

TOWNSHIP: MCELROY

REPORT No.: 32

WORK PERFORMED BY: FALCONBRIDGE COPPER

CLAIM No.	HOLE No.	FOOTAGE	DATE	NOTE
L 522815	SN-1	688.0	Sept./81	(1)
L 522814	sn-2	393.0	Sept./81	(1)
L 522814	SN-3	409.0	Sept./81	(1)
L 522821-2	SN-4	566.0	Oct./81	(1)
L 522818	SN-5	292.0	Oct./81	(1)
L 522818	sn-6	606.0	Oct./81	(1)
L 512350	SN-7	396.0	Oct./81	(1)
L 512350	SN-8	456.0	Nov./81	(1)

Notes: (1) #204-82



DRILL HOLE RECORD

HOLE NUMBER	LA	Main Gr L 68 + 2		DEP. 26 + 25 NI	E	ELEV. Uns	urveyed	COLLAR BRNG. 03	0 True	DIP -60°	HOLE SIZE AQ	DEPTH 688'
PROJECT PN Superior N				, McElroy Town- ng Division.	_{PURPOSE} Tes 400' benea	t Zinc ri	ch exhalitė •	DATE STARTEDSE DATE COMPLETED:	pt.14,1981 Sept.19,1	CONTRACTOR: MCK	night Drilling y Hill CASING	Intact
ACID TESTS	300 -	64 ⁰ ; 500'	-62 ⁰ ; 60	0' -60 ⁰ ;		•				TROPARI 500 - 100 TESTS 680 025	, true -59 ⁰	PULSE EM SURVEY MULTISHOT SURVEY
FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRU	CTURE	ANGLE TO CORE AXIS	ALTERA	TION		SULPHIDES	1	REMARKS
0.0 -	Casing	sand										
1	Mafic Intrusive (Gabbro)	Green to Black	to 17 Medium sa ev Qu ve	Massive through.0 - Chilled corme unit (multiplents) artz-carbonate-lined sections at 32.0 - 33.0 36.8 - 37.5 45.3 - 45.4 51.1 - 51.2 52.3 - 52.5 56.0 - 56.5	ntact with le intrusive (-spar	30° 10° 60° 70° 80° 80° 70°	Minor epidot ation along quartz veine	fractures an		to trace pyrite occasionally.		
	,		to se at Ove	3.0 - 140.0 - Gr aphanitic - v.f ction with a wea 40 ⁰ erall 2% qtzca coughout.	f. grained ak fabric	40 ⁰	-					·

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FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
-				221.4 - 222.7 - f.g. basalt			Trace py possibly in pillow	
				xenolith gabbro chilled for			interstice.	
				a few inches marginal to xend	lith			
				Contact chilled for 1 Ft.	45 ⁰			
255.6 -	Massive	Medium	Fine to	Massive non descript with		Very weak pervasive	Trace disseminated pyrite	
296 1	Basalt	Green	Aphanit	ic vague hint of pillow		carbonate, alteration.		
250.1		Overall		selvedge-like zones (polygona	1	Strong zone of pervasive		
			t I	jointed flow ???)		carbonate alteration.		
						280.0 - 284.6		
				256.3 - 257.3 - Mafic dyke	30 ⁰ /45 ⁰			
				(f.g. gabbroic)				
				261.0 - 264.0 - Feldspar	45 ⁰ /60 ⁰			
				porphyry dyke, hard, siliceou	s			
				dark grey groundmass, white				
				feldspars 30% (3 - 4 mm)	,			
				284.6 - 292.0 - Feldspar	45 ⁰ /45 ⁰			
				porphyry dyke same as above				
				but strongly carbonated and				
				2% -3% orange stained feldspa	r			
				phenocrysts.				
296.1 -	Debris Flow	Light	Tuffs	Screens of bedded tuff, mafic	45 ⁰	Basalt dark green and	Only trace pyrite as dissem	
330.5	Unit- Inter-	Green to	f.g. to	and cherty felsic component,	Bedding	weakly chloritic.	inations throughout.	
	bedded tuffs	Dark	cherty,	(overall intermediate composi-		1% -2% carbonate veinlet		
	and basaltic	Green	Basalt	tion) between massive or poly-		throughout.		
	flow materia			ts gonally jointed basalt flow				
		light gre bands	y aphan itic	and debris.			,	
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FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
330.5 -	Mafic Intru-	ic) and	n Fine	1 000.0 000.0 ncaram	45 ⁰ 45 ⁰ 45 ⁰ 45 ⁰	Very mild, pervasive carbonate	None to trace disseminated pyrite.	
	with strongl carbonated section.	Speckled		339.0 - 367.0 - Fine to aph- anitic,bleached look 367.0 - sharp contact with medium grained gabbro agai	Sharp 20 ⁰ n.	339.0 - 367.0 - Bleached, strongly pervasive carbon 367.0 - 377.0 - lacks strong carbonate agai		
377.0 - 449.6	line +	to Grey	to	377.0 - 379.4 - Massive Basal 379.4 - 383.9 - Gabbroic Dyke 383.9 - 400.5 - Massive Basal 398.0 - 399.0 - Fault Zone and gouge (chloritic)		·		

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FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
				400.5 - 403.0 - Bedded inter-	45 ⁰	Weakly chloritic		
				mediate tuff (cherty beds 10%)				
				403.0 - 418.0 - Chloritized,	45 ⁰	Strongly chloritized	5% pyrite disseminations a	nd
				weakly pyritic tuffs.			as wisps or beds.	
				418.0 - 442.0 - Grey feldspar	45 ⁰ /45 ⁰	Pink altered section	Trace pyrite.	
				porphyry dyke (ragged upper		421.0 - 422.0		
				and lower contacts.				
				442.0 449.6 - Chloritized			Trace to 2% disseminated	
				weakly pyritic intermediate	45 ⁰ -		pyrite.	
				bedded tuffs.	4			
449.6 -	Mafic	Dark Gree	n Aphan	- Massive	45 ⁰ /20 ⁰	Minor epidote, quartz	Trace disseminated pyrite.	
490.2	Intrusive	and white	-itic	Contacts chilled for up to	·	and pink feldspar alter-		
430.2	(Gabbroic)	speckled	Chill	12"		ation in zones around		
		<u> </u>	and fin	e .		fractures as typical in		
			centre.		Fabrui a	gabbro.		
490.2 -	Chloritic	Dark and	Aphanit	ic Screens of weakly bedded	Fabric at 45	Moderate chlorite (dark	Overall 2%-3% disseminated	
503.8	Debris Flow	light	Basalts	chloritic mafic tuff (occasi	onally,	green)	pyrite. Pyritic rich section	ns
000.0	Unit	Green	Ash to	with lapilli sized felsic		Verytweak pervasive	489 - 489.6	
		Streaks	Lapilli	fragments) midst massive	·	carbonate alteration.	15% pyrite as streaks and w	i <u>sps</u> .
			Tuffs	basalt.				I. ————————————————————————————————————
503.8 -	Bedded	Brassy	Fine	Bedded sulphides, magnetite		Chloritic <u>g</u> angue materia	503.8 - 504.4* -Bedded	1
504.4	Pyritic	Yellow to		and dark green chlorite	60 ⁰	about 40%	pyrite (50%) chlorite-carb-	
	Horizon	Dark Gree	n			Carbonate material as veining 10%.	onate and magnetite No base metal sulphides observed.	

HOLE NO. SN-1

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FROM	ROCK		GRAIN	TEXT. 105	ANGLE TO		OLA BUILDE	25112
ТО	TYPE	COLOUR	SIZE	TEXTURE AND STRUCTURE	CORE AXIS	ALTERATION	SULPHIDES	REMARKS
504.4 -	Differentiat	ed	Fine	504.4 - to about 566, fine		Intense pervasive carbona	ce 2% -3% disseminated	
688.0°	Mafic to	Dark Gree	n	grained massive mafic similar		alteration in talc-chlorit	e pyrite.	
	Peridotitic	i	+	to above ones.		altered ultramafic portion	1	
	Intrusive	Black		566.0 - down section increasi		2% - 3% free carbonate		-
				ultramafic with strong chlori		veinlets throughout.		•
				fabric.	30° -45°			
				577.0 - 593.6 - pink feldspar			1% -2% disseminated pyrite	
				porphyritic dyke - siliceous				
			İ	l I	30 ⁰ /40 ⁰			
					50°/30°		1% - 2% disseminated pyrite	;
				644 to 675.0 - Red feldspar	200/450			
	-			porphyritic dykes -siliceous				
600.0	THE OF HOLE		`					
688.0	END OF HOLE							
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					-			
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☐ METRIC UNITS

☐ IMPERIAL UNITS

DRILL HOLE RECORD

						DRILL HOLE RECO						
HOLE NUMBER	LAT	L 6/ +	00 SE		ELEV Unsurv	eyed	COLLAR BRNG. 235 ⁰		COLLAR -60°	HOLE AQ		AL 393'
PROJECT F	OR NW MCE	CATION Claim Carroy Towns	m L 5228 ship,Lar	14 and L 522815 der Lake Mining Div. 200 Ft.	Zinc rick West of S	h exhalite N-l	DATE STARTED: DATE COMPLETEDS	Sept.21,198 Sept.23,198	CONTRACTOR: MCKI CORE STORAGE: MO	night Drillin ly Hill _{Cas}	g Co. _{NG:} Inta	Ltd.,
ACID TESTS		60 ⁰							ropari Ests None			PULSE EM SURVEY D MULTISHOT SURVEY D
FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERA	TION	SU	ILPHIDES		REMAR	RKS
0.0 - 15.0	Casing											
15.0 -	Gabbro	Dark	Fine to	Massive		5% epidote,	epidote qtz.	Trace pyri	ité as euhedral			
94.0		Green	Medium	Grain size variation locally	/	streaking, 1	% pink-orange	lmm size cu	ubes.			
37.0		with whi		throughout section.		hematite sta	ined quartz					
		and ligh				- k spar ?.	Veinlets	·				
		Green Patches				some times a	ssociated					
		lacenes				with epidote	streaks.					
				,		Weak pervasi	ve carbonate					
94.0 -	Carbonated		Fine	Porphyritic in amphiboles	Contacts	Strong perva	sive carbonat	e No	one			
	Lamprophyr	12 (3) (4)	Ground- mass	and epidote after amphibole?	obscure	Intense zone	of 30% carb-					
105.0	Dyke	with Blac	k 2-3mm			onate 94.0'	- 94.71					
		phenocrys	ts ^{pheno} crysts									
105.0 -	Peridotite	}		Massive		Strong chlor	ite, talc	Trace disse	eminated pyrite			
114.7	Intrusive	-Grey				carbonate al	teration.					
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HOLE NO. _____SN-2

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FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
114.7 -	Red Feldspar	Intense	Fine	Massive - porphyritic in	Upper		2%-3% disseminated pyrite	
135.7	Porphyritic Syenite	Brick Red	Groundm 2-3 mm	ass feldspar 10% - 20% and amphibole needles 2-3%	Contact 45 ⁰		throughout	
	Dyke		pheno- crysts	Towards lower contact dyke becomes grey in colour 125.7 - 127.3 - section of peridotite as above.	Lower Contact 45			
135.7 - 144.3	Gabbro as a	t start o	f hole			Moderate pervasive carbonate alteration.		
220.0	Polygonally Jointed Incipient Pillowed Basalt	1	Fine to Aphanit	Massive with evidence of ic pyritic interpillow screen like structures and irregul seams (joints) with 1 cm bleached halos.	ar	lets.	Overall 1% pyrite. Occurs as concentrations up to 3% - 5% in inter-pillow materiand in joints.	
220.0 -	Bedded Chloritic Felsic Lapi- lli tuff (Debris Flow Unit)	Green		Felsic (rhyolitic) fragments up to 4 cm in a chloritic matrix, frags. 60%, matrix 40 Fabric - bedding like texture	_	Matrix appears to be entirely chlorite (blue-green fibrous-platy mineral - perhaps antho-phylite	None	
233.0 - 256.3	Gabbro	As abov	e					
HOLE NO	SN-2			·		-		PAGE

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FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
256.3 - 259.3	Chloritic Felsic-Lapil Tuff	li As	above					
259.3 - 307.5	Gabbro		Fine	As above			·	
307.5 <i>-</i> 330.5	Porphyritic Syenite Dyke	Pink with White to	crysts up to	30% - 40% feldspar crystals 5% amphibole needles 1-3mm		Weak pervasive carbonate	1%-2% disseminated pyrite	
330.5 - 351.0	Carbonated Lamprophyre Dyke	Black to Purple	Groundma Aphanit Phenocr I-5 mm	c. blende and biotite	Irregular Contacts	Intense pervasive carbon	ate	
351.0 - 361.6	Massive (Possibly Polygonally jointed) Basalt	Green	Fine to Aphanit	Massive - sheared section 351 - 354 - marginal to ic dyke	45 ⁰	351 - 354 - strong pervas carbonate marginal to lamprophyre dyke. Elsewhere weakly carbonat and minors epidote and	,	
393.0	Pink-Grey Feldspar Porphyritic Syenite Dyke	1	e			chlorite along slips.	·	
393.0	SN-2				<u> </u>			PAGE3

METRIC UNITS XIX IMPERIAL UNITS

DRILL HOLE RECORD

Main Grid COLLAR COLLAR HOLE HOLE NUMBER -60° 409 235⁰ True SIZE ELEV. Unsurveyed DEPTH LAT. L 65 + 00 SE DEP. 31 + 25 NE BRNG. SN-3 PURPOSE Test Zinc rich exhalite DATE STARTED: Sept.25,1981 McKnight Drilling Co. Ltd. PROJECT PN 037 LOCATION CLAIM L 522814 - McElroy CONTRACTOR: DATE COMPLETED: Sept. 27,1981 CORE STORAGE: MOTV Hill CASING: Intact Township - Larder Lake Mining Div. 200 Ft. west of SN-2 SUPERIOR NW TROPARI PULSE EM SURVEY D 409' - 51⁰ None ACID TESTS TESTS MULTISHOT SURVEY D ANGLE TO ROCK GRAIN FROM COLOUR TEXTURE AND STRUCTURE REMARKS ALTERATION SULPHIDES TYPE SIZE CORE AXIS Casing (Ledge at 11 FTL) 0.0 -13.0 Weak pervasive epidote Trace pyrite to none 13. 0 -Massive - Subtle character Mafic Dark Medium Intrusive Green and change from medium grained replacing feldspars. 95.0 2% - 3% carbonate hematite Gabbroic) White speckled to finer grained Fine Speckled light green appearance. stained silica veinlets. Possible partially digested mafic volcanic xenolith 22.0 - 25.081.0 - 82.0 - weak shear fabric 45° 88.0 - 95.0 - very coarse grained gabbro 95.0 -Massive Weak talc chlorite devel-Trace pyrite Peridotite Blue -Fine (Intrusive) Green 113.0 - 122.5 - red syenitic opment. Moderate pervasive 131.3 dyke feldspar porphyritic as carbonate. below Feldspar Red to Medium Massive - Feldspar phenocrystsUpper 😽 Weak carbonate alteration 1%-2% disseminated pyrite 131.3 -Contact Lower 45 Minor chlorite along Porphyritic Orange | to up to 2 mm (20%) 139.8 Contaminated hybrid contacts Syeni te Fine slip planes Contact Dyke

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FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
139.8 -	Felsic to	Light gre	y Ash	Overall about 20% fine beds	45 ⁰	Weak pervasive epidote,	Trace pyrite to none	
164.5	Intermediate	green to	to	and laminations and rest		no carbonate	!	•
	Bedded Tuffs	white	Lapilli	coarser weakly weakened			1	
	and Lapilli	bands		lapilli tuffs.				
	Tuffs (Debri	s		Very chaotic mixture.			·	
	Flow Unit)			Laminated sections generally				
				at 45° to core axis however				
				local primary disruption 🛷				
				parallel to core axis.		·		
				151.8 - 161.0 - Mafic dyke				;
				(gabbroic)				•
164.5 -	Massive	Dark	Fine	Massive - featureless materia	1	Weak pervasive epidote	None	
201.3	Mafic	Green	!	yet resembles main intrusive		in sections. Light brown		
	Intrusive ?					staining locally - iron	·	
						carbonate ??		
201.3 -	Polygonally	Dark	Fine to	Polygonally jointed ? -		Weakly chloritic, 1% -		
225.0	Jointed - Mafic Flows	Green	Aphanit	c Pillowed ? flow or flows		hematite stained silica		
	with Mafic			with screens of mafic to		veinlets.		
	Lapilli Tuff Screens			ultramafic lapilli tuff				
				201.3 - 205.8 - bedded ultra	- 45 ⁰	•	None	,
] 	mafic tuff -lapilli tuff				
	·		 	205.8 - 220.5 - jointed or	,		Trace pyrite and light brow	n
				pillowed massive flow.			stain in selvedges (sphaler	ite ?)
				220.5 - 221.0 - ultramafic d				
				221.0 - 222.3 - gabbroic dyk	e 60 ⁰ /45 ⁰		·	
				222.3 - 225.0 - ultramafic debris.				

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FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
225.0 - 248.0	Mafic Intrusive (Gabbro)	Medium Green	Fine	Massive 236.0 - 238.0 - Very ultramaf fine grained to aphanitic mag section . 236.0 - 236.1 - syenite dyke 239.0 - 240.0 - 1" carbonate -specular hematite veinlet sub-parallel to core axis. (5% hematite as a rim to veir	netic	Light pink staining throughout (hematite)	None	
	Feldspar Porphyritic Syenite Dyke	Light Orange	Medium to Fine Pheno- crysts.	, , , ,	c Contac Ragged	ts -	1% pyrite throughout	
294.6 - 390.6	with minor screens of	green wit mottled creamy brown s	with clastic portion	itic Clastic screens consist- ing of light coloured inter-	45 ⁰	Weak pervasive carbonate alteration. Matrix to clastic screens very chloritic. 294.6 - 300.0 - strongly carbonated marginal to syenite.	Trace pyrite to none	
409.0	Mafic Intrusive (Gabbro) END OF HOLE	{	Fine to Medium	Massive - Coarsens down hole		Weakly chloritic	Trace pyrite	

HOLE NO. SN-3

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DRILL HOLE RECORD

☐ METRIC UNITS

METRIC UNITS

HOLE NUMBER	LAT	Main Grid L 72 + 7	d 5 SE	DEP. 5 + 75 NE	elev. Unsu	rveyed	COLLAR BRNG. 210 ⁰		COLLAR DIP -45 ⁰	HOLE SIZE AQ	FINAL DEPTH 566.0
PROJECT P Superior		CATION Cla	aim L 52 nship, L	2822,L522821 PURPOSE Te arder Lake Min.Div Horizon b	st VLF, Ma eneath sul	g and Sulphide phide showing	DATE STARTED: OC DATE COMPLETEDOC	t. 1, 198 t. 6, 198		night Drilling (y Hill casıng:	
ACID TESTS	566' -4	0 ⁰					,		TROPARI TESTS None		PULSE EM SURVEY D MULTISHOT SURVEY D
FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERA	TION	Si	SULPHIDES	RI	EMARKS
0.0 42.0	Casing										
42.0 - 406.0	Gabbro	Green and White Speckled	to	Massive - no fabric Equigranular 50.0 - 73.0 - Feldspar porpl ritic syenite dyke. 103.0 - 104.0 106.3 - 107.0 134.0 - 134.3 Fine grained mafic xenoliths or dykes.		1%-2% epidote stained silid Weak pervasiv development	1	None to	o trace pyrite		
435.0	lybrid Intrusive	*	Medium	Massive gabbro contaminated or altered by syenitic mate Red feldspar porphyritic dyl 415.5 - 417.0 and 421.3 - 424.4	ral	Epidote-hemat veinlets 2% - Weak pervasiv alteration.	3%.	Trace p	pyrite		
435.0	Gabbro	Same as a	t top c	f hole.							

HOLE NO. SN-4

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FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
443.8	Finely	Creamy	Very	Laminated (lmm scale) to	Consistent 45 ⁰	Chlorite-garnet developed 451' - 453'		
453.0	Laminated	White,	Fine	beds (cm scale) DETAILED BREAKDOWN	45	developed 4517 - 455		
	Pyrite,	Dark Green an	Ash	443.8 - 444.5 - felsic tuffs	45 ⁰	Weakly sericitic	No Sulphides.	
	Magnetite Chlorite	brassy	1	444.5 - 444.8 - Ultramafic	45 ⁰	Talc-chlorite carbonate	5% disseminated streaky py	rite.
	Chert -Iron	, i		pyritic tuff		THE SHIPST OF SHIPSTHAND	0% a 1350	
	Formation.	Danus		, ,	60 ⁰ /45 ⁰	-	<1% diss. pyrite.	
-				quartz vein 445.3 - 446.3 - Ultramafic pyritic tuff	45 ⁰	Chlorite	5% -10% disseminated and st	creaky
				446.3 - 447.0 - Grey Quartz vein		Chlorite veinlets 3%-5%		,
				447.0 - 447.5 - Magnetite -	45 ⁰	Chlorite	3% pyrite, 20% ? - Magnetit	te
				Chlorite horizon 447.5 - 448.8 - Massive	45 ⁰	Chlorite-Amphibole ?	rest chlorite. 80% pyrite, 20% quart chlor	rite ——
				banded pyrite		Dark green mineral		
		,		448.8 - 449.8 - Quartz vein	45 ⁰ /45 ⁰		2% disseminated pyrite	
_				449.8 - 451.2 - Laminated	50 ⁰ /60 ⁰	Chlorite-amphibole ?	20% pyrite as streaks and	
				pyrite-magnetite-chert-		throughout. Weak garnet	beds.	
	,		·	Dark green amphibole chlorit	e ?	developed 451.1 -451.2	20% - 30% Magnetite as fine streaks.	
				451.2 - 453.0 - Magnetite	45 ⁰	Strongly chloritic ?	5% - 10% disseminated pyrit	e
				-dark green fine chlorite or	·	- ·	30% ? - Magnetite as fine	
				amphibole.			disseminations.	
				- -				

HOLE NO. SN-4

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FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
453.0 -	Intermediat	e Grey- Green		Fragments usually subtle. Crystal tuff fragments in		2% - 3% orange hematite stained veinlets.	None	
566.0	Tuff	with		a crystal tuff matrix.		Patches of epidote -		
	Agglomerate			Some more felsic fragments		K-spar or hematite	·	ne.
		Yellow		(dacitic) stand out.		alteration 5%.		· -
		Speckles		Size of fragments probably	-			
				up to 10 cm.	-	Strongly chloritized	2% - 3% pyrite disseminate	4
	1			No fabric to unit.		section (10%) from	throughout.	1
	,					550.0 - 566.0	ciri ougiloue.	
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HOLE NO. SN 4

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■ METRIC UNITS XXIMPERIAL UNITS

DRILL HOLE RECORD

COLLAR HOLE COLLAR HOLE NUMBER -60° Main Grid 292 SIZE AQ LAT. DEP. ELEV. BRNG. DEPTH 210⁰ True L 60 SE SN-5 5 + 50 NE Unsurveyed DATE STARTED: Oct. 12,1981 McKnight Drilling Co. Ltd., PROJECT PN 037 PURPOSE Test coincident Mag and CONTRACTOR: LOCATION Claim L 522818, McElroy Town-CORE STORAGE: MOTY Hill CASING: Intact DATE COMPLETED Oct. 15.1981 SUPERIOR NW VLF Anomalies along sulphide ship, Larder Lake Mining Division horizon TROPARI PULSE EM SURVEY ACID TESTS **TESTS** MULTISHOT SURVEY (1) ROCK GRAIN ANGLE TO FROM COLOUR TEXTURE AND STRUCTURE ALTERATION **SULPHIDES** REMARKS SIZE CORE AXIS TO TYPE 0.0 Casing 4.0 4.0 -Dark Greeh Fine Massive - no fabric. Occasional Gabbro 1% -2% epidote veining Trace disseminated pyrite with white to 166.5 gradational grain size variation surrounded by weak flecks Medium | 59.5 - 60.0 - pink feldspar pervasive epidote alteration porphyry injection. 73.0 - 73.1 - quart hematite 40° veinlet 111.5 - 111.6 - epidote hematite falut gouge. 45⁰ 160.0 - 166.5 - very fine grained weak fabric at 450 166.5 -Massive Steel Grey Fine | Massive without any fabric 1% disseminated pyrite 30° Magnetite to Black whatsoever. Upper contact 167.7 30° sharp, lower contact sharp 167.7 -Semi-Massive Brassy Fine | Weakly bedded chlorite pyritel 30% chlorite Pyrite 30% -40% 169.0 Pyrite and Yellow Bedding apparent at contact 20 sugary looking quartz Magnetite 5% Chlorite and dark with magnetite horizon. green mottled

SN-5 HOLE NO. _

Watson Office Specialty Ltd.

LOGGED BY

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
169.0 - 170.0	Sugary Qtz. Chlorite Vein	White wit dark gree veinlets		by chlorite veinlets.	Sharp upp Contact 20 Sharp low contact 45	10% -20% chlorite in	1% pyrite disseminated and in chloritic veinlets.	
202.0		Grey-	Fine	Weak fabric reflected in alignment of biotite chlorite and elongate wispy fragments. Chlorite-magnetite biotite mottled zone 170.0 to 192.0 then gradually mottling disappears by 220'		divided from 170.0' - 192.0'.	Trace pyrite throughout 237.2 - 238.2 - bedded magnetite pyrite garnet between fragments. 10% py.	
				170.0 to approx. 192.0' fine tuffs mt. and ch. rich. Approx. 192.0' - Approx. 220' lapilli tuff with 30% -40% fine tuff matrix. Approx. 220' - 292' - coarser agglomerates.				
292.0	END OF HOLE		-					

HOLE NO SN-5

PAGE 2

DRILL HOLE RECORD

						DRILL HOLE RECOF	ID			MINITERI	ALUNIIS	
HOLE NUMBER U	м. Main Gr L 62 SE	id	DEP. 7 + 55 NE		ELEV.		COLLAR BRNG. 21	0°	COLLAR DIP -60	HOLE SIZE AQ	FINAI DEPT	TH 606'
			Bl8, McElroy Town- ning Division	PURPOSE Tes east of SI		axis 200' depth	DATE STARTED: DATE COMPLETED:	Oct. 16,1981 Oct. 20,1981	CONTRACTOR: MCK CORE STORAGE:MO1		ng Co. sing: Int	
ACID TESTS 500 F	t -65 ⁰							TRO TES	PARI TS			PULSE EM SURVEY MULTISHOT SURVEY
FROM ROCK TO TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUK	CTURE	ANGLE TO CORE AXIS	ALTERA	TION	SULP	HIDES		REMARI	ĸs
0.0 - Casing 27.0												
7.0 - Gabbro	Dark	Fine to	Massive -			2% -3% epido	te veinlets	Overall tr	ace pyrite			
540.3	Green with White	Variable	33.6 - 34.0 - quar veir 60.0 - 63.0 - apli	nlet.	900/900	surrounded by pervasive ep						
	Flecks		67.8 - 68.3 - apli 80.5 - 84.5 - quar with chlorite o	ite dyke rtz veining	60 ⁰ /70 ⁰			Trace pyri	te.			
			98.0 - 99.0 - quar vein	rtz feldspa	60 ⁰ /60 ⁰	Bleaching man		·				
			126.0 - 126.9 - Qu 166.2 - 166.5 - Qu 204.8 - 205.6 - Ir	uartz vein	60°/60° 60°/60°			,				
			quartz, epidote he 272.0 - 273.3 - ep spar quartz vein-d	ematite veir Didote feld-	1 -		į				·	
			255.7 - 255.8 415.0 - 418.0 - Ma	- Qtz.vein	60 ⁰ 30 ⁰ /45 ⁰		•					• •

HOLE NO. ____SN-6

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FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	. ALTERATION	SULPHIDES	REMARKS
540.3 -	Mottled	Bands of	Cherty	431.4 - 431.8 - Foliated fine grained xenolith or sheared zone. Approx. 500' to 540.3' -Gabbr becomes increasingly finer grained. (chill contact) Very siliceous mottling -	30 ⁰ o Upper	Pink (hematite staining	Only trace pyrite	
546.0	Black and White Chert	Black,gre	y	silicified ?? cherty material No real bedding apparent.		siliceous) veinlets on jointing planes 3%-4%		
550.0	luii	yellow bands an wisps between creamy white bands		Bedded pyrite magnetite with intercalated fine, weakly bedded felsic (rhyolitic) bleached tuff. Less sulphide more tuff as you go down section into underlying tuffs. Bedding in sulphides locally contorted.	50 ⁰ to 30	section (silica) 3%-4%	546.0 - 546.3 - 70% pyrite 30% mt. 546.3 - 550.0 - 20% pyrite and magnetite.	
550.0 - 558.0		Creamy yellow to grey	Fine	Vauge bedding apparent locall Massive for most part.		Appears weakly sericitic in patches and zones.	Trace pyrite.	`
558.0 - 558.2	Semi-massive pyrite	Brassy	Fine	Massive	Upper Contact 45	10% chlorite as gange to pyrite.	70% pyrite, 20% magnetite 10% chlorite.	
HOLE NO	SN-6	<u></u>						PAGE2

FROM	ROCK	COLOUR	GRAIN	TEXTURE AND STRUCTURE	ANGLE TO	ALTERATION	SULPHIDES	DEMARKS
то	TYPE	COLOGA	SIZE	TEATURE AND STRUCTURE	CORE AXIS	ALTERATION	SULFRIDES	REMARKS
558.2 -	Quartz	Grey with	1	Streaks and wisps of chlorite		10% chlorite	5% pyrite as wisps	
559.2	Chlorite	brassy ar	hd	pyrite (15%) parallel to				
	Pyrite Vein	dark gree	n	contacts. Contacts ragged	45 ⁰			
	,	wisps.						
559.2 -	Pyrite	Dark Gree	n Fine	Iron formation consists of		Chlorite-garnet ubiquitio	us Overall 20% pyrite	
583.7,	Magnetite	-grey		disseminated pyrite and mag-		Weak pervasive carbonate	20%-30% magnetite	
- 1	1	with bras	i	netite and garnet in a dark		in iron formation.	30%-40% chlorite	
1	Garnet -Iror	sections		green chloritic matrix.		I on ionacton.	5% -10% garnet	
		and white	i	Only vauge banding as wisps	45 ⁰		_	
],	with inter-	fragments	\$	apparent locally. Bleached			582.0 - 583.0 -	
ľ	calated Fels	ic		felsic crystal tuff fragments			60% pyrite	
ſ	crystal tuff			at: 565.8 - 567.0			30% magnetite	
-	fragments			567.7 - 570.3 574.5 - 576.8			10% chlorite	
				578.2 - 578.9				
				580.8 - 581.8				
583.7 - <i> </i>	Agglomeratic	Light	Fine	Matrix and fragments similar	1	Garnet and epidote	3% -4% pyrite in seams or	
606.0	Intermediate	Grey-	ash wit			associated with pyritic	wisps probably between	
	Crystal Tuff	Green	crystal	i		seams.	fragments.	,
			up to	consist of feldspar porphy-			agine 1103 .	
			3 mm	ritic dacite-rhyodacite or				
				crystal tuffs ? set in a				
				dacitic to andesitic				
`				crystal tuff matrix.				
						,		
606.0	END OF HOLE							
HOLE NO	SN-6							PAGE3

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☐ METRIC UNITS

DRILL HOLE RECORD

COLLAR COLLAR HOLE AQ HOLE NUMBER 030° True Main Grid DEPTH 396 Ft. ELEV. BRNG. SN-7 2 + 00 NE L 6 + 00 SE Mondoux Shaft Area -Claim No. DATE STARTED: Oct. 30,1981 PROJECT PN 037 CONTRACTOR McKnight Drilling Co. Ltd., PURPOSE Test Sulphide Horizon LOCATION SUPERIOR NW DATE COMPLETED: NOV. 2.1981 CORE STORAGE: MOIV Hill CASING: Intact 250' below Mondoux Shaft TROPARI 396 Ft. -50⁰ PULSE EM SURVEY None ACID TESTS MULTISHOT SURVEY [] ANGLE TO ROCK **GRAIN FROM** TEXTURE AND STRUCTURE COLOUR ALTERATION SULPHIDES REMARKS TYPE SIZE CORE AXIS TO 0.0 -Casing 5.5 5.5 -Intermediate Light Aphanitic Coarse fragmental made 2% orange-white carbonate 69.5' - 2 cm quartz-hema-Green-Grev to up of dacitic crystal and hematite veinlets. Crystal tite veinlet with trace 167.4 Tuff Fine Grained tuff/ fragments in a with Less than 5% epidote chalcopyrite. andesitic tuffaceous (Agglomerate) Creamy with mottled patches -Grey matrix. crystal\$ Patches up to No fabric, fragments very 2mm in subtle, appear up to 30 cm some in size. fragments 58.7 - 58.8 white quartz. vein. 800 86.1 - 86.2 white qtz. vein 70° 106.0 - 106.1 white qtz. veih 70° 150.4 - 150.5 white qtz. veih Fine Bection similar to above section Matrix substantially Overall 5% pyrite as fine 167.4 -Intermediate Dark crystal tuff Green 235.4 except that matrix to larger altered to chlorite. disseminations and local (Agglomerate) with ligh fragments is very chloritic and rich garnet and epidote. Garnet concentrations or wispy beds with chlorite green, red clots and patches usually significant sulphide sections magnetic in iron (Magnetite, garnet,epidote and Magnetite. brown mottles pyrite). Matrix approx. 30% of section magnetite. SN-7 HOLE NO .

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* FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
235.4 -	Pyrite	Brassy Yellow	Fine	Fabric apparent in tuffaceous sections as reflected in py. streaks and bands (probably bedding). Upper contact not precise but gradually magnetite-garnet-chlorite assemblage is predominant. Quartz vein 226.3 to 228.0 Weakly bedded pyrite and felsic tuff	to 60°	Overall 10% Garnet 10% Epidote 10%-20% Chlorite 5% - 10% epidote	206.4 - 207.7 - 50% pyrite- semi-massive 226.1 - 226.3 - 50% pyrite 231.9 - 232.4 - bedded pyri magnetite, about 80% 50% pyrite, 20% magnetite	te-
235.8 -	Horizon Tuffaceous Section	Grey to	Fine ash	Massive = no distinctive bedded appearance except for relationships to sulphides. Very siliceous (felsic) 235 48 = 239.2 Gradually more mafic to a mafic magnetite rich tuff from 239.2 - 241.0		5% epidote mottling. Bleached siliceous nature 237.5 - 339.2 Moderately chloritic from 239.2 - 241.0	*	e
242.2 242.2 -	Massive Pyrite - Magnetite Horizon Gabbro	Brassy yellow to dark gree Light	1	Bedded fine pyrite chlorite and magnetite. Vuggy carbona 241.8 - 241.9 Massive local grain size	45 ⁰ te	Garnet clots 5%	241.0 - 241.9 - 70% pyrite 241.9 - 242.2 - Massive magnetite 80% and chlorite Trace to nil pyrite	
291.0	SN-7	green and white speckles	to Fine	variation. Aplite dykes 256.6 - 256.9 281.2 - 281.4	70°/50 ^d 70°/70°	veinlets.	-	



DRILL HOLE RECORD

☐ METRIC UNITS

HOLE NUMBER		^{AT.} L 4 SE		DEP. 2 NE		ELEV.		COLLAR BRNG. 03	00 True	COLLAR DIP	-60°	HOLE SIZE	AQ	PINAL DEPTH456 Ft
PROJECTPN Superior Hughes O	037,046 NW and ption			ft CLM. L 5 21 350 ip CLM. L 39843			doux Shaft O' W. along	DATE STARTED: DATE COMPLETE	Nov. 4,198 ≥0Nov. 7,198		TOR:MCKni RAGE: Mol	ght Dr y Hill	illing Co. casing:	
ACID TESTS	456	t55 ^Q					strike			TROPARI TESTS				PULSE EM SURVEY [] MULTISHOT SURVEY []
FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRU	CTURE	ANGLE TO CORE AXIS	ALTERA	TION		SULPHIDES		/m	RE	MARKS
0.0 - 5.0	Casing													
5.0 - 375.8	Intermed Agglomera	d- Light atic Grey	1	Very subtle fragme			Very weak per	rvasive	Trace pyr	ite in mat	rix tuf	f		
	Crystal ?	1	Bomb	dacitic crystal to		1	Carbonate ve	inlets at						·-
	Pyroclast	tic Green		dacitic to andesi	ic drystal		random angle	to core						
	Unit			tuff matrix. Mat		1	2% -3%;							
				material locally	contain magn	etite	Epidote vein							
				concentrations.	•		halos to qtz	veinlets						
				estimated to vary	•	i	1% - 2%;							
				to bombs of 30 cm.			Hematite sta							
				Syenite hybrid mot 123' - 133' (10% Quartz veins	•		veinlets ∠l							
				192.0 - 194.0 sub	parallel to e axis	0 ⁰ 4 .			Nó sulphi	des				
				265.5 - 266.8 (1	.3')	45 ⁰	Bleached halo	s for 3"	1% dissem	inated pyr	ite in]! -		
				268.6 - 268.8 (().2')	45 ⁰	around veins		bleached	halo.				
HOLE NO.	SN-8		-	I								LOGGE	ED BY FRAN	BALINT

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FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
		COLOUR		283.8 - 283.9 (0.1') 284.7 - 284.8 (0.1') 285.1 - 285.2 (0.1') 296.5 - 298. (1.5') Aplite Dykes 225.9 - 227 (1.9') 228.2 - 229 (0.8') 235.1 - 235.6 (0.5') Contains 1" qtz. vein 337.0 - 337.4 (0.4') 337.8 - 338.4 (0.6')	70° 60° 90° Ragged Contacts 45°/60° Ragged 60°/60° 70°/70° 70°/70°	206.0 - 296.5 epidote altered	Trace pyrite 1% pyrite along margin 0.5% disseminated pyrite.	REMARKS
386.0	Bedded Mafic Tuff to Lapilli Tuff	Green to	1	337.8 - 338.4 (0.6') 341.3 - 351.8 (10.5') 351.8 - Matrix tuffaceous material more mafic and magnetite-pyrite rich Mafic tuff with good bedding i like fabric. Larger lapilli	70 ⁰ /70 ⁰ 50 ⁰ /50 ⁰ Bedding	351.8 - down section pyroclastics become increasingly chloritic and 1% garnet evident with epidote (5% -10% clots) 5% -10% epidote altered patches, streaks and clots. 1% garnet knots accompanying epidote. Weakly chloritic throughe	" " " " " " " " " " " " " " " " " " "	
HOLE NO.	SN-8							PAGE2

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FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	
386.0∈-	Pyrite	Dark Gree		Bedded pyrite-magnetite	35 ⁰ -45 ⁰			X.
397.7	Magnetite	to Black	ash	bands in a chloritic mafic	Consistan	t		
(10.7')	Chlorite	and brass	у	tuff.				
(1017)	Iron Forma-	yellow						
	tion	streaks						
				DETAILED BREAKDOWN				
				386.0 - 388.6 - (2.6')		20% epidote patches	3% -5% disseminated pyrite	
				bedded pyritic mafic tuff		3% - 5% garnet knots		
			·	388.6 - 389.9 - (1.3')		30% chloritic tuff	40% -50% pyrite	
				semi-massive pyrite bedded			20% ? magnetite	
				389.9 - 394.1 - (4.2')		Moderately chloritic tuff	10% - 20% pyrite	Í
				bedded pyritic chlorite tuff	i	10% epi do te patches	10% magnetite	
						1% -2% garnet knots.	-	
				394.1 - 394.6 - (0.5')		20% - 30% chlorite	50% pyrite	1
				semi-massive bedded pyrite			20% ? magnetite	
				394.6 - 397.0 - (2.4')		80% quartz vein	10% pyrite	
				Qtz. veined pyritic chlorite	tuff	10% chlorite		
				397.0 - 397.7 - (0.7')	·	•	100% fine pyrite	
				massive pyrite				
397.7 -	Intermediate	Mottled	Fine/	Section appears to be mixtur	e	Section weakly chloritic-	Trace to no sulphides excep	;
1		Light &	Ash	of finer mafic tuff and more		throughout. 5% epidote	for section below.	
1	Agglomerate	1	en	intermediate crystal tuff bl	ocks	clots		
				or bombs. 406.0 - 406.4 - bedded semi-	45 ⁰		30% pyrite	
				massive pyrite-magnetite	-		10% magnetite	

HOLE NO. SN-8

AGE _____3___

REMARKS

	FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
1	2.3 - 456.0		Dark Gree with white speckles	n Med. to Fine	Fine grained strongly carbonated chill zone from 412.3 to about 424.0	Contact Obscure	Strong pervasive carbonat accompanied by 5% fine carbonate veinlets at 90° to CA 5% epidote, hematite stained silica veinlets at varying angles to core axis and up to 0.2' in thickness.	e Occasional trace of disseminated pyrite.	
	456.0	END OF HOLE					•>		
	-								
Н	OLE NO	SN-8							PAGE 4

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