



DIAMOND DRILLING

TOWNSHIP: Cunningham

REPORT No.: 34

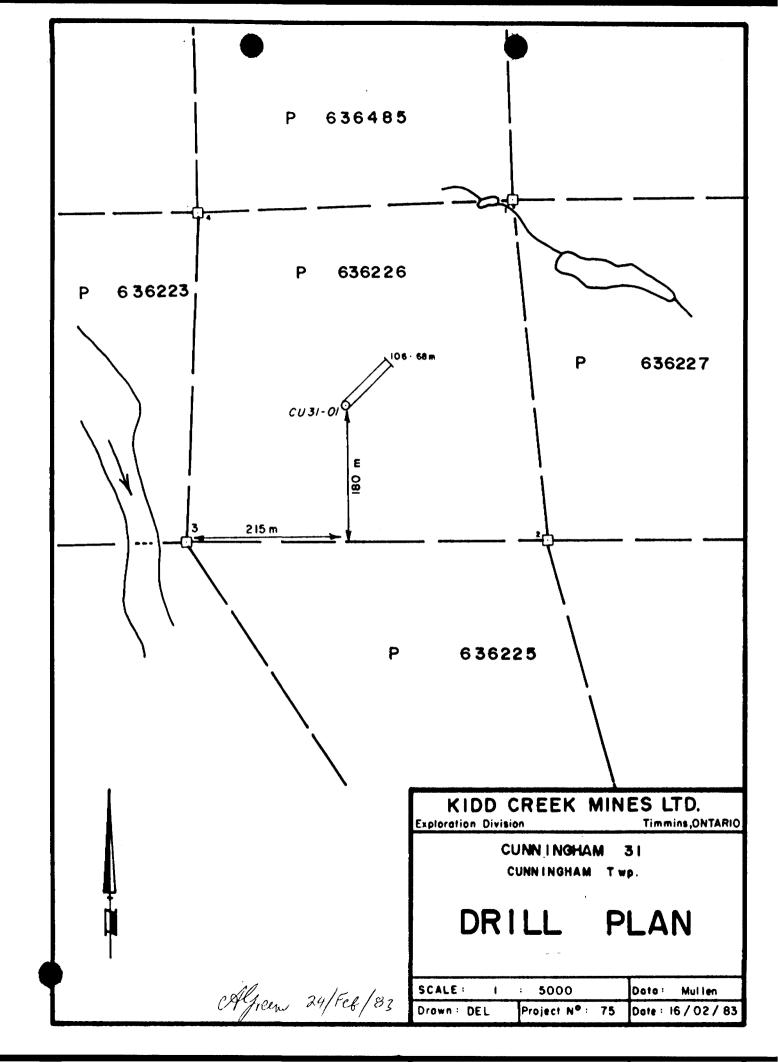
WORK PERFORMED BY: Kidd Creek Mines Ltd.

CLAIM No.	HOLE No.	FOOTAGE	DATE	NOTE
P 636226	CU-31-1	350.0	Feb/83	(1)
P 642136-7-8	CU-31-2	519.0	Feb/83	(1)
P 642136-7	CU-31-3	426.0	Feb/83	(2)
P 642140	CU-31-4	400.0	Feb/83	(2) (4)
P 642138	CU-31-5	821.0	Feb/84	(3) (5)

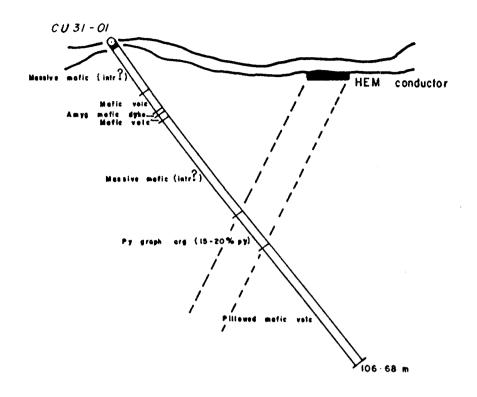
Notes: (1) #38-83

(2) #66-83

(3) #119-84 (4) #336-84 (5) *121-85



→ 045°



KIDD CREEK MINES LTD.

Exploration Division

Timmins,ONTARIO

CUNNINGHAM 31 CUNNINGHAM TWP. SECTION **FOR**

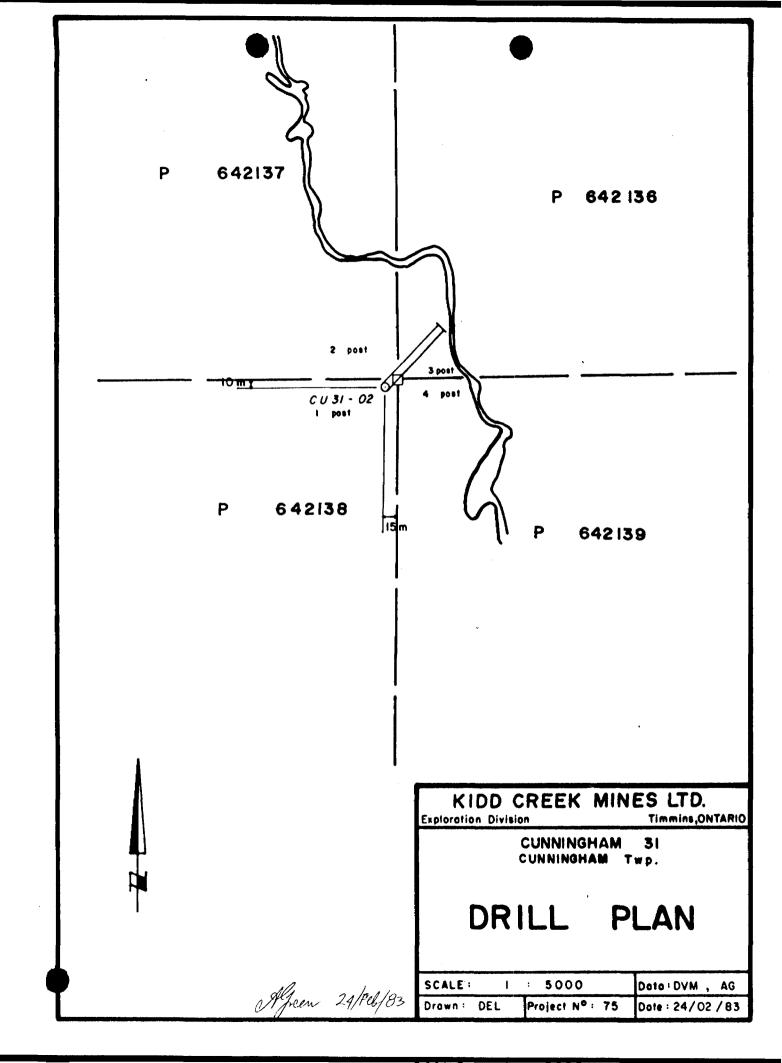
31 - 01

NORTHWEST)

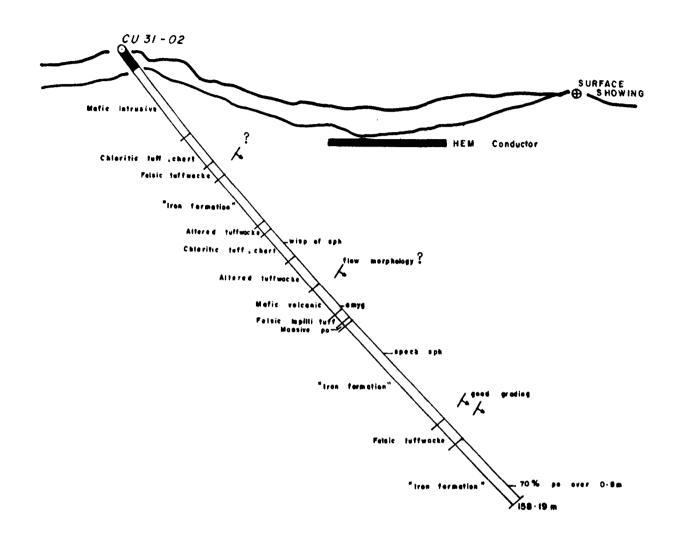
(LOOKING SCALE: 1:1000

Dato: Mullen Drown: DEL Project No: 75 Date: 16/02/83

A Green 24/Feel 82



→ 045°



KIDD CREEK MINES LTD. Timmins, ONTARIO **Exploration Division** CUNNINGHAM CUNNINGHAM Twp. SECTION FOR CU 31-02 (LOOKING NORTHWEST) : 1000 SCALE: Dota: Mullen Drawn: DEL Project No: 75 Doie: 24/02/83

Algreen 24 Feb 83





Exploration Division

	HOLE RECORD	
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P6362					
HOLE NO. CU-31-1	PROPERTY Cunningham.	31 PROJECT NO ⁷⁵	CONTRACTOR Domini		ART .Feb. 11/83 SH .Feb. 13/83
COORDINATES	Grid Location: Latitude148+60N	ı UTM: Lat	Surveyed: Lat	Min	e Grid: Lat
	Departure 167+75E	Dep	Dep		Dep
			Elevation	••••	Elev
COLLAR ATTITUDE	o Azimuth .945 Dip55	350.0 LENGTH106,68m CORE	SIZE PQ		
INCLINATION TESTS	Acid	Tests		Compass Tests	
	Depth Dip 30.48 -54°	Depth Dip	Depth Dip	Azimuth	True Azimuth
	91.44 -52°				
REMARKS					
					_

D. Mullen Logged by

Feb, 1983

Date

Cunningham 31
Property

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FROM -	то	DESCRIPTION	SAMPLE	FROM	V-10	SAMPLE LENGTH	(71)	ASS	AYS Zn	Ni	AVERAGES A Ag REMARKS
0	1.82	CASING	No.	 		LENGIH	Ju	-2	2.1	11-	119 KEMARKS
1 02 1											
1.82	16.90	MASSIVE MAFIC (Intrusive?)		 			-	 			
		- dark green, fine to medium grained, massive, uniform	_								
		- initial 50cm broken, rusty core									
		- 1% scattered irregularly shaped pyrite									
		- cut by narrow carbonate veins, stringers									
		- tiny scattered leucoxenes becoming evident at 7m									
		- occasional Chlorite slips coated with pyrite									
	1	16.5 - 2% pyrite with possible non-magnetic pyrrhotite									
		- leuzoxenes coarser near lower contact									
16.90 2	21.95	MAFIC VOLCANIC									
		- medium grey-green, fine grained to aphanitic									
		upper contact at approx. 20° to core axis but over 50cm									
		- almost in situ brecciated with numerous crisscrossing carbonate fractures									
		19.20 - 19.26 narrow coarse grained leucoxene rich mafic dyke with fault at									\$
		30° to core axis									
		- after 20.1 to lower contact unit appears too be coarser									
		- 20.8 - becoming rusty and vuggy									
		- some leucoxenes present									
										_	
		LOGGED BY: D. Mullen DATE: Feb/83 PROPERT	γ Cunningl	nam 31		F	HOLE	No	Cu-3	1-1 _P /	GE No2

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4	- 2
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FROM	- TO	DESCRIPTION	SAMPLE	FROM	Λ-TO	SAMPLE LENGTH			AYS		AVERAGES AND
	23.37	AMYGDULAR MAFIC DYKE (?)	INO.		Ī	LENGIN	_Cu	Pb	l Zn	<u>lli</u>	Ag REMARKS A.
21.33	23.37	- vuggy, rusty upper contact at 40° to core axis marked by			-				 		
			<u> </u>	 -							
ļ		carbonate vein		ļ	-						
	<u> </u>	- dark grey to black, aphanite, weakly carbonated									
		- quartz-filled amygdules to 2mm at upper and lower contacts									
		- also wormy looking quartz veins									_
		- lower contact at 50° to core axis									
		- some brecciation at lower contact									
23.37	25.15	MAFIC VOLCANIC									
		- medium green, fine grained, massive									
		23.87 - trace chalcopyrite in carbonate vein									
		24.4 - 24.6 - coarse grained leucoxene-rich mafic dyke									
_		- mafic volcanic sheared at contacts									
		- upper contact at 40°, lower contact at 90° to core axis									
		- lower contact of mafic volcanic broken, vuggy									
25.15	56.80	MASSIVE MAFIC (Intrusive?)									
		- medium grey-green, coarse grained, uniform									
		- numerous purple tinged leucoxenes to 2mm									•
		- cut by wispy yellowy-green carbonate-sericite or possibly epidote (?) veins									
		41-44.5-bleached buff coloured zone surrounding broken and lost core section									
		LOGGED BY: D. Mullen DATE: Feb. /83 PROPERTY	Cunning	ham 3	31	Н	OLE	No.Cu	31-1	P/	AGE No3

		SAMPLE	500	w-10	SAMPLE		ASS	AYS		AVERAGES	AND
FROM - TO	DESCRIPTION	No.	FKO	w-10	LENGTH	Cu	Pb	Zn	Ni	Ag REMARK	S Au
25.15 56.80	(Con't)		1								
	42.42.6			1							
	42-43.6 somewhat finer grained downhole after 50 becoming granular	+	55.	56.							
	spotted looking almost a beaded "sago" texture with circular mafic	AA11233		8	1,0m						
	crystals to 1mm										
	- trace pyrrhotite in fractures		1	58.							
- 	- crace pyrinocite in fractures	AA11234	8	3	1.5m						
	- gradational downhole after 54 with buff coloured, fine grained mafic										
	"volcanic"(?) with 1% pyrite										
	- possible basal chill of a coarse flow?? or just a chilled intrusive contact										
	56 - narrow pyrîte strînger wîth graphite										
55,00,50,45											
56.80 68.45	PYRITIC GRAPHITIC ARGILLITE		┼								
	- black sooty graphite and graphitic argillite with pyrite and occasional		<u> </u>		-						
	narrow buff coloured pyrite mafic volcanic sections	AA11235	⁵⁸ 3	59 ₈	1.5m						
			b9.	6I.							
	- pyrite occurs as stringers and nodules up to 2cm in diameter in the graphiti		8 5J.	3 62.	1.5m					· · · · · · · · · · · · · · · · · · ·	
	argillite ranging from 5-20%	AA11237	3	8	1.5m	ĺ					
		AA11238	52.	64.							
	- pyrite occurs as clots and amygdule fillings up to 5mm in diameter and	 	54.	65 ₈	1.5m					****	
	narrow stringers in the mafic volcanic averaging about 10%	AA11239	7 3	8	1.5m					· · · · · · · · · · · · · · · · · · ·	
	- mafic volcanic also contains tiny quartz amygdules to lmm	AA11240		673	1.5m						
	59.8 - 63.8 predominantly finely laminated graphitic argillite with thin seams	AA11241	67 ₃	⁶⁸ 5	1/2m						<u> </u>
	and nodules pyrite laminated at 70°-80° to the core axis		ļ								
	- some pyrite recrystalized along margins of nodules		ļ								
	- some carbonate filled pressure shadows present										
	LOGGED BY: D. Mullen DATE: Feb. /83 PROPERTY	Cunning	ham :	31	н	OLE 1	No. CU	31-1	PA	GE No. 4	

FROM - TO	DESCRIPTION	SAMPLE	EDOA	w-10	SAMPLE	L		SAYS		AVERAGES AND
FROM - TO	DESCRIPTION	No.	FROM	w - 10	LENGTH	Cu	Pb	Zn	Rij.	Ag REMARKS Au
56.80 68.45	Con't									
	- 63.8 - 64.8 buff mafic volcanic with 5% pyrite strongly carbonated with									
	graphitic fractures									
	after 65 carbonate veining increasing, pyrite decreasing									
	- more broken core with sooty and in places shirty grraphite									·
	67.5 - 5cm coarse grained pink tinged carbonate vein									
	- possible fault zone (?)									
68.45106.68	PILLOWED MAFIC VOLCANIC									
	- upper contact sharp but wavy at 20° to core axis									-
	- numerous pyrite filled amygdules near contact	AA11242	68. 5	69. 5	1 . Om					
	- initially massive buff coloured and strongly carbonated giving away to		ļ	ļ				<u> </u>		
	medium grey-green pillowed volcanic at 70m									
	- some bleaching and amygdules near selvages									
	- selvages average lcm thick and contain hyaloclastite with wisps of									
	pyrrhotite and carbonate									
	- some chlorite slips									
	- crosscut by occasional carbonate stringers									
	72.42 - minor fault at 55° to core axis									
	73.51 - minor fault at 80° to core axis									
	73.9 - 5cm band of pyrrhotite, pyrite and graphite in selvage									
	- some bleaching near larger carbonate veins and patches									
	LOGGED BY: D. Mullen DATE: Feb. /83 PROPER	Cunningl	am 3	1	F	OLE	No	Cu31-	PA	GE No

170	
≥ 3	

	DECCRIPTION	SAMPLE	EDO14	-101	SAMPLE		ASS	AYS		AVERAGES AN
FROM - TO	DESCRIPTION	No.	FROM-	-10	SAMPLE LENGTH	Cu	Pb	Zn	Ni	AVERAGES AN Ag REMARKS A:
8.45 106.68	Con't									
	- occasional quartz veinlet with unusual orange fringe (sphalerite ???)									
	105.52 - speck chalcopyrite, sphalerite in carbonate vein									
					-					-
7.05 60										
106.68	END OF HOLE			_						
			-							
			-						ļ	
	Samples AA-11233 and AA 11242 are pyritic altered mafics at the contacts									<u> </u>
	with the graphitic argillite									
	All others are of the pyritic graphitic argillite horizon			1						
	All others are of the pyriote graphress arguings									
				-					<u> </u>	
	All samples were analyzed for Cu. Ib, Zn, Ni, Ag and Au									
									<u> </u>	
				\dashv				-	-	
				_					ļ	
	LOGGED BY: D. Mullen DATE: Feb./83 PROPE	RTY Cunningh	am 31			IOI F	No C	131-1	1 04	AGE No. <u>6</u>

Kidd Craek Mines Ltd.





DRILL HOLE RECORD

P64213	6-7-8								
HOLE NO	PROPER	TY Cunningham 31	PROJEC	CT NO	. CON	NTRACT	OR Þóminik		ART Feb 17/83
COORDINATES	Grid Location: Lat	itude128+25N	. UTM	l: Lat	. St	urveyed	: Lat	Mir	ne Grid: Lat
	Dep	parture .172+25E		Dep			Dep		Dep
				519.0'			Elevation .	• • • •	Elev
COLLAR ATTITUDE	Azimuth 945	Dip - 50°	LENGTH		RE SIZE	.BQ			
INCLINATION TESTS		Acid Tests						Compass Tests	
	Depth 60.96	Dip -48 ⁰	Depth	Dip		Depth	Dip	Azimuth	True Azimuth
	121.92	-44							
									
						l			
DEALADIC									

REMARKS

Logged by ...Dave Mullen

Date February, 1983

Property Cunningham 31

Afreen 24 Feb 83

FROM -	TO	DESCRIPTION	SAMPLE	EDOM	-10	SAMPLE LENGTH		ASS	AY\$		AVERAGES AND Ag REMARKS Au
FROM -	- 10	DESCRIPTION	No.	FROM	- 10	LENGTH	Cu	Pb	Zn	Ni	Ag REMARKS Au
0 6	6.10	CASING		1			1				_
	i										
6.10	8.40	MAFIC VOLCANIC (?)									
		- broken core, rusty									
		- fine grained, grey-green							·		
		- moderately carbonated, trace pyrite									
		- possibly chilled margin of mafic intrusion									
8.40]	19.00	MASSIVE MAFIC (Intrusive?)									
		- core still broken and vuggy to 11 m				-					
		- coarser grained than above unit, massive									
		- grey-green, numerous leucoxenes to 2 mm									
		- trace pyrite, cut by odd carbonate vein									
		- weakly carbonated									
		- a few wispy epidote veins									
		- broken core 18.4 - 19.0									
		- lower contact broken									
19.00 2	28.12	MAFIC VOLCANIC (?)									
		- possible fine grained phase of above unit									
		- massive, light to medium grey, fine grained									
		- mottled texture									
		LOGGED BY: Dave Mullen DATE: February 1983	PROPERTY Cunning	nam 31		F	OLE	No. C	u-31-	-2 PA	GE No2

FROM - TO	0	DESCRIPTION	SAMPLE No.	FROM	1-TO	SAMPLE LENGTH			AYS	Ni	AVERAGES A Ag REMARKS	ND
			140.	+		LENGIN	Cu	1 PB	Zn	NI	Ag KEMAKKO	Au
19.00 28.	-12											
		- moderately carbonated		 					ļ			
		- a few carbonate-chlorite veins - with a few siliceous "sweaty looking" patches			<u> </u>		-					
							ļ	 -	ļ			
	-	- trace pyrite in siliceous zones and carbonate veins	<u> </u>									
		- lower contact fairly sharp at 50° to core axis			<u>.</u>		ļ					
											<u> </u>	
28.12 38.	.06	CHLORITIC TUFFS AND CHERT										
		- medium to dark green chloritic tuffs with narrow grey to black chert beds with										
		minor pyrite and pyrrhotite										
		- some tuffs have pervasive carbonate alteration imparting a lighter green									· · · · · · · · · · · · · · · · · · ·	
		colouration										
		- some lapilli tuffs with rounded chert clasts										
		- chert beds range from 1 to 15 cm in width										
		- occasionally finely laminated										
		- bedding at 65° to 80° to core axis				<u> </u>						
		- some beds appear brecciated in part										
		31.9-32.3 - large carbonate vein				· ·						_
		- pyrrhotite content increasing downhole occurring as narrow seams, blobs and	·									
		wisps (< 5%)										
		- trace chalcopyrite with pyrrhotite in a few places lower contact sharp at										
		60° to core axis										
	•	LOGGED BY: Dave Mullen DATE: February, 1983 PROPERTY	Cunning	nam 3.	1	+	OLE	No.CT	7-31-	2 PA	GE No3	

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50044	**	DESCRIPTION	SAMPLE	Troo.	4 - 70	SAMPLE		ASS	AYS		AVERAGES AND
FROM	- 10	DESCRIPTION	No.	IFKUN	4-10	LENGTH	Cu	Pb	Zn	Ni	Ag REMARKS Au
38 <u>.06</u>	42.51	ALTERED FELSIC TUFFWACKE		1			!		1		_
		- massive, medium grey, uniform									
		- granular looking, strong pervasive carbonate alteration			1						
		- occasional tiny quartz-eyes									
		- scattered specks of pyrrhotite, pyrite									
		41.4-41.6 - narrow chloritic tuff with pyrite									
		42 faint bedding at 70° to core axis									
		- possible crude grading indicates tops downhole									
12.51	59.00	CHLORITIC TUFFS, CHERT AND MAGNETITE IRON FORMATION									
<u> </u>		- well banded dark green chloritic tuffs with stringers and 1 cm seams of									<u> </u>
		pyrrhotite (1-3%) with minor pyrite and trace chalcopyrite									
	<u> </u>	- interbedded with grey to black chert beds 5-15 cm thick some of which are	AA 11243	52. 2	7	1.5 m					
		brecciated or otherwise contorted (soft sediment deformation)	AA 11244	1 /	2	1.5 m					
		- magnetite bands from 5 mm to 10 cm thick, increase downhole	AA 11245	1	7	1.5 m					
		- bedding at 50° to 80° to core axis	AA 11246	56. 7	57. 7	1.0 m					
		- occasional carbonate veinlet									
		- some cherts have a light green alteration possibly grunerite (Fe+silicate)?									
		- also some chloritic tuffs are surprisingly quite siliceous when core is split									
		so the mafic component of the formation may not be that extensive									
		- talc alteration present after 50 m									
		52.8-55.7 - 5% pyrrhotite with trace chalcopyrite									
	<u></u> _	LOGGED BY: Dave Mullen DATE: February, 1983 PROPERTY	Y Cunningh	nam 3	1	н	IOLE I	No. CU	-31-2	2 PA	AGE No4

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FROM - TO	DESCRIPTION	SAMPLE	EDO.	A - TO	SAMPLE			AYS		AVERAGES A
-KOM - 10	DESCRIPTION	No.	FROM	1	SAMPLE LENGTH	Cu	Pb	Zn	Ni	Ag REMARKS
2.51 59.00	Con't							<u> </u>		
	55.5 - 20 cm zone of 10% wispy pyrrhotite in carbonate patch									
	57 - contorted bedding									
9.00 61.50	ALTERED TUFFWACKE									_
	- medium grey-green, granular - pervasive carbonate alteration									
	- slightly foliated at 80° to core axis increasing in intensity downhole									
	- odd speck pyrite					ļ		ļ		
	- possible fault at lower contact with quartz-carbonate veins with pyrite	_							-	
1.50 71.70	CHLORITIC TUFFS AND CHERT									
	- initially well foliated at 70° to core axis				•					
	- both network of veinlets and pervasive carbonate alteration	AA 11247	65. _c 2	66.	1.0 m					
	- a few pyrrhotite stringers with trace pyrite	AA 11248	2	7	1.5 m					
	- banded at 60° to core axis	AA 11249	š	9	0.2 m					
	- 63.0-63.4 - magnetite bands	AA 11250		69. 4	1.5 m					
	- 65.9-66.2 - 10% pyrrhotite with trace chalcopyrite in grey chert	AA 11251	69. 4	70. 4	1.0 m					
*	7.84 - wisp of sphalerite			_						
	- becoming definitely fragmental with rounded chert clasts - lapilli tuff									· · · · · · · · · · · · · · · · · · ·
	- gradational lower contact with tuffwacke									
1 70 80 73	ALTERED TUFFWACKE	AA 11252	75. 5	76. 0	0.5 m					-

EDO44 T	\sim	DESCRIPTION	SAMPLE	EDO	M - TO	SAMPLE LENGTH		AS	SAYS		AVERAGES AN
FROM - TO	9	DESCRIPTION	No.	ICCO	w - 10	LENGTH	Cu	Pb	Zn	Ni	Ag REMARKS Au
1.70 80.	.73	con't									
		- massive, light grey green	AA 11253		77.	1.5 m					
		- granular, very strongly carbonated	AA 11254	5	7	0.2 m					
		- occasional chert clasts or thin beds	AA 11255	77.	78. 2	0.5 m					
		- 75.4 - 5 cm quartz vein									
		76 - sulphides increasing with 1-2% pyrite and trace chalcopyrite							ļ		
		76.43 - 76.60, 76.90 - 77.00, 77.35 - 77.50 - 20% pyrrhotite with chert			ļ				<u> </u>		
		beds									
		- banding at 35° - 40° to core axis									
		77.50 - 77.70 - lamprophyre dyke, grey, carbonate, micaeous						<u> </u>	<u> </u>		
		- good lapilli tuff near 78			<u> </u>						
		- pyrrhotite shows a lineation on chlorite slip faces		ļ				-			
					ļ			-			
0.73 90.	.22	MASSIVE MAFIC VOLCANIC		ļ.,	-			<u> </u>	 		
		- medium grey-green, granular, massive		<u>:</u>				1	<u> </u>		
		- carbonate rich, brecciated at contact									
		- full of tiny leucoxenes, trace pyrite	-								
		- foliated at 30° to core axis shown by alignment of leucoxenes					_				
		88.28 - 88.53 - lamprophyre dyke									
		- becoming finer grained downhole									
		- carbonate filled amygdules to 4 mm at lower contact									
		- lower contact broken			`						
		LOGGED BY: Dave Mullen DATE: February, 1983 PROPE	RTY Cunningh	am 3	l	}	OLE	No.	u-31-	·2 PA	GE No6

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0	DESCRIPTION				- · · · · · · · · · · · · · · · ·					AVERAGES AND
1		No.	11101	∧-TO	SAMPLE LENGTH	Cu	Pb	Zn	Ni	Ag REMARKS Au
.22	con't						<u> </u>			
	- tops possibly downhole									
				<u> </u>						
90	MIVED PETCIC INDILLI MIDE AND MARKS MIDE	22 11256	90.	91.						
-00		AA 11230	91.	91.	0.8 m					
	- predominantly dark grey carbonate-rich	AA 11257	0	8	0.8 m					
	felsic lapilli tuff with a few 20 cm chloritic mafic tuff interbeds	AA 11258	4	92 . 8	1.0 m					
	main section 90.35 - 91.85									
	- felsic tuff is clast supported with very little matrix, clasts to 2 cm but								-	
	some are elongated									
	- bedding at 55° to core axis									
	- 5% disseminated pyrrhotite with trace pyrite									
			92	94						
0.0	MASSIVE PYRRHOTITE	AA 11259		0	1.2 m					
	- 90% pyrrhotite with minor quartz, chert, pyrite and streaks of chalco-									
	pyrite									
	- both upper and lower contacts are enriched in pyrite over 10 cm (25%)									
9.49	CHLORITIC TUFFS, CHERT AND MAGNETITE IRON FORMATION	AA 11260	94. 0	95. 0	1.0 m					
			95.	96. 0	1.0 m					
			96.	97. 7						
	magnetite iron formation downhole		97.	99.			_			
<u> </u>	- pyrrhotite occurs as seams, stringers and disseminations mainly with chert		99.	106. 7	1.5 m					
(MIXED FELSIC LAPILLI TUFF AND MAFIC TUFF - predominantly dark grey carbonate-rich felsic lapilli tuff with a few 20 cm chloritic mafic tuff interbeds main section 90,35 - 91.85 - felsic tuff is clast supported with very little matrix, clasts to 2 cm but some are elongated - bedding at 55° to core axis - 5% disseminated pyrrhotite with trace pyrite MASSIVE PYRRHOTITE - 90% pyrrhotite with minor quartz, chert, pyrite and streaks of chalcopyrite - both upper and lower contacts are enriched in pyrite over 10 cm (25%) 49 CHLORITIC TUFFS, CHERT AND MAGNETITE IRON FORMATION - finely laminated pyrrhotite at contact - initially pyrrhotite rich chlorite tuffs and chert giving way to magnetite iron formation downhole - pyrrhotite occurs as seams, stringers and disseminations mainly with chert	MIXED FELSIC LAPILLI TUFF AND MAFIC TUFF - predominantly dark grey carbonate-rich felsic lapilli tuff with a few 20 cm chloritic mafic tuff interbeds main section 90.35 - 91.85 - felsic tuff is clast supported with very little matrix, clasts to 2 cm but some are elongated - bedding at 55° to core axis - 5% disseminated pyrrhotite with trace pyrite MASSIVE PYRRHOTITE - 90% pyrrhotite with minor quartz, chert, pyrite and streaks of chalco- pyrite - both upper and lower contacts are enriched in pyrite over 10 cm (25%) 4A 11260 - finely laminated pyrrhotite at contact - initially pyrrhotite rich chlorite tuffs and chert giving way to magnetite iron formation downhole - pyrrhotite occurs as seams, stringers and disseminations mainly with chert AA 11261	MIXED FELSIC LAPILLI TUFF AND MAFIC TUFF - predominantly dark grey carbonate-rich felsic lapilli tuff with a few 20 cm chloritic mafic tuff interbeds main section 90.35 - 91.85 - felsic tuff is clast supported with very little matrix, clasts to 2 cm but some are elongated - bedding at 55° to core axis - 5% disseminated pyrrhotite with trace pyrite MASSIVE PYRRHOTITE - 90% pyrrhotite with minor quartz, chert, pyrite and streaks of chalco- pyrite - both upper and lower contacts are enriched in pyrite over 10 cm (25%) 49 CHLORITIC TUFFS, CHERT AND MAGNETITE IRON FORMATION AA 11260 - finely laminated pyrrhotite at contact - initially pyrrhotite rich chlorite tuffs and chert giving way to magnetite iron formation downhole - pyrrhotite occurs as seams, stringers and disseminations mainly with chert AA 11264 2	MIXED FELSIC LAPILLI TUFF AND MAFIC TUFF - predominantly dark grey carbonate-rich - predominantly dark grey carbonate-rich felsic lapilli tuff with a few 20 cm chloritic mafic tuff interbeds felsic lapilli tuff with a few 20 cm chloritic mafic tuff interbeds main section 90.35 - 91.85 - felsic tuff is clast supported with very little matrix, clasts to 2 cm but some are elongated - bedding at 55° to core axis - 5% disseminated pyrrhotite with trace pyrite MASSIVE PYRRHOTITE - 90% pyrrhotite with minor quartz, chert, pyrite and streaks of chalco- pyrite - both upper and lower contacts are enriched in pyrite over 10 cm (25%) - finely laminated pyrrhotite at contact - finely laminated pyrrhotite at contact - initially pyrrhotite rich chlorite tuffs and chert giving way to magnetite iron formation downhole - pyrrhotite occurs as seams, stringers and disseminations mainly with chert AA 11264 2 7 91. 92. 94. 94. 95. 96. 97. 96. 97. 97. 97. 97. 97	MIXED FELSIC LAPILLI TUFF AND MAFIC TUFF - predominantly dark grey carbonate-rich - AA 11257 - predominantly dark grey carbonate-rich - AA 11257 - predominantly dark grey carbonate-rich - AA 11257 - predominantly dark grey carbonate-rich - AA 11258 - predominantly dark grey carbonate-rich - predominantly dark grey carbonate-rich - AA 11259 - Predominantly dark grey carbonate-rich - predominan	MIXED FELSIC LAPILLI TUFF AND MAFIC TUFF - predominantly dark grey carbonate-rich - predominantly dark grey carbonate-rich - predominantly dark grey carbonate-rich - AA 11256 90 0 0 0.8 m felsic lapilli tuff with a few 20 cm chloritic mafic tuff interbeds - AA 11258 8 8 8 1.0 m main section 90.35 - 91.85 - felsic tuff is clast supported with very little matrix, clasts to 2 cm but some are elongated - bedding at 55° to core axis - 5% disseminated pyrrhotite with trace pyrite - 90% pyrrhotite with minor quartz, chert, pyrite and streaks of chalco- pyrite - both upper and lower contacts are enriched in pyrite over 10 cm (25%) - finely laminated pyrrhotite at contact - initially pyrrhotite rich chlorite tuffs and chert giving way to magnetite iron formation downhole - pyrrhotite occurs as seams, stringers and disseminations mainly with chert - AA 11264 2 7 1.5 m	MIXED FELSIC LAPILLI TUFF AND MAFIC TUFF AA 11256 Predominantly dark grey carbonate-rich AA 11257 Predominantly dark grey carbonate-rich AA 11257 AA 11257 B	MIXED FELSIC LAPILLI TUFF AND NAFIC TUFF AA 11256 Predominantly dark grey carbonate-rich Felsic lapilli tuff with a few 20 cm chloritic mafic tuff interbeds AA 11257 AA 11257 BO 0.8 m Felsic lapilli tuff with a few 20 cm chloritic mafic tuff interbeds AA 11258 BO 0.8 m AA 11258 BO 0.8 m Felsic lapilli tuff with a few 20 cm chloritic mafic tuff interbeds AA 11258 BO 0.8 m PRODUCTION OF THE STAND MAGNETITE IRON FORMATION AA 11259 AA 11259 AA 11259 AA 11259 AA 11259 BO 0.8 m AA 11259 BO 0.8 m AA 11258 BO 0.8 m AA 11259 AA 11259 AA 11259 AA 11259 AA 11259 AA 11259 AA 11260 AA 1126	MIXED FELSIC LAPILLI TUFF AND MAFIC TUFF AA 11256 Predominantly dark grey carbonate-rich AA 11257 AA 11258 Felsic lapilli tuff with a few 20 cm chloritic mafic tuff interbeds AA 11258 AA 11258 B 8 1.0 m main section 90.35 - 91.85 - felsic tuff is clast supported with very little matrix, clasts to 2 cm but some are elongated - bedding at 55° to core axis - 5% disseminated pyrrhotite with trace pyrite MASSIVE PYRRHOTITE AA 11259 AA 11250 AA 11250

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FDQ14 FQ	DECCRIPTION	SAMPLE	EDOA	4 – TO	SAMPLE		ASS	AYS		AVERAGES AT
FROM - TO	DESCRIPTION	No.	FKON	Λ-10	SAMPLE LENGTH	Cu	Pb	Zn	Ni	Ag REMARKS A
94.00 129.49	con't		1							
	- beds	AA 11265	100. 7	102.	1	de de la companya de		-		
	- minor pyrite and traces pyrrhotite		102.	102.						
		AA 11266			i	 				
	- 94.45 - 94.65 - 80% pyrrhotite 10% pyrite	AA 11267	⊬°	109.	1.4 m	-				
	- well bedded at 40° - 60° to core axis increasing to 80° downhole after 97	AA 11268	1	4 106.	1.4 m					
	- a few carbonate patches	AA 11269	4	4	1.0 m	i 1				
	- some magnetite bands with disseminated pyrrhotite	AA 11270		106. 6	0.2 m					
	Dome inagricate dand with albeminated pyllricate	RA 11270		107.	U.2 III	<u> </u>				
	- 100.2 - 100.6, 101.3 - 101.8 - contorted beds of chert magnetite - soft	AA 11271	6	108.	1.0 m					<u> </u>
	sediment deformation	AA 11272		6	1.0 m					
	- chert beds thickening downhole									
	102.26 - 102.60 - lamprophyre dyke									
	106.50 - possible arsenopyrite (silvery pyrite?) in quartz vein									·
	- 106.54 - speck sphalerite									
	108.8 - 113.3 - very fine grained dark grey to black argillaceous zone						_			
	with finely disseminated pyrrhotite 2%, contorted bedding in places									
	- after 113.3 well bedded chloritic tuffs, magnetite iron formation and grey-							_		
	green chert with occasional pyrrhotite sections averages 40 cm wide from									
	114.1 through to 126.8									
	114.4 - bedding paralleling core axis									
	- when split some chloritic tuff beds appear quite siliceous (possibly altered									
	cherts in part)						-			
	- 128 - magnetite bands at 70° to core axis									

FDOM TO	DESCRIPTION	SAMPLE	EDOA	4 – TO	SAMPLE		ASS	AYS		AVERAGES AND
FROM - TO	DESCRIPTION	No.	ITROM	1-10	LENGTH	Cu	Pb	Zn	Ni	Ag REMARKS Au
129.49136.60	FELSIC TUFFWACKE-ARGILLITE		<u> </u>							
	- gradational contact with above horizon									
	- medium grey, medium to very fine grained									
	- moderately carbonated									
	- bedding at 70° to core axis									
*	- good grading indicates downhole tops									
	- several consistent determinations									
	- beds from 30 cm to 2 m									
	- grades into green chloritic tuffs									
							<u> </u>			
136.60157.14	CHLORITIC TUFFS AND CHERT									
	- medium grey-green, moderately carbonated	AA 11273		0	0.5 m					
	- with a few narrow pyrrhotite seams with minor pyrite	AA 11274	138.		1-0 m					
	- some brecciated chert beds	AA 11275	139.	139.	0.5 m					
	- 139.06 - 139.40 - tuffwacke bed with quartz eyes									_
	- cut by odd quartz vein	AA 11276	145.		1.0 m					
	- 146 - 147.5 - chert horizon with stringers of pyrrhotite and pyrite	AA 11277	146. 0	147. 5	1.5 m					
	- very brecciated in section 145-150	AA 11278	147. 5		1.5 m					
	152.95 - 153.55 70% pyrrhotite and pyrite with trace chalcopyrite, finely	AA 11279	149.		1.2 m					
		AA 11280			0.5 m					
	153.55 - 153.95 chert band with pyrrhotite-pyrite stringers with chalcopyrite	AA 11281		0	1.0 m					
	- broken core 155.9 - 156.7	AA 11282	154 0	155. 5	1.5 m					
		Cunning				OLE	NoCII	-31-2	PA	GE No9

DESCRIPTION	SAMPLE No.	FROM	V-10	SAMPLE LENGTH		AS:	SAYS	A'	VERAGES REMARK	AND KS
Con't										
156.7 -157.1 Fault running subparallel to core axis										
MAGNETITE IRON FORMATION										
- 1 cm thick beds of magnetite intercalated with grey chert	AA 11284									
- banded at 75° to core axis										
END OF HOLE										
ALL samples sent for geochemical analysis for Cu, Pb, Zn, Ni, Ag, Au				-						
Total Number 43 samples				 						
Total Meterage 44.1 meters										
			·							
	Cunningly Cunningly								E No	
	MAGNETITE IRON FORMATION - 1 cm thick beds of magnetite intercalated with grey chert - banded at 75° to core axis END OF HOLE ALL samples sent for geochemical analysis for Cu, Pb, Zn, Ni, Ag, Au Total Number 43 samples Total Meterage 44.1 meters	Con't 156.7 -157.1 Fault running subparallel to core axis MAGNETITE IRON FORMATION -1 cm thick beds of magnetite intercalated with grey chert - ban.ied at 75° to core axis END OF HOLE ALL samples sent for geochemical analysis for Cu, Pb, Zn, Ni, Ag, Au Total Number 43 samples Total Meterage 44.1 meters	Con't 156.7 -157.1 Fault running subparallel to core axis 155. MAGNETITE IRON FORMATION -1 cm thick beds of magnetite intercalated with grey chert - banJed at 75° to core axis END OF HOLE ALL samples sent for geochemical analysis for Cu, Pb, Zn, Ni, Ag, Au Total Number 43 samples Total Meterage 44.1 meters	Con't 156.7 -157.1 Fault running subparallel to core axis 155. 156. MAGNETITE IRON FORMATION AA 11283 5 7 -1 cm thick beds of magnetite intercalated with grey chert AA 11284 7 157. - banded at 75° to core axis END OF HOLE ALL samples sent for geochemical analysis for Cu, Pb, Zn, Ni, Ag, Au Total Number 43 samples Total Meterage 44.1 meters	Con't 156.7 -157.1 Fault running subparallel to core axis 156.7 157. 156. 157.	Con't 156.7 -157.1 Fault running subparallel to core axis 155. 156.	DESCRIPTION Con't 156.7 -157.1 Fault running subparallel to core axis 155. 7 1.2 m AA 11283 5 7 1.2 m AA 11284 7 1 0.4 m - banded at 75° to core axis END OF HOLE ALL samples sent for geochemical analysis for Cu, Pb, Zn, Ni, Ag, Au Total Number 43 samples Total Meterage 44.1 meters	DESCRIPTION No. PROW-10 IENGIN 156.7-157.1 Fault running subparallel to core axis 156.7-157.1 Fault running subparallel to core axis MAGNETITE IRON FORMATION A 11283 5 7 1.2 m 156. 157. A 11284 7 7 1.2 m 157. 157. A 11285 1 6 0.5 m END OF HOLE ALL samples sent for geochemical analysis for Cu, Pb, Zn, Ni, Ag, Au Total Number 43 samples Total Meterage 44.1 meters	DESCRIPTION Con't 156.7 -157.1 Fault running subparallel to core axis No. No. NO. NO. IENGTH 156.7 -157.1 Fault running subparallel to core axis NA. 11283	DESCRIPTION No. NO. NO. NO. NO. CENGIH Con't 156.7-157.1 Fault running subparallel to core axis NAGRETITE IRON FORMATION -1 cm thick beds of magnetite intercalated with grey chert -2 banded at 75° to core axis NA 11285 AN 11286 AN 11286

Kidd Creek Mines Ltd.

DRILL HOLE RECORD

EXPLORATION

COORDINATES	Grid Location:	Latitude [†]	29+/5N	UTN	1: Lat		Surveyed:	Lat	Mine	e Grid: Lat
	1	Departure ?	72+25E		Dep			Dep		Dep
					426.01			Elevation	• • • • •	Elev
COLLAR ATTITUDE	Azimuth04	15° Dip .	50°	LENGTH	12984m	CORE SIZE	BQ			
INCLINATION TESTS			Acid Tests						Compass Tests	
	Depti	n Dip		Depth	Dip		Depth	Dip	Azimuth	True Azimuth
	60.		- <u></u>							
	121.	92 - 45 ⁰								
				<u></u>						
					<u></u>			· · · · · · · · · · · · · · · · · · ·		
REMARKS										
REMARKS										

FROM -	· 10	DESCRIPTION	SAMPLE No.	FROM - TO		SAMPLE LENGTH		ASS	AYS		AVERAGES REMAR	AND KS
0	9.14	CASING										
9.14	9.35	CHERT										
		- grey chert with pyrrhotite wisps										
9.35	29.53	MIXED FELSIC/MAFIC TUFFWACKE - ARGILLITE										
		- medium to dark grey to grey-green				_						
		- a few 5mm wide pyrrhotite seams with trace pyrite										
		- bedding at 65 ⁰ to core axis	AA 11286	26.4	26.6	0.2m						
		- graded beds indicate downhole tops										
		- becoming light grey near 19m.	AA 11287	28.5	29.5	1.0m						
		- argillaceous material dominating		<u> </u>	ļ							
		24.26 strong carbonate zone										
		26 - 49 wisp of sphalerite with pyrite		ļ							·	
29.53 3	31.40	CHERT AND CHLORITIC TUFFS									 	
		- minor pyrrhotite seams and stringers, trace pyrite and specks chalcopyrite	AA 11288	29.5	26.6	0.8m						
		- dark green chloritic tuffs	A 11289	30.3	31.3	1.0m					***	
		Z	A 11290	31.3	32.3	1.0m						
1.40 4	16.84	TUFFWACKE AND ARGILLITE		<u> </u>								
		- medium grey to black										
		- well bedded tuffwacke grading into fine argillites and minor graphite argillite									•	
		LOGGED BY: D. Mullen DATE: February, 1983 PROPERTY	Cunningh	nam 3	1		HOLE 1	VoCu	-31-3	PA	GE No2_	

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ROM - TO	DESCRIPTION	SAMPLE	E FROM-TO		SAMPLE	A	SSAYS	AVERAGES AN
		No.			LENGTH			REMARKS
1.40 46.84			 					
	- thin seams of pyrite and pyrrhotite associated with the graphitic argillite		ļ	ļ				
	- moderately carbonated, moderately sericitic							
	- a few dark green chloritic tuff beds	AA 11291	44.8	45.8	1.0m			
	- excellent graded beds indicate downhole tops	AA 11292	45.8	46.8	1.0m			
	- scouring features also show downhole tops	AA 11293	46.8	48.0	1.2m			
	- after 39 mainly finely laminated black argillite with a few thin seams of							
	pyrrhotite, pyrite and traces of chalcopyrite							
	- bedding at 85° - 90° to core axis cut by a few quartz and carbonate veins							
	- occasional chert beds as at 41.25, 42.3, 43.6, 44.2		ļ					
	- 45.7 thin seam of chalcopyrite							
	- sulphides increasing up to 10% pyrite, pyrrhotite downhole, less argillite						_	
	and more chert.							
		AA 11294	48.0	49.0	1.0m			
8.64 88.00	CHERT, MINOR ARGILLITE							
	- grey, green and black cherts initially with 10cm bands of massive pyrrhotite	AA 11295	49.0	50.5	1.5m			
	with traces chalcopyrite	AA 11296	50.5	51.5	1.Om			
	- a few argillite and chloritic tuff beds	AA 11297	51.5	53.0	1.5m			
	- bedding at 80° - 90° to core axis	AA 11298	53.0	54.5	1.5m			
	- 50.6 - 51.5 5% disseminated pyrite	AA 11299	57.4	58.4	1.0m			
	51.5 - 54.5 zone with 2% scattered pyrite cubes to 2mm	AA 11300	78.5	79.5	1.0m			
	- also chert appears more foliated and in places contorted	aa 11301	79.5	\$1.0	1.5m			
	LOGGED BY: D. Mullen DATE: February, 1983 PROPER	TY Cunning	*			OLE No	.Cu-31-3	PAGE No. 3

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FROM - TO)	DESCRIPTION	SAMPLE No.	FROM	4-TO	SAMPLE LENGTH		AS	SAYS		AVERAGES REMARK	AND (S
8.64 88.0	00	Con't										<u></u>
		- foliation at 45° - 65° to core axis	AA 11302	81.0	82.5	1.5m						
		58.6 - 58.8 very contorted argillite with ribbony chloritic fractures	AA 11303	82.5	84.0	1.5m						
		running parallel to core axis crosscutting bedding; above fractures and	AA 11304	84.0	85.0	1.0m						
		contorted bedding stop abruptly at 58.8										
		- a few chloritic interbeds with pyrrhotite										
		58.9 - 60.7 5% pyrrhotite throughout section										
		60.1 - 60.6 quartz chip bearing felsic tuffwacke bed										
		62.3 - 68.0 graphitic argillite beds with 5% pyrrhotite and minor pyrite										
		- some chert is finely laminated at 85° to core axis										
		- 72.0 - 74.1 broken core, approximately lm lost										
		- 77.64 - 78.03 grey, moderately carbonated biotitic lamprophyre dyke with										
		green chlorite contacts at 45° to core axis.										
		- after 78 cherts are becoming very siliceous, clear almost opalescent										
		cut by stringers of pyrrhotite minor pyrite		<u> </u>							· · · · · · · · · · · · · · · · · · ·	.,
		pyrite replaces pyrrhotite as dominant sulphide										
	_	after 81m, approximately 5% sulphide			ļ <u></u>				-		-	
88.00 88.	.77	LAMPROPHYRE DYKE										
		- grey, biotite rich, moderately carbonated										
		- contacts sharp at 20° to core axis										
		- contacts chloritic, medium green and contain carbonate rhombs										
		LOGGED BY: D. Mullen DATE: February 1983 ' PROPE	RTY Cunning	ham 3	I	·	HOLE	No.9	u-31-3	PA	GE No4_	

FROM - TO	DESCRIPTION	SAMPLE No.	FROM	-10	SAMPLE LENGTH		ASS	AYS	AVE	RAGES REMARK	AND S
38.77 96.32										-	
	- cream to dark grey chert, some finely laminated at 80° to core axis										
	interbedded with narrow magnetite bands										
	- 89.1 brecciated band										
	- a few chloritic tuffs										
	94.6 - 95.7 - lapilli tuff bed containing cherty clasts grading into black										
	slightly graphitic argillite with 10% pyrrhotite and pyrite with trace										
	chalcopyrite to 96.3			-							
96.32 98.8	5 LAMPROPHYRE DYKE								-		
	- greenish grey, moderately carbonated										
	- biotite phenocrysts to 3mm										
	- contacts sharp at 80° to core axis										
	- chilled over 10cm, darker green than dyke							\prod			
98.86 101.	50 CHERT, MAGNETITE IRON FORMATION										
	- predominantly grey to black very siliceous chert cut by a few pyrrhotite										
	and pyrite stringers										
	- magnetite bands present only near upper contact with lamprophyre										
	99.1 - 99.4 bit collapsed causing section with smaller core almost AQ size										
								-		_	
	LOGGED BY: D. Mullen DATE: February 1983 PROPERT	Y Cunningh	am 31			HOLF !	No. Ct	J-31-3	PAGE	No5_	

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FROM - TO	DESCRIPTION	SAMPLE	FROM-TO		SAMPLE		ASSAY	'S	AVERAGES AT
1		No.	-	-	LENGTH	1			REMARKS
	VARIOLITIC PILLOWED MAFIC VOLCANIC								
	- contact sharp at 70° to core axis	_							
	- a few 3 mm amygdules along contact								
	- initially in situ brecciated, massive and foliated								
	- also dark grey grading to buff near 105 and then to grey-green near 107								
	102.4 - 102.5 possible chert inclusion								
	102.5 - 103.2 2% disseminated pyrite, pyrrhotite								
	- strongly carbonated								
	- foliated at 60° to core axis								
	- varioles very stretched in buff zone								
	- varioles bleached and occassionally cored, up to 1 cm in diameter, average								
	5 mm								
	- some coalesce								
	- minor disseminated pyrite								
	- finely disseminated black tourmaline scattered throughout volcanic								
	- selvages bleached and filled with hyaloclastite and some pyrite, pyrrhotite								
	- some pillows are 50% varioles while others contain less than 5%								
	- becoming buff coloured after 118								
	- 126.5 - 127.9 massive granular zone						$\overline{\perp}$		
129.84	END OF HOLE							M	Men •
	LOGGED BY: D. Mullen DATE: February, 1983 PROPERT	TY Cunning	ham 3	1	н	OLE N			PAGE No. 6

Kidd Creek Mines Ltd.

DRILL HOLE RECORD

EXPLORATION

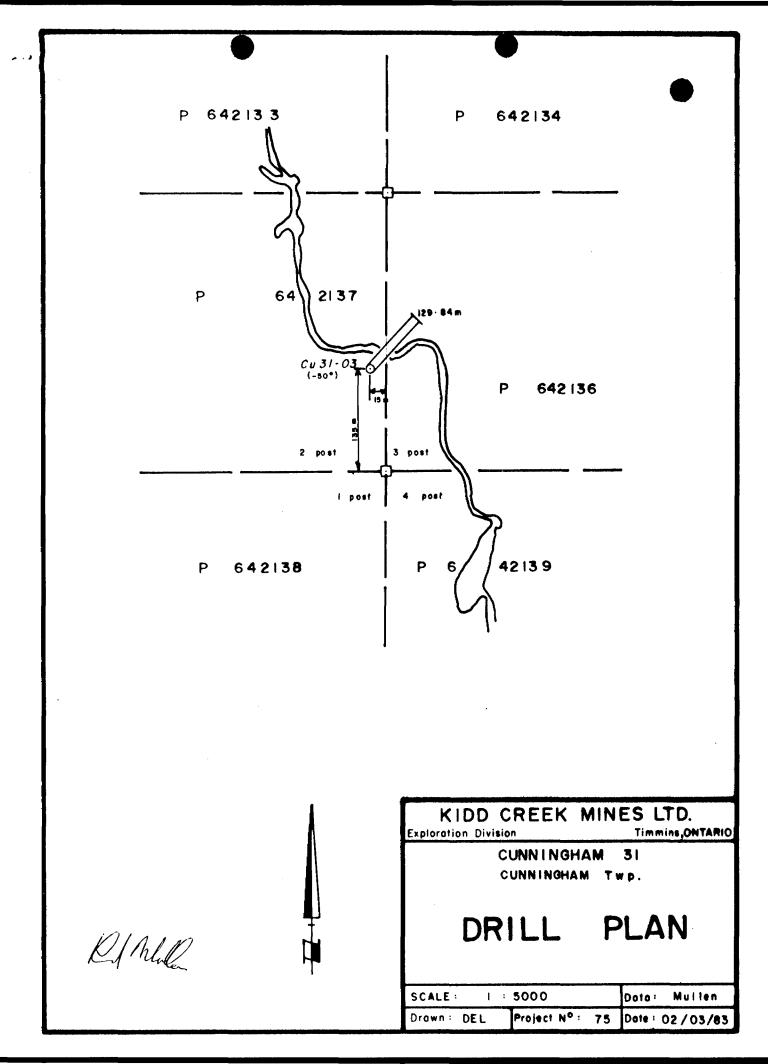
		. L 126	5+00N						SHFeb. 28/83
COORDINATES	Grid Location: Latit	tude arture	5+00E	UTN		Surveyed:			e Grid: Lat
	Dep	arture	• • • • • • • • •		Dep		Dep		Dep Elev
COLLAR ATTITUDE	Azimuth	Dip	- 55°	LENGTH	400.0°	EBQ		••••	Elev
INCLINATION TESTS		A	Acid Tests					Compass Tests	
	Depth	Dip		Depth	Dip	Depth	Dip	Azimuth	True Azimuth
	60.96 m	-51 [°]				-	-		
	121.92 m	- 48°							
				······································		-	· · · ·		,
, eren									
DENARRIC									
REMARKS									
								1	7/1/10

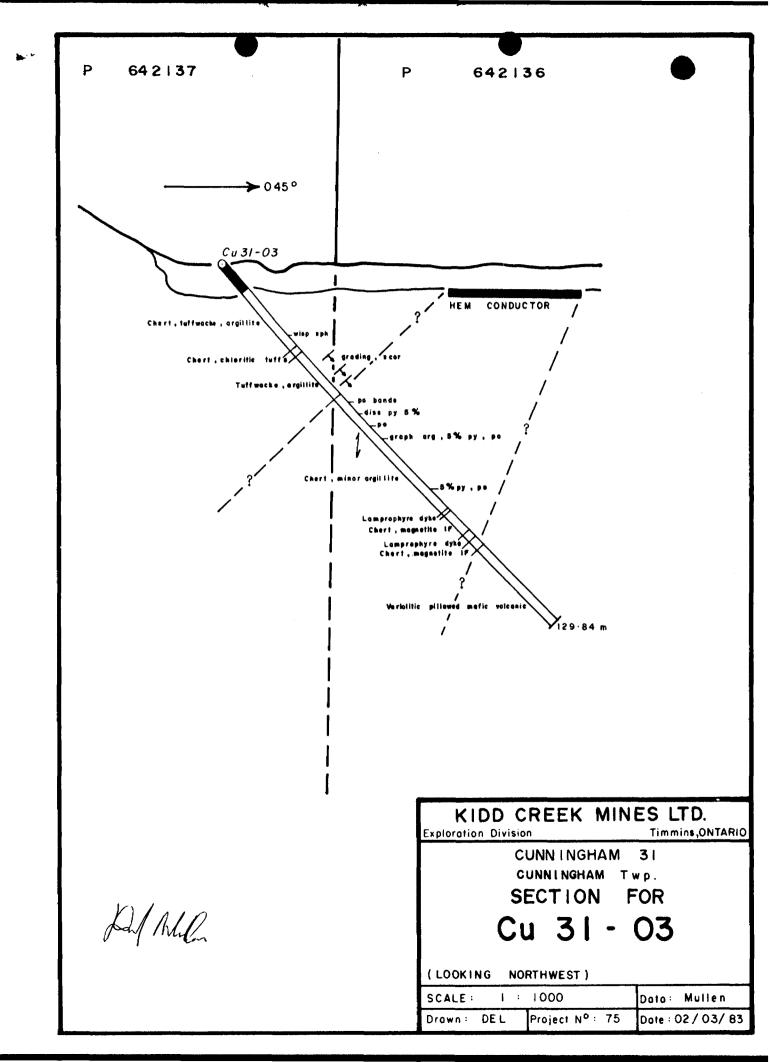
FROM -	то	DESCRIPTION	SAMPLE No.	FROM-	-то	SAMPLE LENGTH		ASS	AYS		AVERAGES REMARK	AND
0	8.40	CASING										
8.40	30.80	TUFFWACKE - ARGILLITE										
		- medium to dark grey to black			_							
	-	- some bedding laminated, argillite bedding at 70° to core axis								· ·		
		- a few narrow chert beds										:
		- some finely disseminated pyrite, strongly carbonated										-
		- possible downhole tops by grading scour										
		- a few pyrrhotite seams and light green chloritic tuff bands near 17 m										
		20 - 23 beds to 1 m - good downhole tops from grading										,, , , , , , , , , , , , , , , , , , ,
		23 - 27 mainly fine black argillite with dark green chloritic tuff, minor cher	_									
		and 2% disseminated and wisps of pyrite and pyrrhotite										
		29.3 - 31. broken schistose core										
		30.1 kink band, "minifold",										
30.80	35.68	CHERT MAGNETITE IRON FORMATION										····
		- possible fault contact with tuffwackes										
		- medium green chert with thin magnetite bands and some dark green chlorite										
		tuff interbeds										
		- a few narrow pyrrhotite stringers	·	-								
		- lower contact marked by quartz-albite vein									•	
		LOGGED BY: D. Mullen DATE: February, 1983 PROPERTY	Cunning	nam 31			HOLE	No. 1	31-31	4 54	AGE No2_	

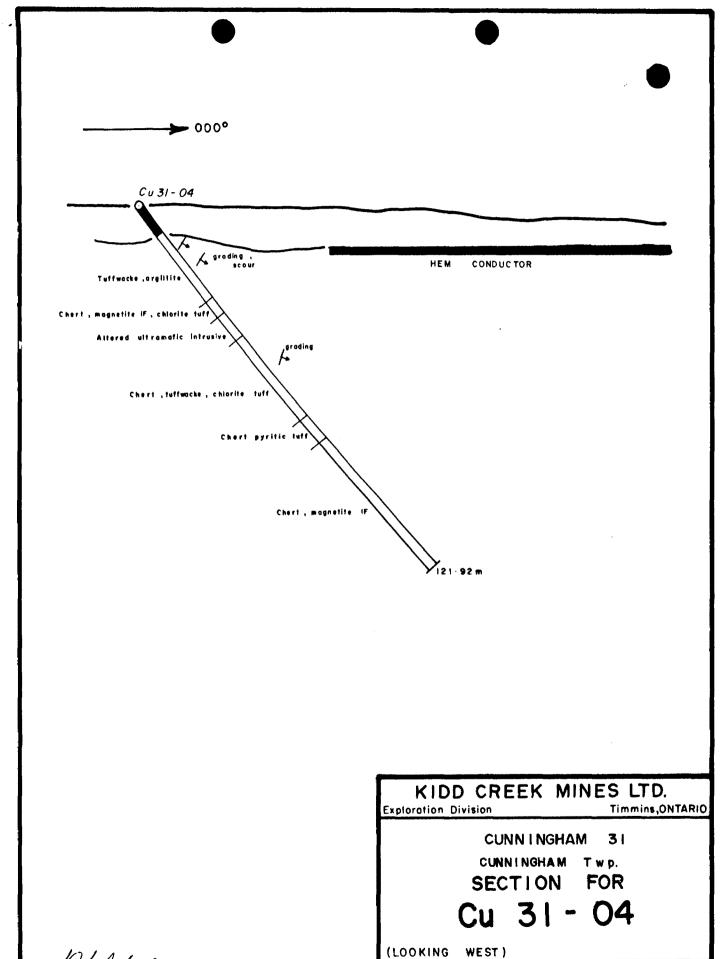
FROM - TO	DESCRIPTION	SAMPLE No.	FROM	4-TO	SAMPLE LENGTH	T	ASS	AYS	AVERA	GES ANI MARKS
35.68 43.20	ALTERED ULTRAMAFIC INTRUSIVE									
	- medium grey, granular	AA 11305	43.2	44.7	1.5 m					
	- exceedingly talcose	AA 11306	44.7	46.2	2 1.5 m					
	- cut by numerous talc-carbonate veins	AA 11307	46.2	47.	1.5 m					
		AA 11308	47.7	49.	1.5 m					
43.20 70.0	CHERT, TUFFWACKE, CHLORITIC TUFF	AA 11309	49.2	50.7	1.5 m					
	- intermixed grey to green chert beds with stringers of pyrite, pyrrhotite	AA 11310	50.7	51.	7 1.0 m					
	with felsic tuffwacke containing quartz grains ("eyes") to 2 mm and dark	AA 11311								
	green chloritic tuffs with finely disseminated pyrite and pyrrhotite	AA 11312								
	- a few 10 15 cm thick seams of pyrite, pyrrhotite and traces chalcopyrite	AA 11313	63.3	64.3	1.0 m					
	associated with chert beds	AA 11314	64.3	65.8	1.5 m					
	- bedding at 50° - 60° to core axis	AA 11315	69.0	70.0	1.0 m					
	- a few graded beds indicate downhole tops									
	- some coarser lapilli tuff beds with chert clasts to 1 cm						-			
	52 - 57 fairly uniform purply-grey zone of thin chert and fine lapilli to						•			· · · · · · · · · · · · · · · · · · ·
	ash tuff with trace pyrite									
	57 - 59 excellent chloritic lapilli tuff containing 2 cm chert clast									
	63.3 - 64.3 35% pyrite and pyrrhotite in finely laminated beds 1 to 5 mm thic	k								
	67 - 70 numerous irregular quartz veins - silica dumping?									
	- associated with spotted cherts									
										•
	LOGGED BY: D. Mullen DATE: February, 1983 PROPERTY	Cunningha	l am 31			HOLE N	ง o.Cบ	-31- ⁴	PAGE No.	3

FROM - TO	DESCRIPTION	SAMPLE No.	FROM	1-TO	SAMPLE LENGTH		ASSA'	WS		RAGES REMARK	AND (S
70.00 78.00	CHERT AND PYRITIC TUFFS				_						
1	- grey chert with beds of finely laminated, fine grained pyrite with trace	AA 11316	70 01	71 5	1.5 m						
	chalcopyrite	AA 11316 AA 11317	i	1 !							
	- pyritic zones from 5 to 30 cm wide	AA 11318			i						
	- a few darker green chloritic tuffs with disseminated pyrite and pyrrhotite	AA 11319	74.5	76.0	1.5 m						
i	- bedding at 85° - 90° to core axis	AA 11320									
	- a few argillaceous beds	AA 11321									
		AA 11322	78.0	79.0	1.0 m						
8.00 121.94	CHERT, MAGNETITE IRON FORMATION		1								
	- cream, light green, grey to black chert with thin magnetite bands and										
	grey argillaceous beds										
1	- some beds brecciated										
i	- 79.15 hematite or jasper										
	- a few minor faults at 80.1, 80.3, 80.9										
	- minor disseminated pyrite										
	- 84 - 86.5 graphitic pyritic argillite, strongly carbonated, minor pyrrhotite										
	trace chalcopyrite										
	86.5 - 86.9 broken core										
	92.70 - possible wisps of sphalerite		1								
	94.4 - 96.3 magnetite bands becoming coarser grained with a pink to										
	reddish tinge (jasper? or garnets??)									_	
	- banding at 70° to core axis									_	
	LOGGED BY:D. Mullen DATE: February, 1983 PROPERT	TY Cunningh	nam 3.	1		HOLE V	lo . <u>Cu</u>	-31·4	PAGE N	10. 4	1

FROM - TO	DESCRIPTION	SAMPLE No.	FROM	1-TO	SAMPLE LENGTH		ASSA	AYS	AVERAGES REMARK	ANE
78.00 121.	2 Con't						Ť			
	- odd speck chalcopyrite, pyrite stringers	AA 11323	83.0	84.0	1.0 m					
	105.5 - 106.7, 108.0 - 109.5 - pyrrhotite-rich sections with pyrite trace chal-	1	1	1						
	copyrite	AA 11325	85.5	87.0	1.5 m					
	- sphalerite at 105.51, 105.86	AA 11326	87.0	88.0	1.0 m					<u>-</u> -
	- a few graphitic slips	AA 11327	0		1.5 m					
	120.7 - 121.7 graphitic zone with 10% pyrite and pyrrhotite	AA 11328	106. 5	108.	_1.5 m					
		AA 11329	0	5	1.5m					
121.9	2 END OF HOLE	AA 11330	8	112.	0.8 m					
		AA 11331	120.	121.						
										-
			 	ļ			_			
			<u> </u>				-			
			 			+-+				
			-				_			
-			_	-						
			-							
						1/1/		121		
						14	1	hell		
	LOGGED BY: D. Mullen DATE: February 1983 PROPERTY	Y Cunningh	nam ?		<u> </u>			1-31-4	AGE No5	







SCALE:

Drawn:

1:1000

DEL

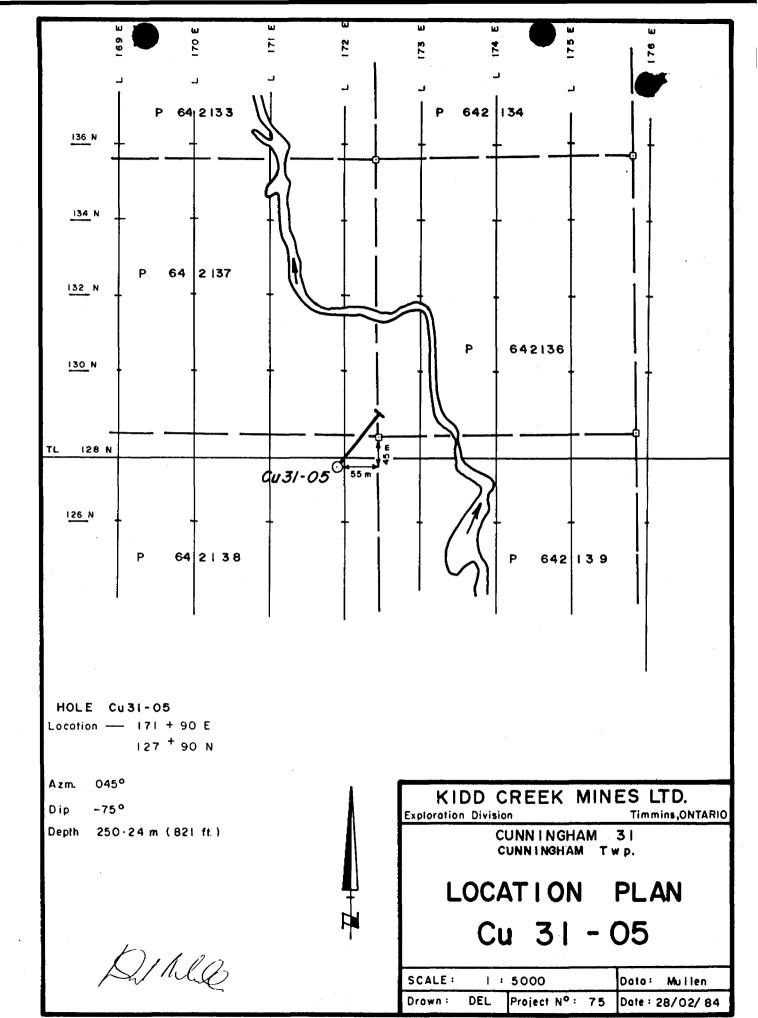
Project No: 75

Doto:

Mullen

Date : 04/03/83

Del Malle



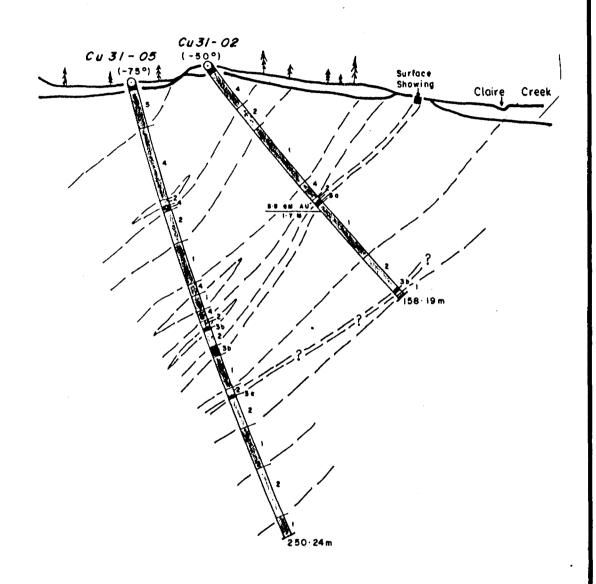
642136 642138 642137 **→** 045° Cu 31 - 05 Peridotite Mofic intrusiv Chert | Motic intrusive Chert , Argillite Chert, Argillite, Magnetite iron formatio Motic intrusive Chart , Magnetite iron formation Motic intrusive Pyritic , Argillite , Chert Chert, Magnetite iron formation Chert , Argillite Magnetite iron formation, Cherk Chert , Chert breccia , Argillite Magnetite iron formation, Chert KIDD CREEK MINES LTD. Timmins,ONTARIO **Exploration Division** CUNNINGHAM 31 **CUNNINGHAM** Twp. **FOR** SECTION Cu 31 - 05 DINCO (LOOK ING NORTHWEST) SCALE: 1:2000 Data: Mullen

Drawn:

DEL

Project No: 75

Date: 28/02/ 84



LEGEND



PERIDOT I TE



MAFIC INTRUSIVE



- PYRRHOTITE
- > 50 % laminated pyrite
- massive laminated pyrite



CHERT , ARGILLITE , TUFF WACKE



MAGNETITE IRON FORMATION, CHERT

KIDD CREEK MINES LTD.

Exploration Division

Timmins,ONTARIO

31 **CUNNINGHAM** CUNN I NGHAM Twp.

FOR SECTION Cu 31 - 02 ,

Cu 31 - 05

(LOOKING NORTHWEST)

SCALE: 1:2000 (vert.=horz.) Data: Mullen

Project N°: 75 Drawn: DEL

Date : 23/02 / 84

KIDD CREEK MINES LTD.

DRILL HOLE RECORD

EXPLORATION DIVISION

COORDINATES	Grid Location: Latitude 127. + 90.	N UTM: Lat	Surveyed: Lat	Mine Grid: Lat
	Departure 171. ±. 90	Dep	Dep	
			Elevation	. Elev
COLLAR ATTITUDE	Azimuth	LENGTH 250.24m CORE	SIZEBQ	
INCLINATION TESTS	Acid 1	Tests	Con	npass Tests
	Depth Dip 60.96m -73 ⁰	Depth Dip	Depth Dip	Azimuth True Azimu
	121.92m -70°			
	182.88m -68 ⁰			
	243.84m -66°			
REMARKS : Duck Pon	nd Grid			

FROM	- 10	DESCRIPTION	SAMPLE No	FROM	0T-A	SAMPLE LENGTH	 	ASS	AY5	\dashv	AVERAGES AND
0	4.57	CASING									
4.57	23.70	PERIDOTITE (Intrusive)		├-				-		-	
		- dark grey, talcose, granular in part									
		- cut by numerous green talc veinlets									
		- several sections broken, ground core									
		- devoid of sulphide, minor disseminated magnetite									
		- lower contact broken									
											<u> </u>
23.70	26.00	LAMPROPHYRE DYKE									
		- fine grained light grey, moderately carbonated		<u> </u>							
26.00	38.70	MASSIVE MAFIC INTRUSIVE									
		- initially talcose to 26.5		$oldsymbol{ol}}}}}}}}}}}}}}}}}}$							
		- possible gradational contact with peridotite		<u> </u>			<u></u>	<u> </u>			
<u> </u>		- becoming coarser downhole near 28, moderately carbonated		_							
		- tiny scattered leucoxenes throughout up to lmm								_	
		- decrease in carbonate downhole		ļ						_	
		- 35.60 - 35.75 fault gouge with quartz vein at upper contact								\perp	
		- cut by minor carbonate veins		<u> </u>							
				ļ			<u> </u>				
		·									
		LOGGED BY: Dave Mullen DATE: Feb 1984 P	ROPERTY Cunning	ham :	31	}	HOLE	No. C	u-31-	PA	GE No

l

FROM - TO	DESCRIPTION	SAMPLE No.	FROM	1-TO	SAMPLE	<u> </u>	AS:	AYS		AVERAGES AND REMARKS
38.70 39.15	LAMPROPHYRE DYKE									
	- brownish grey, fine grained									
	- sharp contacts at 250 to core axis		_				ļ	ļ		
	- finely disseminated pyrite 1%		ļ			_	ļ	ļ		
			-	-			-	}—		
39.15 53.75	MASSIVE MAFIC INTRUSIVE		-	_		-	-	├		
	- greenish grey, medium grained		├—				 			
	- full of leucoxenes		}		 	}		<u> </u>	<u> </u>	<u> </u>
	39.25 - 40.20 quartz-carbonate vein runing subparallel to core axis						<u> </u>			
	with minor hematite along edges		<u> </u>							
	- some inclusions of wall rock in vein									
			_					<u> </u>		
53.75 54.12	LAMPROPHYRE DYKE		<u> </u>			_				
	- medium grey, fine grained		<u> </u>			<u> </u>		<u> </u>		
	- irregular upper contact at approximately 40° to core axis					<u> </u>		<u> </u>		
	- broken lower contact		<u> </u>	 	ļ	ļ	<u> </u>			
			ļ			<u> </u>	_	<u> </u>		
54.12 64.43	MASSIVE MAFIC INTRUSIVE		 			<u> </u>	ļ	_		
	- as before		_	<u> </u>	ļ			<u> </u>		
	- 56.6 - 56.8 carbonate patch									
	- finer grained from 62 m		_							
	- vague lower contact with inclusions of cherty material		<u> </u>	<u> </u>		L				
	LOGGED BY: Dave Mullen DATE: Feb 1984 PRO	PERTY _Cunnin	gham	31	I	HOLE	No.	Cu-31	-5 P/	NGE Na3

FROM - TO	DESCRIPTION	SAMPLE	EDO	4-10	SAMPLE LENGTH		ASS				ND
NOM - 10	DESCRIPTION	No.		1	LENGTH	A_	ان ا	2.		REMARKS	
	ANESS		-				-				
64.43 68.88	CHERT						├		-		
	- dark grey massive with a few lighter grey bands at 70° to core axis		-		 		-				
50 00 33 40	MASSIVE MAFIC INTRUSIVE		-				ļ		_	·	
68.88 71.40			├			-	├				
	- dark grey medium grained, broken upper contact		↓				ļ	ļ			
	- lower contact at 50°						<u> </u>				
			<u> </u>		[
71.40 89.00	CHERT, ARGILLITE		_								
	- dark green chloritic chert, grey chert interbedded						<u> </u>				
	with argillaceous material								_		
	- some brecciation										
	- cut by a few pyrrhotite stringers, minor pyrite	ARCCECI	780	795	_15~_	8	64	555			
	- numerous shallow angle slips, disrupted bedding	ABCCECS	79.5	EIC	150	3	18	210			
	- most sulphide stringers associated with grey chert	ABOCECS	816	£25	15-	4	126	114			
	81.0 - 81.8, 83.3 - 83.8 5% sulphide, predominantly pyrrhotite	ARCCECY	82.5	EYC	15	4	250	495			
	- 81.48 trace chalcopyrite	ABCCECS	246	E 55	150	2	200	lus			
	84- bedding in argillite at 60 ⁰	ABCCECL	855	ETC	15.	7	102	670			
	86.0 - 87.5, 88.0 - 88.6 grey granular tuffwacke	ABCC SCT	87C	2 8.5	1500	3	24	14Cc			
	86.63 specks of sphalerite	ABCCPCE	68.5	90.0	1.5	2	42	الها			
		ARCCEC9	9cc	915	1.500	٤					
	LOGGED BY: Dave Mullen DATE: Feb 1984 PROP	ERTY Cunning	ham	·		IOLE	No. C	u-31	-5 p	AGE No. 4	

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FROM - TO	DESCRIPTION	SAMPLE	FROM-TO		SAMPLE		A5:	AYS	AVERAGES AND
FKOM - 10	DESCRIPTION	No.	rkor	1-10	LENGTH	HU	5.	3.	REMARKS
89.00111.56	CHERT, ARGILLITE MAGNETITE IRON FORMATION	DACCER	ئىد	27:	15	3	126	30-	
	- first appearance of magnetite bands	ARCEEL	936	945		:,5	عتبا	134	
	- banding at 50 ⁰ to core axis	4,300,61	245	116 C	15-	10_	115	1:36	
· _	91.7 - 92.3 - brecciated chert with chloritic matrix	EISCOAR	766	975	-1.30	4	118	35	
	- lapilli sized clasts, pyrrhotite clasts with trace chalcopyrite	425251T	915	910	1.5~	i2_	ا عد	1:25	
	- unit is quite chloritic	AB CC 315	996	1005	15	<u></u>	140	375	
	- 93.24, 93.47 thin pyrrhotite seams with chalcopyrite	AACERIL	اندن	ندعا	-1:5	7	نانا	139	
	100 - banding at 70 ⁰	NACCE 17	107.6	1225	1.50	٤	25	310	
	103.4 - 105.1 30% pyrite with grey chert	RBCCF13	1035	icsc	150	4	150	262	
	106.0 - 106.1 75% sulphide(py:po 50:50)	ARCCEIT	1050	1065	_i 5	15	360	1225	
	106.6 - 108.2 30% pyrrhotite, minor pyrite	۵۸۹۵۶۹۵	ائنة	ICEL	1.5-	11_	410	2275	
	- minor folding at 110.5	ARCCE?	ادور	1075	1.5	27	Sec	243	
	- 15% pyrite over 50 cm at contact	AKC653	1015	1116	<u></u>	10	140	115	
111.56 117.48	MAFIC INTRUSIVE (flow?)								
	- medium grey green, leucoxene rich								
	- weakly foliated at 40°								
	- fine grained at upper contact								
	- possible tiny amyodules at lower contact								
	- NB. this unit is probably correlative to the								
	mafic "volcanic" described in hole CU-31-2, it								
	is most likely a sill								
	LOGGED BY: Dave Mullen DATE: Feb 1984 PR	OPERTY Cunning	ham	31	h	OLE	No.	u-31	-5 PAGE No5

FROM - TO	DESCRIPTION	SAMPLE	EPO	A-10	SAMPLE LENGTH			AY5		AVER	REMA	Al	ND
PROM - 10	DESCRIPTION	No.	- C	1	LENGTH	A.	CU	12	Aq		REMA	RKS	
117.48 125.23	3 CHERT, MAGNETITE IRON FORMATION	- FOCCECT	1113	ن کون	15-	3	144	101	 	Sc	N.	PP E	15
	- grey to green chloritic chert intermixed with magnetite	8806224	1150	1365	15m	7	90	345		ļ			
	- with stringers of pyrrhotite, pyrite	ABCEE25	1225	1226		8	116_	405					
	- 117.6 - 117.9 clots of pyrite	ABGSSCL	m	عددنا	155	ш	126	196					
	- banding at 80 ⁰ to core axis	ABCCERT	123.5	1252	170	7	144	97					
	some magnetite bands up to 10 cm									 			
105 00 121 1	O MAFIC INTRUSIVE		-				-	_	-				
125.28 131.60	- as above, medium grey green, weakly foliated								-				
	- fine grained near contacts, with scattered leucoxenes												
	- 127,5 - 127,7 fault gouge		_					_	_	<u> </u>			
131.60 150.9	O PYRITIC ARGILLITE, CHERT								-			_,,,_	
	- well laminated argillite, with pyritic argillite, and	ARCCECE	134	1335	190	9	200	82					
	minor chert	ABCICII	133.5	1346	انس	29	1250	4766	37	اكري	21.0	ኅረ 1	15
	- laminated at 60° to core axis	AB CICIC	1346	1341	15m	33	عنعا	2725	37	98	166	96 1	10.
	- 133.7 - 136.9 80% laminated pyrite-two types:	ABCICIS	1361	1876	l-Sm	27	euc	1525	32	110	130	96 1	00
	a very fine laminated pyrite (50%) and coarser	ABOICIY	1376	1341	15m		ļ	ł	1	1		118 1	
	1-2 mm clots pyrite (recrystallized?) (50%)	ABCICIS	Г			ŀ	1	l .				112 2	
	- trace chalcopyrite, sphalerite								<u> </u>				
	- 137.5 - 141 numerous small scale folds with axes from					<u> </u>				 			
	60° to 90° to core axis	Cuenina	ham.				<u> </u>	<u> </u>		<u> </u>		 -	
	LOGGED BY: Dave Mullen DATE: Feb 1984 P	ROPERTY Cunning	i i d sii	31	}	4OLE	No. £	u-31	-2 P/	AGE N	۰	6	i

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	DECEMBER OF THE PROPERTY OF TH	SAMPLE	50011 70		SAMPLE			AY5		AVER	AGES	AN
ROM - 10	DESCRIPTION	No.	FKO	x-10	SAMPLE LENGTH	F.	ĬÇ,	7.	130	L _	REMAR	KS
	- numerous slips cutting folds									22	Nº P	b. A:
	- 140.34 thin seam chalcopyrite	mar a the	146 6	1531	1.500	19	4:0	1625	35	LE	52 5	<u> </u>
	142.5 - 145.0 grey chert cut by 15% pyrrhotite	ABCE 17	1421	1436	1.5m	iù	516	1630	26	64	ځت	0 9
	stringers, minor pyrite, trace chalcopyrite	arcisii.	1436	1451	1222	19	430	655	1:	68	144 7	
	145 - 150.9 weakly graphitic pyritic argillite	ABCISIA	1451	1466	15.5	40	1950	3774	51	360	138	16 30
	- 60% pyrite with minor pyrrhotite, trace chalcopyrite	ABSIS 16	1466	1451	.15m	55	اعدد	2125	151	212	12:	52 05
	throughout section	AB CICZI	1नहा	1476	1:50	115	930	2675	56	152	ينتا	<u> </u>
	- pyrite occurs as fine laminations of 100% sulphide	ABOIC 22	1416	1511	150	41	73c	25%	33	icz	86	70 K
	over widths of 1 cm to 40 cm	ABSIC23	1511	1236	15.5	5	240	2630	16	44	40	26 3
	- minor folding and faulting 150 - 151	ABCIC24	1526	1411	1:500	1	1	1	١	1	38	
		ABCIC25	1271	156.C	1.90	1	ĺ		1	1	192	
50.90 156.0	7 CHERT, MAGNETITE IRON FORMATION											
	- intermixed grey and green chloritic chert with magnetite			<u> </u>								
	- cut by occasional stringers of pyrrhotite											
	- some quartz veining, brecciated near 156							_	<u> </u>	<u> </u>		
			<u> </u>			Ì						
56.07 156.9	2 FOLIATED MAFIC INTRUSION							Ĺ.				
	- grey, foliated at 45° to core axis											
	- tiny scattered leucoxenes, moderately carbonated											
	- dark spots at upper contact				•							
L	LOGGED BY: Dave Mullen DATE: Feb 1984	PROPERTY Cunning	gham	31		OLF	No.	Cu-31	-5 p	AGE N	7	

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		SAMPLE	FROM		SAMPLE	Γ	ASS	AYS		AVERAGES AND
FROM - TO	DESCRIPTION	No	FROM	A-10	SAMPLE LENGTH	A.	C	2,,		REMARKS
156.92157.60	BRECCIATED CHERT	<u> </u>	1			<u> </u>				
	- grey chert clasts cut by pyrrhotite stringers, trace pyrite	ABecs 11	المرا	5.)	33	500	11si		SEMBLARA TAKE
			بخذا	157	3 ilm					ONE SAMPLE
157.60158.04	FOLIATED MAFIC INTRUSIVE			<u> </u>						
	- as above									
158.04158.36	BRECCIATED CHERT									
	- as above, some arqillite	ļ	-					_		
158.36162.00	FOLIATED MAFIC INTRUSIVE	 	 					-	-	
	- grey, granular, strongly carbonated									
	- leucoxenes scattered throughout								_	
	- foliated at 60° to core axis	 	-	-		_				
162.00169.30	CHERT, MAGNETITE IRON FORMATION	ABCCZAC	ع دیار	1635	1 5m	2	42	141	-	
	- interbedded grey to green chloritic chert and magnetite	RBCC ESI	1	ı		14		136		
	- contorted banding, some cherts are speckled	ABCCE30	1650	1465	15m	238	no	123		* Au checked
	- minor stringers and disseminations pyrrhotite	ABOCE3	ILES	16EC	15m	21	44	285		
		DBCCEN	11.2.0	1675	150	14	460	3550		
169.30179.16	ARGILLITE, PYRITE, CHERT						<u> </u>			
	- grey argillite with a few seams of pyrite	0855335	1695	1712	1700	27	1150	4163		
	- splashes of chalcopyrite at 169.75, 170.29, 172.60, 173.86, 174.05, 177.71	<u> </u>								
	LOGGED BY: Dave Mullen DATE: Feb 1984 PROPERT	Y_Cunning	ham 3	1	1	OLE	No _	Cu-31	-5 P/	AGE No8

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DESCRIPTION	No	FROM - TO		LENGTH	\vdash	^33	AYS		AVERAGES AN
- some brecciation of chert			Ī						
CHERT FRAGMENTAL									•
- 2% disseminated pyrrhotite, minor pyrite									
		 							
LAMPROPHYRE DYKE - dark brownish-grey, fine grained, weakly carbonated		 							
- with augite (?) phenocrysts									
CHERT FRAGMENTAL									
- as above but well foliated at 35° to core axis			<u> </u>						
- 214.0 - 214.8 possible fault zone		<u> </u>							
- some clasts are boudinaged		<u> </u>							
215-220 pyrite is dominant sulphide in section									
223.4-224.3 schistose zone with several tight									
									•
		<u> </u>							
	LAMPROPHYRE DYKE - dark brownish-grey, fine grained, weakly carbonated - with augite (?) phenocrysts CHERT FRAGMENTAL - as above but well foliated at 35° to core axis - 214.0 - 214.8 possible fault zone - some clasts are boudinaged 215-220 pyrite is dominant sulphide in section 223.4-224.3 schistose zone with several tight small scale folds, schistosity at 20° - 25° to core axis	- Some brecciation of chert - 2% disseminated to stringer pyrrhotite, trace chalcopyrite CHERT FRAGMENTAL - clasts of grey chert from 5mm to 10 cm set in a chloritic matrix - 2% disseminated pyrrhotite, minor pyrite LAMPROPHYRE DYKE - dark brownish-grey, fine grained, weakly carbonated - with augite (?) phenocrysts CHERT FRAGMENTAL - as above but well foliated at 35° to core axis - 214.0 - 214.8 possible fault zone - some clasts are boudinaged 215-220 pyrite is dominant sulphide in section 223.4-224.3 schistose zone with several tight small scale folds. schistosity at 20° - 25° to core axis	- Some brecciation of chert - 2% disseminated to stringer pyrrhotite, trace chalcopyrite CHERT FRACHENTAL - clasts of grey chert from 5mm to 10 cm set in a chloritic matrix - 2% disseminated pyrrhotite, minor pyrite LAMPROPHYRE DYKE - dark brownish-grey, fine grained, weakly carbonated - with augite (?) phenocrysts CHERT FRACHENTAL - as above but well foliated at 35° to core axis - 214.0 - 214.8 possible fault zone - some clasts are boudinaged 215-220 pyrite is dominant sulphide in section 223.4-224.3 schistose zone with several tight small scale folds. schistosity at 20° - 25° to core axis	- SOME brecciation of chert - 2% disseminated to stringer pyrrhotite, trace chalcopyrite CHERT FRAGMENTAL - clasts of grey chert from 5mm to 10 cm set in a chloritic matrix - 2% disseminated pyrrhotite, minor pyrite LAMPROPHYRE DYKE - dark brownish-grey, fine grained, weakly carbonated - with augite (?) phenocrysts CHERT FRAGMENTAL - as above but well foliated at 350 to core axis - 214.0 - 214.8 possible fault zone - some clasts are boudinaged 215-220 pyrite is dominant sulphide in section 223.4-224.3 schistose zone with several tight small scale folds. schistosity at 200 - 250 to core axis	- some brecciation of chert - 2% disseminated to stringer pyrrhotite, trace chalcopyrite CHERT FRACMENTAL - clasts of grey chert from 5mm to 10 cm set in a chloritic matrix - 2% disseminated pyrrhotite, minor pyrite LAMPROPHYRE DYKE - dark brownish-grey, fine grained, weakly carbonated - with augite (?) phenocrysts CHERT FRACMENTAL - as above but well foliated at 35° to core axis - 214.0 - 214.8 possible fault zone - some clasts are boudinaged 215-220 pyrite is dominant sulphide in section 223.4-224.3 schistose zone with several tight small scale folds, schistosity at 20° - 25° to core axis	- some brecciation of chert - 2% disseminated to stringer pyrrhotite, trace chalcopyrite CHERT FRAGMENTAL - clasts of grey chert from 5mm to 10 cm set in a chloritic matrix - 2% disseminated pyrrhotite, minor pyrite LAMPROPHYRE DYKE - dark brownish-grey, fine grained, weakly carbonated - with augite (?) phenocrysts CHERT FRAGMENTAL - as above but well foliated at 35° to core axis - 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	Description !	SAM	PLE	FROM	4 - 10	SAMPLE		A53	AYS		AVERAGES AN
FROM - TO	DESCRIPTION	N	0	PROM	1 - 10	SAMPLE LENGTH	≁ار	C	Z.,		REMARKS
	171.16 - 172.34 - 100% laminated pyrite						<u> </u>		_		
	- contorted bedding,	ABC	<u>ياد ع</u> ت	1713	17:3	lim	95	لنات	3000	_	
	- some pyrite appears coarser (recrystalized)	nec	:27	1723	17%	1.50	14	3:4	4860		
	- possible convolute laminations in argillite, bedding	ARE	६ ३३	,738	1753	<u>1:5</u> -	7	22:	2/25		
	roughly parallels core axis	ARC	239	1753	1762	_U5m	2	4%	9:5		
	- scattered pyrite cubes to 2 mm in argillite	nac	CEYC	1768	1783	1:5m	12	280	186		
	174.1 - 174.7 broken core	nec	<u> </u>	1783	1795	150	2	510	179		
179.16190.02	CHERT FRAGMENTAL										
	- lapilli sized clasts of rounded chert, minor pyrrhotite								<u> </u>	<u> </u>	
	and possibly tuffwacke set in a moderately chloritic							ļ		<u> </u>	·
	foliated matrix										
	- clasts range from 5 mm to 10 cm						<u> </u>				
	- a few chert clasts are laminated									Ĺ	
	- unit cut by pyrrhotite, trace chalcopyrite						-		_	_	
190.02210.60	MAGNETITE IRON FORMATION, CHERT										
	- intermixed light to dark grey speckled chert and magnetite					1					
	- moderate chlorite alteration						<u> </u>				
	bedding varies from 50° to subparallel to core axis										
	especially section 200-208									-	
	LOGGED BY: Dave Mullen DATE: Feb 1984	PROPERTYC	ınnir	ngham	31		1OLE	No. <u>.</u>	u-31	-5 P	 AGE No9

1 .

FROM - TO	DESCRIPTION	SAMPLE	FROM -TO		SAMPLE			AY5		AVERAGES AND
FROM = 10	DESCRIPTION	No_	1100	7-10	LENGTH	A.	<u> </u>	32		REMARKS
227.20238.94	CHLORITIC ARGILLITE, CHERT			<u> </u>						
	- predominantly greenish-grey chloritic argillite with								ļ	1
	minor pyrite seams intermixed with occasional		<u> </u>						· .	
	grey chert bed, trace chalcopyrite									•
	- some chert beds weakly carbonated						<u> </u>			
	- a few granular looking zones, possibly very altered tuffwacke									
238.9 250.24	MAGNETITE IRON FORMATION. CHERY									
	- interbedded magnetite, grey chert and chloritic chert								 	
	- a few pyrite seams (5%)	ABCC&42	2455	2476	15-	5	SIC	1575		
	- bedding at 55° to core axis	APCCS:13					410	1		
	247 - 247.5 20% stringer pyrrhotite, trace	DECKEYY	345	2495	15m	7	118	54		
	chalcopyrite in " siliceous " chert	ABCC545	3495) રહે 2	C 7.m	27	310	385		
	249.7 - 250.1 25% Stringer pyrite pyrrhotite, trace chalcopyrite							-		
250.24	END OF HOLE									

										·
i	LOGGED BY: Dave Mullen DATE: Feb 1984 PRO	PERTY Cunning	am 3	L		OLE	No. C	u-31	5 P/	GE No11





tructions - Supply required late on a separate form for each

41010NE0042 34 CUNNINGHAM		104	For Geo-technical work use form no. 1362 "Report of Work (Geological, Geophysical, Geochemical and Expenditures)".
Address of Hecorusu 110.00	900	<u> </u>	Prospector's Licence-
EEK MINES LTD.			T-1

Name and Pastal Address of Heco	IUDU IIUIUL			900			Prospector'	s Licence	
KIDD CREEK MINES L	TD.						Т-		
			***************************************				L.,	-	
571 MONETA AVENUE,				ONTAR	110				
Summary of Work Performand			its						
Total Work Days Cr. claimed	M Prefix	ining Claim Number	Work Days Cr.		lining Claim Number	Work Days Cr.		ning Claim	Work
380 days	l				Number	Days Ci.	Prefix	Number	Days Cr.
for Performance of the following work, (Check one only)	Р	See attack	ned sch	edule					
Manual Work			<u> </u>						
Shaft Sinking Drifting or other Lateral Work.					ARIO GEOLOGICAL	SURVE			
Compressed Air, other				74 To 1 To 1 To 1 To 1	SSESSMENT F IESFARGH CEI	E. a	1200		
Power driven or mechanical equip.	1					ICE	44		
Power Stripping				e Lack	APR 1 7 198	1			
Diamond or other Core	"		 		- 1 100		 -		
drilling Land Survey				F	ECEIVE	<u> </u>	1. 1. 1. L	- M	
						<u> </u>	*****		
All the work was performed on N	lining Claim	(s):					•		
Required Information eg: typ	e of equip	oment, Names, A	ddresses,	etc. (See	Table Below)				
C C T a a	laim P- laim P- otal le re 821	-642137 had -642136 had ength was 82 days, altho time, leavi	115 fe 46 fe 21 feet ough on	et for et for (250. ly 380	115 days	al cre	edits aime B ece	MAR 🕖	1984
POR DESCRIPTION OF THE PROPERTY OF THE PROPERT	ighway ig over	101 West, 7	immins d Febru S' (BO)	, Onta lary 14	d. rio using a to February	18, 1	.984. C	ore	11
7,8,9,50,51,52	111111111	1			Peb. 29/84		Recorded H	Holder or Agent	(Signature)
Certification Verifying Report	of Work						·		
I hereby certify that I have a por witnessed same during and/o						ork annex	ed hereto, h	aving performed	the work
Name and Postal Address of Perso	-	-		,,		'-: - !	·		
DAVE MULLEN , 571	MONETA	AVENUE, P.C). BOX	1140			120 000 00	(6)	
TIMMINS Ontario			•		Date Certified Fob 20/8/1		Certified	y (Signature)	フ

Type of Work	chments Required by the Mining Recorder Specific Information per type	Other information (Common to 2 or more types)	Attachments		
Manual Work	openie internation per type		- Francisco		
Shaft Sinking, Drifting or other Lateral Work	Nii	Names and addresses of men who performed manual work/operated equipment, together with dates and hours of employment.	Work Sketch: these are required to show the location and extent of work in relation to the		
Compressed air, other power criven or mechanical equip.	Type of equipment	With actor and noch of compleyment			
Type of equipment and amount expended, Note: Proof of actual cost must be submitted within 30 days of recording.		Names and addresses of owner or operator together with dates when drilling/stripping	nearest claim post.		
Diamond or other core crilling	Signed core log showing; footage, diameter of core, number and angles of holes.	done.	Work Sketch (as above) in duplicate		
Land Survey	Name and address of Ontario land surveyer.	Nil	Nii		

SCHEDULE OF MINING CLAIMS DISTRIBUTION OF WORK CREDITS FROM 1984 DRILLING (CU-31-5)

MINING CLAIM	TOWNSHIP	WORK DAY CREDITS
P-642065	Cunningham	20
P-642072 P-642073 P-642074 P-642075 P-642076	Cunningham Cunningham Cunningham Cunningham Cunningham	40 40 40 40 40 40
P-642134 P-642135 P-642136 P-642137 P-642138 P-642139 P-642140	Cunningham Cunningham Cunningham Cunningham Cunningham Cunningham Cunningham	20 20 20 20 20 20 20



Ministry of Natural Resources Report of Work

121/85

Instructions

- Supply required data on a separate form for each type of work to be recorded (see table below).
- For Geo-technical work use form no. 1362 "Report of Work (Geological, Geophysical, Geochemical and Expenditures!"

Name and Postal Access of Recorded Holder Prospector's Licence No.		The Wilning Act	Experior tares,	
	lame and Postal Accress of Recorded Holder		Prospector's Licence No.	
Robert A. MacGregor x-15070	Robert A. MacGregor		X-15070	

otal Work Days Cr. claimed	Mining Claim		Work Mining Claim		Work	Mining Claim		Work	
1780	Prefix	Number	Days Cr.	Prefix	Number	Days Cr.	Prefix	Number	Days C
or Performance of the following	P	642065	60	P	642073	140	P	642133	60
Manual Work		642066	60		642074	140		642134	60
Shaft Sinking Drifting or	XXX	662067	60		642075	140		642135	60
other Lateral Work. Compressed Air, other		662068	60		642076	140		642136	60
Power driven or mechanical equip.		662069	60					642137	60
Power Stripping		662070	60	143				642138	60
Diamond or other Core		662071	60					642139	60
Land Survey		662072	140					642140	60

Required Information eg: type of equipment, Names, Addresses, etc. (See Table Below)

Hole Cu 31 - 7 425 ...

Cu 31 - 6 534'

Cu 31 - 5 821' V

Drilled by: Bradley Timmins, Ont.

February 14/84 - Feb. 24/84

Core B.Q.

268 (81/3)

PORCUPINE MINING DIVISION

REGET VE

APR 02 19851

APR 02 19851

P.M.

7 (8) 9 170 111 12 1 1 2 3 4 5 6

APR 2,1985

Days applied this report 1600

Remaining to be applied

later 180 days

APR 25 1985

Date of Report
March 29/85

Recorded Holder or Agent (Signature)

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying

R.A. MacGregor, 134 Palace Dr., Sault Ste. Marie, Ontario P6B 5H5

Date Certified 29/85

Certified by Signature)

able of Information/Attachments Required by the Mining Recorder Type of Work Specific information per type Other Information (Common to 2 or more types) Attachments Manual Work NII Shaft Sinking, Drifting or Names and addresses of men who performed Work Sketch: these are required to show other Lateral Work manual work/operated aguipment, together with dates and hours of employment, the location and Compressed air, other power Type of equipment extent of work in driven or mechanical equip. relation to the nearest claim post. Type of equipment and amount expended. **Power Stripping** Note: Proof of actual cost must be submitted Names and addresses of owner or operator within 30 days of recording. together with dates when drilling/stripping dons. Work Sketch (as Diamond or other core Signed core log showing; footage, diameter of sbove) in duplicate core, number and angles of holes. drittina Land Survey Name and address of Ontario land surveyer. Nil Nil