRACTURING | MINERAL | GEOLOGY

DESCRIPTIVE GEOLOGY

SECTION	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
60				BQ			
	nsos		95				
70		70					
	nsos		95				
80		80					
	nsos		95				
90		90					
	nsos		95				
100		100					
	nsos		98				
110		110					
	nsos		98				
120							

60-120 Ultramafic (Dunite?)
- grey-black, few carbonated light grey sections, highly fractured
- medium grained "cummulate" texture predominates
- strongly serp along fractures & throughout matrix.
- core appears very MgO rich > 35%, strongly magnetic
- magnesite veins 1-2mm wide @ 4 to 10cm intervals v. regular.
- no visible sulfides.

120-180 Ultramafic
- cocummulate texture 0.5 to 2.5cm, regular magnesite veins
- mod fracturing, mod-highly serp matrix & veins
- strongly carbonated sections x grey colour to core
- py spec @ 88
- msv chlorite @ 90

180-195 - grey-black, cummulate texture, highly serp
- mod magnetic, py coating along shearplane @ 94
- mod to strongly carbonated.

195-no Ultramafic
- v fine grained, pale grey, strongly carbonated matrix
- minor black chloritic sections.

msv chl VM @ 111

weakly mag

HOLE NO. KEN 2 1 | PROJECT: KENOGAMISCO | PAGE NO: 3 OF 10

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: MAY 29/79 | REF. TO CLAIM CORNER:

COORDINATES: N. E. | DATE FINISHED: June 6/79 | SCALE: 1"=20'

INCLINATION: -50° S. | BEARING: 180° | TOTAL DEPTH: 605' | LOGGED BY: D. McMillan

COMMENTS: 120 - Ultramafics

AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

SECTION	ALTERATION: serpentine	chlorite	talc	carbonate	FRACTURING	MINERAL	GEOLOGY	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
120							UM				EQ			
130									130	98				
140									140	98				
150									150	98				
160									160	98				
170									170	98				
180									180					

120 - 140 Ultramafic - massive.
- medium grey, fine grained, strongly carbonated, minor mav chl zones @ 125
- med. brown serpentine, regular magnesite veins

@ 141' - shear zone (broken core)

140 - 190 Ultramafic (Dunite)
green-black, medium grained, cumulate texture
- magnesite around grain boundaries & throughout matrix, no visible sulfides
- moderately fractured @ 3 to 4 cm intervals
- regular bands of bright green serpentinized ultramafic
- deep green blue serp veins - 25 cm width @ 10-20 cm intervals
- 160 to 180 coarse cumulate texture avg 1.0 cm grain size max 3 cm
- moderate fracture pattern @ 10-20 cm intervals
- no visible sulfides

SERPENTINIZED ULTRAMAFIC WITH MINOR BANDED

HOLE NO. KEN # 1 | PROJECT: KENOGAMING | PAGE NO: 4 OF 10

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: MAY 28/79 | REF. TO CLAIM CORNER:

COORDINATES: N. E. | DATE FINISHED: June 6/79 | SCALE: 1" = 20'

INCLINATION: -50° | BEARING: 180° | TOTAL DEPTH: 605' | LOGGED BY: Don Robinson

COMMENTS: 180 - 240 SERPENTINITE - DUNITE

AVE CORE REC'Y / HOLE

SECTION	ALTERATION: sapo.	chlorite	talc	carbonate	FRACTURING	MINERAL	GEOLOGY	DESCRIPTIVE GEOLOGY	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTIMATED
180												BQ			
	STRONG			MINOR				180 - 205 SERPENTINITE - bright green - black, coarse grained cummulate texture 10cm avg, strongly serpentinized, v. minor carbonate vnlts .5mm @ 20cm intervals, strongly magnetic - no visible sulfides, minor bleached & fine grained zones - aqua blue serp vnlts. 1 to 2mm width every 10cms. +/- mte seams.	none	190	96				
	STRONG								none		98				
200	MOD			MINOR				Intg. bleached & carborate & aqua-blue serp vnlts - minor to mod. magnesite vnlts 1 to 3 mm width - alternating colour to core from bright olive green to green-black	none	200	99				
	STRONG							205 - 240 SERPENTINITE - DUNITE - medium grained 0.5 to 2.0 cm cummulate texture - green-black, regular aqua-blue serp vnlts @ 10cm intervals, minor magnesite vnings, no visible sulfides, moderately fractured - minor mte seams at vnlts assoc. w serp vnlts.	none	210	98				
	STRONG								none	220	98				
230				MINOR					none	230	98				
								broken core Shear zone	none	240	95				

HOLE NO: [illegible] 1 | PROJECT: KENOGAMING | PAGE NO: 5 OF 10

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: May 28/79 | REF. TO CLAIM CORNER:

COORDINATES: N. E. | DATE FINISHED: June 6/79 | SCALE: 1" = 20'

INCLINATION: -50° | BEARING: 172° | TOTAL DEPTH: 1051' | LOGGED BY: Don Robinson

COMMENTS: SERP-DUNITE CUMMULATE

Dip test @ 250'

AVE CORE REC'Y / HOLE

ALTERATION: sericite | chlorite | talc | carbonate

FRACTURING | MINERAL | GEOLOGY

DESCRIPTIVE GEOLOGY

240 - 300 SERPENTINITE — DUNITE

- bright olive green to black, generally coarse grained cummulate texture 0.5 to 8.0cm size
- abundant & regular crosscutting vnlts of aqua blue serpentine vnlts, minor vnlts of carbonate (var. magnesite) & minor into vnlts.
- v. minor sulfide coatings po +/- py along fractures, trace amounts.

(246 - 250) - core is fine grained green black & contains (phlog)/biotite & chlorite as the matrix

260 - 280 - alternating olive green & green-black coarse grained serpentinized ultramafic, regular crosscutting vnlts of aqua blue (fibrous) serp generally 1 to 2mm wide.

280 - 300 - olive-green to dark green-black coarse grained cummulate textured ultramafic
- regular vnlts of aqua-blue crysotile serpentine @ 5 to 10 cm intervals.

SECTION	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTIMATED
240	trace	250	95	BQ	240		2601
250	trace	270	95		250		
	none		98				
270	trace	280	98				
280	trace	290					
290	trace	300					

HOLE NO. KEN #1 | PROJECT: KENOGAMING | PAGE NO: 6 OF 10

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: MAY 28/79 | REF. TO CLAIM CORNER:

COORDINATES: N. E. | DATE FINISHED: June 6/79 | SCALE: 1"=20'

INCLINATION: -50° | BEARING: 180° | TOTAL DEPTH: 605' | LOGGED BY: Don Robinson

COMMENTS: | AVE CORE REC'Y / HOLE

ALTERATION: serpentine, chlorite, talc, carbonate | FRACTURING | MINERAL | GEOLOGY

DESCRIPTIVE GEOLOGY

SECTION	DESCRIPTIVE GEOLOGY	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTIMATED
300	**SERPENTINITE - DUNITE**				BQ			
300–	- olive-green to green-black, coarse grained cummulate textured ultramafic, regular crisscrossing vnlts, 2 to 4mm wide of aqua-blue crysotile, , minor magnesite vning	trace	310	98				
	- rare sulfide coating along fracture, very minor.	trace		98				
320	320-340 - green-black to olive green cumulate textured ultramafic, mod fractured, minor zones of highly altered & serpentinized brecciated U.M.	trace	320					
	- minor magnesite vning, no visible sulfides	trace		98				
330	- crosscutting aqua blue crysotile vnlts are common	trace	330					
		trace		98				
340	340-360 predominantly green-black serpentinized cummulate-textured ultramafic - minor olive green zones	trace	340					
	- moderately fractured	trace		98				
350	- stronger crysotile, minor magnesite vnlts.	trace	350					
	- brecciated zone cummulate textured, 0.25 to 1.0 cm grain size	trace		95				
	- mod to strongly mag...							
360								

HOLE NO. KEN * 1 | PROJECT: KEN-GAMING | PAGE NO: 1 OF 10

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: May 29/79 | REF. TO CLAIM CORNER:

COORDINATES: N. E. | DATE FINISHED: June 6/79 | SCALE: 1"-20'

INCLINATION: -50° | BEARING: | TOTAL DEPTH: 605' | LOGGED BY: Don Robinson

COMMENTS:

AVE CORE REC'Y / HOLE

ALTERATION: serpentine, chlorite, talc, carbonate

FRACTURING

MINERAL

GEOLOGY

SECTION: STRONG TO MODERATELY STRONG SERPENTINIZATION — very minor / very minor / very minor

DESCRIPTIVE GEOLOGY

360 – DUNITE

- green-black, medium grained cummulate texture
- mod to strongly serpentinized, mod to strong magnetic, regular cross cutting vnlts of crysotile, minor magnesite vns.; no sulfides.
- magnesite rims olivine cummulate grain boundaries

fine grained grey bleached zone

380-400

- green black, medium to coarse grained ultramafic cgs to 3.0 cm max.
- regular crysotile vnlts @ 10-20 cm intervals
- rare is strongly magnetic
- few cross cutting magnesite vns

400-420

- green black, very strongly serpentinized.
- minor magnesite vning
- very strongly magnetic, medium grained cummulate texture 25 to 10 cm size

% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
none		98	BQ			
none	370	78				
none	380	78				
none	390	98				
none	400	98				
none	412	98				

HOLE NO. KFN # 1 | PROJECT: KENOGAMINCA | PAGE NO: 8 OF 10

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: May 28/77 | REF. TO CLAIM CORNER:

COORDINATES: | N. | E. | DATE FINISHED: June 6/79 | SCALE: 1" - 20'

INCLINATION: -50° | BEARING: 180° | TOTAL DEPTH: 605' | LOGGED BY: Don Robinson

COMMENTS: Dip test @ 450'

AVE CORE REC'Y / HOLE

ALTERATION: serpentine | chlorite | talc | carbonate

FRACTURING | MINERAL | GEOLOGY

DESCRIPTIVE GEOLOGY

SECTION	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
420				BQ			
STRONG MODERATE	420		98				
		430					
	none		98				
		440					
	trace		98				
		450					
	trace		95				
		460					
	trace		98				
		470					
	trace		98				
490		490					

420 - 440 DUNITE-PERIDOTITE

- black, medium grained cumulate,
- strongly serpentinized, crosscutting magnesite veins ca 20 cm intervals, strongly magnetic
- minor pectolite veining, no visible sulphides

440 - 460

- black medium grained cumulate textured
- very fractured & broken core
- minor to moderate magnesite veining
- magnetite cumulate to texture is being destroyed by alteration

(PERIDOTITE) ULTRAMAFIC

460 -

- green-grey, fine grained, highly carbonate cumulate texture partially to wholly destroyed by alteration.
- scattered po bearing along fracture planes

HOLE NO.: [illegible]

CASING COLLAR ELEV.: GROUND ELEV.:

COORDINATES N. E.

INCLINATION -50° BEARING: [illegible]

PROJECT: KENORAMINEX

DATE STARTED: MAY 28/79

DATE FINISHED: JUNE 6/79

TOTAL DEPTH: 605'

PAGE NO: 9 OF 10

REF. TO CLAIM CORNER:

SCALE: 1" = 20'

LOGGED BY:: Don Robinson

ALTERATION | FRACTURING | MINERAL | GEOLOGY | COMMENTS: | AVE CORE REC'Y / HOLE | % SULPHIDES | DRILLING INTERVAL | % CORE RECOVERED | CORE SIZE | SAMPLE INTERVAL | % REC'Y SAMP. INT. | ESTIMATED

SECTION

DESCRIPTIVE GEOLOGY

480-500 Dunite - Peridotite Ultramafic

- medium grained cumulate textured u.m, moderately to strongly serpentinized @ 490-500 dark green-black colour
- moderate magnesite vning throughout.
- cumulate texture partially destroyed by alteration
- rare [illegible] on fracture surfaces
- minor picrolite magnesite vns.

500-520 Dunite (MgO > 40%)

- dark green-black, moderately serpentinized.
- regular crosscutting Magnesite vns 1-3mm wide @ 10 to 20 cm intervals, minor picrolite vning.
- strongly magnetic
- no visible sulfides, cumulate texture well preserved by magnesite vns.

520-530 Dunite

- dark green-black, medium grained cumulate texture
- 530-532 sheared & fractured core.
- moderate magnesite vning & alteration olivine crystals
- mod to strongly magnetic

DRILLING INTERVAL	% SULPHIDES	% CORE RECOVERED
490	none	96
500	trace	95
510	none	97
526	none	98
530	none	97
540	none	95

HOLE NO. KEN #1 **PROJECT:** KEN [illegible] **PAGE NO:** 10 **OF** 10

CASING COLLAR ELEV.: **GROUND ELEV.:** **DATE STARTED:** NOV 28/78 **REF. TO CLAIM CORNER:**

COORDINATES: **N.** **E.** **DATE FINISHED:** JUNE 6/79 **SCALE:** 1" = 20'

INCLINATION: -50° **BEARING:** 180° **TOTAL DEPTH:** 605' **LOGGED BY:** Don [illegible]

COMMENTS: possible conductor @ 566-576 py bearing chlorite schist. Dip test @ 605'

AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

540-547 Dunite
- dark green-black, medium grained cumulate texture.
- moderately serpentinized, mot magnesite veins.
- strongly magnetic, mte throughout matrix

547-556.5 Serpentinite
fractured & broken core.
- bright green, massive, highly serpentinized & carbonated.
- cumulate texture obliterated by alteration.

556.5-566 Carbonated Ultramafic
- pale grey-black, fine grained strongly carbonated ultramafic
- very massive, no cumulate texture visible.
} massive chlorite

- phlogopite @ contact.

566-573 Chlorite schist
- dark green, fine grained, highly schistose & broken core
568.5 - 1% py grains. (no nickel reaction)
- massive 10cm talc band @ 569.

573-605 Carbonated Ultramafic.
- pale grey, fine grained, strongly carbonated ultramafic
- minor talc & chlorite rich bands throughout.
- mod. serpentinized serpentinite ⇒ talc + magnesite.

595-605 Carbonated & [illegible] Ultramafic
- medium green grey, fine grained, massive

Logged by Don Robinson June 6/79

SECTION	Serpentine	Chlorite	Talc	Carbonate	Sulphides %	Drilling interval	% core recovered	Core size	Sample interval	% rec'y samp. int.	Estimated
540-550	mod.			mod.	none	550	95	BQ			
550-560	strong	high		strong	trace	560	95				
560-570	moderate	massive	high	strong	1%	570	95		566–576	90	2102
570-580	moderate	massive			trace	580	95				
580-590	Moderate			very strong	none	590					
590-605	Moderate			very strong	none	600			595–605		2103

PAGE NO.: 5 OF 10 | PROJECT: Kenogaming | HOLE NO.: 1

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: May 28/79 | REF. TO CLAIM CORNER:

COORDINATES: 0400 N. 432' W. | DATE FINISHED: June 6/79 | SCALE: 1" = 10'

INCLINATION: -50° | BEARING: 180° | TOTAL DEPTH: 606' | LOGGED BY: D. Robinson

CORE

DEPTH INTERVAL FROM	DEPTH INTERVAL TO	SAMPLE NO.	INCHES REC.	% REC.	ASSAY Au oz/t	ASSAY Cu %	ASSAY Ni %		
240	250	2601	120	100	Nil	Nil	0.14		

SLUDGE

DEPTH INTERVAL FROM	DEPTH INTERVAL TO	SAMPLE NO.	LBS. REC.	% REC.	ASSAY				

240
250
260
270
280
290
300

PAGE NO.: 10 OF 10

CASING COLLAR ELEV.: GROUND ELEV.:

COORDINATES: 0+00 N. 1+32 W

INCLINATION: -50° BEARING: 180°

PROJECT: Kenogaming

DATE STARTED: May 28, 1979

DATE FINISHED: June 6, 1979

TOTAL DEPTH: 605

HOLE NO.: 1

REF. TO CLAIM CORNER:

SCALE: 1" = 10'

LOGGED BY: D. Robinson

CORE										SLUDGE									
DEPTH INTERVAL		SAMPLE NO.	INCHES REC.	% REC.	ASSAY					DEPTH INTERVAL		SAMPLE NO.	LBS. REC.	% REC.	ASSAY				
FROM	TO				Hg ppb	%Cu	%Ni			FROM	TO								
566	576	2602	120	100	Nil	0.005	0.16												
595	605	2603	120	100	Nil	Nil	0.25												