

To be held in Confidence for a
5 year period commencing July 1981

81-#649.
9431

To accompany Drilling Report
for the Poplar
Groups 1-3
July 1981

E - NOM _____

ICT - SUJET _____



Studio

PORTFOLIOS - PORTE-FOLIOS

rou

D.D.H. - PC-56

COMPOSITE DRILL LOG

CORE SIZE : NQ wireline SCALE : 1:100 PROJECT : Poplar Lake HOLE No. : PC-56
 CASING COLLAR ELEV.: 902.6 m GROUND ELEV.: 902.8m DATE STARTED : April 22, 1981 PAGE No. 1 OF 21
 COORDINATES : 5898.01 N. 12383.07 E. DATE FINISHED : April 25, 1981 REF. TO CLAIM CORNER: Poplar 7
 INCLINATION : -090° AZIMUTH : TOTAL DEPTH : 309.7 m LOGGED BY : G.L.H.

DEPTH (m)	ALTERATION					FRACTURING	MINERALS	GEOLOGY	COMMENTS:	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	ESTIMATED Cu	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (m)	ASSAYS	
	SILICA	SERICITE	CLAY	SEC. BIO	CHLORITE/EPIDOTE													Cu %	Mo %
0									0-0.61 STICK-UP										
									0.61m										
5									0.61 - 7.62 OVERBURDEN										
									7.62 m										
									7.62-9.14 CASING ? IN BEDROCK										
									9.14m										
10									9.14-24.8 SILICIFIED ARGILLITE										
									gouge zone										
									0.2m gouge shattered zone										
									- pale grn to tan color										
									- rock very strongly alt'd										
									- fracturing very strkng										
									- minor gouge sections										
									- clay along frts										
									- 5cm gouge zone										
									- minor sections of weak mottled texture										
									- lot of pyrite - vnits range up to 1.5cm wide.										
									- vnits - qtz-py										
									py										
									chlorite										
									- lot of pervasive chlorite epidote										
									13.4 - end of v. strongly shattered rock										
									3cm gouge zone										
15																			

very strong
weak to mod
moderate
very strong
py - cpy

4%
20.1%
28001C
28002C
20.1%
20.01
40.001

COMPOSITE DRILL LOG

CORE SIZE :	SCALE :	PROJECT : Poplar	HOLE No. : PC-56
CASING COLLAR ELEV. :	GROUND ELEV. :	DATE STARTED :	PAGE No. 2 OF 21
COORDINATES : N. E.	DATE FINISHED :	REF. TO CLAIM CORNER :	
INCLINATION :	AZIMUTH :	TOTAL DEPTH : m	LOGGED BY :

DEPTH (m)	ALTERATION				FRACTURING MINERALS	GEOLOGU	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (m)	ASSAYS		
	SILICA	SERICITE	CLAY	SEC BIO												chl/epid	Cu %	Mo %
15							DESCRIPTIVE GEOLOGY											
							<u>SILICIFIED ARGILLITE cont.</u>											
							* Mottled textures are accompanied by an increase in sericite		15.8			40.1	28003C		15	20.01	20.001	
							→ 4cm gouge		16.8									
							→ 2cm gouge		18.0									
20							→ 2cm gouge		18.2			40.1	28004C		18	0.01	20.001	
							→ 8cm		20.4									
							21.9 - Minor box zone - very badly broken and weakly cemented.											
							→ 1.4cm py unit				5-6%	40.1	28005C		21	0.03	20.001	
							→ 0.7cm py unit		22.5									
							→ 9tz in gouge											
25							24.8 m											
							<u>24.8-30.8 FELDSPAR PORPHYRY</u>											
							→ 1.5cm gtz-py unit. - moderately altered - phyllic to upper argillic. - fine - moderate. - composition - 25-30% phenos - 100% plagioclase - 70-75% matrix - ephanitic. - groundmass is light tan to tan color. - strong green mottled texture present, due to chlorite. - phenos up to 3mm in size. - numerous N/L gypsum units - 9 per metre					10%	40.1	28006C		24	0.01	20.001
							→ 1/2-py unit (1.8cm)		26.5									
							→ 0.7cm gyp unit											
									27.6									
30																		

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-56
 CASING COLLAR ELEV. : GROUND ELEV. : DATE STARTED : PAGE No. 3 OF 21
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : m LOGGED BY :

DEPTH (M)	ALTERATION				FRACTURING MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES		% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS			
	SILICA	SERICITE	CLAY	SEC PID							Cu %	Mo %								
30	→	→	→	→	→		DESCRIPTIVE GEOLOGY													
	→	→	→	→	→		30.5m FELDSPAR PORPHYRY cont													
	→	→	→	→	→		SILICIFIED ARGILLITE - tan color w periodic dark blue patches - s/w strong - minor gypsum vnits 33-0-39.0 - periodic blue patches, poss. * chlorite strong on frts			3	10	40.1	28008C				0.01	40.001		
	→	→	→	→	→		* Numerous w/p py vnits					40.1	28009C				40.01	40.001		
	→	→	→	→	→		* 90% of sulphides are contained in frts, the rest as disseminations - py crystals very small.					40.1	28010C				40.01	40.001		
	→	→	→	→	→							40.1	28011C				40.01	40.001		
	→	→	→	→	→							40.1	28012C				40.01	40.001		
	→	→	→	→	→							40.1	28013C				40.01	40.001		
	→	→	→	→	→							40.1	28014C				40.01	40.001		
	→	→	→	→	→							40.1	28015C				40.01	40.001		
	→	→	→	→	→							40.1	28016C				40.01	40.001		
	→	→	→	→	→							40.1	28017C				40.01	40.001		
	→	→	→	→	→							40.1	28018C				40.01	40.001		
	→	→	→	→	→							40.1	28019C				40.01	40.001		
	→	→	→	→	→							40.1	28020C				40.01	40.001		
	→	→	→	→	→							40.1	28021C				40.01	40.001		
	→	→	→	→	→							40.1	28022C				40.01	40.001		
	→	→	→	→	→							40.1	28023C				40.01	40.001		
	→	→	→	→	→							40.1	28024C				40.01	40.001		
	→	→	→	→	→							40.1	28025C				40.01	40.001		
	→	→	→	→	→							40.1	28026C				40.01	40.001		
	→	→	→	→	→							40.1	28027C				40.01	40.001		
	→	→	→	→	→							40.1	28028C				40.01	40.001		
	→	→	→	→	→							40.1	28029C				40.01	40.001		
	→	→	→	→	→							40.1	28030C				40.01	40.001		
	→	→	→	→	→							40.1	28031C				40.01	40.001		
	→	→	→	→	→							40.1	28032C				40.01	40.001		
	→	→	→	→	→							40.1	28033C				40.01	40.001		
	→	→	→	→	→							40.1	28034C				40.01	40.001		
	→	→	→	→	→							40.1	28035C				40.01	40.001		
	→	→	→	→	→							40.1	28036C				40.01	40.001		
	→	→	→	→	→							40.1	28037C				40.01	40.001		
	→	→	→	→	→							40.1	28038C				40.01	40.001		
	→	→	→	→	→							40.1	28039C				40.01	40.001		
	→	→	→	→	→							40.1	28040C				40.01	40.001		
	→	→	→	→	→							40.1	28041C				40.01	40.001		
	→	→	→	→	→							40.1	28042C				40.01	40.001		
	→	→	→	→	→							40.1	28043C				40.01	40.001		
	→	→	→	→	→							40.1	28044C				40.01	40.001		
	→	→	→	→	→							40.1	28045C				40.01	40.001		
	→	→	→	→	→							40.1	28046C				40.01	40.001		
	→	→	→	→	→							40.1	28047C				40.01	40.001		
	→	→	→	→	→							40.1	28048C				40.01	40.001		
	→	→	→	→	→							40.1	28049C				40.01	40.001		
	→	→	→	→	→							40.1	28050C				40.01	40.001		
	→	→	→	→	→							40.1	28051C				40.01	40.001		
	→	→	→	→	→							40.1	28052C				40.01	40.001		
	→	→	→	→	→							40.1	28053C				40.01	40.001		
	→	→	→	→	→							40.1	28054C				40.01	40.001		
	→	→	→	→	→							40.1	28055C				40.01	40.001		
	→	→	→	→	→							40.1	28056C				40.01	40.001		
	→	→	→	→	→							40.1	28057C				40.01	40.001		
	→	→	→	→	→							40.1	28058C				40.01	40.001		
	→	→	→	→	→							40.1	28059C				40.01	40.001		
	→	→	→	→	→							40.1	28060C				40.01	40.001		
	→	→	→	→	→							40.1	28061C				40.01	40.001		
	→	→	→	→	→							40.1	28062C				40.01	40.001		
	→	→	→	→	→							40.1	28063C				40.01	40.001		
	→	→	→	→	→							40.1	28064C				40.01	40.001		
	→	→	→	→	→							40.1	28065C				40.01	40.001		
	→	→	→	→	→							40.1	28066C				40.01	40.001		
	→	→	→	→	→							40.1	28067C				40.01	40.001		
	→	→	→	→	→							40.1	28068C				40.01	40.001		
	→	→	→	→	→							40.1	28069C				40.01	40.001		
	→	→	→	→	→							40.1	28070C				40.01	40.001		
	→	→	→	→	→							40.1	28071C				40.01	40.001		
	→	→	→	→	→							40.1	28072C				40.01	40.001		
	→	→	→	→	→							40.1	28073C				40.01	40.001		
	→	→	→	→	→							40.1	28074C				40.01	40.001		
	→	→	→	→	→							40.1	28075C				40.01	40.001		
	→	→	→	→	→							40.1	28076C				40.01	40.001		
	→	→	→	→	→							40.1	28077C				40.01	40.001		
	→	→	→	→	→							40.1	28078C				40.01	40.001		
	→	→	→	→	→							40.1	28079C				40.01	40.001		
	→	→	→	→	→							40.1	28080C				40.01	40.001		
	→	→	→	→	→							40.1	28081C				40.01	40.001		
	→	→	→	→	→							40.1	28082C				40.01	40.001		
	→	→	→	→	→							40.1	28083C				40.01	40.001		
	→	→	→	→	→							40.1	28084C				40.01	40.001		
	→	→	→	→	→							40.1	28085C				40.01	40.001		
	→	→	→	→	→							40.1</								

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : *Poplar* HOLE No. : *PC-56*
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. *5* OF *21*
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : m LOGGED BY :

DEPTH (M)	ALTERATION				FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS			
	SILICA	SERICITE	CLAY	SEC. BIO													CHL/EPID	Cu %	Mo %	
60	↑	↑	↑	↑	↑		<u>SILICIFIED ARGILLITE cont.</u>									60				
							* Degree of alt'n decreases										0.01	40.00		
							← 2cm py unit						40.1%	28018C						
							G3.0 - Green mottling texture reappears.													
65							← 1cm py unit						40.1%	28019C			40.01	0.002		
							* Numerous H/L py units													
							← strong pyrite - (spy)						40.1%	28020C			40.01	40.001		
							- Dark blue patches periodically appear													
70													40.1%	28021C			40.01	0.001		
							← Numerous H/L py units													
							* Minor carbonate veining						40.1%	28022C			40.01	40.001		
75																				

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-56
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 7 OF 21
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : m LOGGED BY :

DEPTH (M)	ALTERATION				FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS			
	silica	sericite	clay	sec. bio													chl/epid	Cu %	Mo %	
90	strong	mod	strong	mod	weak	strong	py (cpy)	→ 2x1cm py units <u>SILICIFIED ARGILLITE CONT.</u> as before.				1 1/2 - 2%	< 0.1%	28028C		90				
95	strong	mod	strong	mod	weak	strong	py (cpy)	→ sutured @ 75° to C.A. 95.2M → 2cm gouge zone 93.2 - 95.9 <u>Biotite Feldspar Porphyry</u> - comp - 25% phenos - 23% plagioclase - bio phenos completely altered - 2% bio - ser. - 75% matrix - silica, ser - a lot of gouge zones - No py and hematite units → crumpled contact 95.9M - tan color matrix w/ salt & pepper texture. 95.9 - <u>SILICIFIED ARGILLITE</u> Same as before				2%	< 0.1%	28029C		93	0.01	20.001		
	strong	mod	strong	mod	weak	strong	py (cpy)	→ 3x0.8cm py units → 4cm gouge zone * Numerous red & black hematite-magnetite units. 99-101 - Small sections of B.P. in the argillite - distinct contacts → 20cm gouge zone → 1cm py unit → 5cm gouge zone. 101-102 - More of the dk blue color in the argillite. * Sulphides contained in fractures in argillite and as disc. in the porphyrys → weak B.P. in gouge zone. 102.7-102.9 - B.P. section w/ sutured contacts → B.P. section 103.1-103.2 - B.P. section - as above → 2cm gouge zone → gauge @ contact 104.8m <u>BIOTITE-FELDSPAR PORPHYRY</u>				1 1/2 - 2%	< 0.1%	28030C		96	0.05	0.001		
	strong	mod	strong	mod	weak	strong	py (cpy)					3-4%	< 0.1%	28031C		99	0.06	0.001		
100	strong	mod	strong	mod	weak	strong	py (cpy)					1 1/2 - 2%	< 0.1%	28032C		102				
105	strong	mod	strong	mod	weak	strong	py (cpy)					1 1/2 - 2%	< 0.1%	28033C		105	0.08	20.001		

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-56
 CASING COLLAR ELEV. : GROUND ELEV. : DATE STARTED : PAGE No. 8 OF 21
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : m LOGGED BY :

DEPTH (M)	ALTERATION				FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS			
	SILICA	SERICITE	CLAY	SEC. BIO.													CHL/EPID.	Cu %	Mo %	
105	moderate	strong	weak		weak to mod	py-Hem-cpy	ARGILLITE	105.8-106.0 - section of Argillite, bounded by weak gouge zones.				3-4%	<0.1%	28033C		105	0.01	20.001		
							ARGILLITE	109.8m H/L PY units				1 1/2-2%	40.1%	28034C		108	0.06	20.001		
110	moderate	strong	weak		moderate to strong	py-Hem	ARGILLITE	111.2m				9-4%	40.1%	28035C		111	0.03	20.001		
							ARGILLITE	112.4m				2%	40.1%	28036C		114	0.04	20.001		
							ARGILLITE	113-113.5 - Rock has dk blue cast.				<0.1%	40.1%	28037C		117	0.03	20.001		
115	moderate	strong	weak		strong	py-Hem	ARGILLITE	114-115 - Biotite Feldspar Porphyry - fault bounded				<0.1%	40.1%	28037C		120	0.03	20.001		
							ARGILLITE	116-118.5 - DK blue tone reappears				<0.1%	40.1%	28037C		120	0.03	20.001		
							ARGILLITE	119.1m				<0.1%	40.1%	28037C		120	0.03	20.001		
120	moderate	strong	weak		strong	py-Hem	FELDSPAR PORPHYRY	119.1m				<0.1%	40.1%	28037C		120	0.03	20.001		

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : *Poplar* HOLE No. : *PC-56*
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. *9* OF *21*
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : m LOGGED BY :

DEPTH (m)	ALTERATION				FRACTURING MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (m)	ASSAYS					
	silica	sericite	clay	sec bio												Cu %	Mo %				
120							1cm Hem-gtz unit. FELDSPAR PORPHYRY - rock is strongly altered, most of the phenos are completely destroyed, leaving periodic pheno ghosts. 1cm py unit. - rock is a pale green color - clay altn confined to phenos - pheno ghosts range up to 1mm in size. - very strong silicification plus weak qtz s/w developed - contains minor argillic sections - minor mottling texture present - numerous H/L py and Hem units 123-125.4 - Argillite section 122.1 - shear slip showing slickensides on the chlorite - chlorite present in 70% of frts.														
125	very strong	moderate	moderate (phenos)	mod			1cm gouge zone 1cm qtz unit. - chlorite present in 70% of frts.														
							20cm healed shear zone Zone of mixed FP and arg. 125.2-129 - Zone of mixed F.P and argillite - a crumbly but well healed shear zone.														
							2x1.5cm py units WR box in gouge				4%										
130	str	str	mod	mod			gouge zone w chl. 130-130.7 - 3cc bio, is moderate and phenos are not destroyed. shear zone. 130.7m shear contact @ 45° BIOTITE FELDSPAR PORPHYRY - more strongly altered than discip on page 8.														
							40° to S.A. 132.1m 1cm calcite unit Rhyodacite - black, aphanitic groundmass w qtz-carb phenos (eyes) and minor epidote phenos.														
							shear zone @ 40° to S.A. 133.7m ARGILLITE - numerous H/L py and Hem-Mt units.														
135	mod	mod					10cm Hem unit.				1/2%	40.1%	28042C								

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-56
 CASING COLLAR ELEV. : GROUND ELEV. : DATE STARTED : PAGE No. 11 OF 21
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : m LOGGED BY :

DEPTH (M)	ALTERATION				FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE RECY/MOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS			
	SILICA	SERICITE	CLAY	SEC. BIO													CHL/epid	Cu %	Mo %	
150	strong	strong	strong	weak	very strong	Py - Hem - cpx - lim	<p>ARGILLITE cont</p> <ul style="list-style-type: none"> - tan color - very strongly fractured, mostly silica healed - Qtz s/w moderately developed - numerous H/L py and Hem units present - traces of limonite <p>- 90% of sulphides confined in frts</p>				3-4%	0.15%	28048C		150	0.21	0.001			
155	strong	strong	strong	weak	very strong	Py - Hem - cpx - lim	<p>1.8cm Qtz-py unit</p> <p>1cm Qtz unit + Hem</p> <p>0.7cm carb. unit</p> <p>* Carb units are composed of calcite + something else.</p> <p>1cm carb. unit</p>				3-4%	0.10%	28049C		153	0.18	0.002			
160	weak to mod	moderate	moderate	weak epid	moderate	Py - Hem - cpx	<p>2cm Qtz-mt unit @ contact</p> <p>159.8m Contact 20° to O.A</p> <p>BIOTITE FELDSPAR PORPHYRY</p> <ul style="list-style-type: none"> - crowded porphyry, tan color matrix - comp - 45-50% phenos - 40% plg - ser + clay - 60-65% groundmass - bio phenos are 80% fresh - phenos range up to 5mm in size - Qtz-s/w mod developed - lot of H/L py units have siliceous envets. - clay gth confined to phenos. - alt'n intensity is weak - argillic phase. - minor Hem units. A lot 1% of diss hem. 				2 1/2 - 3%	0.20 - 0.25%	28050C		156	0.24	0.001			
165	weak to mod	moderate	moderate	weak epid	moderate	Py - Hem - cpx	<p>1cm Qtz unit</p> <p>1cm py-Qtz unit</p> <p>1cm Qtz unit</p> <p>0.8cm Qtz-carb mt</p> <p>1cm Qtz unit</p> <p>* Strong silica flooding around H/L py units.</p>				2 1/2 - 3%	0.15%	28051C		159	0.04	0.001			
165	weak to mod	moderate	moderate	weak epid	moderate	Py - Hem - cpx	<p>1cm Qtz unit</p>				2 1/2 - 3%	0.15%	28052C		162	0.09	0.001			

COMPOSITE DRILL LOG

CORE SIZE :	SCALE :	PROJECT : Poplar	HOLE No. : PC-56
CASING COLLAR ELEV. :	GROUND ELEV. :	DATE STARTED :	PAGE No. 12 OF 21
COORDINATES : N. E.		DATE FINISHED :	REF. TO CLAIM CORNER :
INCLINATION :	AZIMUTH :	TOTAL DEPTH : m	LOGGED BY :

DEPTH (M)	ALTERATION				FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS			
	silica	sericite	clay	ss/bio													chl/epid	Cu %	Mo %	
165	weak to moderate	moderate	moderate	trace epid	moderate	Py - hem - cpy	<p style="text-align: center;"><u>BIOTITE - FELDSPAR PORPHYRY cont.</u></p> <p>→ 1.5cm qtz-carb unit.</p> <p>* A lot of the pyrite has been replaced by hematite.</p> <p>→ 0.5cm qtz unit.</p> <p>* strong silica flooding around vults.</p>				3%	0.1%	28053C		165	0.04	10.00			
170	weak to moderate	moderate	moderate	trace epid	moderate	Py - hem - cpy	<p>* clay alt'n confined to fspcr phenos</p> <p>→ 1cm gauge zone</p> <p>→ large cpy mass.</p>					0.1%	28054C		168	0.04	10.00			
171.7m							<p>sharp contact @ 45°</p> <p style="text-align: center;"><u>ARGILLITE</u></p> <p>- tan color, strongly fractured.</p> <p>- qtz s/w mod developed.</p>					0.15%	28055C		171	0.20	0.002			
175	moderate	weak to moderate	weak	mod epid	strong	Py, hem - cpy	<p>→ 4cm qtz-carb unit</p> <p>→ 1cm qtz-carb unit</p> <p>→ 1cm hem unit.</p> <p>- sulphides pretty much confined to fractures.</p> <p>- minor hematite replacing pyrite</p>				2%	0.15%	28056C		174	0.18	10.00			
177.5m	strong	strong	weak	mod epid	strong	Hem-py-cpy	<p>→ 1cm qtz-carb unit</p> <p>→ 0.7cm py unit</p> <p>Contact is gradational (Inter phase)</p> <p style="text-align: center;"><u>FELDSPAR PORPHYRY</u></p> <p>- very strongly altered, phenos mostly destroyed.</p> <p>- a lot of argillaceous material present</p> <p>- qtz s/w mod. developed</p>				6%	0.45%	28057C		177	0.14	0.001			
180							<p>→ 1cm qtz-carb unit.</p> <p>* Hematite seen rimming pyrite.</p>								180					

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-56
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 14 OF 21
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : m LOGGED BY :

DEPTH (m)	ALTERATION					FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (m)	ASSAYS			
	SILICA	SERICITE	CLAY	SEC. BIO	CHL/EPID													Cu %	Mo %		
195	weak to mod	strong	moderate						195.1m <u>BIOHITE FELDSPAR PORPHYRY</u>												
									As before												
									→ 1cm py-qtz unit.												
									→ 2x0.7cm qtz units												
200																					
									→ 1cm gouge zone 201.3-201.6 - Argillite												
									→ Argillite - fault bounded.												
									→ sharp contact 203.0												
									→ 10' to 4" <u>ARGILLITE</u>												
									→ 1cm qtz unit - tan color												
									→ 1cm qtz unit - strongly fractured.												
									→ 1cm qtz unit - mod qtz s&w												
									→ 0.7cm py unit - minor hem in units												
									→ 1cm qtz unit - Numerous py units												
									→ 2cm qtz unit * strong sec bio alt.												
									* Sulphides are fracture controlled and generally fine grained												
									Traces of MoS ₂												
									→ 1cm qtz unit												
210																					

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : *Poplar* HOLE No. : *PC-56*
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. *15 OF 21*
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : m LOGGED BY :

DEPTH (M)	ALTERATION				FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS	
	SILICA	SERICITE	CLAY	SEC BIO													CHL/EPID.	Cu %
210							ARGILLITE cont.											
							→ 1cm Hem-cpy unit	Rock has a dark brown cast due to the sec. bio.					0.20%	28068C		210	0.18	0.003
							→ 1cm qtz unit									213		
							→ 1cm Hem unit.											
							→ 3cm qtz-Hem unit	Qtz s/w mod to strongly developed.					0.25%	28069C			0.23	0.002
215							→ 2cm qtz-Hem unit.											
							→ 1.5cm qtz unit w hem									216		
							→ 10cm qtz unit.											
							→ 1.3cm qtz unit w hem						0.20%	28070C			0.20	0.003
							→ 20m qtz unit.											
																219		
220							→ 1cm Hem-qtz unit.						0.20%	28071C			0.21	0.002
							→ 2cm qtz-Hem unit.						0.20%	28072C			0.18	0.002
225																		

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-56
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 17 OF 21
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : LOGGED BY :

DEPTH (M)	ALTERATION				FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED Cu	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS	
	Silica	sericite	clay	sec bio													chl/epid	Cu %
240	moderate	strong	weak	weak	moderate	py-Hem-epi-(MnS ₂)	1cm qtz-carb unit @ M ₅₂ : cpy Hem * Cu mineralization has a wide range 0.45-0.10% over very short distances It appears to correspond to intensity of sec bio alt'n. Clay alt'n confined to fspar phenos. - Biotite phenos are 90% altered to sericite. Qtz s/w moderately developed.				1/2 - 3%	0.10%	28078C		240	0.08	0.001	
245	moderate	strong	weak	weak	moderate	py-Hem-epi-(MnS ₂)	wuggy qtz-carb unit 246.0 - Increase in sec. bio in groundmass. str. H/L Hem units.					0.10%	28079C		243	0.14	0.001	
250	weak	weak	weak	weak	weak	(Hem)	249.8M Contact angle 60° to C.A. PORPHYRITIC TRACHYTIC RHYODACITE - 10% fspar phenos - altered to clay-sericite - 5% fspar lathes → < 1mm in size - phenos range up to 5cm in size - minor disc Hematite - color of groundmass ranges from pale yellow near upper contact to a dark grey. - alteration intensity is weak - fracturing is weak. - minor qtz-carb ming.					< 0.5%	28080C		246	0.08	0.001	
255	weak	weak	weak	weak	weak	(Hem)						< 0.5%	28081C		249	0.02	0.001	
															252	Not sampled		

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-56
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 19 of 21
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : LOGGED BY :

DEPTH (m)	ALTERATION				FRACTURING MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (m)	ASSAYS	
	SILICA	SERICITE	CLAY	SFC B10												CNL/EPID	Cu %
270	weak	weak	weak (phenos)	weak epid.	weak to moderate (Hem)		TRACHYTIC RHYODACITE cont.			< 0.05%	nil						
275							Rock takes on the pale yellow color towards the contact.										
276							277.3m gauge zone. contact zone @ 20° to CA						28082C			0.03	0.001
279							BIOTITE FELDSPHR PORPHYRY - tan color, crowded porphyry - Qtz s/w weakly developed. - comp - 30% phenos - 25% plag - 5% biot - 70% groundmass - silica, sericite - biot. phenos range up to 4mm in size - abundance of diss. fct hematite - alt'n intensity med - upper argillis. - 21% diss. sulphs. - 2% diss hem						28083C			0.13	0.003
280	moderate	strong	weak (phenos)	mod	moderate		1cm qtz-py unit						28084C			0.33	0.010
282							0.7cm gauge zone cpy mass										
285																	

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-56
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 21 OF 21
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : LOGGED BY :

DEPTH (M)	ALTERATION				FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS	
	SILICA	SERICITE	CLAY	SEC BTD													OH/EPID	Cu %
300							1cm gouge zone. <u>BIOTITE FELDSPAR PORPH. cont.</u>											
							1cm qtz unit sp. * Dtz SW increases with depth.							28088C		302	0.12	0.002
							* Biotite pheno becoming less altered							28089C			0.09	0.003
305							3x 1.5cm qtz units 3 py:cpy.							28090C		305	0.10	0.004
							307.9 - 308.9 - Rhyodacite dyke											
							90° Rhyodacite dyke											
							90° 0.6cm py unit							28091C		308	0.03	0.002
310							309.7m End of Hole									309.7		

D.D.H. - PC-57

COMPOSITE DRILL LOG

CORE SIZE : NQ SCALE : 1:100 PROJECT : Poplar HOLE No. : PC 57
 CASING COLLAR ELEV. : GROUND ELEV. : DATE STARTED : April 25/81 PAGE No. 2 OF
 COORDINATES : 6100 N. 12400 E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : -90° AZIMUTH : TOTAL DEPTH : m LOGGED BY : T. Pollock

DEPTH (m)	ALTERATION				FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/MOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (m)	ASSAYS			
	SILICA	SERICITE	CLAY	SEC. BLD													CHL / EPD	% Cu	% Mo	
15																15				
16	weak	mod	weak - mod		high		fractures 1/3cm Biotite Feldspar Porphyry - pale beige to green, locally mottled from green and/or white feldspar phenos (locally) waxy from calcite vults and wags - fractures commonly have mod. py				1%	< 0.1		28704C		18	0.08	0.001		
17			weak		mod		0.5cm qtz-py vults - weak stockwork of qtz-py vults - phenos 40% - feldspar mainly plag, easily scratched, mod sericite 2% biotite phenos - most are odd brown ghosts, black phenos nil									18				
18							fractures 1/8cm - 1/3 of the matrix is altered fine bio									19				
19							Contact @ 10°									20	0.08	0.001		
20							0.2cm qtz vults Quartz - Feldspar Porphyry Dyke									21				
21							- beige									22				
22							-15% phenos - 12% carb w minor hem phenos - anhedral 3% qtz									23				
23							highly fractured - carb. phenos often weathered out giving the rock a waxy appearance matrix is granitic									24				
24							-phenos avg. 2mm across									25				
25							-locally the rocks has a laminated appearance due to numerous 1/2 vults									26				
26	locally weak						bio-fold porph fragments in dyke material - generally homogeneous with very little veining									27				
27	locally weak															28				
28							0.3cm gypsum vult									29				
29							bio-fold fragments 1cm gypsum salt - locally the dyke is dark brown									30	0.01	0.001		
30							fractures 1/10cm coloured with rare black bio phenos													
							Fractures commonly @ 50°													

COMPOSITE DRILL LOG

CORE SIZE : NQ SCALE : 1/100 PROJECT : Poplar HOLE No. : PC-57
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : April 25/81 PAGE No. 3 OF
 COORDINATES : 600 N. 12400 E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : -90° AZIMUTH : TOTAL DEPTH : LOGGED BY : T. Pollock

DEPTH (m)	ALTERATION				FRACTURING	MINERALS	GEOLOGY	COMMENTS:	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	SULPHIDES		SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (m)	ASSAYS	
	SILICA	SERPENTINE	CLAY	SEL. BIO								CHL / EPID	% Cu				% Mo	
30												<	<			30		
31							Quartz Feldspar Porphyry Dyke					0.1	<	28707C				
32							0.4 cm gyp vult					2-3%	0.1	28707C			0.08	0.001
33							Biotite Feldspar Porphyry						<			33		
34	weak	mod	weak				0.5 cm qtz un w py - rattled from dark green feld phenos in a beige-green matrix.						<	28708C				
35	weak	mod	weak				- feld phenos 25%, anhedral, 2mm wide - black bio nil, much fine alt. burn bio in the matrix.						0.1	28708C			0.17	0.002
36							0.3 cm py vult - trace ep, weak qtz-py veining						<	28709C				
37							Qtz-py vults common						<	28709C				
38	mod						18cmly over 15cm a weak stockwork exists mottled texture becomes less distinct, phenos less noticeable, whitish in colour, no blk bio, less bio in matrix.						0.1	28709C			0.14	0.002
39							0.2 cm py vult						<	28710C				
40							20cm gauge zone-chl						0.1	28710C			0.15	0.001
41							gyp py + ground bfp						<	28711C				
42	mod	mod	weak				0.3cm gyp m-ads all qtz-py -40-50% white subhedral fold					1-2%	<	28711C				
43							0.5cm m of qtz with py phenos in a greenish-gray matrix easily scratched, locally giving a crystalline texture						<	28711C				
44							local stockwork of py - no blk bio phenos, although ghosts are present + fine blk bio in the matrix.						0.1	28711C			0.16	0.002
45							1cm gyp m 0.2cm py vult qtz-py vults common mod phyllic alt.									45		

COMPOSITE DRILL LOG

CORE SIZE : NQ SCALE : 1:100 PROJECT : Poplar HOLE No. : PC-57
 CASING COLLAR ELEV. : GROUND ELEV. : DATE STARTED : April 25/81 PAGE No. 4 OF
 COORDINATES : 6100 N. 12400 E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : -90° AZIMUTH : TOTAL DEPTH : LOGGED BY : T. Pollock

DEPTH (m)	ALTERATION				FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/MOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (m)	ASSAYS			
	SILICA	SERICITE	CLAY	SEC. BDO													CAL / EPID	% Cu	% Mo	
45																45				
46																				
47	mod	mod	mod	mod	weak	py, sp, hem, mag														
48	mod	mod	mod	mod	weak	py, sp, hem, mag														
49	weak	mod	mod	mod	weak	py, sp, hem, mag														
50	mod	mod	mod	mod	weak	py, sp, hem, mag														
51	mod	mod	mod	mod	weak	py, sp, hem, mag														
52	mod	mod	mod	mod	weak	py, sp, hem, mag														
53	mod	mod	mod	mod	weak	py, sp, hem, mag														
54	mod	mod	mod	mod	weak	py, sp, hem, mag														
55	mod	mod	mod	mod	weak	py, sp, hem, mag														
56	mod	mod	mod	mod	weak	py, sp, hem, mag														
57	mod	mod	mod	mod	weak	py, sp, hem, mag														
58	mod	mod	mod	mod	weak	py, sp, hem, mag														
59	mod	mod	mod	mod	weak	py, sp, hem, mag														
60	mod	mod	mod	mod	weak	py, sp, hem, mag														

COMPOSITE DRILL LOG

CORE SIZE : *NQ* SCALE : *1:100* PROJECT : *Poplar* HOLE No. : *PC-57*
 CASING COLLAR ELEV. : GROUND ELEV. : DATE STARTED : *April 25/81* PAGE No. *6* OF
 COORDINATES : *6100* N. *12400* E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : *-90°* AZIMUTH : TOTAL DEPTH : m LOGGED BY : *T. Pollock*

DEPTH (m)	ALTERATION					FRACTURING	MINERALS	GEOLOGY	COMMENTS: <i>Gypsum vns cut 973 py vns</i>	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (m)	ASSAYS			
	SILICA	SERPENTINE	CLAY	SEC BIO	CHL/EPID													POT	% Cu	% Mo	
75																					
76	<i>weak</i>	<i>mod</i>	<i>mod</i>			<i>weak locally mod</i>		<i>locally reddish in colour from hematite?</i>	<i>Quartz Feldspar Porphyry Dyke</i>												
77	<i>weak</i>		<i>locally mod</i>			<i>weak locally mod</i>		<i>1cm gauge zone at clay fragments</i>													
78						<i>weak locally mod</i>		<i>Biotite & BFP fragments</i>	<i>-locally over 10-20cm there are zones of BFP.</i>			<i>< 0.5</i>					<i>78</i>			<i>Not Sampled</i>	
79						<i>weak locally mod</i>		<i>Common fracture angle @ 50°</i>	<i>fractures 1/5cm seen in mag.</i>												
80						<i>weak locally mod</i>		<i>20cm zone highly weathered</i>										<i>20.01</i>	<i>49.001</i>		
81						<i>weak locally mod</i>			<i>carbonate phases common</i>												
82						<i>weak locally mod</i>			<i>Contact sharp @ 40°</i>												
83						<i>weak locally mod</i>		<i>0.3cm qtz vns in py + horn</i>	<i>Biotite Feldspar Porphyry -30% plagioclase -pale green to dk green, locally over 10cm alt to pink k-feldspar.</i>				<i>.1</i>					<i>0.13</i>	<i>0.001</i>		
84	<i>high</i>	<i>mod</i>	<i>weak</i>			<i>weak locally mod</i>		<i>mod. qtz-py unit stockwork</i>	<i>ghosts present.</i>												
85	<i>high</i>	<i>mod</i>	<i>weak</i>			<i>weak locally mod</i>		<i>1cm qtz-py vns</i>	<i>-black bio phases not present but some</i>			<i>2-3%</i>									
86						<i>weak locally mod</i>		<i>0.8cm gyp vns</i>	<i>-the rock has a good qtz-py unit stockwork</i>				<i>.1</i>					<i>0.27</i>	<i>0.003</i>		
87						<i>weak locally mod</i>															
88						<i>weak locally mod</i>		<i>weak qtz-py stockwork</i>	<i>-35-40% pale green soft subhedral plagioclase (locally having pot. alt) + trace</i>												
89	<i>high</i>	<i>mod</i>	<i>weak</i>			<i>weak locally mod</i>		<i>1cm gyp vns cut & qtz-py vns</i>	<i>bio ghosts in a highly siliceous matrix.</i>												
90						<i>weak locally mod</i>		<i>1cm qtz vns in py</i>	<i>weak - locally mod qtz-py vns stockwork</i>									<i>0.21</i>	<i>40.001</i>		

COMPOSITE DRILL LOG

CORE SIZE : *NQ*
 SCALE :
 CASING COLLAR ELEV.:
 GROUND ELEV.:
 COORDINATES : *6100 N. 12400 E.*
 INCLINATION : *-90°*
 AZIMUTH :

PROJECT : *Poplar*
 DATE STARTED : *April 25/81*
 DATE FINISHED :
 TOTAL DEPTH :

HOLE No. : *PC-57*
 PAGE No. *8* OF
 REF. TO CLAIM CORNER :
 LOGGED BY : *T. Pollock*

DEPTH (M)	ALTERATION				FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS				
	SILICA	SERICITE	CLAY	SEC. BTO													CHL / EPID	% Cu	% Mo		
105																					
106								<i>Rhyodacite dykes fine trachytic texture</i>													
107								<i>Gyp vnlts common</i>													
108								<i>fine carb vnlts 106.85 - 107.05 - BFP 1cm pink gyp vnlts</i>													
109								<i>Contact sharp @ 80°</i>													
110								<i>0.2cm gouge zone Biotite Feldspar Porphyry</i>													
111								<i>-rock takes on a crowded porphyry -texture with a highly siliceous matrix</i>													
112								<i>0.2cm gyp vnlts 4cm gtz-py zone followed by a 11cm broken porous zone</i>													
113								<i>-weak gtz-py stockwork -weak-mod phyllic alt. -feld commonly have hem staining?</i>													
114																					
115								<i>7cm clay-chl gouge</i>													
116								<i>avg fracture @ 60° gtz-py vnlts avg < 0.2cm fractures 1/20cm</i>													
117								<i>-weak-mod gtz-py vnlts stockwork gyp vnlts < 0.3cm common no 6th bio phases visible, some ghosts present</i>													
118								<i>0.2cm gyp vnlts</i>													
119								<i>1cm gtz vnlts w py+cp 1cm pink gyp vnlts</i>													
120								<i>2cm clay-chl gouge</i>													

COMPOSITE DRILL LOG

CORE SIZE : NQ SCALE : 1/100 PROJECT : Poplar HOLE No. : PC-57
 CASING COLLAR ELEV. : GROUND ELEV. : DATE STARTED : April 25/81 PAGE No. 9 OF
 COORDINATES : 6100 N. 12400 E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : -90° AZIMUTH : TOTAL DEPTH : m LOGGED BY : T. Pollock

DEPTH (M)	ALTERATION				FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS			
	SILICA	SERICITE	CLAY	SEC. BLD													CXL / SPID	% Cu	% Mo	
120																120				
121	strong	mod	weak	weak	weak	py, hem	Biotite Feldspar Porphyry	0.3cm gyp in others present at > 1/2's				<		28732C		120				
122	strong	mod	weak	weak	weak	py, hem	weak gtz-py vlt stockwork	-40% green plg. phenos in a siliceous matrix -no blk bio, plg can just be scratched -gyp unts common			1%	<		28732C		122	0.15	0.002		
123							0.3cm gyp in 1cm gyp in	-localized humor pot alt of plg -rock has a crowded soap texture								123				
124							2cm in of mag, gtz gyp, py, hem					<		28733C		124				
125							1cm of gtz + py							28733C		125	0.23	0.002		
126							1cm gtz + py	-mod gtz-py vlt stockwork + many avg 0.2cm gyp unts.						28734C		126				
127								-trace cp -rare hem-mag unit				<		28734C		127				
128														28734C		128	0.16	0.001		
129	strong	weak					breccia of QFP + BFB							28735C		129				
130								-black bio phenos appear over 20cm - rock looks very siliceous						28735C		130				
131							0.6cm gtz in w py + gyp	plg phenos not easily seen creamy coloured						28735C		131	0.16	0.003		
132							2 good blk bio phenos 3's well as ghosts							28736C		132				
133							1cm gtz-py in w cp	-40% plg phenos - pale green locally reddish from hem						28736C		133				
134	strong	mod					8cm gauge w gtz	mod stockwork, few gyp unts now						28736C		134	0.15	0.002		
135							py + cp 5.6cm gtz-py in							28736C		135				

COMPOSITE DRILL LOG

CORE SIZE : **NQ** SCALE : **1/100** PROJECT : **Poplar** HOLE No. : **PC-57**
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : **April 25/81** PAGE No. **10** OF
 COORDINATES : **6100 N. 12400 E.** DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : **-90°** AZIMUTH : TOTAL DEPTH : **m** LOGGED BY : **T. Pollock**

DEPTH (M)	ALTERATION				FRACTURING MINERALS	GEOLOGY	COMMENTS :	AVG. CORE RECY/MOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE NO.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS				
	SILICA	SERICITE	CLAY	SEL. BDD												CHL/EPID	% Cu	% Mo		
135							1cm qtz-py un w cp 0.3 clay py lat py cp								135					
136							1cm qtz un Biotite Feldspar Porphyry -30-40% pale green to reddish subhedral phanos (plag) -2% burn biotite ghosts										0.22	0.001		
137	strong	mod	weak		weak		10cm gouge of clay & ground rock -matrix is highly siliceous -mod qtz-py - unit stockwork -gyp unts common -mod phyllic alt.						28737C							
138							Thin gyp un followed by a 1.3cm clay gouge -most py conc in qtz-py unts -cp is finally diss. -hem. is in some unts w qtz + rare mag. + also diss.								138					
139							1cm qtz un p 2cm of py no water mag. + also diss.						28738C				0.14	0.003		
140							1.3cm gyp-py un -red colour of feld may be from hem. at part. alt. -where the rock has a homogeneous look from high silica - feldspar phanos are not easily scratched													
141	strong	mod	weak		weak		qtz-py unts @ 20° 0.5m wide								141					
142																				
143							1cm qtz-py un										0.22	0.003		
144							1cm qtz-py un 15cm mag-hem stockwork													
145							1.5cm clay gouge py + py @ bottom													
146							4cm clay w qtz + py gouge Contact irregular @ 55°?										0.22	0.002		
147							Fracture along a 1mm qtz unlt. Biotite - Quartz - Feldspar Porphyry Dyke -15% anhedral - subhedral green + pink feldspar phanos													
148	weak-mod				weak		-15% 1mm qtz eyes + 2% burn alt bio phanos in a beige aphanitic hard matrix.								147					
149							0.9cm gyp-clay zone													
150							0.4cm gouge zone small gouge zones common.													

COMPOSITE DRILL LOG

CORE SIZE : NQ SCALE : 1/100 PROJECT : Poplar HOLE No. : PC-57
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : April 25/81 PAGE No. 11 OF
 COORDINATES : 6100 N. 12400 E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : -90° AZIMUTH : TOTAL DEPTH : m LOGGED BY : T. Pollock

DEPTH (m)	ALTERATION				FRACTURING	MINERALS	GEOLOGY	COMMENTS:	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (m)	ASSAYS				
	SILICA	SERICITE	CLAY	SEC RED													CHL/EPID	% Cu	% Mo		
150																					
151																					
152																					
153																					
154																					
155																					
156																					
157																					
158																					
159																					
160																					
161																					
162																					
163																					
164																					
165																					

COMPOSITE DRILL LOG

CORE SIZE : *NQ* SCALE : *1:100* PROJECT : *Poplar* HOLE No. : *PC-57*
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : *April 25/81* PAGE No. *12* OF
 COORDINATES : *6100* N. *12400* E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : *-90°* AZIMUTH : TOTAL DEPTH : m LOGGED BY : *T. Pollock*

DEPTH (m)	ALTERATION				FRACTURING	MINERALS	GEOLOGY	COMMENTS:	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (m)	ASSAYS			
	SILICA	SERICITE	CLAY	SEC BJO													CHL / EPID	% Cu	% Mo	
165																				
166																				
167		<i>weak</i>																		
168																				
169																				
170																				
171																				
172																				
173																				
174																				
175		<i>weak</i>																		
176																				
177																				
178		<i>mod</i>																		
179		<i>weak</i>																		
180		<i>mod</i>																		

DRILLING INTERVAL
 % CORE RECOVERED
 % SULPHIDES
 % ESTIMATED
 SAMPLE No.
 % SAMPLE RECOVERED
 SAMPLE INTERVAL (m)

NIL EXCEPT 1-2% IN STRONG BRECCIAS

NO SAMPLE

DESCRIPTIVE GEOLOGY

Biotite-Quartz-Feldspar Porphyry Dyke

0.8m breccia of dyke

fragments in a black matrix of qtz, mag, fine py, carb

0.2cm rock mt.

166.2-167.2m - matrix is dark red and has taken on a rhyodacite appearance w small laths of feldspar.

highly fractured + chloritized BQFP dyke with common dark green fragments.

0.3cm carb in matrix + py + feldspar mag. plus gal. - locally the rock is red from hem and clay & gouge zones common. gyp is also common.

highly fractured, some clay gouge & breccia - 167.7 5m clay gouge

intermixed BQFP as above mixed w dark red rhyodacite looking rock.

0.3cm carb vult

high breccia + clay

fragments BQFP -> 2% mag, py + trace py in matrix + fragments

highly fractured - feldspar dk. green - highly chloritized + carb.

little veining except for the occasional qtz or carb unit. - fractures are coated w clay

↳ avg. 1/10cm.

30cm breccia @ 20° w py, mag, trace cp

COMPOSITE DRILL LOG

CORE SIZE : NQ SCALE : 1/100 PROJECT : Poplar HOLE No. : PC-57
 CASING COLLAR ELEV. : GROUND ELEV. : DATE STARTED : April 25/81 PAGE No. 13 OF
 COORDINATES : 6100 N. 12400 E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : -90° AZIMUTH : TOTAL DEPTH : m LOGGED BY : T. Bllock

DEPTH (m)	ALTERATION				FRACTURING MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	ESTIMATED % Cu	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (m)	ASSAYS			
	SILICA	SERPENTINE	CLAY	FEEL, BFD												CHE/KE/IO.	% Cu	% Mo	
180							Quartz Feldspar Porphyry to												
181							Rhyodacite Dyke continued.												
182							-dyke varies from a beige to dk burn-red colour.												
183	weak	weak					-basically similar comp. but to white plug in the creamy matrix & red plug in the dk burn matrix.												
184							-trachytic texture easily seen in dk rk.												
185							-highly fractured sections common												
186							-little veining.												
187							-bio phenos have disappeared												
188							15cm ground rock - clay gouge												
189	weak						← fragments avg < 1cm ² w no mineralization, mafic.												
190							Rhyodacite												
191							30cm breccia												
192							-similar to above but plug lathe are easily seen in both the light & dark matrix.												
193	weak						-occasional bio phenos visible												
194							-minor mag & horn in dyke nil sulfides												
195	weak						-fragments are BQFP												
							0.3m carb vault. Biotite Quartz Feldspar Porphyry dyke												
							-the dyke has progressed to its starting comp w the bio phenos.												
							common fracture * @ 70°												
							-generally beige with common BQFP fragment - no mineralization.												

COMPOSITE DRILL LOG

CORE SIZE : *NQ* SCALE : PROJECT : *Poplar* HOLE No. : *PC-57*
 CASING COLLAR ELEV. : GROUND ELEV. : DATE STARTED : *April 25/81* PAGE No. *14* OF
 COORDINATES : *6100 N. 12400 E.* DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : *-90°* AZIMUTH : TOTAL DEPTH : LOGGED BY : *T. Pollock*

DEPTH (M)	ALTERATION				FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS			
	SILICA	SERICITE	CLAY	FeL BJO													CML /EPSP	% Cu	% Mo	
195																				
196																				
197																				
198																				
199																				
200																				
201																				
202																				
203																				
204																				
205																				
206																				
207																				
208																				
209																				
210																				

COMPOSITE DRILL LOG

CORE SIZE : NQ SCALE : 1/1100 PROJECT : Poplar HOLE No. : PC-57
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : April 25/81 PAGE No. 16 OF
 COORDINATES : 6100 N. 12400 E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : -90° AZIMUTH : TOTAL DEPTH : m LOGGED BY : T. Pollock

DEPTH (m)	ALTERATION				FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (m)	ASSAYS	
	SILICA	SERPENTINE	CLAY	SEC BIO													CAL / EPID	% Cu
225							0.1 cm qtz - gyp unit in mag 4/2" B									225		
226								- weak, locally mod qtz-py stockwork commonly w/ hemat mag in unts.									0.28	0.002
227								- best ep where the ik has a washed out sil appearance, phanos become part of the matrix.										
228								1 cm qtz in py ep associated gyp								228		
229								- ep is diss. as well as in the unts & - mod phyllic alt.										
230								common fracture & @ 70° ang 1/20 cm									0.26	0.002
231																		
232								minor ep in breccia 2cm gauge zone								231		
233								weak stockwork of qtz-py unts with ep + hem.									0.36	0.001
234								0.4 cm qtz in B py/ep/hem + mag										
235								- generally mottled dark green - weak - mod stockwork										
236								0.6 cm qtz in W py Two lam qtz py unts in ep, hemat mag										
237								- 40% pale green soft, subhedral plag phanos in a fairly sil. matrix. lg phanos are own & often fade into the matrix. mod phyllic alt.									0.34	0.001
238								breccia in half of core, each in along contact.										
239								- hem in qtz-py unts containing ep common 1cm gouges equal amts of ep in unts as well as diss.									0.28	0.001
240								0.6 cm qtz in W py + hem 0.3 cm qtz in W good ep.										

COMPOSITE DRILL LOG

CORE SIZE : *NQ* SCALE : *1:100* PROJECT : *Poplar* HOLE No. : *PC-57*
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : *April 25/81* PAGE No. *17* OF
 COORDINATES : *6100 N. 12400 E.* DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : *-90°* AZIMUTH : TOTAL DEPTH : LOGGED BY : *T. Pollock*

DEPTH (M)	ALTERATION					FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS			
	SILICA	SERICITE	CLAY	SEC BIO	CHL/EPID													% Cu	% Mo		
240									<i>Biotite Feldspar Porphyry</i> <i>Contact @ 25°</i>												
241									<i>Biotite Quartz Feldspar Porphyry Dyke</i>												
242						<i>weak - mod</i>			<i>QZFP</i> <i>0.5cm clay gouge</i> <i>-3% green-bun anhedral avg 2mm² ser-carb</i> <i>alt bio</i>			<i>Trace</i>									
243						<i>weak</i>			<i>0.1cm mag mlt.</i> <i>25% anhedral soft ser-cht alt phy phenos</i>												
244						<i>mod fractured</i>			<i>2% rounded qtz phenos.</i> <i>-very few uns</i>												
245																					
246																					
247																					
248									<i>20cm ground rkt + clay gouge</i>												
249									<i>2.5 cm breccia @ 25°</i>												
250									<i>0.3cm gouge</i>												
251						<i>mod</i>															
252						<i>trace hem</i>			<i>rare hem and mag mlt.</i>												
253																					
254																					
255									<i>4cm ground + clay gouge</i> <i>Contact irregular ≈ 40°</i>												

COMPOSITE DRILL LOG

CORE SIZE : NQ SCALE : 1/100 PROJECT : Poplar HOLE No. : PC-57
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : April 25/81 PAGE No. 18 OF
 COORDINATES : 6100 N. 12400 E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : -90° AZIMUTH : TOTAL DEPTH : LOGGED BY : T. Pollock

DEPTH (m)	ALTERATION				FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED Cu	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (m)	ASSAYS			
	SILICA	SERICITE	CLAY	SPL. BIO													CW/EPID	% Cu	% Mo	
255								0.6 cm gtz in w								255				
256								cp, hem + mag.												
257	strong	mod	weak	weak	weak			1cm gtz-py in to cp												
258								minor hem												
259																				
260								0.9 cm gtz in w py cp.												
261								weak mag-hem unit												
262								best mineralization where there is												
263								white sub-hedral plg phenos, 3-10%												
264								dark grey matrix,												
265								primary bio is blk. to glass-like, also fine												
266								diss. blk sec. bio.												
267								mag-hem both in stockwork + diss.												
268								common.												
269								gtz-py units common. cp both in matrix												
270								+uns.												
								-mod phyllic alt.												
								1cm gouge zone												
								strong gtz veining												
								often 2cm w cp.												
								1.5 cm gtz in w cp												
								good cp @ 264.8m. in gtz-py + cp												
								uns.												
								1cm clay gouge												
								0.3 cm py in												
								1cm gtz-py in.												
								-healy the rock has a sil. creamy												
								appearance which has good diss.												
								cp - it also looks as if has had												
								Minor pot. alt.												
								0.3 cm clay gouge												
								mag-hem units.												
								1cm un of gtz, py, cp, hem, cal												

COMPOSITE DRILL LOG

CORE SIZE : 1 1/4 SCALE : PROJECT : Poplar HOLE No. : PC-57
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : April 25/81 PAGE No. 19 OF
 COORDINATES : 6100 N. 12400 E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : -90° AZIMUTH : TOTAL DEPTH : LOGGED BY : J. Pollock

DEPTH (m)	ALTERATION				FRACTURING	MINERALS	GEOLOGIC	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (m)	ASSAYS	
	SILICA	SERPENTINE	CLAY	SOIL													% Cu	% Mo
270							1cm qtz-py un									270		
271							6.5cm qtz-py un w mag hemat.											
272	strong	mod	weak	weak	weak		1cm qtz un to py/cp mag hemat.											
273							1cm qtz un to py/mag											
274							0.7cm qtz un to py cp, mag, mo											
275							0.3cm qtz-py cp un											
276																		
277																		
278	strong	weak-med	weak	locally mod	locally mod		1cm qtz un to py/cp											
279							2cm gangue zone 1.2cm qtz un to py hemat											
280							1cm qtz un to py hemat, cp, mag											
281																		
282							high qtz zone to strong cp to mag 2cm qtz un to py, cp, mag, sil											
283																		
284																		
285							0.6cm qtz un to sil, cp, mag, sil?											

COMPOSITE DRILL LOG

CORE SIZE : NQ SCALE : 1:100 PROJECT : Poplar HOLE No. : PC-57
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : April 25/81 PAGE No. 21 OF
 COORDINATES : 6100 N. 12400 E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : -90° AZIMUTH : TOTAL DEPTH : m LOGGED BY : T. Pollock

DEPTH (m)	ALTERATION				FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (m)	ASSAYS			
	SILICA	SERICITE	CLAY	SEC BIO													CHE/LEPID	% Cu	% Mo	
300																300				
301		weak	weak					Quartz Feldspar Porphyry Dyke												
302		weak	weak					-20% pale green plagioclase (soft, subhedral)										0.01	0.002	
303								-2% rounded qtz phenos												
304								Common fracture x @ 50°, minor ones to CA.												
305								-matrix creamy beige, quite hard with minor light feldspar laths. -occasional breccia fragment of homogeneous light green material present near top of dyke - not BFP.											0.08	0.002
306								Contact sharp @ 15°												
307								0.2cm qtz on top												
308								Biotite Feldspar Porphyry												
309								rock varies from a beige colour → beige matrix with specks + soft in subhedral white plagioclase phenos - very soft to brown bio for greenish coloured rock to green plagioclase + gr-brown matrix (quite hard).												
310																				
311								brecciation (sometimes in no matrix) + gouges common.												
312								0.4cm mag-qtz on												
313								2cm gouge 0.2cm qtz-mag int. strong qtz on stockwork												
314								0.2 cm py on												
315																				

Believe there is error in sampling at 314

COMPOSITE DRILL LOG

CORE SIZE : *NQ* SCALE : *1:100* PROJECT : *Poplar* HOLE No. : *PC-57*
 CASING COLLAR ELEV. : GROUND ELEV. : DATE STARTED : *April 25/81* PAGE No. *23* OF
 COORDINATES : *6100 N. 12400 E.* DATE FINISHED : *April* REF. TO CLAIM CORNER :
 INCLINATION : *-90°* AZIMUTH : TOTAL DEPTH : *456.3 m* LOGGED BY : *T. Pollock*

DEPTH (M)	ALTERATION				FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS				
	SILICA	SERICITE	CLAY	SEC BIO													CAL EPID	% Cu	% Mo		
330																					
331					<i>weak</i>			<i>Biotite Quartz Feldspar Porphyry Dyke</i>													
332								<i>2cm gouge similar to above.</i>													
333	<i>weak</i>		<i>in gouges</i>	<i>weak</i>	<i>strong</i>	<i>trace mag</i>		<i>10cm gouge mag plus gal? crack highly broken many gouges + clay 20cm gouge</i>				<i>Ni</i>									
334																					
335																					
336																					
337																					
338					<i>mod.</i>	<i>mag</i>		<i>low mag int 0.7 cm gouge - bio phases alt to ser + carb - matrix still greenish-brown, very little kinking + sulfides. - plg phases dk green + soft. - alt to ser + minor clay.</i>				<i>Ni</i>									
339								<i>0.2 cm gty-mag int.</i>													
340																					
341																					
342								<i>4cm gouge</i>				<i>Trace</i>									
343	<i>weak</i>				<i>weak</i>	<i>trace py mag</i>															
344																					
345																					

COMPOSITE DRILL LOG

CORE SIZE : 1 1/4 SCALE : 1/100 PROJECT : Poplar HOLE No. : PC-57
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : April 25/81 PAGE No. 26 OF
 COORDINATES : 6100 N. 12400 E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : -90° AZIMUTH : TOTAL DEPTH : 456.3 m LOGGED BY : T. Pollock

DEPTH (M)	ALTERATION				FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS					
	SILICA	SERICITE	CLAY	SEC BIO													CAL LEPID	% Cu	% Mo	% Fe	% Pb	% Zn
375																375						
376	very strong	mod			weak		0.5cm py, mag, cp va	Biotite Feldspar Porphyry														
377							1.5cm qtz vein w py, cp gal, sph	-strong to very strong (70% milky qtz) silicification				19%		28781C				1.06	0.001	7.14	0.02	0.02
378							parallel veining of qtz w cp, py + mag	-mag + cp varies directly w SiO2														
379							0.3cm py va w cp															
380							0.2cm mag w py, cp	plag phans between qtz veining very fine white (very soft) to pale green (mod. soft). avg 3mm across														
381							0.2cm py va w cp	-bio occurs as pale brown ghosts (occasional) all sericite.														
382							1cm qtz vein w py, gal, sph & cuts all vns.	avg comp: 30-35% plag, 55% qtz, 5% ser 3% bio, 1-4% mag, .5% horn, .6% cp														
383	strong	mod			weak		0.4cm py va															
384							parallel qtz veining															
385																						
386							0.5cm qtz vein w py, cp w WO3?															
387							10cm broken zone															
388							0.5cm qtz - py vein w cp	still strong silicification mineralization + mag. has died off slightly.														
389							py, cp stringers in qtz also mag from, WO3 1cm galge															
390								Contact sharp @ 40°														

COMPOSITE DRILL LOG

CORE SIZE : NQ SCALE : 1:100 PROJECT : Poplar HOLE No. : PC-57
 CASING COLLAR ELEV. : GROUND ELEV. : DATE STARTED : April 25/81 PAGE No. 27 OF
 COORDINATES : 6100 N. 12400 E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : -90° AZIMUTH : TOTAL DEPTH : 456.3 m LOGGED BY : T. Pollock

DEPTH (m)	ALTERATION					GEOLOGY	COMMENTS	AVG. CORE RECY/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (m)	ASSAYS	
	SILICA	SERICITE	CLAY	SEC. BFO	CHL/EPID											% Cu	% Mo
390							'Late Phase' BFP										
391							-10-15% subhedral plagiophenos (green)										
392	weak						fragments both dyke + BFP - minor py. pale green mod hard matrix.			Trace							Not sampled
393							Contact ? - little veining, or sulfides										
394							Biotite Feldspar Porphyry up in blobs 2cm wide generally similar to above										
395	strong mod																
396	weak						QFP dyke										
397							0.5cm clay gouge @ contact Contact sharp @ 90°										
398							Biotite Quartz Feldspar Porphyry Dyke 'Late Phase'										
399							0.3cm qtz va -15-20% anhedral, mod soft, green plagiophenos, -2-3% sub-ehedral bio phenos, mainly alt to ser										
400							-1% rounded qtz phenos -occasional qtz va										
401																	
402							0.2cm qtz-py va										
403																	
404	mod. weak						more plagiophenos are becoming white in colour - are very soft - more clay										
405							more gal in qtz										

COMPOSITE DRILL LOG

CORE SIZE : NQ SCALE : 1/100 PROJECT : Poplar HOLE No. : PC-57
 CASING COLLAR ELEV. : GROUND ELEV. : DATE STARTED : April 25/81 PAGE No. 28 of
 COORDINATES : 6100 N. 12400 E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : -90° AZIMUTH : TOTAL DEPTH : 456.3 m LOGGED BY : T. Pollock

DEPTH (m)	ALTERATION				FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (m)	ASSAYS	
	SILICA	SERICITE	CLAY	SEC BIO													CAL / EPID	% Cu
405								Biotite Quartz Feldspar Porphyry Dyke										
406								"Late Phase"										
407		mod	weak		weak						Trace							
408						mod		0.5 cm plz in w py, mag, horn, cp, lim ew of dark horn matrix. rare										
409																		
410																		
411								plg phases through here are mainly dark green in colour some have sil. centers										
412						mod		10cm gauge 0.5cm gauge										
413																		
414																		
415								plg phases are dark green, soft.										
416								Fracture @ 25° w py + Mo?										
417											Trace							
418								0.2cm plz in w cp + py										
419								0.1cm plz in w cp + py.										
420																		

COMPOSITE DRILL LOG

CORE SIZE : NQ SCALE : 1/100 PROJECT : Poplar HOLE No. : PC-57
 CASING COLLAR ELEV. : GROUND ELEV. : DATE STARTED : April 25/81 PAGE No. 29 OF
 COORDINATES : 6100 N. 12400 E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : -90° AZIMUTH : TOTAL DEPTH : 456.3 m LOGGED BY : T. B. Hock

DEPTH (M)	ALTERATION					FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS	
	CLAY A	SERPENTINE	CLAY	SEC. BIO	CHL / EPID													% Cu	% Ni
420									DESCRIPTIVE GEOLOGY										
421									Biotite Quartz Feldspar Porphyry Dyke 'Late Phase'										
422						weak			very sil matrix, washed out look			Trace			NO SAMPLE		423		
424									gal, sph, py + cp in matrix also w/ox? Contact @ start of breccia @ 50°				.2 1/2 in dyke		28789C			0.41	0.002
425									Biotite Feldspar Porphyry										
426	med								plag + bio phenes in a sil matrix many mag-horn vults, sp finely diss.			5%				426			
427																			
428									Contact @ 40° Biotite Quartz Feldspar Porphyry Dyke										Not sampled
429									minor sph, gal + py -25% sub-ehedral plag phenas mag in a broken gtz vtr 2-3 mm white to green							429			
430									-2% horn bio, 1% rounded gtz eyes										
431																			
432	weak								0.2% gtz in mag			Trace				432			
433						med													
434									contains fine diss mag.										Not sampled
435									0.4% of gng + breccia										

COMPOSITE DRILL LOG

CORE SIZE : *NQ* SCALE : *1:100* PROJECT : *Poplar* HOLE No. : *PC-57*
 CASING COLLAR ELEV.: : GROUND ELEV.: : DATE STARTED : *April 25/81* PAGE No. *30* OF
 COORDINATES : *6100 N. 12400 E.* DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : *-90°* AZIMUTH : : TOTAL DEPTH : *456.3 m* LOGGED BY : *T. Pollock*

DEPTH (M)	ALTERATION				FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS			
	SILICA	SERPENTINE	CLAY	SEC BIO													CHL / EPID	% Cu	% Mo	
435																				
436																				
437																				
438																				
439																				
440																				
441																				
442																				
443																				
444																				
445																				
446																				
447																				
448																				
449																				
450																				

Biotite Quartz Feldspar Porphyry Dyke

*20cm zone of broken rock.
10cm broken rock similar to above.*

0.9cm qtz in w py. 'Late Phase'

0.5cm qtz zone in py

2cm gouge.

Fracture @ 10° to clay + chl.

0.2cm qtz in w gal + py.

0.5cm clay - qtz zone to minor gal.

- locally 1% py in silicified zones.

- matrix beige, aphanitic, hard

- 25% subhedral white to pale green plag phenos.

- 2% bio

Trace locally

NO SAMPLE

NO SAMPLE

locally mod.

weak trace py.

trace py.

mod

weak

weak

CORE SIZE : *NQ* SCALE : *1:100* PROJECT : *Paplar* HOLE No. : *57*
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : *April 25/81* PAGE No. *31* OF
 COORDINATES : *6100 N.* E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : *-90°* AZIMUTH : TOTAL DEPTH : *456.3* m LOGGED BY : *T. Pollock*

DEPTH (m)	ALTERATION				FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (m)	ASSAYS				
	SILICA	SEALITE	CLAY	SEC BTO													CHL LEPTD	% Cu	% Mo		
450																					
451	<i>locally and</i>	<i>weak</i>			<i>weak</i>			<i>Biotite Quartz Feldspar Porphyry Dyke</i>													
452	<i>weak</i>				<i>weak</i>			<i>"Late Phase"</i>				<i>Trace</i>		<i>28791C</i>							
453					<i>weak</i>			<i>1mm qtz-py in highly broken</i>													
454					<i>weak</i>			<i>Contact sharp @ 45°</i>													
455	<i>weak</i>				<i>mod</i>			<i>Quartz Feldspar Porphyry Dyke</i>						<i>28792C</i>							
456					<i>M/</i>			<i>10% rounded qtz eyes</i>				<i>N/1</i>									
								<i>10% green subhedral soft pty phases</i>													
								<i>0.5 cm gouge.</i>													
								<i>3.5 cm gouge.</i>													
								<i>-green aphanitic matrix. irregular patches of carb.</i>													
457								<i>End of hole 456.3 m.</i>													

D.D.H. - PC-58

COMPOSITE DRILL LOG

CORE SIZE : NQ wireline SCALE : 1:100 PROJECT : Poplar HOLE No. : PC 58
 CASING COLLAR ELEV. : 920.2 m GROUND ELEV. : 920.0 m DATE STARTED : April 30, 1981 PAGE No. 1 OF 21
 COORDINATES : 6298.43 N. 12307.43 E. DATE FINISHED : May 2, 1981 REF. TO CLAIM CORNER : Poplar 13
 INCLINATION : -090° AZIMUTH : TOTAL DEPTH : 306.9 m LOGGED BY : G.L. Holland

DEPTH (M)	ALTERATION			FRACTURING	MINERALS	GEOLOGY	COMMENTS:	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS						
	SILICA	SERICITE	CLAY													SEC. BIO.	Cu %	Mo %				
0							0-0.31 STICK-UP															
0.31							0.31 - 10.36m OVERBURDEN															
10.36							BIOTITE-FELDSPAR PORPHYRY - crowded, dark grey color matrix, porphyry - comp - 60% phenos - 59% plag → clay - 1cm qtz-carb vult. - 40% groundmass - silica sericite - biotite phenos are completely destroyed only relics remain. - plag phenos have a pale to dark green color, depending on the sericite content - lot of silica in the matrix and around H/L units + fractures - rock is very badly broken up to a depth of 20cm - numerous H/L py vults - qtz s/v weakly developed - minor hematitic staining near surface - rx mod old - weak phyllic phase															
12	strong	strong	weak to moderate	strong	py-cpx-MoS ₂						3 1/2%	0.01% Mo 0.15% Cu	28092C		10.36	0.07	0.001					
15													28093C		12	0.08	0.001					
15															15							

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-58
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 2 OF 21
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : m LOGGED BY :

DEPTH (M)	ALTERATION				FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS			
	SILICA	SERICITE	CLAY	SEC BIO													Cu %	Mo %		
15	strong	strong	moderate		strong		DESCRIPTIVE GEOLOGY BIOTITE - FELDSPAR PORPHYRY cont. * epy mainly disseminated									15	0.07	0.001		
20							1cm py unit. * Periodic zones of intense silica and sericitic alt'n. 0.5cm py unit. 1.5cm py unit. Qtz s/w moderately developed									18	0.08	0.001		
25							1cm qtz unit. 2x 2cm gouge zones 1cm qtz unit. 0.8cm py unit. Most of fractures are clay filled.									21	0.06	0.001		
30							1cm qtz unit. gouge zone w clay. 0.8cm epy unit. 10cm gouge zone w qtz + clay									24	0.07	0.001		
																27				
																30	0.23	0.001		

CORE SIZE :
 CASING COLLAR ELEV. :
 COORDINATES : N. E.
 INCLINATION :

SCALE :
 GROUND ELEV. :
 AZIMUTH :

PROJECT : *Poplar*
 DATE STARTED :
 DATE FINISHED :
 TOTAL DEPTH : m

HOLE No. : *PC-58*
 PAGE No. *4* OF *21*
 REF. TO CLAIM CORNER :
 LOGGED BY :

DEPTH (M)	ALTERATION				FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED Cu	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS			
	SILICA	SERICITE	CLAY	SEC. DO													CHL	Cu %	Mo %	
45							DESCRIPTIVE GEOLOGY <u>QUARTZ FELDSPAR PORPHYRY cont.</u>													
							→ 1cm gouge zone													
50							→ 2cm gouge zone.													
5							→ 1cm gouge zone.													
10																				

< 0.05%

Nil

Not sampled

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-58
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 6 OF 21
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : m LOGGED BY :

DEPTH (M)	ALTERATION				FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE RECY/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	Cu % ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS			
	SILICA	SERICITE	CLAY	SEC. BLD													CHL.	Cu %	Mo %	
75							75.2m Gradational Contact <u>BIOTITE - FELDSPAR PORPHYRY</u>									75	Cu %	Mo %		
							3cm qtz unit. 77.2-77.6 - shear zone w chl. - mod cemented shear zone Contact @ 30° to C.A. Q.F.P Dyke. 77.6-78.0 - PMD - Quartz-Feldspar Porphyry 78.0-78.3 - Breccia - QFP frags in B.P.				2%	40.1%	28101C			78	0.07	0.002		
80	strong	strong	moderate (pheno)		moderate		2x1.5cm qtz unit w py Description - crowded porphyry - comp - 75% pheno - 73% plag → clay → sericite - 2% relic bio + ser. - 25% groundmass - silica + sericite - only relic bio present - plag pheno range from white to pale green depending on composition - clay alt'n confined to pheno - numerous 1/4 py units - qtz s/w weak to moderate - groundmass is dk grey to tan color - strong silica flooding around fets and units. - alt'n intensity mod - phyllic phase				3%	0.15%	28102C			81	0.06	0.002		
							1cm qtz s/w. 0.8cm gyp unit					0.15%	28103C			84	0.08	0.004		
							0.8cm gyp unit. 83.0 - start of gypsum vining - very weak.									87	0.07	0.004		
							1.5cm gyp. unit. cpy mainly found as disseminations and lesser in fets + units.									87				
							0.7cm py unit									87				
							0.8cm gyp unit. 88.0 - 1st appearance of fresh bio books - rock becomes less porphyritic pheno 35-40% of rock Matrix has a tan color. - fracturing becomes weak - silica in groundmass - intense, pheno become quite indistinct - stronger alt'n intensity - qtz s/w weakly developed. - increase in Cu content					0.18%	28105C			90	0.07	0.002		

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-58
 CASING COLLAR ELEV. : GROUND ELEV. : DATE STARTED : PAGE No. 9 OF 21
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : M LOGGED BY :

DEPTH (M)	ALTERATION SILICA SERICITE CLAY SEC. BIO	FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED Cu	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS	
														Cu %	Mb %
120	very strong	moderate to strong	py-cpy-(MoS ₂)-hem.	BIOTITE - FELDSPAR PORPHYRY cont.	numerous n/l gyp units Rock often has a weak red hematitic staining 1.5cm gtz unit py. 1cm gyp unit. Qtz s/w mod to strongly developed.			2 1/2 - 3%	0.10%	28116C		120	0.10	0.003	
125	strong	moderate to strong	py-cpy-(MoS ₂)-hem.	Alt's intensity is very strong, original texture and phenos are completely destroyed.	mod cemented shear zone. 1.5cm gtz unit. 1cm gtz unit.			2 1/2 - 3%	0.10%	28117C		123	0.15	0.005	
126	very weak	moderate to strong	py-cpy-(MoS ₂)-hem.		0.7cm gtz-carb unit zone of strong hem vining			2 1/2 - 3%	0.10%	28118C		126	0.13	0.003	
130	mod to strong	moderate to strong	py-cpy-(MoS ₂)-hem.	129.2 - Rock takes on an intermittent black-green color. Varies with amount of sec. bio and sericite in the matrix.	0.7cm gyp unit 1cm gtz unit 1cm py unit.			1/2 - 2%	0.10%	28119C		129	0.09	0.006	
135	mod to strong	moderate to strong	py-cpy-(MoS ₂)-hem.	134.6m - End of sec. bio. alt's	1cm gyp unit 0.7cm gtz unit.			1/2 - 2%	0.10%	28120C		132	0.12	0.005	

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-58
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 10 OF 21
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : LOGGED BY :

DEPTH (M)	ALTERATION				FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE NO.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS			
	SILICA	SERICITE	CLAY	SEC. B.I.D.													Cu %	Mo %		
136	↑	↑	↑	↑			BIOTITE - FELDSPAR PORPHYRY cont													
							- Qtz s/w moderately developed						0.10%	28121C				0.09	0.003	
							→ Intense Hlpy units													
							→ 1.8cm Qtz unit w minor gyp.													
							→ 2cm gouge zone	- strong silica flooding around the fts = vnlts.												
140								- strong gypsum uning					0.10%	28122C				0.09	0.005	
							→ 1cm py unit.													
							→ 1cm Qtz unit.	- Rock is very strongly altered - upper phyllic alt'n phase												
							→ 1cm Qtz unit.													
							→ 4cm gouge zone.	- Minor pink hematite staining												
145													0.10%	28124C				0.10	0.015	
							→ 1cm Qtz unit.													
							→ 1.5cm Qtz unit w gyp.													
							→ 1cm Qtz unit.													
150													0.10%	28125C				0.11	0.018	

strong
strong
weak

strong
PY - CPY - (Hem) - (Ms)

2%

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-58
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 12 OF 21
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : LOGGED BY :

DEPTH (m)	ALTERATION				FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (m)	ASSAYS			
	SILICA	SERICITE	CLAY	SEC BIO													Cu %	Mo %		
165							<p>QUARTZ-FELDSPAR-(BIOTITE) PORPHYRY cont</p> <p>* periodic frts filled with chlorite and they often have a slight breccia texture with frags of Pmp</p> <p>→ 1cm chl with</p> <p>← 2cm with brecciation</p>													
170	moderate				weak	py														
							<p>→ 1.8cm gouge zone.</p> <p>→ 2x2cm chl 5 box.</p>													
175	weak				weak		<p>174.3m Gouge contact @ 45° to C.A</p> <p>TRACHYTIC RHYODACITE DIKE</p> <p>- color ranges from dk brn to pale green.</p> <p>- strong trachytic texture</p> <p>- porphyritic feature.</p> <p>- 5% fspar. lathes</p> <p>- 45% qtz + fsp phenos</p> <p>- "qtz-eyes"</p> <p>- came in after Q.F.B.P.</p>													
180	mod				str		<p>179.4m shear zone contact</p> <p>QUARTZ-FELDSPAR-(BIOTITE) PORPHYRY</p>													

< 0.5%
N/A

Not Sampled

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-58
 CASING COLLAR ELEV. : GROUND ELEV. : DATE STARTED : PAGE No. 14 OF 21
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : m LOGGED BY :

DEPTH (m)	ALTERATION				FRACTURING MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (m)	ASSAYS			
	SILICA	SERICITE	CLAY	SEC. BIO.												CHLORITE	Cu %	Mo %	
195	strong	mod to strong	weak	weak	strong	py-cpy-MoS	BIOTITE - FELDSPAR PORPHYRY cont 1cm gouge zone 1cm qtz vnt. 1.3cm qtz vnt. Discrip - crowded porphyry - comp - 40% phenos - 37% plag → ser - 3% bio → ser - 60% g.m - silica + ser. - bio phenos completely alt'd. - qtz s/w mod developed - minor gypsum vnits - matrix - tan to pale green color - phenos range up to 5mm in size - minor hem staining of fspars. - silica flooding around frts; vnits. - alth intensity mod - upper phyllite.							0.20%	28132C		195	0.11	0.004
200	strong	mod to strong	weak	weak	strong	py-cpy-MoS	1cm gouge zone 3cm qtz vnt. 2cm gouge zone Periodic bxx zones w BFP frags in a dk green chl f silica matrix. 1.5cm gyp vnt.				3%	0.25%	28133C		201	0.12	0.004		
205	strong	mod to strong	weak	weak	strong	py-cpy-MoS	1.5cm bxx zone 1cm gouge zone 2cm gouge zone bxx w chl. 1cm gouge zone 1cm qtz vnt.				3%	0.25%	28134C		204	0.13	0.004		
210	strong	mod to strong	weak	weak	strong	py-cpy-MoS	weak bxx 2cm qtz vnt. gouge zones. bxx zone 1cm qtz vnt w py.				3%	0.30%	28135C		207	0.13	0.004		
210	strong	mod to strong	weak	weak	strong	py-cpy-MoS	1cm qtz vnt w py.				3%	0.20%	28136C		210	0.14	0.006		

COMPOSITE DRILL LOG

CORE SIZE :	SCALE :	PROJECT : Poplar	HOLE No. : PC-58
CASING COLLAR ELEV.:	GROUND ELEV.:	DATE STARTED :	PAGE No. 16 OF 21
COORDINATES : N. E.		DATE FINISHED :	REF. TO CLAIM CORNER :
INCLINATION :	AZIMUTH :	TOTAL DEPTH : m	LOGGED BY :

DEPTH (m)	ALTERATION				FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE RECY/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (m)	ASSAYS			
	SILICA	SERICITE	CLAY	SEC BIO													CHLORITE	Cu %	Mo %	
225								BIOTITE - FELDSPAR PORPHYRY cont								225				
								* Qtz slw mod. developed									0.12	0.004		
								228.5 - 229.5 - str. brex - with silica - chl matrix and B.F.P. frags.								229				
								230.4 - 230.6 - Breccia									0.13	0.004		
230								231.0 - 231.6m - Breccia								231				
								* Alt's intensity - strong - upper phyllic.			3%						0.13	0.008		
								6cm gouge zone									0.10	0.004		
235								237.5m Gauge contact @ 50° to CA								237				
								TRACHYTIC RHYODACITE (PMD)												
								- dark brn color									0.01	0.002		
								- strong trachytic texture - fspar lathes												
								- contains 9% pink fspar phenos.												
								- traces of Qtz phenos												
								- frtng weak												
								- pink staining - hematite												
								- minor disc hematite												
240																240				

COMPOSITE DRILL LOG

CORE SIZE :	SCALE :	PROJECT : Poplar	HOLE No. : PC-58
CASING COLLAR ELEV.:	GROUND ELEV.:	DATE STARTED :	PAGE No. 17 OF 21
COORDINATES : N. E.		DATE FINISHED :	REF. TO CLAIM CORNER :
INCLINATION :	AZIMUTH :	TOTAL DEPTH :	LOGGED BY :

DEPTH (M)	ALTERATION				FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED Cu	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS			
	SILICA	SERICITE	CLAY	SEC. BIO													Cu %	Mo %		
240							TRACHYTIC RHYODACITE cont.													
							→ 25cm gouge zone.													
							1st sign of green-tan color is as salvage in vats & fits													
							2420 - color gradually changes to a pale tan/gray color - trachytic texture gradually disappears and qtz eyes become more prominent													
245							All evidence shows that the difference between these phases is gradual and are probably the same dyke in a chemical difference and textural difference.													
250																				
255																				

20.5%
nil.

Nox Sampled

weak

weak

Hem

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-58
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 18 OF 21
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : m LOGGED BY :

DEPTH (M)	ALTERATION			FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS			
	SILICA	SERICITE	CLAY													Cu %	Mo %		
255							TRACHYTIC RHYODACITE cont.												
							* DK. brn color w the trachytic texture occasionally appears												
							phenos partially altered												
260																			
							→ 20cm gauge zone.												
265																			
							266.5-272.0 - Periodic sections of BFP frags in a PMD, matrix - strong brx.												
							brx zone												
							brx zone												
							brx zone.												
270																			

20.5%
Nil

Not Sampled

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-58
 CASING COLLAR ELEV. : GROUND ELEV. : DATE STARTED : PAGE No. 19 OF 21
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : m LOGGED BY :

DEPTH (M)	ALTERATION			FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS			
	SILICA	SERICITE	CLAY													Cu %	Mo %	Pb %	
270				weak	Hem		<u>RHYODACITE cont.</u> contact zone w frags of WFP and 271.G-272 - Rhyodacite in a dk grn matrix (chl.) Burr contact 272.0m Brecciated contact @ 45° to C.A. 45° to C.A.												
275				strong			<u>QUARTZ-FELDSPAR PORPHYRY</u> - olive green matrix - silicious matrix - comp - 15-20% phenos - 10-12% plag - 5-8% qtz - "qtz eyes" are generally rounded to subrounded - 2mm diameter - plag phenos have been plucked out on surface by drilling but are fresh inside to core. - strong pitted texture. - minor galena along H/L frts and as disseminations. - minor diss. py near contact but dies out away 1cm gouge zone							28147C		275	0.01	0.002	
278				weak	galena						40.5%	Nil			278				
280																			
285							10 cm gouge zone.												

Not Sampled

Not Sampled

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-58
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 20 OF 21
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : m LOGGED BY :

DEPTH (M)	ALTERATION			FRACTURING MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS	
	SILICA	SERICITE	CLAY												Cu %	Mo %
285						QUARTZ - FELDSPAR PORPHYRY cont.				40.5%	Nil					
290																
295																
300																

weak Hem - Mt

2cm gouge zone.

1cm gouge zone.

Nox sampled

D.D.H. - PC-60

COMPOSITE DRILL LOG

CORE SIZE : NQ wireline SCALE : 1:100 PROJECT : Poplar HOLE No. : PC-60
 CASING COLLAR ELEV.: 904.0 m GROUND ELEV.: 903.85 m DATE STARTED : May 6, 1981 PAGE No. 1 OF 23
 COORDINATES : 5895.48 N. 12115.01 E. DATE FINISHED : May 9, 1981 REF. TO CLAIM CORNER : Poplar #5
 INCLINATION : -060° AZIMUTH : 090° TOTAL DEPTH : 334.4 m LOGGED BY : G.L. Holland

DEPTH (m)	ALTERATION			FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE RECY/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (m)	ASSAYS	
	Silica	Sericite	clay													sec. bio.	Cu %
0							DESCRIPTIVE GEOLOGY	97.7%									
							0 - 0.31m stick-up										
							0.31 - 9.1m Overburden										
							9.1 - 9.8m - Casing in Bedrock										
							9.8m										
10							9.8 - 11.3m - Trachytic Rhyodacite Contact @ 30' to O.A. sharp contact 11.3m - dark green to brn color, 15% spars & qtz phenos - strong trachytic texture due to large latitic minor hematitic staining of matrix		11.3	113%							
							11.3 - 24.1m QUARTZ-FELDSPAR PORPHYRY - olive green color, porphyritic texture - composition - 18% phenos - 8% pling - 7% qtz eyes - 76% matrix - aphanitic - qtz eyes - rounded - up to 6mm in diam. - fitting mod. - a lot of gouge zones - fspar pling - weakly etched - often plucked out from the drilling.			98%	<0.5%						
							2cm gouge zone										
							20m gouge zone										
							40m gouge zone										
15																	

No. X sampled

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-60
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 3 OF 23
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : LOGGED BY :

DEPTH (M)	ALTERATION				FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS	
	SILICA	SERICITE	CLAY	SEC. BIO.													Cu %	Mo %
30							str. H/L py uning											
							<u>FELDSPAR PORPHYRY - ARGILLITE INTERPHASE cont.</u>											
							- weak gypsum vning present											
							→ 0.6cm gouge zone - cemented.											
							→ 2cm py unit											
							→ 1cm py unit											
							str py uning											
35							35.4-37.0 - Breccia in a moderately cemented fault zone.											
							mod. cemented fault zone w/ p. argillite frags.											
							→ 2cm py unit											
							→ 1cm qtz unit											
							37.2m <u>FELDSPAR PORPHYRY</u>											
							→ 3cm py unit											
							- greenish-grey color											
							- strongly altered, phenos are obliterated or faint ghosts											
							- very strong silicification											
							- clay altn confined to phenos											
							→ 1.5cm qtz unit											
							40.5m contact @ 45° - minor gouge											
							<u>MICRITE - FELDSPAR PORPHYRY</u>											
							- with intensity decreases - phenos become distinct with fuzzy borders											
							- comp - 30-35% phenos - plagioclase → clay → sericite											
							→ 1cm qtz unit											
							→ 1.5cm py unit											
							SK - bio → ser. - silica + sericite											
							- silicification has decreased - mod to str.											
							- fracturing has drastically decreased.											
							- rock has a dark grey color.											
							- weak qtz sil											
							→ 0.7cm qtz unit.											
							→ 1cm py unit.											
45																		

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-60
 CASING COLLAR ELEV. : GROUND ELEV. : DATE STARTED : PAGE No. 4 OF 23
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : m LOGGED BY :

DEPTH (M)	ALTERATION				FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED Cu	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS	
	SILICA	SERICITE	CLAY	SEC. BIO.													Cu %	Mo %
45	m-s	m	wk		mod.	py-spy	BIOTITE FELDSPAR PORPHYRY cont.				5%							
46.3							contact @ 75° to C.A. SILICIFIED ARGILLITE			98		20.1%	28800C	98			0.01	0.003
							- tan to grey color - very strong silicification - strong fracturing - strong Mt py units - diss. py contained within the silicious zones											
							1cm py-gtz unit			47.8								
50							2.1cm py unit.			95		20.1%	28801C	95			2.001	0.002
							1.5cm qtz unit vugs.			52.9								
							1.3cm py unit.			96		20.1%	28802C	96			0.03	0.003
							1cm qtz unit contact			54								
55.0							55.0 - Contact zone of Argillite and Feldspar Porphyry - runs irregular - contains sections of R.P. and sections of argillite - contacts are sharp and sometimes gouged.			98		20.1%	28803C	98			0.03	0.004
							1cm gouge zone R.P. Contact zone			57								
							1cm gouge zone R.P.			88		5-8%	28804C	88			0.03	0.002
60							R.P.											

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-60
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 5 OF 23
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : m LOGGED BY :

DEPTH (M)	ALTERATION				FRACTURING	MINERALS	GEOLOGUE	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED Cu	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS	
	SILICA	SERICITE	CLAY	SEC. BIO.													Cu %	Mo %
60							<p>CONTACT ZONE OF F.P. & ARGILLITE.</p> <p>F.P. → 2cm gouge zone - greenish-grey color - strongly altered - phengs often destroyed - mod to str. fracturing - strong silicification - phengs generally 4-9mm - slot of 8mm? str filled py</p>		60-61	95	60-61	40.1%	28805C	95	0.02	0.002		
65							<p>→ 1cm gouge zone - silicification has decreased - mod to str</p> <p>* GYPSUM vining weakly developed.</p> <p>→ gauge contact</p> <p>→ 2x15cm str. py unit.</p> <p>Feld. Porph. becoming dominant rock type in sections of argillite.</p>		61-62	96	62-63	< 0.1%	28806C	96	0.05	0.002		
70							<p>Argillite 67.4m Gradational zone.</p> <p>F.P. <u>FELDSPAR PORPHYRY</u> - small sections of argillite present</p>		63-66	99	66-69	6-8%	28807C	99	0.06	0.002		
75							<p>→ Argillite. described above.</p> <p>→ 1cm gtz unit.</p> <p>Argillite</p> <p>Argillite</p>		69-72	95	72-75	40.1%	28808C	95	0.05	0.002		
75							<p>Argillite</p>		72-73	100	75	40.1%	28809C	100	0.03	0.003		

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-60
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 6 OF 23
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : m LOGGED BY :

DEPTH (M)	ALTERATION				FRACTURING	MINERALS	GEOLOGY	COMMENTS:	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES		SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS					
	SILICA	SERICITE	CLAY	SEC. B.I.D.								Epid	% Cu				% ESTIMATED	Cu %	Mo %			
75	strong	moderate to strong	weak	weak	moderate	py-cpy (Mo ₂)	<p><u>FELDSPAR PORPHYRY</u> cont.</p> <p>Arg. frags</p> <p>Numerous 4cm argillite frags present</p> <p>2.5cm qtz-py unit</p> <p>1cm gouge zone</p> <p>* Alt'n v. strong - phenos rarely present</p> <p>Argillite</p> <p>Argillite frags.</p> <p>Argillite</p> <p>1cm qtz unit</p> <p>1cm py unit</p> <p>0.7cm ssf unit</p> <p>Argillite</p> <p>820-840 - Argillite</p> <p>Argillite.</p> <p>0.8cm qtz unit</p> <p>1cm qtz unit</p> <p>1cm py unit</p> <p>1cm py unit</p> <p>2.0cm py unit</p>		75.9	96	75	75	0.04	0.004								
80										78.3	96	78	78	0.01	0.002							
85										81.4	100	81	81	0.03	0.002							
										84.4	96	84	84	0.04	0.003							
										87.5	100	87	87	0.01	0.002							

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-60
 CASING COLLAR ELEV. : GROUND ELEV. : DATE STARTED : PAGE No. 8 OF 23
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : LOGGED BY :

DEPTH (M)	ALTERATION				FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/MOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS			
	SILICA	SERICITE	CLAY	SEC. BIO EPIDOTE													Cu %	Mo %		
105							→ 0.7cm qtz unit													
								FELDSPAR PORPHYRY cont												
							→ 1cm gouge zone	* qtz and gyp. s/w mod developed.			99		40.1%	28820C	99			0.03	0.002	
							→ 1.4cm gouge zone													
								108-110 - strong granular Magnetite												
110							→ 1.2cm qtz-py unit.	* Alt'n intensity very strong phyllic - phenos completely destroyed			88		40.1%	28821C	90			0.05	0.005	
							→ 0.5cm qtz-Al ₂ O ₃ unit													
								Numerous H/L py units				3%								
								117-120.4m												
								1% diss. Magnetite												
115							→ 1cm qtz-py unit.	- minor limonite present.			96		40.1%	28823C	98			0.02	0.002	
							→ 1cm qtz-py unit													
							→ 1.5cm py-qtz unit													
120											113		40.1%	28824C	109			0.07	0.002	

COMPOSITE DRILL LOG

CORE SIZE :	SCALE :	PROJECT : <i>Poplar</i>	HOLE No. : <i>PC-60</i>
CASING COLLAR ELEV.:	GROUND ELEV.:	DATE STARTED :	PAGE No. <i>9 OF 23</i>
COORDINATES : N. E.		DATE FINISHED :	REF. TO CLAIM CORNER :
INCLINATION :	AZIMUTH :	TOTAL DEPTH :	LOGGED BY :

DEPTH (M)	ALTERATION				FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	ESTIMATED % Cu	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS			
	SILICA	SERICITE	CLAY	SEC. B.I.D.													Cu %	Mo %		
120								FELDSPAR PORPHYRY cont.												
								→ 1cm qtz-py unit.												
								→ 0.5cm gyp unit.	- mod gyp units											
								→ 0.5cm qtz unit	- qtz s/w strongly developed											
								→ 1cm gyp unit												
								→ 1cm qtz unit.	Alt'n intensity strong - phyllic											
									- phenos are mostly destroyed											
125								→ 1.5cm qtz-py unit	- periodic patches of less alt'd - 30% phenos.											
								→ 1.5cm py unit w mod gyp.	- 95% of fractures are silica healed.											
								→ 1cm qtz unit												
								→ str. 1/2 py units.												
								→ 1cm py-gyp unit												
								→ 2cm py-qtz unit												
130								→ 1cm qtz unit.												
135								→ 1cm py unit w qtz.												

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : *Poplar* HOLE No. : *PC-60*
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. *10* OF *23*
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : LOGGED BY :

DEPTH (M)	ALTERATION				FRACTURING	MINERALS	GEOLOGY	COMMENTS:	AVG. CORE REC'Y/MOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS	
	SILICA	SERICITE	CLAY	SEC. BIO.													Cu %	Mo %
135	strong	moderate	v. weak		v. strong	py-cpx	2cm qtz unit 0.7cm py unit 1cm qtz unit 137.5 - Rock takes on a more apple green color - probably due to saussarite. 137.9 - py slickensides - frt runs 12° to C.A. - slickensides show movement 85° to C.A. 138.9m sharp contact @ 30° to C.A. QUARTZ - FELDSPAR PORPHYRY (PND) - apple green to purple color - 10% phenos - 5% qtz - 5% fsp + clay - groundmass - aphanitic - silicious - contains weak flow banding at contact - plag phenos often fresh 141.2m sharp contact @ 20° to C.A. FELDSPAR PORPHYRY - as before 1cm gouge zone - contains minor argillite sections 1cm gouge zone Argillite 1cm gouge zone * Minor diss Magnetite 0.7cm py unit 1cm qtz unit Qtz s/w strongly developed 0.8cm gouge zone Minor saussarite present 1cm py unit 147.4-149.7 - Argillite 1cm gouge zone 1.3cm qtz unit 1.0cm qtz unit		96	2 1/2-3%	< 0.1%	28830C	95	135	0.05	0.004		
140	weak				weak					94			28831C	95	138	2.00	0.001	
145	strong	moderate to strong	v. weak		v. strong	py-Mt-(Cpx)				95			28832C	95	141	0.05	0.002	
										96			28833C	95	144	0.05	0.002	
										94			28834C	97	147	0.04	0.002	
150										100					150			

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : *Poplar* HOLE No. : *PC-60*
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. *11* OF *23*
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : *m* LOGGED BY :

DEPTH (M)	ALTERATION				FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS			
	SILICA	SERICITE	CLAY	SEC. BIO													Cu %	Mo %		
150	Strong	moderate to str.	weak		v. strong	py-cpy	Argillite. → 2x1cm py units. * Qtz s/w strongly developed. Argillite. → 0.8cm py unit		100	100	2 1/2 - 3%	40.1%	28835C	100	150	0.05	0.005			
155	Strong	moderate to str.	weak		v. strong	py-cpy	→ 0.8cm py unit		98	98	2 1/2 - 3%	40.1%	28836C	99	153	0.05	0.001			
157.3m							→ 10cm gouge zone	Gouge contact @ 80° to S.A	100	100		40.1%	28837C	103	156	0.07	0.001			
							→ 2cm qtz unit	SILICIFIED ARGILLITE				40.1%	28838C	106	159					
							→ 1cm qtz unit	- tan color, aphanitic - intense fracturing, healed by silica. - Numerous H/L py units - all sulphides are contained in the fractures.				40.1%	28838C	106	159					
							→ str. qtz s/w.				2%	40.1%	28838C	103	159	0.12	0.006			
							→ 3cm qtz unit					40.1%	28839C	99	162					
							→ 1cm qtz unit	162.6 - 163.6 - Feldspar porphyry				40.1%	28839C	99	162					
							F. Parph					40.1%	28839C	99	162					
							→ 1cm gouge zone					40.1%	28839C	99	162	0.07	0.004			
							→ 1cm qtz unit					40.1%	28839C	99	162					
165							→ 0.8cm qtz unit					40.1%	28839C	99	165					

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-60
 CASING COLLAR ELEV. : GROUND ELEV. : DATE STARTED : PAGE No. 12 OF 23
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : m LOGGED BY :

DEPTH (M)	ALTERATION				FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS			
	SILICA	SERICITE	CLAY	SEC. BIO.													Epidote	Cu %	Mo %	
165							→ 0.8cm qtz unit.									165				
								<u>SILICIFIED ARGILLITE CONT.</u>			99									
								Qtz s/w very strongly developed					40.1%	28840C	98		0.05	0.003		
								→ 0.7cm py unit.												
								Numerous H/L py vnltz			97									
170								→ 0.6cm py unit												
								→ 2x 1.0cm qtz vnltz.												
								Feld. Bnd. 171.1-172.1 - Feldspar Porphyry - strongly alt'd			100									
								→ Weakly bnd.												
								→ 1cm gouge zone 173.3-173.8 - PMD Rhyodacite Dyke.												
								Very badly gouged zone												
175								→ Contact @ 20° to C.A. 175.5m												
								<u>TRACHYTIC RHYODACITE</u>												
								- dark brn to tan green color												
								- aphanitic groundmass												
								- fspar lathes form trachytic text.												
								→ 2x 2cm gouge zones												
								→ Contact @ 30° to C.A. 178.7m												
								<u>QUARTZ-FELDSPAR PORPHYRY</u>												
								- olive green color matrix												
								- 10% plenas - 5% qtz												
								- 5% fsp. → clay.												
								→ 2x 0.8cm qtz vnltz.												
180																				

Not Sampled

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-60
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 13 OF 23
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : LOGGED BY :

DEPTH (M)	ALTERATION				FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/MOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS	
	SILICA	SERICITE	CLAY	SEC. BIO													Cu %	Mo %
180							QUARTZ - FELDSPAR PORPHYRY cont.											
182					weak		10cm qtz unit											
185					weak		Clay & sericite alt'n confined to plag phenos.											
185					weak		Flow banding											
185							Gauge 185.9m Gauge contact @ 45° to CA ARGILLITE											
186							2cm qtz unit - tan to orangy tan color - strong frtng - Numerous H/Py units - silica flooding around frts											
188							10cm qtz unit											
189							2cm gauge zone											
190							str. qtz uning											
191					strong		Sulfides all contained along frts											
191							Numerous H/Py units											
192							1.3cm qtz-py unit											
193																		
194							1.0cm qtz unit											
195							0.7cm qtz unit											

Not sampled

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-60
 CASING COLLAR ELEV. : GROUND ELEV. : DATE STARTED : PAGE No. 14 OF 23
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : m LOGGED BY :

DEPTH (M)	ALTERATION					FRACTURING MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS				
	SILICA	SERICITE	CLAY	SEC. B.I.D.	EPIDOTE												Cu %	Mo %			
195	strong			traces		strong PY - Mt - GPY	ARGILLITE cont.									195					
							1cm qtz vult.				100		<0.1%	28847C	99		198	0.06	0.005		
							Qtz s/w mod. developed				98	1 1/2 %	<0.1%	28848C	100		201	0.07	0.003		
200							1cm qtz vult. 3cm py vult.														
							3.5cm py vult.				102		<0.1%	28849C	100		204	0.09	0.003		
							Breccia contact at 45° to ca 203.1m TRACHYTIC RHYODACITE (PMD) - pale green to dk. brn. aphanitic matrix - spar lathes form trachytic texture - phenos: lathes filled w clay & epidote.														
205	weak			weak (phenos)		weak PY					94	<0.5%	Nil	Not							
							2cm gouge zone.														
							Argillite	209-209.5 - Argillite													
							Bx.	209.5-210.4 - Breccia w arg frags.													
210																					

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : HOLE No. : PC-60
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 16 OF 23
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : m LOGGED BY :

DEPTH (m)	ALTERATION				FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	C _e % ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (m)	ASSAYS	
	SILICA	SERICITE	CLAY	SEC. BLD.													Cu %	Mo %
225																		
	v. str	m-s			str	Py-cpy	→ 0.5cm vuggy qtz unit			98	3%	40.1%	28854C	98		225	0.10	0.005
							→ 1cm qtz unit	227.3m Sharp contact @ 35° to C.A.										
								ARGILLITE										
								as before										
230							→ 1cm qtz unit			99		40.1%	28855C	99		228	0.05	0.002
							→ H/L Mt units	* Color sometimes fades to a strong green or, below, a black color.										
							→ 1cm qtz unit											
								strong silicious envelopes around fts.			98	1 - 1/2%	28856C	98		231	0.06	0.003
235							→ 1cm qtz unit	slight increase in MoS ₂ content			90	40.1%	28857C	90		234	0.06	0.004
								* sec. bld very patchy										
							→ 1.5cm gouge zone											
							→ 0.7cm qtz unit											
240										101		40.1%	28858C	101		237	0.05	0.002

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : *Poplar* HOLE No. : *PC-60*
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. *17* OF *23*
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : m LOGGED BY :

DEPTH (M)	ALTERATION				FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED Cu	SAMPLE NO.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS	
	SILICA	SERICITE	CLAY	SEC. BIO													Cu %	Mo %
240							ARGILLITE cont											
							sharp contact @ 20° to C.A. 241.5 - 243.0 - Feldspar Porphyry			109			20.1%	28859C	109		0.07	0.003
							Feldspar Porph.											
							1cm py unit.											
							15cm gouge zone.											
							Argillite - tan to wk orange color - very fine grained to aphanitic - 3/4 very strong healed silica - minor sericite in str sil patches - sulphides contained in the frts.			86			20.1%	28860C	86		0.06	0.003
245							1cm gouge zone											
							1cm qtz unit											
							strong silicious selvage around H/L frts.											
							0.7cm qtz unit											
							1cm qtz unit											
							Numerous H/L py units.											
							2x1 cm qtz units.											
							0.6 cm qtz unit.											
							1.2cm qtz unit.											
							0.6cm py unit											
							1cm qtz unit.											
							1.5cm gouge zone.											
							1cm qtz unit											
255																		

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-60
 CASING COLLAR ELEV. : GROUND ELEV. : DATE STARTED : PAGE No. 18 OF 23
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : m LOGGED BY :

DEPTH (M)	ALTERATION				FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES		SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS							
	SILICA	SERICITE	CLAY	SEC. BIO.								% Cu	% ESTIMATED				Cu %	Mo %						
255							ARGILLITE cont.																	
							sharp contact @ 20° to c.a.	255.8 - 257.5	Contact zone of Argillite & Feldspar Porphyry		94		0.1%	28864C	94		0.08	0.004						
							sharp contact @ 60° to c.a.																	
							contact @ 10° to c.a.																	
							1m qtz	257.5 - Argillite continues as before.																
							2x0.8cm qtz unit.																	
260							1cm qtz unit				98		0.1%	28865C	98		0.06	0.003						
							- strong silicious flood around frts																	
							- Numerous H/L py units.																	
							1cm qtz-py unit																	
							0.8cm qtz unit																	
							0.6cm py unit.																	
265							1m fault zone		* A lot of faulting towards contact below															
							20cm fault zone.		No Cu increase towards contact															
							15cm fault zone.																	
							10cm fault zone																	
							268.1m		Fault Contact @ 90° to c.a.															
									BIOTITE-FELDSPAR PORPHYRY															
							0.9cm qtz unit		- dark grey color matrix															
									- crowded porphyritic texture															
									- comp - 50% phenbs - 40-45% plag → ser → clay															
							1cm py unit		- 5-10% bio → ser															
									- 50% matrix - silica + sericite															
270																								

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-60
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 20 OF 23
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : m LOGGED BY :

DEPTH (m)	ALTERATION				FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE RECY/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES		SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (m)	ASSAYS			
	SILICA	SERICITE	CLAY	SEC. BIO								% ESTIMATED	% Cu				Cu %	Mo %		
285	strong	moderate	moderate to strong	strong	py-cpy-Hem-MoS ₂		1.5m qtz unit <u>BIOITITE - FELDSPAR PORPHYRY cont</u>			285	98	0.15%	28874C	98	285	0.10	0.003			
							285.2 - Al'n intensity increases to strong - rock is less porphyritic than before - 1st sign of sec. bio. - weak potassic phase													
							1.0m qtz unit - fracturing increases - strong 0.7m py unit - Hem: cpy content increases - Black color													
							0.5m qtz unit w/ MoS ₂ -cpy-py - str. Hem on fctz. MoS ₂ is frt controlled													
290							Qtz slw mod. developed.													
							1.0m qtz unit. * gyp uning weakly developed.													
							* In strong bio al'n zone there is strong silica-sericite salvage around Hk fctz.													
295							0.7m qtz unit - phenos are very faint - mostly destroyed.													
							1.0m qtz unit													
							1.0m qtz unit													
300							1.0m qtz unit													

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-60
 CASING COLLAR ELEV. : GROUND ELEV. : DATE STARTED : PAGE No. 21 of 23
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : LOGGED BY :

DEPTH (M)	ALTERATION				FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS			
	SILICA	SERICITE	CLAY	SEC. BIO.													Cu %	Mo %		
300	strong	strong	strong	strong			BIOTITE - FELDSPAR PORPHYRY cont.			97		0.25%	28879C	96	300	0.13	0.003			
							strong silica flooding around fnts			95				28880C	96	303	0.18	0.004		
							Qtz slw mod developed			97				28881C	96	306	0.18	0.004		
305	v. strong	v. strong	weak	weak			Ayp. v.ing weakly developed.			100				28882C	99	309	0.15	0.005		
	moderate	moderate	moderate	moderate						99				28883C	101	312	0.15	0.004		
310	med to strong	med to strong	weak to moderate	weak to moderate						99										
										102										

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : *Poplar* HOLE No. : *PC-60*
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. *22* OF *23*
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : m LOGGED BY :

DEPTH (m)	ALTERATION			FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (m)	ASSAYS			
	SILICA	SERICITE	CLAY													Cu %	Mo %		
315	↑	↑	↑	↑			→ 1.0m qtz unit. <u>BIOTITE - FELDSPAR PORPHYRY</u>			102					315				
							→ 1.3cm qtz unit.												
							→ 0.6cm qtz unit. - strong siliceous salvage around frts			97		0.30%	28884C	100			0.16	0.003	
							→ 1cm gyp unit.												
							- Qtz s/w mod. developed												
320							→ 0.7cm qtz unit.												
							→ 2x0.3cm qtz unit. - Gyp vining weakly developed			95		0.25%	28885C	96			0.11	0.005	
							→ 1.5cm qtz unit & Hem												
							→ 0.8cm py unit.												
325							→ str. py vining												
							→ 1.3cm py-qtz unit.												
							→ 2cm qtz unit.												
330										99		0.30%	28888C	98			0.15	0.002	

D.D.H. - PC-34

COMPOSITE DRILL LOG

CORE SIZE : SCALE : 1:100 PROJECT : Poplar HOLE No. : PL-34 ext.
 CASING COLLAR ELEV.: 909.19m GROUND ELEV.: 909.0m DATE STARTED : PAGE No. 21 OF
 COORDINATES : 6000.76 N. 12161.7 E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : -60° AZIMUTH : 090° TOTAL DEPTH : 367.9 m LOGGED BY : T. Pollock

DEPTH (m)	ALTERATION					FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE RECY/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (m)	ASSAYS			
	SILICA	SERICITE	CHL	SEC. BSO	CHL / EPID													K-feldspar	% Cu	% Mo	
285									10 cm gauge								285				
286	weak	moderate	locally moderate			strong			strongly broken - weakly to mod. silicified, varies from an aphanitic, hard, non-porphyrific rock to finely porphyritic or mottled variety in pale green soft clay phases + biotite phenocrysts.			15%	.1	28262C			286	0.20	0.001		
287									1.1 m gauge + broken rock zone.								288				
288	weak					weak			1 cm gty py in sp.				.2	28263C			289	0.41	0.001		
289									4 cm gty py in sp.								290				
290	strong					weak			2 cm gty py in sp.								291				
291									mod. gty salt stockwork.				.2	28264C			292	0.39	0.001		
292									Argillite								293				
293									aphanitic, brown + hard in sp in hairline mths.								294				
294									1.4 cm gty py in								295				
295																	296				
296	strong	moderate	locally moderate			weak			28.5-297.8 m: B.F.P. in clay + bio phases easily seen								297				
297									5% bio phases, 20-50% soft clay phases giving a crumpled porphyry texture								298				
298													2%	28266C			299	0.23	0.001		
299									Contact sharp @ 20°				.15				300				
300									2 cm gauge Variety of B.F.P.												

COMPOSITE DRILL LOG

CORE SIZE : SCALE : 1:100 PROJECT : Poplar HOLE No. : PC-34 ext.
 CASING COLLAR ELEV.: 909.19 GROUND ELEV.: 909.0 DATE STARTED : PAGE No. 22 OF
 COORDINATES : 6000.76 N. 12161.7 E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : -60° AZIMUTH : 090° TOTAL DEPTH : 367.9 m LOGGED BY : T. Pollock

DEPTH (m)	ALTERATION					FRACTURING	MINERALS	GEOLOGY	COMMENTS:	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (m)	ASSAYS			
	SILICA	SERPENTINE	CLAY	SEC. STD.	CHL / EPID.													%	%	%	%
300									Variation of Biotite Feldspar Porphyry								300				
301		mod-strong							-20% dark green chlorite? sericite alt., subhedral plg phenos			3%	< .1	28267C				20.0	20.00		
302						strong			-2% dk brown euhedral bio phenos in a vfg. dk green to grey mod hard matrix.												
303						weak			1mm py m to hem 3% finely disse py								303				
304									1cm clay gauge.												
305									the upper + lower contacts of the dypa have a light brown matrix, plus disse mag.									20.0	20.00		
306									Contact sharp @ 45°								306				
307									Fracture to reg. py exp. 20m zone of gty or py 5-11												
308	strong								Argillite with localized and mixed in zones of BFP - contacts are diffuse - all sp confined to vults + hairline fractures									0.35	20.00		
309		locally weak							1cm gty py m to 2-4 py								309				
310									0.2m gty py with magnetite Argillite												
311									2cm gty m in line 5-11 gty m in py = sp - light brown, aphanitic, highly siliceous - mod gty stockworky sp in in blobs in gty filled fractures.									0.41	0.001		
312									1cm gty m in py - argillite has been highly fractured + later gty m py + sp has filled the fractures.								312				
313									0.2m quartz. kempt in 5 py + sp - gty m > 1cm common.												
314	strong																	0.46	0.002		
315		locally mod.							0.3cm m of gty, sp, py, sphgal.								315				

D.D.H. - PC-61

COMPOSITE DRILL LOG

CORE SIZE : *N6* SCALE : *1:100* PROJECT : *Poplar* HOLE No. : *PC-1*
 CASING COLLAR ELEV. : *916.85 m* GROUND ELEV. : *916.5 m* DATE STARTED : *May 11, 1981* PAGE No. : *1 OF 21*
 COORDINATES : *5998.03 N 12041.80 E* DATE FINISHED : *May 14, 1981* REF. TO CLAIM CORNER : *Poplar #5*
 INCLINATION : *-70* AZIMUTH : *090°* TOTAL DEPTH : *312.7 m* LOGGED BY : *T. J. ...*

DEPTH (m)	ALTERATION					FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE NO.	% SAMPLE RECOVERED	SAMPLE INTERVAL (m)	ASSAYS				
	SILICA	SO ₂	CO ₂	Fe	Al ₂ O ₃													% Cu	% Mo			
0									* core not completely measured													
1									0.0 - 0.31 stickup													
2																						
3																						
4																						
5									0.31 - 17.1 Overburden													
6																						
7																						
8																						
9																						
10																						
11																						
12																						
13																						
14																						
15																						
16																						
17																						
18																						
19																						
20																						

COMPOSITE DRILL LOG

CORE SIZE : *1 1/4* SCALE : *1:100* PROJECT : *Porphy* HOLE No. : *P001*
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. *2* OF *21*
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : LOGGED BY : *T. [unclear]*

DEPTH (M)	ALTERATION				FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS					
	SILICA	SILICATE	CLAY	SILICIFIED													% Cu	% Fe	% Zn	% Pb		
15																						
16																						
17																						
17.1 - 18.3							Casing in bedrock.															
18.3							Feldspar Porphyry															
19																						
20	weak				moderate		0.2 cm py unlt. several py unts @ steep angles	- fine crowded porphyry, feldspar phenocrysts avg 1cm ² , white to beige, - quite hard,		20.1	94		<	28287C	92	18.3	0.44	0.002				
21							0.5 cm gls-py un.	- matrix mainly gls + feldspar (plag).														
22							0.5 cm py un.	- py finely disse. in many unts - cp present in small amounts.			91	39%	<			21						
23								- weak to local stockworks of py + gls unts - fractures gossanous		22.9			<	28288C	91		0.31	0.003				
24	moderate				strong		Fracture along py unlt.	- many fractures are along py unts - weak to moderate phyllic alteration		24.7	91		<			24						
25																						
26																						
27							Fracture along py unlt. 2 cm gls w py + trace cp			24.5	92		<	28289C	92		0.33	0.001				
28								localized silicified zones over sides of 5 cm w disse py														
29	moderate				mod- strong		mod. gls-py unlt stockwork.															
30	moderate				Pyoph, trace cp		Fracture along a 0.2 cm py unlt.			29.6	85	3%	<	28290C	85		0.41	0.002				

COMPOSITE DRILL LOG

CORE SIZE : *NQ* SCALE : *1:100* PROJECT : *Poglar* HOLE No. : *PC01*
 CASING COLLAR ELEV. : GROUND ELEV. : DATE STARTED : PAGE No. *3* OF *21*
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : LOGGED BY : *T. P. ...*

DEPTH (m)	ALTERATION				FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE NO.	% SAMPLE RECOVERED	SAMPLE INTERVAL (m)	ASSAYS			
	SILIC	SER	SO	CHL													% Cu	% Fe	% Zn	% Pb
30								30.4m Contact unknown.												
31								Biotite Feldspar Porphyry												
32								- 20-40% white soft subhedral plag phenos, - 2% horn bio, matrix light brown mod. hardy												
33								0.3cm py mlt. - weak gtz-py mlt stockwork, mod. phyllic alt.												
34								33.1m Contact sharp @ 55°												
35								Feldspar Porphyry												
36								0.5 cm mag-py mlt in gyp. - well silicified, fine crusted porphyry												
37								0.6 cm gtz mlt Py sph, mo. Contact @ 45°												
38								35.4-37.6m Biotite Feldspar Porphyry. - mod gtz 0.3 cm py mlt in 1cm lili. ans.												
39								similar to above, silicified envelopes associated to some py mlt.												
40								weak gtz-py mlt stockwork												
41								Feldspar Porphyry												
42								1cm gtz-py mlt in sp. - mainly white, moderately hardy - weak gtz-py mlt stockwork,												
43								0.2 cm gyp mlt												
44								0.1 cm py mlt.												
45								- dirty white in color, hardy, fine crusted porphyry looks almost non-porphyratic, weak gtz-py mlt stockwork, fine (avg 0.2 cm)												
46								gyp. mlt's common, mod. phyllic alt.												
47								0.4 cm gyp. mlt.												

COMPOSITE DRILL LOG

CORE SIZE : *NQ* SCALE : *1:100* PROJECT : *Poplar* HOLE No. : *PC-61*
 CASING COLLAR ELEV. : GROUND ELEV. : DATE STARTED : PAGE No. *4* OF *21*
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : *-70°* AZIMUTH : *090* TOTAL DEPTH : LOGGED BY : *T. Pollock*

DEPTH (M)	ALTERATION				FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS			
	SILICA	SERICITE	CLAY	SEC. BIO.													CAL LEAD	% Cu	% Mo	
45																				
46								weak py stockwork												
47	med	med			weak			0.2m py int w cp.												
48								1.5m zone of py.			97	2.5%	-	28296C	97			0.36	0.001	
49								0.5m py m		47.9										
50								2cm gouge												
51								0.5m gtz-py m w cp.			97			28297C	97			0.39	0.002	
52								1.3m gtz m w py.		50.9										
53								1.5m py-gtz m w sph.			103			28298C	103			0.23	0.001	
54								- dark green, occasional gyp int, local weak sec bio + potassic alt, hard		53.9										
55	weak-med				weak			← mag + hem in diss. form + intls w good disk cp.			99			28299C	99			0.39	0.001	
56	weak										22									
57	locally weak																			
58								0.2m py int w 0.7m gtz env w fine py.		57										
59								0.7m py m												
60								30cm sil zone @ 40° w pt stringers + fine disk. cp, rag, hem.			100			28300C	100			0.63	0.001	
								0.8m gtz py m w cp.		60										

COMPOSITE DRILL LOG

CORE SIZE : *NQ* SCALE : *1/100* PROJECT : *Poplar* HOLE No. : *PC-21*
 CASING COLLAR ELEV. : GROUND ELEV. : DATE STARTED : PAGE No. *5* OF *21*
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : *-70°* AZIMUTH : *090°* TOTAL DEPTH : LOGGED BY : *T. Pollock*

DEPTH (m)	ALTERATION					FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (m)	ASSAYS			
	SILICA	SERICITE	CLAY	SEC. BIO	CHL / EPID													% Cu	% Mo		
60									Feldspar Porphyry												
61									- white, moderately hard,												
62									0.3 cm py unit.												
63									- rock is well silicified but the plag phenos are quite soft - weak qtz ± py unit stockwork												
64									1 cm gouge												
65									63.8-64.7 m: B.F.P. - white in a pinkish tinge from potassic alt.												
66									0.5 cm gypsum qtz.												
67									1.3 cm qtz-py m.												
68									qtz patches avg 3cm ² in py + diss sp common.												
69									gypsum units (avg < 2mm) numerous												
70									67.7-69.2 B.F.P.												
71									0.3 cm gyp unit.												
72									patches of qtz avg 3cm ² in py/ep.												
73									0.7 cm qtz-py unit												
74									Feldspar Porphyry												
75									1.3 cm py m w gty - pinkish white in color, hard, quite fresh looking, - crowded porphyry, phenos are not separated by matrix.												
									0.2 cm gyp unit												
									- gypsum units 1/10cm												
									1.3 cm qtz-py m												
									mod. qtz-py unit stockwork												

COMPOSITE DRILL LOG

CORE SIZE : *NQ* SCALE : *1/100* PROJECT : *Paplar* HOLE No. : *PC-61*
 CASING COLLAR ELEV. : GROUND ELEV. : DATE STARTED : PAGE No. *6* OF *21*
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : *-70°* AZIMUTH : *090°* TOTAL DEPTH : *m* LOGGED BY : *T. B. Black*

DEPTH (M)	ALTERATION				FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC/Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS				
	SILICA	SERICITE	CLAY	SP. BIO													CML/EPID.	% Cu	% Mo		
75							CONTACT @ 85°			75.3						75					
76							75.6 -	Feldspar Porphyry													
77	mod. to extreme						Fracture along a 1cm py-gtz vein	Biotite Feldspar Porphyry -40% white anhedral soft plug phenos -2% horn alt. bio.		99	3%	.1	28306C	99		77	0.40	0.003			
78	weak to mod						0.5m gouge	- matrix quite hard + high in gtz - gtz-py mlt stockwork moderate								78					
79	locally weak							- common ore lengths of 10-30% 90% gtz w 5% py 1% sp.		99		.4	28307C	99		79	1.61	0.002			
80																					
81																					
82							weak gtz-py mlt stockwork			81.4						81					
83	strong to extreme							- varies from an almost totally sil. rock to one at 35% white soft plug phenos in a dark horn matrix of bio, gtz + plag.													
84	moderate																				
85	moderate						1cm carbon plus gouge.	84.9- 86.3 - highly silicified - 80% gtz w py in blobs + fractures also sp. minor mag + horn.		84.4	101		.5	28308C	101		84	0.60	0.001		
86																					
87							2cm gouge														
88	weak						0.3cm gtz-py mlt w sp.	< white, mod. soft, little sp, little silicification, weak gtz-py stockwork		84.5	4-5%					87					
89	weak																				
90								< highly silicified, dark green-horn, glassy, good sp.		98	2%	.35	28310C	98		90	0.49	0.002			

COMPOSITE DRILL LOG

CORE SIZE : *NQ* SCALE : *1:100* PROJECT : *Poplar* HOLE No. : *PC-61*
 CASING COLLAR ELEV. : GROUND ELEV. : DATE STARTED : PAGE No. *7* OF *21*
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : *-70°* AZIMUTH : *090°* TOTAL DEPTH : *m* LOGGED BY : *T. Pollock*

DEPTH (M)	ALTERATION				FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS				
	SILICA	SERICITE	CLAY	SEC. BIO													CHL/EPID	% Cu	% Mo		
90																90					
91																					
92	<i>strong</i>	<i>moderate</i>			<i>weak</i>	<i>py, sp, mag, hematite</i>	<i>40cm breccia w gtz matrix cuts gtz-py unts w cp.</i>	<i>Biotite Feldspar Porphyry - highly silicified, by gtz-py unts, slabs of gtz + silicification of the matrix - best sp where the rock is total gtz w just py+cp.</i>		<i>90.5</i>	<i>92</i>	<i>3%</i>	<i>1%</i>	<i>28311C</i>	<i>92</i>		<i>90</i>	<i>1.80</i>	<i>0.001</i>		
93																					
94							<i>gyp. coated fracture</i>			<i>93.6</i>											
95													<i>.4</i>	<i>28312C</i>	<i>100</i>			<i>1.08</i>	<i>0.001</i>		
96							<i>0.3cm py unts w 0.2cm gtz unts.</i>	<i>moderate phyllic alteration.</i>													
97																					
98	<i>strong</i>	<i>moderate</i>			<i>weak</i>	<i>py, sp.</i>		<i>- well silicified, most of the gtz in gtz-py unts stockwork, also occurs in masses over + up to 10cm w 95% gtz w py in fractures also gtz.</i>					<i>.4</i>	<i>28313C</i>	<i>100</i>			<i>1.08</i>	<i>0.001</i>		
99							<i>0.4cm py unts.</i>														
100								<i>- where BFP does exist it is white to pinkish w soft plg phenos,</i>		<i>99.7</i>		<i>3%</i>									
101							<i>2cm gouge</i>						<i>.25</i>	<i>28314C</i>	<i>102</i>			<i>0.58</i>	<i>0.002</i>		
102								<i>102.2 - 102.3 QFP dyke Contact sharp @ 70°</i>													
103										<i>102.7</i>											
104					<i>weak</i>		<i>102.7 - 111.7m</i>	<i>Quartz Feldspar Porphyry Dyke - described on next sheet</i>				<i>2%</i>		<i>NO SAMPLE</i>							
105																					

COMPOSITE DRILL LOG

CORE SIZE : *NQ* SCALE : *1:100* PROJECT : *Poplar* HOLE No. : *PC-61*
 CASING COLLAR ELEV. : GROUND ELEV. : DATE STARTED : PAGE No. *8* OF *21*
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : *-70°* AZIMUTH : *090°* TOTAL DEPTH : *m* LOGGED BY : *T. Pollock*

DEPTH (M)	ALTERATION				FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS			
	SILICA	SERICITE	CLAY	SEC. BJO.													CHL/EPID.	% Cu	% Mo	
105																				
106																				
107			<i>weak</i>		<i>weak</i>			<i>Common fracture</i> <i>Quartz Feldspar Porphyry Dyke</i> <i>±'s @ 10±35° - green to reddish green matrix, aphanitic</i> <i>hard</i>												
108			<i>weak</i>		<i>weak</i>			<i>1cm gouge - 7% subrounded pty phenos, avg. 3mm wide</i> <i>- 10% dark green subhedral salt plag phenos</i> <i>- 12% bio phenos,</i> <i>- 5% finely diss mag.</i>			<i>102</i>	<i>NIL</i>								
109								<i>- 1-2% of plag phenos clay alt giving minor porosity to the rock - weathered out.</i>												
110																				
111																				
112								<i>Contact sharp @ 20°</i>												
113								<i>111.7 - 126.1m Rhyodacite dyke</i> <i>- dark grey to red-brown</i> <i>- hard, aphanitic,</i>												
114								<i>- 70% patchy feldspar phenos - partially carb. + hematized,</i>												
115								<i>1cm gouge - 3% rounded pty eyes.</i> <i>- fine feldspar laths visible</i> <i>- very few veins.</i> <i>- locally reddened from hem.</i>												
116																				
117																				
118																				
119								<i>0.4cm carb. vult.</i>												
120																				

COMPOSITE DRILL LOG

CORE SIZE : *NQ* SCALE : *1:100* PROJECT : *Poplar* HOLE No. : *PC-61*
 CASING COLLAR ELEV. : GROUND ELEV. : DATE STARTED : PAGE No. *9 OF 21*
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : *70°* AZIMUTH : *090°* TOTAL DEPTH : *312.7* m LOGGED BY : *T. B/lock*

DEPTH (M)	ALTERATION				FRACTURING MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS				
	SILICA	SERICITE	CLAY	SEC. BIO.												CHL. / EPIC.	% Cu	% Mo		
120							<i>Rhyodacite Dyke</i>													
121							<i>similar to above</i>													
122							<i>-near the bottom of the dyke the phenos stand out much clearer</i>													
123							<i>- occasional thin or less carb vein</i>													
124							<i>- local parallel streaking of rock by hematite</i>													
125																				
126							<i>Contact. sharp @ 45°</i>													
127							<i>126.1- 209.0m. Quartz Feldspar Porphyry Dyke</i>													
128							<i>- 5-7% qtz phenos</i>													
129							<i>- 10% green plag phenos</i>													
130							<i>- 1% dk. green bio</i>													
131							<i>- matrix light green, aphanitic + rel. hard.</i>													
132							<i>- no sulfides or veins</i>													
133							<i>- some plag phenos alt to clay + partially weathered out.</i>													
134																				
135							<i>highly broken + fractured, fractures 1/2cm</i>													

COMPOSITE DRILL LOG

CORE SIZE : *NQ* SCALE : *1:100* PROJECT : *Poplar* HOLE No. : *PC-21*
 CASING COLLAR ELEV. : GROUND ELEV. : DATE STARTED : PAGE No. *10* OF *21*
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : *070* AZIMUTH : *090* TOTAL DEPTH : *312.7* m LOGGED BY : *T. Pollock*

DEPTH (M)	ALTERATION				FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS			
	SILICA	SERICITE	CLAY	SEC. BLD.													CHL./EPID.	% Cu	% Mo	
135																				
136																				
137	<i>weak</i>	<i>weak</i>	<i>weak</i>		<i>very strong</i>			<i>10 cm gouge</i>												
138					<i>very strong</i>			<i>Quartz Feldspar Porphyry Dyke</i>												
139								<i>- highly fractured + broken,</i>												
140					<i>strong</i>			<i>- light green, aphanitic, med. hard matrix.</i>												
141								<i>- 7% qtz phenos</i>												
142								<i>- 10% green soft plg phenos</i>												
143								<i>- 1% digreen bio phenos weakly chl + carb.</i>												
144																				
145																				
146																				
147					<i>strong</i>			<i>0.2 cm gouge</i>												
148	<i>weak</i>	<i>weak</i>	<i>weak</i>					<i>- no veins or sulfides.</i>												
149																				
150																				

COMPOSITE DRILL LOG

CORE SIZE : *NQ* SCALE : *1:100* PROJECT : *Poplar* HOLE No. : *PC-61*
 CASING COLLAR ELEV. : GROUND ELEV. : DATE STARTED : PAGE No. *11* OF *21*
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : *-70°* AZIMUTH : *090°* TOTAL DEPTH : *312.7* m LOGGED BY :

DEPTH (M)	ALTERATION				FRACTURING MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE NO.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS			
	SILICA	SERICITE	CLAY	SEE BLD												CHL EPID.	% Cu	% Mo	
150							Quartz Feldspar Porphyry Dyke similar to above			100									
151							- 1% porosity from weathered out clay altered plag phenos			100									
152	<i>weak</i>		<i>weak</i>		<i>weak</i>						<i>NIL</i>			<i>NO SAMPLE</i>					
153							<i>highly broken.</i>			100									
154							<i>- locally finely diss mag.</i>												
155																			
156										102									
157																			
158																			
159										102									
160							<i>5cm gouge</i>												
161							<i>well fractured, many small (± 5cm) gouges, very little veining, no sulfides</i>												
162	<i>weak</i>		<i>weak</i>		<i>weak</i>		<i>4cm gouges</i>												
163							<i>0.5cm carb m.</i>												
164							<i>2% porosity</i>			103									
165							<i>5cm gouge</i>												
							<i>0.3 cm gty mlt</i>			100									

COMPOSITE DRILL LOG

CORE SIZE : *NQ* SCALE : *1:100* PROJECT : *Paplar* HOLE No. : *PC-61*
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. *12* OF *21*
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : *-70°* AZIMUTH : *090°* TOTAL DEPTH : *312.7* m LOGGED BY : *T. Pollock*

DEPTH (M)	ALTERATION				FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE RECY/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS			
	SILICE	SERICITE	CLAY	SEC. BIC													CHL LEPTO	% Cu	% Mo	
165								Quartz Feldspar Porphyry Dyke												
166																				
167		weak	weak		weak		strong	- light green aphanitic, rel. hard, matrix - 5-10% qtz phenos avg. 3mm across - 10% green soft plag phenos - 1% dark green bio phenos - strongly fractured, locally broken interstices - very few uns, no sulfides - rare gyp stringer		166.7	100		NIL							
168							gyp													
169																				
170										169.8										
171							strong	0.5m gouge												
172							hem	0.2m gouge. 0.1m gouge. - many large gouge zones present, - locally core has red tinge from hem. also fine diss mag.												
173																				
174																				
175								174-175 - highly broken.												
176																				
177		weak	weak		weak		strong	15cm gouge												
178							hem	2cm gouge												
179																				
180								5cm gouge		178.9										

COMPOSITE DRILL LOG

CORE SIZE : *NQ* SCALE : *1:100* PROJECT : *Poplar* HOLE No. : *PC-61*
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. *13* OF *21*
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : *-70°* AZIMUTH : *090°* TOTAL DEPTH : *312.7* m LOGGED BY : *T. Pollock*

DEPTH (M)	ALTERATION				FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS			
	SILICA	SERICITE	CLAY	SEC BIO													CHL/EPID.	% Cu	% Mo	
180																				
181																				
182																				
183																				
184																				
185																				
186																				
187																				
188																				
189																				
190																				
191																				
192																				
193																				
194																				
195																				

COMPOSITE DRILL LOG

CORE SIZE : *NQ* SCALE : *1:100* PROJECT : *Poplar* HOLE No. : *PC-61*
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. *14* OF *21*
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : *-70°* AZIMUTH : *090°* TOTAL DEPTH : *312.7* m LOGGED BY : *T. Pollock*

DEPTH (m)	ALTERATION				FRACTURING MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE NO.	% SAMPLE RECOVERED	SAMPLE INTERVAL (m)	ASSAYS				
	SILICA	SERICITE	CLAY	SEC BIC												CHL	HAZO	% Cu	% Mo	
195							Quartz Feldspar Porphyry Dyke													
196							similar to above			96										
197							- several small gouges + associated fractures		197.2		<i>NIJL</i>									
198							- 1% porosity													
199							- local fine diss mag. max 1%			93										
200							2cm gouge		200.3											
201																				
202							1cm gouge		203.3											
203																				
204																				
205							2cm gouge.		206.4											
206																				
207																				
208																				
209							Contact @ 30°		209.4											
210	<i>Med</i>	<i>Med</i>	<i>Weak</i>	<i>Weak</i>	<i>1/4</i>		209.0-210.0m Biotite Feldspar Porphyry													
							← mag. hem. sp. no. - mainly breccia + gouge Contact sharp @ 35°													

COMPOSITE DRILL LOG

CORE SIZE : NQ SCALE : 1:100 PROJECT : Poplar HOLE No. : PC-61
 CASING COLLAR ELEV. : GROUND ELEV. : DATE STARTED : PAGE No. 15 OF 21
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : -70° AZIMUTH : 090° TOTAL DEPTH : 312.7 m LOGGED BY : T. Pollock

DEPTH (M)	ALTERATION				FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS			
	SILICA	SERICITE	CLAY	SEC BIO													CHL/EPID	% Cu	% Mo	
210								1cm gouge 210.0-211.97m Rhodacite dyke.												
211					weak			light to dark brown, hard, feldspar laths easily seen, no veining or sulfides			99	N/A		No sample						
212								Contact @ 90°												
213								Biotite Feldspar Porphyry		22.5										
214	weak				moderate			-pinkish-white, relatively hard, -porphyritic texture does not really stand out.			101	1.5%	K	28315C	101					
215	weak							0.1cm py mlt. = 10% white plag phenos + 2% brown biophanos in a v.fg. to aphanitic matrix.												
216								0.3cm py mlt. - weak stockwork of hairline py vults												
217								1cm gouge		215.5										
218								0.5cm carb-py m.			100		K	28316C	100					
219	moderate				weak			-moderate to strong glg hairline ± py mlt stockwork.												
220	weak							-locally the rock is non porphyritic because of its highly altered state + aphanitic and brown appearing like argillite.		218.5										
221								0.5m breccia + gouge. Contact @ 50°			100	1.5%	K	28317C	100					
222								221.2 - 232.8m Rhodacite Dyke		221.0										
223	weak				weak			-dark green to grey, aphanitic, quite hard			100	N/A		No sample						
224								0.2cm gouge. - 5% plag phenos, 2% rounded glg phenos, 0.2% green bio phenos												
225								-hairline carb. mts common, no other mts		224.0										

COMPOSITE DRILL LOG

CORE SIZE : *NQ* SCALE : *1:100* PROJECT : *Poplar* HOLE No. : *PC-61*
 CASING COLLAR ELEV. : GROUND ELEV. : DATE STARTED : PAGE No. *16* OF *21*
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : *70°* AZIMUTH : *090°* TOTAL DEPTH : *312.7* m LOGGED BY : *T. P. Hoek*

DEPTH (m)	ALTERATION				FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (m)	ASSAYS			
	SILICA	SEPICITE	CLAY	SEC. BIO.													CHL / EPTD	% Cu	% Mo	
225																				
226																				
227																				
228																				
229																				
230																				
231																				
232																				
233																				
234																				
235																				
236																				
237																				
238																				
239																				
240																				

COMPOSITE DRILL LOG

CORE SIZE : NQ SCALE : 1:100 PROJECT : Poplar HOLE No. : PC-61
 CASING COLLAR ELEV. : GROUND ELEV. : DATE STARTED : PAGE No. 17 OF 21
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : 70° AZIMUTH : 090° TOTAL DEPTH : 312.7 m LOGGED BY : T. Pollock

DEPTH (m)	ALTERATION				FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED Cu	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (m)	ASSAYS			
	SILIC	SERICITE	CLAY	SEC EPID													CHL EPID	% Cu	% Mo	
240							Argillite									240				
241							0.4 cm qtz in.													
242	strong	weak					strong qtz-py stockwork, local zoning at B.F.P., - best cp finely disseminated mag.				2%	.1						0.33	0.001	
243							1cm py in qtz Contact sharp @ 80°													
244							242.8 - 246.12m Quartz Feldspar Porphyry Dyke - aphanitic aphanitic, light green, hard matrix - qtz, plag, bio phenos - no vms or sulfides													
245	weak																			
246							Contact sharp @ 60°													
247	strong						Argillite mostly brecciated in qtz matrix w py + good cp. (0.3%) Contact very irregular @ 81°					25%								
248							247.3 - 249.9m Quartz Feldspar Porphyry Dyke - similar to above													
249							Contact @ 65°, 10 cm gouge at contact													
250							Argillite													
251							1.5 cm qtz in fine py stockwork - argillite is vfg, hard, quite hard, - strong qtz in stockwork in vms up to 3cm also large patches of qtz						.2					.22	0.001	
252							1cm py-qtz in - locally the argillite appears brecciated. - within the qtz py fills fractures up to 2cm, cp is finely disseminated. - minor hem + mag. in fine mts.					2%								
253	strong																			
254							2.5 cm qtz in w py + cp.						.3						0.43	0.001
255							0.3 cm py in lt													

COMPOSITE DRILL LOG

CORE SIZE : *NQ* SCALE : *1:100* PROJECT : *Paplar* HOLE No. : *PC-61*
 CASING COLLAR ELEV. : GROUND ELEV. : DATE STARTED : PAGE No. *18* OF *21*
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : *-70°* AZIMUTH : *090°* TOTAL DEPTH : *312.7* m LOGGED BY : *T. Palla*

DEPTH (M)	ALTERATION				FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS			
	SILICA	SERICITE	CLAY	SEC. PTO													CHL / EPID.	% Cu	% Mo	
255																255				
256								<i>0.8 cm qtz-py in wcp. Argillite</i>												
257								<i>- light brown vtz. to spherulitic, much hard.</i>												
258	<i>strong</i>				<i>weak</i>			<i>- mod. to strong qtz in fine py + lesser diss cp stockwork.</i>												
259								<i>1 cm gyp-carb in.</i>												
260								<i>- patches of qtz up to 15 cm in py + cp common.</i>												
261								<i>- occasional py-cp small salt 2mm or less</i>												
262								<i>qtz-py in wcp. usually have a central core of py in py on either side - cp if present is finely diss. in the qtz.</i>												
263								<i>0.7 qtz-py in wcp.</i>												
264								<i>0.3 cm py salt.</i>												
265								<i>0.2 cm carb in.</i>												
266	<i>strong</i>							<i>0.4 cm qtz in wcp.</i>												
267								<i>cp, mo.</i>												
268								<i>1.5 cm qtz-py in wcp.</i>												
269								<i>1.5 cm qtz-py in wcp.</i>												
270								<i>- strong qtz in stockwork in fine diss py + cp.</i>												
								<i>- local irregular inclusions of BFP.</i>												
								<i>- more sph in vales.</i>												
								<i>0.3 cm py salt</i>												
								<i>0.3 cm py salt.</i>												

COMPOSITE DRILL LOG

CORE SIZE : *1 1/4* SCALE : *1:100* PROJECT : *Paplar* HOLE No. : *P-61*
 CASING COLLAR ELEV. : GROUND ELEV. : DATE STARTED : PAGE No. *19* OF *21*
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : *-70°* AZIMUTH : *090°* TOTAL DEPTH : *312.7* m LOGGED BY : *T. Patton*

DEPTH (m)	ALTERATION				FRACTURING	MINERALS	GEOLOG	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (m)	ASSAYS				
	SILICA	SERPENTINE	CLAY	SEC. BIC													CHL/EPID.	% Cu	% Mo		
270																					
271	<i>strong</i>				<i>weak</i>			<i>4cm gtz in w py cp, mag.</i>				<i>2%</i>	<i>.4</i>	<i>28328C</i>		<i>270</i>		<i>0.77</i>	<i>0.001</i>		
272								<i>271.0-271.04cm B.P.P.</i>													
273	<i>strong to strong</i>				<i>weak</i>			<i>272.15-280.0 Biotite Feldspar Porphyry</i>													
274	<i>locally weak</i>				<i>weak</i>			<i>0.2cm py mlt. - gtz in stockwork varies from strong to solid lengths of gtz</i>													
275	<i>locally weak</i>				<i>weak</i>			<i>0.5cm at 70% gtz - py occurs as vults & fracture fillings in w py vcp. the gtz</i>					<i>.6</i>	<i>28329C</i>		<i>273</i>		<i>0.78</i>	<i>0.001</i>		
276								<i>0.3cm py m. - cp is finely diss in the gtz.</i>													
277																					
278	<i>strong</i>				<i>weak</i>			<i>276.9-279.1: avg 70%+ gtz w some sections having ~4% cp - py vults common.</i>					<i>1%</i>	<i>28330C</i>		<i>276</i>		<i>1.33</i>	<i>0.002</i>		
279																					
280								<i>Contact estimated ± 10cm. Argillite</i>													
281	<i>strong to extreme</i>				<i>weak</i>			<i>- light brown, aphanitic, relatively hard, - strong gtz mlt stockwork ± py in vults within the gtz w fine diss cp. - lengths over 15cm of solid gtz.</i>					<i>.7</i>	<i>28331C</i>		<i>279</i>		<i>1.12</i>	<i>0.002</i>		
282								<i>3cm gauge w carb sph hem py mag</i>													
283																					
284								<i>0.8cm gtz-py mlt cp. - moderate gtz stockwork, py vults common.</i>					<i>3%</i>	<i>28332C</i>		<i>282</i>		<i>0.32</i>	<i>0.001</i>		
285																					

D.D.H. - PC-62

COMPOSITE DRILL LOG

CORE SIZE : *NQ* *unclassified* SCALE : *1:100* PROJECT : *Disposal* HOLE No. : *PC-02*
 CASING COLLAR ELEV. : *909.5m* GROUND ELEV. : *909.2m* DATE STARTED : *May 14, 1981* PAGE No. *1* OF *16*
 COORDINATES : *5705.82 N. 12123.51 E.* DATE FINISHED : *May 18, 1981* REF. TO CLAIM CORNER : *Poplar*
 INCLINATION : *-070°* AZIMUTH : *090°* TOTAL DEPTH : *238.17 m* LOGGED BY : *G. L. ...*

DEPTH (m)	ALTERATION				FRACTURING MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (m)	ASSAYS			
	SiO ₂	FeO	CaO	RECO. P.D.												Cu %	Mb %		
0							0-0.31 m stick-up	91.0%											
0.31							0.31-7.1m OVERBURDEN												
0.31							0.31-6.1m CASING												
7.1							7.1m ARGILLITE												
							- tan color, very fine grained to aphanitic - very strongly fractured - limonite present on fts - sulphides contained in and around fts		82			40.1%	288900		7.1		<0.01	4000	
							23cm gouge zone			97	1%				9.0		0.01	4000	
							* limonite on fts present to a depth of 13m		11.9	93		40.1%	288910	97	12				
							20cm gouge zone		13.5					85			40.01	40,000	
							21cm gouge zone		14.6						15				
							Gouge contact @ 50' to CA FELDSPAR PORPHYRY		79										

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar
 CASING COLLAR ELEV. : GROUND ELEV. : DATE STARTED :
 COORDINATES : N. E. DATE FINISHED :
 INCLINATION : AZIMUTH : TOTAL DEPTH : m HOLE No. : 106
 PAGE No. 2 OF 16
 REF. TO CLAIM CORNER :
 LOGGED BY :

DEPTH (M)	ALTERATION				FRACTURING MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS			
	SWITCH	SEP. CLIN.	CLAY	SEC. BIO.												Cu %	Mn %		
15							<u>FELDSPAR PORPHYRY cont</u>		15.2	92		40.1%	28893C	92	15	0.01	40.00		
							- greenish-gray color - comp - 20% phenos → plagioclase + sericite → 1cm gouge zone - 80% qtz → silica + sericite - phenos range up to 2mm in size - phenos quite distinct - alt'n intens. moderate - argillic phase		17.4	97		40.1%	28894C	97	18	40.01	40.00		
20							- weak to moderate py vining - Qtz sh weakly developed - most sulphides are disseminated in siliceous zones - clay alt'n confined to phenos. → 0.8cm py unit → 1cm gouge zone → 1cm py unit		20.4	97		40.1%	28895C	97	21	0.01	40.00		
							21.5-22.8 - Fault zone - moderately cemented Fault zone w/ mod cementing → 2cm qtz unit		23.5	96	3%	40.1%	28896C	96	24	0.01	40.00		
25							23.2 - Rock has a greener color to its matrix - phenos alt'd to sericite - no clay - phyllic alt'n phase → 1.4cm qtz-py unit		26.5	95		40.1%	28897C	95	27	0.01	40.00		
							25.9 - 27.6m - Rock very broken up → 4cm gouge zone → 1cm py-gtz unit → 1cm qtz unit		29.6										

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : HOLE No. :
 CASING COLLAR ELEV. : GROUND ELEV. : DATE STARTED : PAGE No. 4 OF 16
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : m LOGGED BY :

DEPTH (M)	ALTERATION			FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS			
	STRONG	MOD	WEAK													Cu %	Mn %		
45							ARGILLITE cont												
	STRONG	MOD	WEAK				45.9m 1cm breccia contact @ 55° to C.A.		81	1 1/2 %			28903C		45				
	STRONG	MOD	WEAK				FELDSPAR PORPHYRY - 2cm quartz zone - 1cm py-qtz unit - greenish grey color matrix - composition - 15-20% fsp + sericite - 80-85% gm. silica + sericite - phenos range up to 2mm in size - fracturing = moderate - alt'n intensity - strong - phyllic phase		94	4 %	40.1 %		28903C	90	48	0.01	0.001		
	STRONG	MOD	WEAK				sharp contact @ 30° to C.A. 48.9m - Moderate py vning - Qtz slw weakly developed		89				28904C	89	48	0.01	0.001		
	STRONG	MOD	WEAK				ARGILLITE - tan to pale orange color - strong silicification - Numerous H/L py vnlts		89	1 - 1 1/2 %			28904C	89	48	0.01	0.001		
	STRONG	MOD	WEAK						97				28905C	97	51				
	STRONG	MOD	WEAK				53.0m sharp contact @ 45° to C.A. FELDSPAR PORPHYRY		97				28905C	97	51	0.01	0.001		
	STRONG	MOD	WEAK						97				28905C	97	51	0.01	0.001		
	STRONG	MOD	WEAK				- as above		95				28906C	95	54	0.01	0.001		
	STRONG	MOD	WEAK				2cm qtz-py vnlts 0.8cm py vnlts		95	4 %	40.1 %		28906C	95	54	0.01	0.001		
	STRONG	MOD	WEAK						90				28907C	90	57	0.01	0.001		
	STRONG	MOD	WEAK				4cm py vnlts Argillite frags 2cm py vnlts		90				28907C	90	57	0.01	0.001		

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. :
 CASING COLLAR ELEV. : GROUND ELEV. : DATE STARTED : PAGE No. 6 OF 16
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : m LOGGED BY :

DEPTH (M)	ALTERATION				GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS	
	SP	PO	SI	SC											Cu %	Mn %
75	Strong	Strong	Strong	Strong	moderate PY - MoS ₂ - (cp)	FELDSPAR PORPHYRY cont. 1.2cm qtz-py unit Qtz s/w weakly developed.		75.3	96	2%	40.10%	28913C	96	15	40.01	40.00
78	Strong	Strong	Strong	Strong	moderate PY - MoS ₂ - (cp)	- periodic patches of blue MoS ₂ rich rock MoS ₂ is very fine grained 0.7cm py unit		78.3	83	2%	0.10% Mo 40.1%	28914C	83	78	40.01	0.00
81	Strong	Strong	Strong	Strong	moderate PY - (cp)	1cm py gouge 80.8m Gouge contact @ 40° to c.a. ARGILLITE - tan to grey color - very strong silicification - mod py units - very strong fracturing - rock very broken up		81.4	126	2%	40.1%	28915C	110	81	40.01	40.00
84	Strong	Strong	Strong	Strong	moderate PY - (cp)	2cm gouge zone 1cm gouge zone sulphides contained in fractures. 3cm py unit		82.9	70	2%	40.1%	28916C	60	84	40.01	40.00
86	Strong	Strong	Strong	Strong	moderate PY - (cp)	Broken up contact 1cm py unit FELDSPAR PORPHYRY as before		86.3	49	3%	40.1%	28917C	70	87	40.01	0.00
89	Strong	Strong	Strong	Strong	moderate PY - (cp)	* rock very broken up 1cm gouge zone 1.8cm py unit		89	66	3%	40.1%	28917C	70	89	40.01	0.00
90	Strong	Strong	Strong	Strong	moderate PY - (cp)			102	60	3%	40.1%	28917C	70	90	40.01	0.00

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : *Papini* HOLE No. : *P0001*
 CASING COLLAR ELEV. : GROUND ELEV. : DATE STARTED : PAGE No. *7* OF *16*
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : *m* LOGGED BY :

DEPTH (M)	ALTERATION				FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED Cu	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS	
	SILICA	PERLITE	CLAY	SEC. PY													Cu %	Mn %
70								FELDSPAR PORPHYRY cont.										
								* Alt'n intensity - strong - phenes often very indistinct.		87	20.1%		28918C	87		90	40.01	0.001
								→ 0.6cm py unit										
								→ 1cm gouge zone										
								→ 1cm py-gtz unit	* Minor H/L gypsum lining present									
								→ 1cm gouge zone.										
								→ Argillite frags										
95								→ 4cm gouge zone	Numerous H/L py units.									
								→ 1cm py unit	* Moderate clay on frts									
								→ 3cm gouge zone										
								96.9m										
								ARGILLITE										
								→ 4cm gouge zone	- tan color & aphanitic									
									- contains numerous small sections of feldspar porphyry									
								→ 2cm gouge zone	- sulphides contained along frts									
									- very strong silicification									
								→ 2.1cm gtz unit	- gtz s/w weakly developed									
								→ 1.4cm gtz unit	* A lot of the fractures are filled w/ chalcedony & clay									
								→ F. Porph.										
								→ 1cm gouge zone										
								→ 8cm gtz unit										
								→ 1.2cm gouge zone										
								→ 1.5cm gtz unit										
100																		

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : *Paplar* HOLE No. : *20*
 CASING COLLAR ELEV. : GROUND ELEV. : DATE STARTED : PAGE No. *10* OF *10*
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : *m* LOGGED BY :

DEPTH (M)	ALTERATION SILICA SERPENTINE CLAY FERR. OX.	FRACTURING MINERALS GEOLOGY	COMMENTS : DESCRIPTIVE GEOLOGY	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS	
												Cu %	Mn %
135			→ contact @ 10" to C.A. ARGILLITE - tan to grey color - very strong silification - weak qtz s/w - mod. py veins - strongly fractured - sulphides contained in fractures - silica filling present around fractures, with minor sericite										
			→ chl filled frt - 1cm		88			40.1%	28933C	88		40.0	0.001
			→ 1cm qtz vein w/ py		39			40.1%	28934C	97		40.0	40.001
			→ 0.7cm py unit		97			2%					
			* A lot of chlorite filled frts										
			→ 1cm gouge zone		141.7			40.1%	28935C	92		40.0	40.001
			Propylitic alt'n phase										
			→ 1cm qtz vein		92			40.1%	28936C	94		40.0	0.001
			→ 2x0.7cm py units		144								
			→ sharp contact @ 70" to C.A. 145.3 - 147.2 - FELDSPAR PORPHYRY - has a wuggy texture that is filled w/ py + qtz. Feldspar Porphyry wuggy textures w/ qtz + py Broken Contact		144.7			40.1%	28936C	94		40.0	0.001
			147.2 - 152.1 - Argillite has a patchy black color mixed w/ the tan color - mineral is very fine grained and has a brown streak. Also specular hematite										
			→ 1cm py unit		147.2			40.1%	28937C	94		40.0	0.001
			→ weak gouge zone		94								

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-11
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 11 OF 16
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : m LOGGED BY :

DEPTH (M)	ALTERATION				FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE RECY/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES		SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS	
	SILICA	SERICITE	CLAY	CHLORITE								%	% ESTIMATED				Cu %	Mn %
150								ARGILLITE cont.		150.9	94		20.1%	28938C	75	150	20.01	0.00
								* Mineral that forms the blackish cast to the rock could be specular hematite - see some red hematite * Needs microscopic examination Qtz slw weakly developed		152.7	62		20.1%			53		
								Chlorite present along fractures * Propylitic alt'n phase		154.2	116		20.1%	28939C	95	156	20.01	20.00
155								156.2 - start of weak pervasive chlorite		157.3	89		20.1%	28940C	88	159	20.01	20.00
								Numerous H/L py units.		159.7	88		20.1%	28941C	108	162	0.01	20.00
								158.9 - 155.0 - some patchy blackish cast to the rock - sulphides (py + epy) found diss. in these patches * Clay present on fractures		162.8	116		20.1%	28942C	93	165	20.01	20.00

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-62
 CASING COLLAR ELEV. : GROUND ELEV. : DATE STARTED : PAGE No. 13 OF 16
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : m LOGGED BY :

DEPTH (M)	ALTERATION				FRACTURING MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS	
	SILICA	SERICITE	CLAY	SEC. B.I.O.												CHLORITE	Cu %
180							ARGILLITE cont										
							→ 2cm gouge zone		181.4	85		20.1%	28948C	87	180	20.0	20.00
							* silica-sericite-chlorite alt'n confined to salvage around frts.										
							→ 1cm gouge zone										
							→ 1.2cm qtz vnit.			90							
							Qtz s/w weakly developed										
185							→ 1cm qtz vnit.		184.4			20.1%	28949C	90	183	20.0	20.00
							→ 10cm gouge zone			90							
							Moderate Hlt py vnits										
							→ 1.2cm qtz vnit.		187.5			20.1%	28950C	91	186	20.0	20.00
											1/2 - 2%						
							→ 3cm gouge zone.			92							
							→ 0.7cm qtz vnit.										
							→ 0.6cm gouge zone					20.1%	28951C	88	189	20.0	20.00
							189-198 Weak black Hem-Mt-Chl patches										
							→ 1.5cm py vnit.		190.5							20.0	20.00
							→ 1cm gouge zone.			83							
							→ 1.5cm py vnit w/ qtz										
							→ 1cm gouge zone		193.0							20.0	20.00
195																	

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-62
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 14 OF 16
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : m LOGGED BY :

DEPTH (M)	ALTERATION				FRACTURING MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES		SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS			
	SILICA	SERICITE	CLAY	SEC BIO							CHLORITE	% ESTIMATED				Cu %	Mo %		
195							→ 2cm gouge zone		195.4	94	20.1%	28953C	94	195					
							* chlorite content increases in the Hem-Mt rich zones. Qtz sw decreases to very weak									20.01	20.00		
							Propylitic alt'n phase.		197.7					198					
							→ 1cm qtz unit.		200.3	89	20.1%	28954C	90	200	20.01	20.00			
200							Moderate Hlt py vning							201					
							→ 3.5cm py-qtz unit												
							→ 0.8cm qtz unit.		203.3	98	20.1%	28955C	95	203	20.01	0.00			
							Sulphides are all found in fractures or silicious zones							204					
							→ 2x0.7cm py units		206.4	90	20.1%	28956C	87	206	20.01	0.00			
							→ 1.3cm qtz unit.												
							→ 2cm qtz unit.		208.2	83		28957C		208					
							→ 1cm gouge zone.												
210									210	75	20.1%	28957C	78	210	20.01	20.00			

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : HOLE No. : PC-62
 CASING COLLAR ELEV. : GROUND ELEV. : DATE STARTED : PAGE No. 15 OF 16
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : m LOGGED BY :

DEPTH (M)	ALTERATION					FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	R ₂ % ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS			
	SILICA	SERICITE	CLAY	SEC. BIO	CHLORITE													Cu %	Mo %		
210									ARGILLITE cont.		210										
									→ 20cm gouge zone		211.2	83		40.1%	28958C	89			20.0	40.00	
									→ 2cm py unit.												
									→ 0.7cm qtz unit												
									Sulphides are fracture controlled												
									→ 3cm gouge zone.		214			40.1%	28959C	90			20.0	0.00	
215									→ 1cm py unit.												
									→ 0.7cm qtz unit												
									→ 1cm qtz unit												
									→ 0.7cm py unit. 217-217.5 - Black (Hem-Mt) patches		217	92		40.1%	28960C	90			0.02	0.00	
									→ 0.8cm qtz unit												
									→ 1cm py unit												
									→ 2cm gouge zone												
									→ 0.8cm qtz unit.		220.4			40.1%	28961C	93			20.0	40.00	
220									→ 2.6cm py unit.												
									→ 2cm gouge zone.												
									→ 1cm qtz unit		222.4	95									
									→ 0.9cm py unit.		224			40.1%	28962C	93			0.01	40.00	
225																					

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-62
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 16 OF 16
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : m LOGGED BY :

DEPTH (M)	ALTERATION				FRACTURING MINERALS	GEOLOGY	COMMENTS:	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS			
	SILICA	SERICITE	CLAY	SEC BIO												CHLORITE	Cu %	Mo %	
225							ARGILLITE cont												
							→ 0.6cm py unit			92			28963C	92					
							→ 2.5cm qtz unit			92		40.1%							
							→ 15cm gouge zone			92									
							→ 1.2cm qtz unit				1 1/2 - 2%		28964C	90					
230							→ 0.7cm py unit					40.1%							
							→ 1cm gouge zone.			88									
							→ Gouge contact					40.1%							
							→ 0.4cm gal-sph unit						28965C	92					
							→ 1cm gouge zone												
							→ Gouge contact @ 30° to C.A												
							→ 233.1 m												
							QUARTZ FELDSPAR PORPHYRY												
							- olive green, aphanitic gm.												
							- composition - 8% qtz "eyes"												
							- 4% fspar → ser												
							- 1% bin → clay												
							- 1% bin → chlorite												
							- qtz phenos are rounded and range up to 4mm in size												
							→ 1cm gouge zone												
							→ 238.7 m End of Hole												
240																			

Not Sampled

D.D.H. - PC-47

COMPOSITE DRILL LOG

CORE SIZE : NQ SCALE : 1:100 PROJECT : Poplar HOLE No. : PC-47 ext.
 CASING COLLAR ELEV. : 910.61 m GROUND ELEV. : 909.7 m DATE STARTED : May 16/81 PAGE No. 23 of 35
 COORDINATES : 5998.16 N. 11,588.80 E. DATE FINISHED : May 18/81 REF. TO CLAIM CORNER : Poplar #3
 INCLINATION : -60° AZIMUTH : 090° TOTAL DEPTH : 502.0 m LOGGED BY : T. Pollock

DEPTH (m)	ALTERATION					MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (m)	ASSAYS	
	SILICA	SERICITE	CLAY	SEC BTO	CHL/EPID												K-FELDSP	FRACTURING
315									97.2%									
316																		
317																		
318																		
319								Start of extension 319.2 m.										
320								0.2m gtz in. Biotite Feldspar Porphyry - varies from a strongly porphyritic rock w 35% white, soft subhedral plag phenos, + 2% burn bio ghosts in a red-brown aphanitic matrix of K-feldspar + gtz.			94	1%	25	2833BC	94	320-321	0.28	0.015
321																		
322	moderate	weak	moderate															
323	moderate	weak	moderate					0.4 smtz in. py sp. rock w blk sec. bio - plag phenos if present give the rock a mottled look.			100	35	2839C	98	322-323	0.25	0.008	
324								0.2m purple gtz-carb int wip. - few veins, little py. - moderate potassic alt.										
325																		
326	moderate	moderate	locally weak								85	35	28340C	92	325-326	0.34	0.007	
327								- inner phyllic alteration										
328	moderate	moderate	locally weak									7%	28341C	100	327-328	0.39	0.038	
329								1cm gtz in w cp, mo, carb. - in has several offshoots.			103	.45 + .10	28341C	100	328-329	0.39	0.038	
330																		

COMPOSITE DRILL LOG

CORE SIZE : NQ SCALE : 1:100 PROJECT : Poplar HOLE No. : PL-47
 CASING COLLAR ELEV. : 910.61 GROUND ELEV. : 909.7 DATE STARTED : PAGE No. 25 OF 35
 COORDINATES : 5998.61 N. 11,588.8 E. DATE FINISHED : May 18/81 REF. TO CLAIM CORNER :
 INCLINATION : -60° AZIMUTH : 090° TOTAL DEPTH : 502.0 m LOGGED BY : T. Pollock

DEPTH (M)	ALTERATION				FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/MOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED Cu	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS	
	SILICA	SERICITE	CLAY	SEC 1210													CHL/EPSTO	% Cu
345								0.2 cm gtz-corb vult								345		
346	moderate	moderate	locally mod.		weak			- white to green in colour, hard, - generally porphyry texture does not stand out.		349	87%		2	28347C	97		0.30	0.008
347	moderate	moderate	locally mod.		weak			- weak stockwork of mainly hairline			96							
348								7 cm gouge. gtz vults.										
349								15 cm zone of brecciated BFP + ptz, mag, PY, CP, BPP.		349				28348C	97		0.30	0.006
350								* locally over lengths of 10-15 cm, plg phnes have a high clay content + are weathered out			98							
351																		
352										352			.25	28349C	95		0.29	0.005
353	weak	moderate			moderate	weak		Two 0.5 cm gtz vults w fine PY, CP + no			93			28350C	97		0.25	0.008
354	moderate	moderate			moderate	weak		0.4 cm gtz vult in minor cp.										
355								- alteration is very patchy, best up where the rock is blackish from sec. bio.		355		1%						
356	moderate	moderate			moderate	weak		- the core is very hard										
357	moderate	moderate			moderate	weak		- K-feldspar is seen in the matrix to the phenocrysts + in vults.										
358	moderate	moderate			moderate	weak		- little py + vults are a few mm.										
359	moderate	moderate			moderate	weak		Fracture coated w PY.			101			28401C	98		0.23	0.009
360								- porphyritic texture stands out well		502								
								- 35% white plg phnes										
								- 5% bio black to light brown ghosts										
								- matrix aphanitic + mainly K-feld + gtz										
										96			.25					

COMPOSITE DRILL LOG

CORE SIZE : *NQ* SCALE : *1:100* PROJECT : *Poplar* HOLE No. : *PC-47*
 CASING COLLAR ELEV. : *910.61* GROUND ELEV. : *909.7* DATE STARTED : PAGE No. *26* OF *35*
 COORDINATES : *5998.61 N 11,588.8 E* DATE FINISHED : *May 18/81* REF. TO CLAIM CORNER :
 INCLINATION : *-60°* AZIMUTH : *090°* TOTAL DEPTH : *502.0 m* LOGGED BY : *T. Pollock*

DEPTH (M)	ALTERATION					MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS	
	SILICA	SERPENTINE	CLAY	SEC. BIO.	K-Feldspar												% Cu	% Mo
360																		
361	→																	
362	weak →	moderate →	weak-mod →					15 cm gouge.		361.5	96	86.2		28402C	93	360	0.20	0.007
363			weak →					1 cm cp py unit.			90					363		
364			weak →															
365			locally weak →					0.4 cm py unit.		364.0		.2		28403C	93	365	0.20	0.003
366			weak →					Two 0.2 cm py unit. - very weak diss ma, few veins, - sec bio is patchy.										
367											97	87				366		
368								0.2 cm py - carb in 5 sph.		367.0		.3		28404C	98	368	0.26	0.003
369																		
370											99							
371	weak →							10 cm gouge.		370.0		.2		28405C	99	369	0.34	0.010
372								15 cm gouge, py + mo.										
373								rock varies from med to 40% white, very soft, often weathered out play phases, + 5-10% horn bio, in an red soft carbonitic matrix of play + py, to a greenish										
374								0.1 cm py unit in PY rising into REP. rock is green play phases that are slightly harder as is the matrix.		374.0		19.0	.1	28406C	98	372	0.27	0.008
375								Contact sharp @ 90° 374.3 - 380.6 m Argillite.								375		

COMPOSITE DRILL LOG

CORE SIZE :	NQ	SCALE :	1:100	PROJECT :	Peper	HOLE No. :	PC-47
CASING COLLAR ELEV. :	910.61	GROUND ELEV. :	909.7	DATE STARTED :		PAGE No. :	27 OF 35
COORDINATES :	5998.61 N. 11,588.8 E.	DATE FINISHED :	May 18/81	REF. TO CLAIM CORNER :		LOGGED BY :	T. Billock
INCLINATION :	-60°	AZIMUTH :	090°	TOTAL DEPTH :	502.0 m		

DEPTH (m)	ALTERATION					MINERALS	GEOLOGY	COMMENTS :	AVG. CORE RECY/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (m)	ASSAYS			
	SILICA	SERICITE	CLAY	SEL. BZO	CHL. / EPID.												K-feldspar	FRACTURING	%	%
375								Argillite								375				
376								0.6 cm qtz-py unit. - light green to brown, aphanitic to v.f.g., relatively hard,			100		.3	28407C	100	376	0.33	0.010		
377								0.3 cm qtz-sid in w mag + cp. - qtz inks common, sometimes in cp. - many qtz inks have a light orange-brown mineral (sid.)		377	1%									
378	weak							0.5 cm plg in w sp py. - finely diss cp + mo. - local small (1cm or less) zones of B.F.P.			98		.25	28408C	97	378	0.27	0.008		
379																				
380								Contact sharp @ 25°		380.1										
381								Biotite Feldspar Porphyry								381				
382								15 cm gouge - mottled green-white + brown, rel. hard,			92		.2	28409C	95	382	0.25	0.035		
383	weak	mod.	locally weak					0.5 cm qtz in w no. - locally plg pheno have a clay content + are weathered out. 10 cm gouge. - gouge zones common.		382.9										
384								0.7 cm qtz in w py cp, no.								384				
385																				
386								0.2 cm carb unit.		385.9			.1	28410C	98	386	0.25	0.018		
387																				
388																				
389								30 cm gouge. - rock here is highly broken + gouged, 0.5 cm qtz in. much clay			101					389	0.35	0.019		
390								.9 m gouge		389.7			.1	28411C	101	390				

COMPOSITE DRILL LOG

CORE SIZE : *NQ* SCALE : *1:100* PROJECT : *Poplar* HOLE No. : *PC-47*
 CASING COLLAR ELEV. : *910.61* GROUND ELEV. : *909.7 m* DATE STARTED : PAGE No. *29* OF *35*
 COORDINATES : *5998.61 N, 588.8 E* DATE FINISHED : *May 18/81* REF. TO CLAIM CORNER :
 INCLINATION : *-60°* AZIMUTH : *090°* TOTAL DEPTH : *502.0 m* LOGGED BY : *T Pollock*

DEPTH (M)	ALTERATION					FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED Cu	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS			
	SILICA	SERPENTINE	CLAY	SEC. BIO.	CHL / EPID.													% Cu	% Mo		
405									<i>Biotite Feldspar Porphyry</i>								405				
406									<i>0.2cm qtz vlt in sp. 18</i>								405	0.51	0.018		
407	<i>weak</i>	<i>moderate</i>				<i>weak</i>			<i>0.8cm qtz in vlt py, cp. 18</i>		<i>102</i>		<i>17%</i>	<i>28417C</i>	<i>102</i>		408				
408																					
409																					
410																					
411									<i>0.2cm py vlt.</i>								411				
412									<i>1cm qtz in vlt py, sp. 18</i>								411				
413									<i>0.4cm cal-sph in.</i>								414				
414									<i>0.7cm qtz in vlt cp py.</i>								414				
415									<i>413.0-413.6 highly broken</i>								414				
416	<i>weak</i>	<i>moderate</i>							<i>1cm in of sid qtz, minor</i>								414				
417									<i>1.7cm gauge @ 90°</i>								417				
418									<i>0.2cm py vlt</i>								417				
419									<i>0.8cm qtz in vlt py, sp.</i>								417				
420									<i>1cm qtz in vlt py, sp.</i>								420				
									<i>0.5cm qtz in vlt py, sp.</i>								420				
									<i>similar to above, matrix pink + made of k-feld + qtz, local qtz vlt stockwork, diss cp + me, quite homogeneous, plg phenas stand out as a matrix, bio phenas very faint.</i>								420	0.31	0.009		

COMPOSITE DRILL LOG

CORE SIZE : NQ SCALE : 1:100 PROJECT : Poplar HOLE No. : PC-47
 CASING COLLAR ELEV. : 910.61 GROUND ELEV. : 909.7 DATE STARTED : PAGE No. 31 OF 35
 COORDINATES : 5998.61 N. 11,588.8 E. DATE FINISHED : May 18/81 REF. TO CLAIM CORNER :
 INCLINATION : -60° AZIMUTH : 090° TOTAL DEPTH : 502.0 m LOGGED BY : T Pollock

DEPTH (M)	ALTERATION					MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED Cu	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS				
	SILICA	SERICITE	CLAY	SEC BIO	CHL/EPID												K-Feldspar	FRACTURING	% Cu	% Mo	
435																435					
436								Biotite Feldspar Porphyry 2 cm vuggy qtz in w py mag, hem, sph. ← 435.0 - 436.3 m: much qtz, py, mag, hem & sph, slightly porous.			95	49%	.1	28427C	95		435	0.53	0.025		
437	weak							gouge to clay.													
438	moderate							20 cm gouge. - greenish beige in colour, faintly porphyritic relatively hard.		438						438					
439	weak							20 cm gouge - rock is quite broken up to several gouges + mud clay.													
440								0.7 cm sph, qtz in 6 cm v. of qtz, sph, gal, hem, mag			100		.1	28428C	100		438	0.51	0.012		
441								7 cm v. sph, gal, cp, py. qtz, cp, py, mag, hem. - large v. of sph, gal, mag, hem		441						441					
442																					
443											97	12	.25	28429C	97		441	0.49	0.010		
444	weak							0.5 cm qtz in. - k-feldspar increasing again - outer potassic alteration zone. - pinkish-white aphanitic matrix w 30% phg planes as a white mottling. - 2-3% hem bio.		441						444					
445	weak-moderate																				
446	weak							- few large v. (> 3mm), very weak qtz w/ stockwork.			96		.25	28430C	96		444	0.36	0.018		
447																					
448								15 cm gouge.													
449	weak							0.5 cm qtz in w sph, py, cp, mo. 20 cm strong hairline stockwork = sp.			95	12	.25	28431C	95		447	0.40	0.010		
450								0.2 cm qtz in w py, sph, cp. 1.2 cm qtz in w py.									450				

COMPOSITE DRILL LOG

CORE SIZE : NQ SCALE : 1:100 PROJECT : Poplar HOLE No. : PC-47
 CASING COLLAR ELEV. : 910.61 GROUND ELEV. : 909.7 DATE STARTED : PAGE No. 32 OF 35
 COORDINATES : 5988.61 N. 11,588.8 E. DATE FINISHED : May 18 1981 REF. TO CLAIM CORNER :
 INCLINATION : -60° AZIMUTH : 090° TOTAL DEPTH : 502.0 m LOGGED BY : T. Block

DEPTH (M)	ALTERATION				FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE NO.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS			
	SILICA	SERICITE	CLAY	CHL. EPID.													K-feldspar	% Ca	% Mo	
450																				
451	weak	weak			moderate			Biotite Feldspar Porphyry		450.2						450				
452	weak	weak			weak			pink to white mottling from plagioclase ≈ 30% white plagioclase that do not stand out from the matrix - are mod. soft. - bio phenos occur as light brown ghosts + are not easily seen.			100	1%	.2	28432C	100		0.38	0.012		
453								- matrix is pink + hard → qtz + k-feldspar		453.2						453				
454								1.5cm gouge - minor qtz with (thin line) stockwork - locally more 30cm the rock has 1-2% fine												
455								1cm qtz in 0.3cm sil. envelopes. 0.7cm qtz in 0.5cm mag. 2.0cm gouge			91		.3	28433C	91		0.43	0.011		
456								1.5cm qtz in 0.5cm mag. horn, sp, py, mo.		456.3						456				
457													.35	28434C	100		0.47	0.019		
458																				
459								0.4cm qtz in 0.5cm sp.		459.3						459				
460								0.6cm qtz in 0.5cm sp.												
461	weak	weak	weak		strong			1cm qtz in 0.5cm sp, py, mo			96	1%	.25	28435C	96		0.43	0.011		
462								strong potassic alteration, granitic hard matrix to the phenos is pink in colour → much k-feldspar. on first impression the rock looks like a mg. granite.		462.4						462				
463								0.5cm carb with												
464								0.4cm qtz in sp.			96		.4	28436C	96		0.43	0.010		
465																465				

COMPOSITE DRILL LOG

CORE SIZE : *NQ* SCALE : *1:100* PROJECT : *Poplar.* HOLE No. : *PC-47*
 CASING COLLAR ELEV. : *910.61* GROUND ELEV. : *909.7* DATE STARTED : PAGE No. *33* OF *35*
 COORDINATES : *5,988.61 N. 11,588.8 E.* DATE FINISHED : *May 18/81* REF. TO CLAIM CORNER :
 INCLINATION : *-60°* AZIMUTH : *090°* TOTAL DEPTH : *502.0* m LOGGED BY : *T. Pollock*

DEPTH (m)	ALTERATION				GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (m)	ASSAYS	
	SILICA	SERPENTINE	CLAY	SEC. BIO											% Cu	% Pb
465						0.3cm gangue w/ py, sp. Biotite Feldspar Porphyry								465		
466						0.5cm gtz in w/ py, ha, m, sp, calc, sil, ha, iron. - middle potassic alteration zone.									0.28	0.018
467						1cm gangue. - sec. K-feldspar moderate to strong.		93			3		93	468		
468						1cm gangue. - sec. Bio. weak, locally moderate.										
469						only locally over lengths max of 10cm do phg phas stand out. - generally they fade into the matrix + where sec.										
470						1cm gtz in w/ py, sp. bio is strong they are not visible. + generally quite hard.									0.46	0.007
471						- the rock is hard, + pinkish in color, - no that is visible is present in the		101						471		
472						0.8cm gtz in w/ sp larger gtz. - rock mainly has a washed out look.										
473						- local zones of mod. gtz in stockwork									0.33	0.006
474						1cm gtz in w/ py, sp.		95						474		
475						0.5cm gtz in w/ sp, mo.										
476						1cm gtz in w/ sp, gtz, sp.									0.54	0.022
477						10cm gangue.		97						477		
478						0.5cm gtz in w/ py, sp. local distances over 10cm where the rock has a 1-2% mag. content the sp is 1-1.5%										
479						0.4cm gtz in w/ sp, mo									0.50	0.010
480								95						480		

COMPOSITE DRILL LOG

CORE SIZE : NQ SCALE : 1:100 PROJECT : Poplar HOLE No. : PC-47
 CASING COLLAR ELEV. : 910.61 GROUND ELEV. : 909.7 DATE STARTED : PAGE No. 34 OF 35
 COORDINATES : 5,988.61 N. 11,588.8 E. DATE FINISHED : May 18/81 REF. TO CLAIM CORNER :
 INCLINATION : -60° AZIMUTH : 090° TOTAL DEPTH : 502.0 m LOGGED BY : T. Pollock

DEPTH (M)	ALTERATION					GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE NO.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS			
	SILICA	SERICITE	CLAY	SEC. BIO.	CHL. EPID.											K-FELDSPAR	FRACTURING	MINERALS	% Cu
480							Biotite Feldspar Porphyry								480				
481	weak	weak					0.3 cm qty micro, cp.		97		12	.5	28442 C	98	481	0.39	0.010		
482	weak	weak					- similar to above, - slight increase in sec. bio.		98					98	482				
483															483				
484							0.8 cm qty micro, mag, py, sph.		98.7						484				
485															485				
486							1.2 cm qty micro, minor py, sph.	- mid-potassic alt. zone, rock is pink from sec. K-feldspar + is hard. - sec. bio. is patchy but where it does occur it is weak to strong.		97		.5	28443 C	97	486	0.41	0.011		
487								- best sp in the zone of sec. bio.							487				
488								- plug phas are anhedral white, weak. soft, + often blend into the pink matrix							488				
489							1 cm qty micro	- plug phas often give a white mottling to the rock.		100		.6	28444 C	100	489	0.52	0.008		
490								- .5-1% diss mag, little no seen.							490				
491	weak	weak													491				
492							1 cm pyrox			95		.35	28445 C	95	492	0.40	0.008		
493															493				
494							3. aug 0.5 cm py-carb mts. Zircon	- local sections of very strong sec. K-feldspar - rock is salmon pink		99	152	.4	28446 C	99	494	0.36	0.004		
495															495				

D.D.H. - PC-63

COMPOSITE DRILL LOG

CORE SIZE : NQ wireline SCALE : 1:100 PROJECT : Poplar HOLE No. : PC-63
 CASING COLLAR ELEV.: 916.9m GROUND ELEV.: 916.8m DATE STARTED : May 19, 1981 PAGE No. 1 OF 19
 COORDINATES : 5807.06 N. 11355.13 E. DATE FINISHED : May 21, 1981 REF. TO CLAIM CORNER :
 INCLINATION : -45° AZIMUTH : 090° TOTAL DEPTH : 278.3 m LOGGED BY : G.L. Holland

DEPTH (m)	ALTERATION	FRACTURING	MINERALS	GEOLOGY	COMMENTS:	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (m)	ASSAYS					
0					DESCRIPTIVE GEOLOGY	97.3%													
					0-0.31m Stick-Up														
5					0.31 - 18.9m OVERBURDEN														
10																			
15																			

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : DC-63
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 2 of 19
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : LOGGED BY :

DEPTH (m)	ALTERATION				FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE RECY/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED Cu	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (m)	ASSAYS	
	SILICA	SERICITE	CLAY	FE OXID													Cu %	Mo %
15								OVERBURDEN										
20	mod. str	mod			str.	py	19.5m 18.9-19.5m CASING IN BEDROCK SILICIFIED ARGILLITE	<ul style="list-style-type: none"> - tan color - str. fine that has been silica-sericite - altered. Ftz has strong sil-ser envelopes - Mod. py vining - wk qtz sil 		94	1/2 %	<0.1%	28450C	94	19.5	20.01	0.003	
							21.3m Gouge contact @ 25° to G.A. FELDSPAR PORPHYRY	<ul style="list-style-type: none"> - 0.7cm py unit - 20cm gouge contact with - 2cm gouge zone - greenish grey color - very strongly altered - phyllic alt'n phase - phenos very indistinct believe that alt have been destroyed. - rock has a patchy or mottled texture due to zones of intense silica-sericite - clay alt'n confined to phenos. - Numerous H/L py units - Phenos range up to 2mm in size - all fspar → sericite + clay - qtz s/w weakly developed 		92		<0.1%	28451C	92	21	20.01	0.002	
25	strong	strong	weak		moderate	py-Hem-(cpy)		<ul style="list-style-type: none"> - 0.5cm py unit. - 0.5cm py unit. - 1.0cm py unit - sulphides periodically range up to 10%, but over short (0.5m) distances. 		100	5-7 %	<0.1%	28452C	98	24	20.01	0.002	
							0.5cm chl filled pit			92		<0.1%	28453C	95	27	20.01	0.001	
30																		

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-63
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 3 OF 99
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : m LOGGED BY :

DEPTH (m)	ALTERATION			FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (m)	ASSAYS			
	SILICA	SERICITE	CLAY													Cu %	Mo %		
30	strong	strong	weak	mod	py - (cpy)		FELDSPAR PORPHYRY cont.			92	5-7%	40.1%	28454C	140	30	0.01	0.001		
	strong	strong	weak	mod	py - (cpy)		Minor chlorite along frts		31.1	166	5-7%	40.1%	28454C	140		0.01	0.001		
	strong	strong	weak	mod	py - (cpy)		sharp contact @ 25° to C.A.												
	strong	strong	weak	mod	py - (cpy)		32.7m ARGILLITE		32.9	116			28455C	100	33				
	strong	strong	weak	mod	py - (cpy)		- pale green to tan color - green color due to v strong sericite-silica - ground frts - up to 0.6cm wide - fracting - very strong - healed - weak qtz s/w - moderate to weak H/L py vnits - Rock is devoid of major vnits		34.1 34.4	88	2-2 1/2	40.1%	28455C	100		40.01	0.001		
35	strong	strong	weak	mod	py - (cpy)		- sulphides mainly fracture controlled												
	strong	strong	weak	mod	py - (cpy)		zone of disjointed 97.8 larger py and qtz vnits begin to appear.		36.6	96		40.1%	28456C	95	36	40.01	0.001		
	strong	strong	weak	mod	py - (cpy)		str. py vnits												
	strong	strong	weak	mod	py - (cpy)		0.7cm py unit. 1cm qtz unit.		39.6	100	1 1/2 - 2%	40.1%	28457C	100	39	40.01	0.002		
40	strong	strong	weak	mod	py - (cpy)		1cm qtz unit w py.												
	strong	strong	weak	mod	py - (cpy)		1.2cm qtz unit w py.		42						42				
	strong	strong	weak	mod	py - (cpy)		0.8cm py unit												
	strong	strong	weak	mod	py - (cpy)				43.6	87		40.1%	28458C	91		0.01	0.001		
45	strong	strong	weak	mod	py - (cpy)										45				

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-125
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 4 OF 19
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : m LOGGED BY :

DEPTH (M)	ALTERATION				FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED Cu	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS			
	SILICA	SERICITE	CLAY	SEC B.I.O.													Cu %	Mo %		
45								ARGILLITE cont												
								→ 0.8cm py unit Qtz s/w weakly developed		46	96		<0.1%	28459C	96		45	40.01	0.002	
								→ 1.2cm qtz unit w chl.												
								→ 1cm py unit. 49-54 - weak patches of black-sec biotite rich argillite			95		<0.1%	28460C	97		48			
50								→ 1cm py unit		49.7								40.01	0.002	
								→ 1.3cm qtz-py unit			98		<0.1%	28461C	97		51			
								Numerous 1/2 py units.				1 1/2 %								
								→ 0.8cm py unit		52.7			<0.1%	28461C	97		54	40.01	0.001	
								cluster of py units			97		<0.1%	28462C	100		57			
55								Alt'n intensity moderate - upper phyllic to wk potassic phase		55.8			<0.1%	28462C	100			40.01	40.001	
								→ 1.5cm qtz unit			103									
								→ 0.7cm py unit		58.2			<0.1%	28463C	95		57			
								→ 1cm qtz unit										40.01	0.001	
60																				

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-67
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 6 OF 19
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : m LOGGED BY :

DEPTH (M)	ALTERATION			FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES		SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS					
	SILICA	SERICITE	CLAY								SEC. B.I.D.	% ESTIMATED				% Cu	Cu %	Mo %			
75	Strong	Strong					1.5cm qtz vult. ARGILLITE cont.		762	120		< 0.1%	28469C	90	75	0.01	0.002				
							* Fracturing is very strong - healed by silica + sericite which also form a selvage - often up to 0.5cm wide														
							30cm gouge zone														
							1cm gouge zone. * Qtz s/w weakly developed														
80							40cm gouge zone														
							0.7cm qtz vult.														
							Sulphides contained in the fractures and vults														
85							0.5cm py vult.														
							1cm qtz-py vult.														
90																					

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-62
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 7 OF 19
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : m LOGGED BY :

DEPTH (M)	ALTERATION				FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED Cu	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS			
	SILICA	SERICITE	CLAY	SEC. B.I.D.													Cu %	Mn %		
90	strong	strong	weak	weak	v. strong	py - (cpy)		→ 1cm grtz vult. <u>ARGILLITE cont.</u> - phyllic to weak potassic alt'n phase. * Sec. Bio forms patches plus along fractures		91.1	88	1/2	40.1%	28474C	95	90	20.0	0.002		
92.9	moderate	strong to v. strong	weak (phenos)	weak	v. strong	py - (cpy)		sharp contact @ 40° to CA. <u>BIOTITE FELDSPAR PORPHYRY</u> - dark grey colored crowded porphyry - composition - 30-35% phenos plag + ser. 1% bio + ser		93.9	98		40.1%	28475C	100	93	40.0	0.001		
95	moderate	strong to v. strong	weak (phenos)	weak	moderate	py - (cpy)		← empty vult w 1cm diam beside. - 65-70% groundmass. - silica + sericite. - alt'n intensity moderate - upper phyllic phase - plag phenos have fuzzy borders and the biotites are completely destroyed and replaced by sericite - Numerous 1/2 py vults - phenos range up to 5mm in size		94.8	71	4-10%	40.1%	28475C	100	96	40.0	0.001		
98.9	strong	strong	weak (phenos)	weak	strong	py - (cpy)		929-99.2 - Rock is very broken up. <u>Broken contact</u> <u>FELDSPAR PORPHYRY</u> - brownish to greenish grey color - very strongly altered - weak potassic phase. - fracturing strong - phenos range up to 2mm and are mostly destroyed		98.8	115		40.1%	28476C	80	96	0.01	0.002		
100	strong	strong	weak (phenos)	weak	strong	py - (cpy)				98.8	80		40.1%	28476C	80	96	0.01	0.002		
105	strong	strong	weak (phenos)	weak	strong	py - (cpy)				101.5	98		40.1%	28477C	98	99	0.02	0.001		
105	strong	strong	weak (phenos)	weak	strong	py - (cpy)				101.5	96		5-6%	28478C	96	102	0.01	0.002		
105	strong	strong	weak (phenos)	weak	strong	py - (cpy)				104.5	96		40.1%	28478C	96	105	0.01	0.002		

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-63
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 10 OF 19
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : m LOGGED BY :

DEPTH (M)	ALTERATION				FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED Cu	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS			
	SILICA	SERICITE	CLAY	SEC. P.D.													Cu %	Mo %		
135							ARGILLITE cont													
138	mod	mod to str	moderate		v. strong		138.1m - Rock takes on a darker brown color plus the silica content suddenly increases. - due to hematite.			97	1-1/2	40.1%	28489C	97		0.01	0.0001			
140	mod	sev. str.					139.7m sharp contact @ 45° to G.A.			96		40.1%	28490C	96		0.02	0.002			
141	strong	strong	weak		strong		<u>FELDSPAR PORPHYRY</u> - grey colored, porphyry - composition - 20-25% plag → ser groundmass - silica + ser - mottled texture - mottles composed of sericite + silica - silica-sericite rich selvage in fractures - clay alt'g confined to phos. - numerous ulc py units.			96		40.1%	28491C	96		0.02	0.0001			
145	strong	strong	weak		strong		qtz s/w weakly developed.			96	5%	40.1%	28492C	96		0.06	0.0001			
147							0.5cm gouge zone.			93		40.1%	28493C	93		0.01	0.0002			

COMPOSITE DRILL LOG

CORE SIZE :

SCALE :

PROJECT : Poplar

HOLE No. : PC-63

CASING COLLAR ELEV. :

GROUND ELEV. :

DATE STARTED :

PAGE No. 11 OF 19

COORDINATES :

N.

E.

DATE FINISHED :

REF. TO CLAIM CORNER :

INCLINATION :

AZIMUTH :

TOTAL DEPTH :

m

LOGGED BY :

DEPTH (M)	ALTERATION				FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED Cu	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS			
	SILICA	SERICITE	CLAY	SEC. B.I.O.													Cu %	Mo %		
150								DESCRIPTIVE GEOLOGY												
								FELDSPAR PORPHYRY cont												
								0.5cm gouge zone												
								1cm gouge zone.												
								Qtz s/w weakly developed												
								0.7cm qtz unit.												
								0.9cm qtz unit												
155								Minor H/L gyp units.												
								0.7cm qtz unit												
								1cm calcite unit.												
								0.5cm gyp unit.												
160								str. qtz s/w.												
								1cm cal-py unit.												
								1cm py unit.												
								1.4cm qtz unit.												
165																				

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar. HOLE No. : PC-63
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 12 OF 19
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : m LOGGED BY :

DEPTH (M)	ALTERATION				FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS				
	SILICA	SERICITE	CLAY	SEC. B/D.													EPIDOTE	Cu %	Mo %		
165								FELDSPAR PORPHYRY cont.													
								Mod gypsum vining			99		0.1%	28499C	99			0.04	0.002		
								→ 2x0.8cm py vnit w BYP		1679						168					
								Qtz s/w increases to moderate to weak			96		0.1%	28500C	96			0.07	0.002		
170								→ 1cm gouge zone → 1.5cm qtz vnit - this appears to be associated with a slight increase in Cu grade													
								→ 0.7cm gyp. unit		171											
								→ 1.3cm qtz vnit w py			100	4-3%	0.1%	28501C	100			0.09	0.006		
								Phyllic alt'n phase													
								→ 20cm qtz-py vnit		174											
								→ 2x0.7cm py vnit.													
								→ 1cm gouge zone. → 2cm chl filled p.t.			94		0.1%	28502C	94			0.08	0.005		
										177											
								→ 0.9cm qtz vnit.			100		0.1%	28503C	100			0.05	0.002		
180																					

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : *Paplar* HOLE No. : PC-62
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 13 OF 19
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : m LOGGED BY :

DEPTH (M)	ALTERATION					FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED Cu	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS			
	SILICA	SERICITE	CLAY	SEC. B.I.O.	EPIDOTE													Cu %	Mo %		
180	Strong	Very strong	V. weak (phenos)	Weak	Strong	Py - cpv - (Mo ₃) - Hem			<u>FELDSPAR PORPHYRY cont.</u>		180.1	92			28504C	92	180	0.03	0.001		
									QFP. Dyke 1820 - 1825 - Quartz-Feldspar Porphyry Dyke		182.6	91		< 0.1%	28505C	95	183	0.04	0.003		
185								1.6cm qtz unit w py 1cm gyp filled frt.	Qtz spw weakly developed		183.8	99	3%	< 0.1%	28506C	95	186	0.03	0.002		
									Minor chlorite filled fractures.		186.9	91		< 0.1%	28507C	100	189	0.04	0.002		
190								1cm qtz unit w py 0.8cm qtz unit.	Rock has a mottled texture - mottles composed of silica + sericite		189.9	100		< 0.1%	28508C	96	192	0.06	0.002		
								2x1cm calcite units			192.9						195				
195								1cm qtz unit w py + Mo ₃													

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-63
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 15 OF 19
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : m LOGGED BY :

DEPTH (M)	ALTERATION				FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS			
	SILICA	SERICITE	CLAY	SEC BIO.													Cu %	Mo %		
210								DESCRIPTIVE GEOLOGY												
								<u>FELDSPAR PORPHYRY cont.</u>												
								Mottled texture moderately developed - is patchy - filled w sil/ser.		211.2	100		<0.1%	28514C	99	210	0.04	0.002		
								→ 1cm gouge zone. → 1cm qtz unit → 1.5cm py-qtz unit			97					213				
								→ str. Hem → 0.8cm qtz unit → 1cm py unit w qtz → 0.7cm qtz unit		214.3			<0.1%	28515C	98	213	0.09	0.003		
215								Qtz s/w weak to mod. developed			100					216				
												2 1/2 - 3%								
								→ 1cm qtz unit.		217.3			<0.1%	28516C	98	216	0.01	0.002		
											96					219				
								→ 0.6cm py unit												
								→ 2cm py mass		220.4			<0.1%	28517C	97	219	0.05	0.008		
								→ 1cm qtz unit								222				
											98									
								→ 1cm gouge zone → 1.8cm chl. filled gouge zone		223			<0.1%	28518C	97	222	0.07	0.004		
								→ str chl filled frts.			96					225				
225																				

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : *Poplar* HOLE No. : *PC-63*
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. *16 OF 19*
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : m LOGGED BY :

DEPTH (M)	ALTERATION				FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES		SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS				
	SILICA	SERICITE	CLAY	SEC. B.I.O.								% ESTIMATED	Cu				Cu %	Mo %			
225							<i>FELDSPAR PORPHYRY cont</i>														
							<i>→ 0.7cm py unit</i>	<i>* slight decrease in sericite content noted</i>			<i>96</i>										
							<i>→ 1.5cm gouge zone</i>	<i>str. chl filled frts</i>		<i>226.5</i>			<i>40.1%</i>	<i>28519C</i>	<i>97</i>		<i>0.08</i>	<i>0.004</i>			
							<i>→ 1cm gouge zone weak</i>	<i>Qtz s/w weak to moderately developed</i>			<i>98</i>										
							<i>→ 1cm qtz unit</i>														
230								<i>Alt'n intensity - moderate</i>		<i>229.5</i>			<i>40.1%</i>	<i>28520C</i>	<i>96</i>		<i>0.05</i>	<i>0.008</i>			
								<i>- phenas slightly fuzzy but distinct</i>			<i>94</i>										
								<i>- phyllic phase</i>													
								<i>Mottled texture moderately developed in sections</i>		<i>232.0</i>			<i>40.1%</i>	<i>28521C</i>	<i>96</i>		<i>0.02</i>	<i>0.002</i>			
												<i>2 1/2 - 3%</i>									
235							<i>→ 0.7cm qtz unit.</i>				<i>99</i>		<i>40.1%</i>	<i>28522C</i>	<i>98</i>		<i>0.04</i>	<i>0.002</i>			
							<i>→ 1cm py unit.</i>			<i>236.0</i>											
							<i>→ 0.5cm py unit.</i>			<i>237.7</i>			<i>40.1%</i>	<i>28523C</i>	<i>97</i>		<i>0.04</i>	<i>0.001</i>			
240											<i>99</i>										

COMPOSITE DRILL LOG

CORE SIZE :	SCALE :	PROJECT : Poplar	HOLE No. : PC-63
CASING COLLAR ELEV.:	GROUND ELEV.:	DATE STARTED :	PAGE No. 18 OF 19
COORDINATES : N. E.		DATE FINISHED :	REF. TO CLAIM CORNER :
INCLINATION :	AZIMUTH :	TOTAL DEPTH : m	LOGGED BY :

DEPTH (M)	ALTERATION				FRACTURING MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED Cu	SAMPLE NO.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS				
	SILICA	SERICITE	CLAY	SEC. BIO												Cu %	Mo %			
255							FELDSPAR PORPHYRY cont													
							clay alt'n of fspars increasing gradually			94		20.1%	28529C	95			0.05	0.003		
							Qtz s/w weak to mod developed													
							→ 0.8cm qtz vnit.													
							Alt'n intensity - moderate - phyllic phase.			99		20.1%	28530C	99			0.07	0.004		
260							→ 1cm qtz vnit													
							Mottled texture has gone													
							→ 40 cm gouge zone													
							→ 1cm py-qtz vnit			99	3%	20.1%	28531C	98			0.07	0.005		
							→ 1cm qtz vnit													
							→ 1cm qtz vnit.													
265							→ 0.7cm qtz vnit			95		20.1%	28532C	97			0.18	0.011		
							→ str. diss Hem.													
										99		20.1%	28533C	99			0.11	0.005		
							→ 0.8cm qtz vnit.													
							→ 1cm gouge zone													
270																				

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-63
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 19 OF 19
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : m LOGGED BY :

DEPTH (M)	ALTERATION			FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS		
	SILICA	SERICITE	CLAY													Cu %	Mo %	
270							FELDSPAR PORPHYRY cont											
							→ 2x0.8cm py unit			92		40.1%	28534C	92			0.15	0.023
							→ 3cm qtz-chl unit											
							→ 2cm gouge zone	Qtz s/w weak to mod developed										
									272.2									
							→ 1cm gouge zone			100	3%	40.1%	28535C	100			0.13	0.021
275							→ 1cm gouge zone											
							→ 0.9cm qtz unit											
							→ 1cm gouge zone											
							→ 1.8cm qtz unit											
							→ 0.8cm gouge zone			96		40.1%	28536C	96			0.20	0.011
							→ 1.6cm py unit											
							278.3 m END OF HOLE											
280																		

D.D.H. - PC-64

COMPOSITE DRILL LOG

CORE SIZE : ND wireline SCALE : 1:100 PROJECT : Poplar HOLE No. : PC-64
 CASING COLLAR ELEV.: 994.6m GROUND ELEV.: 994.1m DATE STARTED : May 21, 1981 PAGE No. 1 OF 14
 COORDINATES : 5769.60 N. 10796.40 E. DATE FINISHED : May 23, 1981 REF. TO CLAIM CORNER : Poplar #2
 INCLINATION : -73° AZIMUTH : 270° TOTAL DEPTH : 203.3 m LOGGED BY : G.L. Holland

DEPTH (m)	ALTERATION		FRACTURING	MINERALS	GEOLOGY	COMMENTS:	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (m)	ASSAYS					
	CLAY	CHLORITE													Cu %	Mo %				
0						0-0.31m stick-up	97.3%													
5						0.31-5.2m overburden														
						5.2m														
						5.2-6.1 casing in bedrock														
						6.1m FELDSPAR-BIOTITE PORPHYRY														
						-rock ranges in color from tan to green to pink depending on groundmass composition and amount of chlorite alt'n. -tan - primary silica gm -pink - primary K-spar + silica gm. -green - strong chlorite alt'n of the matrix - porphyritic texture - 25% phenos - 22% plagi - partially clay - 2% biotite & totally chlorite - 75% g.m. - ranging from silica to silica + K-spar. - unaltered. - plagi phenos are only partially altered - biotite phenos are completely chloritized - phenos range in size up to 4mm. - distinct.			87											
						Propylitic alt'n phase														
						# 2 alt'n patterns are present														
						→ 1.6m lim. frt.														
						→ 1.3cm qtz vnt 2ch	a) mod to str chlorite - accompanied by up to 2% Mt + Hem - in fractures, phenos and disseminated. - this alt'n is present in the K-spar rich groundmass.													
						→ 1cm vuggy qtz vnt @ 11m	b) weak chlorite alt'n - has 21% Mt + Hem and is found in the more siliceous groundmass rock													
15																				

Not sampled

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-64
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 3 OF 14
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : m LOGGED BY :

DEPTH (M)	ALTERATION		FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS	
	CLAY	CHLORITE													Cu %	Mo %
30	CLAY	CHLORITE				<p>DESCRIPTIVE GEOLOGY</p> <p>FELDSPAR-BIDTITE PORPHYRY cont</p> <p>* Minor Hem staining of the fspars.</p> <p>* Limonite present on fractures</p>										
32.6						33-37 - Mod to strong chl alt'n in a more silicious matrix - weak Hem ; Mt present.		100								
35																
35.7								95								
38.7						lim gtz-cal unit.		94	traces		Nil.					
40						39.3 - last of the limonite on fractures.										
41.8								98								
43																
45								95								

Not Sampled

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-64
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 4 OF 14
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : m LOGGED BY :

DEPTH (M)	ALTERATION		FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS	
	CLAY	CHLORITE													Cu %	Mo %
45	CLAY	CHLORITE				FELDSPAR - BIOTITE PORPHYRY cont								45		
	CLAY	CHLORITE				- up to 4% Hem : Mt in the mod to str chlorite zone with the silica - Kspar matrix.			92		Nil	28967C	92	48	20.01	20.00
						→ 0.2 calcite unit.		97.9								
						→ 0.5cm Hem unit			100							
50								9.9								
									100	traces	Nil					
						→ 1.6cm qtz unit		5.2								
55									97							
								5.7								
60									93							

Nox Sampled

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-64
 CASING COLLAR ELEV. : GROUND ELEV. : DATE STARTED : PAGE No. 5 OF 14
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : LOGGED BY :

DEPTH (M)	ALTERATION		FRACTURING MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS		
	CLAY	CHLORITE												Cu %	Mo %	
60	CLAY	CHLORITE														
60-65	weak	m-s	weak	Hem - Mt - py			92	95	traces	Nil						
65-70	weak	m-s	weak	Hem - Mt - py	chlorite present in frts and and as salvage around the frts.		66	98								
70-75	weak	m-s	weak	Hem - Mt - py	2cm epid unit w Hem - Mt - py		68	102								
75	weak	m-s	weak	Hem - Mt - py	1cm gouge zone		69									

Not sampled

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-64
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 6 OF 14
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : LOGGED BY :

DEPTH (M)	ALTERATION		FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED Cu	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS	
	CLAY	CHLORITE													Cu %	Mo %
75	CLAY	CHLORITE	weak - m			<p>DESCRIPTIVE GEOLOGY</p> <p><u>FELDSPAR-BIOTITE PORPHYRY cont.</u></p> <p>Groundmass in med-str chl. alt'n is unaltered and composed of silica + primary K-spar.</p>		75.3	100		Nil	28968C	100	75	20.01	20.001
80	weak	mod to str	weak			<p>→ 0.40m calcite unit</p> <p>Alt'n confined to phenes, the groundmass is unaltered</p>		78.3	96	traces	Nil			78		
85	weak		weak	Hem - Mt - Py		<p>Groundmass in weak chl alt'n is unaltered and composed of silica + spars</p>		81.4	99		Nil					
90								84	97							
								75								
								98								

Not Sampled

COMPOSITE DRILL LOG

CORE SIZE :
 CASING COLLAR ELEV. :
 COORDINATES : N. E.
 INCLINATION :

SCALE :
 GROUND ELEV. :
 AZIMUTH :

PROJECT : Poplar
 DATE STARTED :
 DATE FINISHED :
 TOTAL DEPTH : m

HOLE No. : PC-64
 PAGE No. 7 of 14
 REF. TO CLAIM CORNER :
 LOGGED BY :

DEPTH (m)	ALTERATION		FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED Cu	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (m)	ASSAYS	
	CLAY	CHLORITE													Cu %	Mo %
90	CLAY	CHLORITE				DESCRIPTIVE GEOLOGY										
90	weak	weak				FELDSPAR-BIOTITE PORPHYRY cont		90.5								
95	weak	weak				Alt'n confined to phenos.		97								
95						→ 3cm epid unit		98.6								
95						Propylitic alt'n		100								
95						There is an increase to 2-3% Mt-Hem in the weak chl. phase.		96		traces	Nil					
100								99.7								
100						→ Mod calcite vining		99								
105								96								

Not sampled

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : *Poplar* HOLE No. : *PC-64*
 CASING COLLAR ELEV. : GROUND ELEV. : DATE STARTED : PAGE No. *8* OF *14*
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : *m* LOGGED BY :

DEPTH (M)	ALTERATION		FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS			
	CLAY	CHLORITE													Cu %	Mo %		
105			weak			<u>Feldspar - Biotite Porphyry cont.</u>								105				
								105.2										
						→ 3cm zone of qtz w minor gouge			98									
						→ zone of weak brk												
						107.7 - 108.7 - Rock has been fractured, rotated and healed, leaving a weak brk zone w chl.												
110			mod to strong			→ 1cm qtz-cal vnit.			98									
						→ 1.5cm gouge zone												
						→ 2x1cm qtz-cal vnit.												
						→ 1cm qtz vnit.												
115						→ 1cm gouge zone												
						* Qtz slw present but v. weak												
120																		

Not sampled

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : *Poplar* HOLE No. : *PC-64*
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. *9* OF *14*
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : m LOGGED BY :

DEPTH (M)	ALTERATION		FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS				
	CLAY	CHLORITE													Cu %	Mo %			
120						<i>FELDSPAR-BIOTITE PORPHYRY cont.</i>		121	100										
						<i>3cm vuggy Qtz-carb vnt.</i>													
						<i>123-123.5 - Rock badly broken up.</i>		124	87										
125						<i>calcite.</i>													
								127.1	100		<i>traces</i>								
									98		<i>Nil</i>								
130																			
						<i>vnt accounts for the increase in the fring</i>													
						<i>1.5cm Qtz-cal vnt & calcite.</i>			101										
									96										
135						<i>1cm Qtz-cal vnt</i>													

Not sampled

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-64
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 10 OF 14
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : LOGGED BY :

DEPTH (M)	ALTERATION			FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED Cu	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS			
	CLAY	CHLORITE	EPIDOTE													Cu %	Mo %		
135							FELDSPAR-BIOTITE PORPHYRY cont			96			28970C	95	135				
							→ 1.3 cm qtz-calc vnt									20.01	20.001		
140	weak			weak			140.0 - 1st sign of epidote replacing the biotite phenos			95									
							Small zones of very strong chl.			101									
145	moderate to strong			weak			Patches of plag phenos that are completely alt'd to clay			94	traces	Nil							
	weak						* 3-4% Mt-Hem			100									
150										92									

Not sampled

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-64
 CASING COLLAR ELEV. : GROUND ELEV. : DATE STARTED : PAGE No. 11 OF 14
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : m LOGGED BY :

DEPTH (M)	ALTERATION			FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED Cu	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS		
	CLAY	CHLORITE	EPIDOTE													Cu %	Mo %	
150							FELDSPAR-BIOTITE PORPHYRY cont											
155							Rock characteristics have remained uniform throughout the hole.											
160							150-162 - Very strong hematite - fills every fracture - up to 4% disseminated - Clay content in fspars increases - fracturing mod to strong											
165							Rock has a strong dk-red to purple color due to the amount of hematite											

Not Sampled

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-64
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 12 of 14
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : m LOGGED BY :

DEPTH (M)	ALTERATION			FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	ESTIMATED % Cu	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS	
	CLAY	CHLORITE	EPIDOTE													Cu %	Mo %
165							<u>FELDSPAR - BIOTITE PORPHYRY cont</u>		102				28971C	101	165	20.01	20.001
							Biotite content has increased to 5% - att'd to chlorite.		100						168		
170							Amount of hematite present 10% gives rock a red color		98		traces	Nil					
							micate-calc. salt.		96								
175							frag of purple andesite		96								
							frag of purple andesite		96								
180									93								

Not sampled

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-64
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 13 OF 14
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : LOGGED BY :

DEPTH (M)	ALTERATION			FRACTURING MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS			
	CLAY	CHLORITE	EPIDOTE												Cu %	Mo %		
180						FELDSPAR - BIOTITE PORPHYRY cont.												
								182	93									
						Very strong hematite - on frts, disseminated - up to 10%												
185						Rock has distinct red color.		185	99									
								188.1	95	traces	Nil							
						200.0 cm gts vnlts												
190								191.1	100									
195								195.1	95									

Not sampled

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-64
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 14 of 14
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : m LOGGED BY :

DEPTH (M)	ALTERATION			FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS		
	CLAY	CHLORITE	EPIDOTE													Cu %	Mo %	
195							<u>FELDSPAR-BIOTITE PORPHYRY cont.</u>											
							197.0 - Rock loses alot of its red color, returns to green.		197.2	99								
200	weak	mod to str	weak	moderate	Hem - Mt - Py		→ 1cm qtz unit			97	traces	Nil						
							→ 1.5cm qtz unit		200.3									
										101								
							203.3 m End of Hole											
205																		

Not sampled

D.D.H. - PC-65

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-65
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 2 OF 24
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : m LOGGED BY :

DEPTH (M)	ALTERATION					FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE RECY/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	ESTIMATED % Cu	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS			
	SILICA	SERICITE	CLAY	SEC. BIO	SEC. KSPAR													Cu %	Mo %		
15									DESCRIPTIVE GEOLOGY												
									0.31 - 23.5m overburden												
20																					
									23.5-24.4 CASING IN BEDROCK												
25									24.4 m BIOTITE-FELDSPAR PORPHYRY								24.4				
									- black colored - very crowded porphyry - composition - 60% phenos - 50% plag + ser + clay - 10% bio + sec bio + ser - 40% matrix - silica + ser + sec bio			2 1/2 %	0.40%	28972C				0.35	0.002		
									- qtz slw moderately developed - opy present in frts & micro frts. - phenos range up to 5mm in size - rock has been completely altered - inner potassic phase - Minor sec. Kspar found in salvage around Hk frts and units.				0.40%	28973C			27				
30									* Rock very broken up to a depth - 68.9m												

COMPOSITE DRILL LOG

CORE SIZE :
 CASING COLLAR ELEV.:
 COORDINATES : N. E.
 INCLINATION :

SCALE :
 GROUND ELEV.:
 AZIMUTH :

PROJECT : Poplar
 DATE STARTED :
 DATE FINISHED :
 TOTAL DEPTH : m

HOLE No. : PC-65
 PAGE No. 3 OF 24
 REF. TO CLAIM CORNER :
 LOGGED BY :

DEPTH (M)	ALTERATION					FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS			
	SILICA	SERICITE	CLAY	SEC. BIO	SEC. KSPAR													Cu %	Mo %		
30									DESCRIPTIVE GEOLOGY												
									BIOTITE - FELDSPAR PORPHYRY cont												
									1cm gouge zone. Plag phenos range from pure white to green in color - due to clay & sericite content				0.45%	28974C			30	0.38	0.002		
									1cm qtz unit. Qtz slw moderate to strongly developed.				0.50%	28975C			33	0.43	0.002		
35									1.2cm qtz unit. Rock badly broken up.				0.50%	28976C			36	0.55	0.002		
													0.50%	28977C			39	0.65	0.007		
40													0.55%	28978C			42	0.65	0.005		
									1cm gouge zone.								45				

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-65
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 4 OF 24
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : m LOGGED BY :

DEPTH (M)	ALTERATION					FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	ESTIMATED %	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS			
	SILICA	SERICITE	CLAY	SEC. BIOD.	SEC. KSPAR													Cu %	Mo %		
45									BIOTITE-FELDSPAR PORPHYRY cont.								45				
									qtz s/w strongly developed.									0.46	0.003		
50									Rock very broken up									0.41	0.003		
									2cm qtz vein									0.42	0.002		
55									1.3cm qtz vein									0.54	0.003		
									1.3cm qtz vein.												
									1.5cm gouge zone									0.48	0.003		
60																					

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-65
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 6 OF 24
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : m LOGGED BY :

DEPTH (M)	ALTERATION				FRACTURING	MINERALS	GEOLOGO	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	Cu % ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS			
	SILICA	SERICITE	CLAY	SEC. BIO.													SEC. KSPAR	Cu %	Mo %	
75	mod to strong	mod	weak to moderate	strong	weak			BIOTITE - FELDSPAR PORPHYRY cont.												
	strong	mod	weak to moderate	strong	weak			1cm gouge zone												
	strong	mod	weak to moderate	strong	weak			80cm gouge zone												
	strong	mod	weak to moderate	strong	weak			20-30cm qtz unit.												
80	strong	mod	weak to moderate	strong	weak			79-811 Fault zone - weak to modly cemented.												
	strong	mod	weak to moderate	strong	weak			1cm py unit.												
	strong	mod	weak to moderate	strong	weak			2cm wsgy qtz.												
	strong	mod	weak to moderate	strong	weak			01.1 m Gouge contact @ 20° to C.A.												
	strong	mod	weak to moderate	strong	weak			ARGILLITE												
	strong	mod	weak to moderate	strong	weak			- greenish-brown color												
	strong	mod	weak to moderate	strong	weak			- very fine grained to aphanitic												
	strong	mod	weak to moderate	strong	weak			- very strong fracturing												
	strong	mod	weak to moderate	strong	weak			- Qtz s/w strongly developed												
	strong	mod	weak to moderate	strong	weak			- sulphides all contained in the fractures.												
	strong	mod	weak to moderate	strong	weak			- NO H/L py units												
	strong	mod	weak to moderate	strong	weak			- strong silicification & sericitization around the frts - salvage												
85	strong	mod	weak to moderate	strong	weak			Numerous H/L calcite units.												
	strong	mod	weak to moderate	strong	weak			1cm gouge zone												
	strong	mod	weak to moderate	strong	weak			str. calcite vning												
	strong	mod	weak to moderate	strong	weak			1cm qtz unit.												
	strong	mod	weak to moderate	strong	weak			88.6 m sharp contact @ 20° to C.A.												
	strong	mod	weak to moderate	strong	weak			BIOTITE - FELDSPAR PORPHYRY												
	strong	mod	weak to moderate	strong	weak			0.8cm qtz unit.												
90	strong	mod	weak to moderate	strong	weak			- as above												

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-65
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 7 OF 24
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : m LOGGED BY :

DEPTH (M)	ALTERATION					FRACTURING	MINERALS	GEOLOGY	COMMENTS:	AVG. CORE REC'Y/MOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES		SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS	
	SILICA	SERICITE	CLAY	SEC. PID.	SEC. KSPAR								% Cu	% ESTIMATED				Cu %	Mo %
90								0.8cm qtz unit.	BIOTITE - FELDSPAR PORPHYRY cont										
								1cm gouge zone	Altn pattern is patchy. spots where plag phenos are all clay and others all sericite. - phenos often obliterated.									0.53	0.036
								1.3cm qtz unit w/ Mas ₂ / CPY											
								0.8cm gouge zone											
								0.8cm qtz unit											
95								1cm qtz unit.	Minor sections of argillite in the B.P.P.										
								Argillite 97.2m	ARGILLITE - blackish to tan color - strongly altered - most of original texture has been destroyed in a lot of sections - sulphides not confined to fntz due to the alteration.										
								1.8cm qtz unit											
								1.5cm gouge zone											
								1cm qtz unit.											
								1cm qtz unit.	Qtz s/w med to strong										
								1.3cm qtz unit											
								1.5cm gouge zone.											
								1cm qtz unit											
100																			
105																			

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-65
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 8 OF 24
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : LOGGED BY :

DEPTH (M)	ALTERATION					FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS			
	SILICA	PERICLITE	CLAY	SEC. BIO.	SEC. KSPAR													Cu %	Mo %		
105	moderate	moderate to strong	weak to moderate	very strong	cpy - py - MoS ₂			ARGILLITE cont.					0.02% Mo	0.95%	28999C	100	0.38	0.018			
								* Good MoS ₂ present along fractures and qtz s/w													
								Qtz s/w med to strong													
								0.7cm py units					0.02% Mo	0.35%	29000C	108	0.34	0.021			
110								1cm qtz unit													
								1.3cm qtz unit	strongly altered - potassic.				0.03% Mo	0.40%	29001C	111	0.40	0.028			
115								1cm qtz unit					0.03% Mo	0.40%	29002C	114	0.28	0.023			
								1.3cm qtz unit													
								3cm qtz unit					0.02% Mo	0.35%	29003C	117	0.38	0.025			
								2x1cm qtz units													
120																					

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-65
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 11 OF 24
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : LOGGED BY CLH :

DEPTH (m)	ALTERATION					FRACTURING MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (m)	ASSAYS	
	SILICA	SERICITE	CLAY	SEC. BJD	SEC. KSPAR												Cu %	Mo %
150	↑	↑	↑	↑	↑			BIOTITE - FELDSPAR PORPHYRY cont										
								qtz s/w moderately developed - contains MoS ₂					0.30%	29014C		150	0.36	0.018
								→ 1cm qtz unit										
								Alt'n strong - upper phyllic phase - phenos often indistinct					0.35%	29015C		153	0.32	0.021
155								→ 1.5cm qtz unit w calcite										
								→ 0.5cm py unit				2%	0.35%	29016C		156	0.29	0.019
								→ 1.4cm qtz unit w MoS ₂					0.25%	29017C		159	0.25	0.016
160																		
													0.35%	29018C		162	0.34	0.014
165																165		

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : *Poplar* HOLE No. : *PC-65*
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. *12* OF *24*
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : *m* LOGGED BY :

DEPTH (M)	ALTERATION				FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED Cu	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS				
	SILICA	SERICITE	CLAY	SEC. BIO.													SEC. ASPRS	Cu %	Mo %		
165	↑	↑	↑	↑	↑		→ 0.5cm qtz unit. BIOTITE - FELDSPAR PORPHYRY zone									165					
							→ 1.5cm qtz unit. Qtz slw moderately developed.						0.40%	29019C				0.34	0.009		
							→ 2x2cm gouge zone														
170							→ 0.2cm qtz unit.						0.40%	29020C				0.43	0.044		
							→ 1cm qtz unit.						0.35%	29021C				0.41	0.033		
175																					
							→ 1cm qtz unit.						0.35%	29022C				0.40	0.022		
180													0.35%	29023C				0.42	0.035		

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-65
 CASING COLLAR ELEV. : GROUND ELEV. : DATE STARTED : PAGE No. 13 OF 24
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : LOGGED BY :

DEPTH (M)	ALTERATION				FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	SULPHIDES		SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS			
	SILICA	SERICITE	CLAY	SEC. BIO.								SEC. KSPAR	%				% ESTIMATED	Cu %	Mo %	
180	→	→	→	→	→		→ 1cm qtz vnit									180				
	→	→	→	→	→		→ 2cm qtz vnit w MoS ₂							29024C		183	0.34	0.043		
	→	→	→	→	→			Alt's intensity varies from moderate to strong - phenos totally obliterated in sections - sec. bio patchy as well.						29025C		186	0.41	0.016		
185	→	→	→	→	→		→ 0.7cm qtz vnit.							29026C		189	0.33	0.007		
	→	→	→	→	→		→ 1.3cm qtz vnit w MoS ₂							29027C		192	0.46	0.012		
	→	→	→	→	→		→ 1cm qtz w MoS ₂	Qtz s/w moderately developed and contains cpy i MoS ₂						29028C		195	0.35	0.016		
	→	→	→	→	→		→ 0.8cm qtz vnit.													
	→	→	→	→	→		→ 0.7cm qtz vnit.													
	→	→	→	→	→		→ 1.5cm qtz vnit.													

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED :
 COORDINATES : N. E. DATE FINISHED :
 INCLINATION : AZIMUTH : TOTAL DEPTH : M
 HOLE No. : PC-65
 PAGE No. 14 OF 24
 REF. TO CLAIM CORNER :
 LOGGED BY :

DEPTH (M)	ALTERATION					FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE RECY/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS			
	SILICA	SERICITE	CLAY	SEC. BIO.	SEC. KSPAR													Cu %	Mo %		
195									DESCRIPTIVE GEOLOGY												
									BIOTITE - FELDSPAR PORPHYRY cont												
									196.8-200.0- Believe we are getting fluorine in some of our. units. with gypsum?				0.30%	29029C				0.35	0.037		
									Strong gsp-fl. Also marks the 1st sign of gypsum units.												
									There has been an increase in the silica content in the groundmass				0.40%	29030C				0.32	0.020		
200									→ 0.9cm qtz unit w/ fluorine												
									→ 1cm qtz unit												
									Qtz s/w moderately developed.				2-2 1/2								
									→ 1cm qtz unit.				0.03% Mo 0.40% Cu	29031C				0.17	0.008		
									→ 1.5cm qtz unit very.												
									→ 0.7cm qtz unit.				0.25%	29032C				0.25	0.018		
									→ 1cm qtz unit												
									→ 1cm py unit in a 3cm qtz unit.				0.30%	29033C				0.23	0.017		
210																					

COMPOSITE DRILL LOG

CORE SIZE :
 CASING COLLAR ELEV. :
 COORDINATES : N. E.
 INCLINATION :

SCALE :
 GROUND ELEV. :
 AZIMUTH :

PROJECT : Poplar
 DATE STARTED :
 DATE FINISHED :
 TOTAL DEPTH : m

HOLE No. : PC-65
 PAGE No. 15 OF 24
 REF. TO CLAIM CORNER :
 LOGGED BY :

DEPTH (M)	ALTERATION				FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS			
	SILICA	SERICITE	CLAY	SEC. BIO													SEC. KSPAR	Cu %	Mo %	
210	mod to str.	moderate to strong	weak (phenos)	moderate	moderate			BIOTITE - FELDSPAR PORPHYRY cont												
								0.6cm qtz unit.												
								1cm qtz unit												
								Alt'n intensity moderate - phenos distinct - potassic phase						29034C						
								Qtz s/w moderately developed												
215								1cm qtz unit.												
								0.8cm py unit												
								RIG.O - Increase in alt'n - strong to very strong												
								-increase in silica, sec. bio, sec kspar - phenos are obliterated in 95% of the rock.												
								-sec. bio is present along fractures and replacing primary biotite												
								* H/L gypsum vining moderately developed												
220	strong	moderate	weak	moderate	moderate			Sulphides all contained in the fractures or silicious zones.												
								1.3cm gyp. unit.												
								Minor red hematite - disseminated												
								1cm qtz unit.												
								1.8cm qtz-py unit.												
								1cm qtz unit.												
225																				

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-65
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 18 OF 24
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : m LOGGED BY :

DEPTH (M)	ALTERATION					MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS			
	SILICA	SERICITE	CLAY	SEC. B/D	SEC. ASPAR												EPIDOTE	FRACTURING	Cu %	Mo %
255								BIOTITE - FELDSPAR PORPHYRY cont												
								255.2m - Increase in sec. bio and silica												
								* Minor epidate present around fcts.												
								→ 0.6cm qtz unit w MoS ₂ fcts.												
								Altn intensity increases - strong												
260								→ 1cm qtz unit w MoS ₂ + cpy.												
								Qtz s/w mod developed												
								→ 2x0.6cm py unit.												
								→ str. Hem on fcts.												
								→ 0.7cm carb units												
								→ 2cm gouge zone.												
								→ 1cm gouge zone												
								→ 0.8cm qtz unit.												
								→ 1.5cm qtz unit w cpy.												
270																				

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-65
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 19 OF 24
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : m LOGGED BY :

DEPTH (M)	ALTERATION					FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES		SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS	
	SILICA	SERICITE	CLAY	SEC. B.I.D.	SEC. KSPAR								EPIDOTE	% Cu				% ESTIMATED	Cu %
270									BIOTITE - FELDSPAR PORPHYRY cont										
									1cm gouge zone w py										
									1cm qtz-carb unit										
									secondary biotite appears in fractures and replacing bio phenos.										
									1cm Hem-epy unit.										
275									20.5cm qtz unit w py										
									Qtz s/w moderately developed										
									1cm qtz-carb unit										
									20.5cm qtz-carb unit.										
280									1cm py unit.										
									15° to C.A										
									Bxx 281.0-282.8 - late phase B.P.P. contains breccia - frags of B.F.P. - no sulphides										
285									1cm qtz unit w py										

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-65
 CASING COLLAR ELEV. : GROUND ELEV. : DATE STARTED : PAGE No. 21 OF 24
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : LOGGED BY :

DEPTH (M)	ALTERATION					FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE RECY/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS			
	SILICA	SERICITE	CLAY	SEC. BIO	SEC. ASPHALT													Cu %	Mo %		
300									BIOTITE - FELDSPAR PORPHYRY cont												
									0.7cm cal. unit					0.25 %	29064C			0.21	0.007		
									Qtz 3/w mod. developed.												
									0.5cm gouge w calc. te.												
									Hem - 1%												
305									1.5cm cal-gyp unit.					0.30%	29065C			0.29	0.010		
									0.7cm cal unit												
									* Alt'n mod to str.												
									1cm qtz unit												
									-sections of obliterated phenos												
									0.6cm cal unit									0.24	0.022		
									1cm qtz unit.												
310									0.7cm py unit.												
									310-315 - Brecciated zone.												
									- frags are BFP												
									1.5cm gouge zone.												
									- matrix is composed of Hem-silica-chlorite & cpy.												
									-5% hem												
									0.8cm py unit												
315														0.50%	29068C			0.73	0.009		

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar
 CASING COLLAR ELEV. : GROUND ELEV. : DATE STARTED :
 COORDINATES : N. E. DATE FINISHED :
 INCLINATION : AZIMUTH : TOTAL DEPTH :
 HOLE No. : PC-65
 PAGE No. 22 OF 24
 REF. TO CLAIM CORNER :
 LOGGED BY :

DEPTH (M)	ALTERATION					GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED Cu	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS	
	SILICA	SERICITE	CLAY	SEC BIO	SEC KSPAR											EPIDOTE	MINERALS
315	v strong	v strong	v strong	v strong	v strong		BIOTITE - FELDSPAR PORPHYRY cont.										
							315-317.7 - strongly silicious green colored (chlorite?) rock. Strongly altered & no sulphides except along fractures. No distinct contacts. Believe it is simply an alt'n phase within the unit.					40.10%	29069C		315	0.16	0.006
							Box → 0.2cm qtz unit → 1cm qtz unit			1%					318		
							→ 0.7cm qtz unit				0.10%		29070C			0.13	0.010
320							Qtz s/w moderately developed.								321		
							Alt'n intensity ranges from mod to v. strong over very short distances.					0.25%	29071C			0.08	0.002
							→ 0.2cm qtz unit. → 1.5cm qtz unit								324		
							→ 0.2cm qtz unit MoS ₂			2-2 1/2%		0.30%	29072C			0.11	0.008
325							Cpy decreases out of the moderate sec bio zone. Can not figure out the reason. Box type, fracturing, s/w all remain constant.								327		
							Box 5 mm silica - cpy: chl matrix			1 1/2%		0.15%	29073C			0.11	0.008
							→ 1cm qtz-carb unit								330		
330																	

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-65
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 23 OF 24
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : m LOGGED BY :

DEPTH (M)	ALTERATION					GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE NO.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS	
	SILICA	SERICITE	CLAY	SEC. SPAR	EPIDOTE											Cu %	Mo %
330	strong	strong	moderate	moderate	moderate	BIOTITE-FELDSPAR PORPHYRY cont.											
	weak	weak	moderate to strong	moderate	moderate	→ weak bar zone.	All sulphides are fracture controlled.				0.20%	29074C				0.11	0.009
	moderate to strong	moderate to strong	moderate to strong	moderate	moderate	→ 1cm Mt-Hem unit.					0.20%	29075C				0.15	0.009
535	moderate to strong	moderate to strong	moderate to strong	moderate	moderate	→ 2x0.8cm qtz unit	Alt'n intensity and degree change from mod to v str. over short distances.				0.20%	29076C				0.23	0.010
	moderate to strong	moderate to strong	moderate to strong	moderate	moderate	Qtz sw mod developed - 90% of units contain MoS ₂					0.20%	29077C				0.17	0.009
	moderate to strong	moderate to strong	moderate to strong	moderate	moderate	→ 0.7cm qtz unit 1/2 MoS ₂	Pyrite content < 5%				0.10%	29078C				0.11	0.004
	moderate to strong	moderate to strong	moderate to strong	moderate	moderate	→ 0.9cm qtz unit.					0.10%	29077C				0.17	0.009
340	moderate to strong	moderate to strong	moderate to strong	moderate	moderate	→ 8x zone B.P. frags					0.10%	29077C				0.17	0.009
	moderate to strong	moderate to strong	moderate to strong	moderate	moderate	→ 1cm gauge zone.					0.10%	29077C				0.17	0.009
	moderate to strong	moderate to strong	moderate to strong	moderate	moderate	→ 1cm qtz-carb unit.					0.20%	29078C				0.11	0.004
345	moderate to strong	moderate to strong	moderate to strong	moderate	moderate						0.20%	29078C				0.11	0.004

D.D.H. - PC-35

COMPOSITE DRILL LOG

CORE SIZE : **NQ wireline** SCALE : **1:100** PROJECT : **Poplar** HOLE No. : **PC-35 Extension**
 CASING COLLAR ELEV.: GROUND ELEV.: **926.1m** DATE STARTED : **May 26, 1981** PAGE No. **13** OF **41**
 COORDINATES : **G099.34 N. 12499.11 E.** DATE FINISHED : **June 1, 1981** REF. TO CLAIM CORNER : **Poplar #13**
 INCLINATION : **-90°** AZIMUTH : TOTAL DEPTH : **608.7 m** LOGGED BY : **G.L.H.**

DEPTH (M)	ALTERATION				FRACTURING	MINERALS	GEOLOGY	COMMENTS:	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS	
	SILICA	SERICITE	CLAY	SEC. B'D.													CHLORITE	Cu %
180							see previous log sheets.											
182.0							182.0 start of extension											
182							BIOTITE-FELDSPAR PORPHYRY - crowded porphyritic texture - comp. - 45% phenos - 1% plag - 5% clay - 5% bio - 25% ser - 1cm gouge zone - 65% gm - silica + sericite. - phenos completely altered but outlines are distinct - All'n moderately developed - phyllic phase - 0.7cm gtz vnit - 1cm gtz vnit w 1mm - 2cm gtz vnit. - 1.5cm gouge zone - Numerous H/L py units. - phenos range up to 4mm in size.			97	97	0.15%	28537C	97		180	0.19	0.002
185																		
188																		
190							0.7cm gouge zone 2.5cm gouge zone weh 192 - 20% Ag. 190.7 m Moderate chlorite in contact zone sharp contact @ 28' to C.A.											
190.7																		
191							BIOTITE-QUARTZ FELDSPAR PORPHYRY (PMD) - olive green colored matrix - aphanitic - crystalline - 15% phenos - 7% plag - 5% clay - 8% gtz - 2% bio - chlorite - gtz phenos are round to subround. - range up to 3mm in size.											
191																		
195																		

Not sampled

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : *Poplar* HOLE No. : *PC-35*
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. *14 OF 41*
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : m LOGGED BY :

DEPTH (M)	ALTERATION				FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	ESTIMATED % Cu	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS				
	Silica	sericite	clay	chlorite													Cu %	Mo %			
195							<p>DESCRIPTIVE GEOLOGY</p> <p><u>QUARTZ-FELDSPAR-BIOTITE PORPH. (PMD)</u></p> <p>→ 1cm gouge zone</p>														
200																					
205							<p>→ 0.2 cm gouge zone</p> <p>chlorite present at contact zone</p>														
208							<p>→ 45° contact. <i>208 m</i> sharp contact @ 45°</p> <p>→ 0.7cm quartzit</p> <p><u>BIOTITE FELDSPAR PORPHYRY</u></p> <p>as described on page 13</p>														
210							<p>→ 1.2cm qtz vein</p> <p>→ 1cm gouge zone</p>														

Not sampled

COMPOSITE DRILL LOG

CORE SIZE :
CASING COLLAR ELEV.:
COORDINATES : N. E.
INCLINATION :

SCALE :
GROUND ELEV.:
AZIMUTH :

PROJECT : Poplar
DATE STARTED :
DATE FINISHED :
TOTAL DEPTH : m

HOLE No. : PC-35
PAGE No. 15 OF 41
REF. TO CLAIM CORNER :
LOGGED BY :

DEPTH (M)	ALTERATION				FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS			
	SILICA	SERICITE	CLAY	SEC. BIO.													Cu %	Mo %		
210								BIOTITE - FELDSPAR PORPHYRY cont												
							→ PM Dyke	- Brecciation around the PM Dykes - frags include both BFP & PMD in a silica-chlorite rich matrix					0.20 %	28541C		210	0.20	0.001		
								213-214.8 - Post Mineral Dyke - green color, trachytic texture - Rhyodacite												
							→ PM Dyke	- minor chl around the contacts					0.10 %	28542C		213	0.10	0.001		
215								* Strong silicious enveloped around the fractures and vults												
							→ 0.6cm py vult	* pinkish hematite staining abundant in the matrix - alot of hem in fnts					3-3 1/2 %	28543C		216	0.30	0.001		
							→ 1.3cm qtz vult													
							→ str. hem in fnts.	Alt'n intensity mod to strong - weak potassic					0.35 %	28544C		219	0.26	0.001		
220							→ 2cm gouge zone	Qtz s/w mod. developed												
							→ 1.5cm qtz vult	Weak gypsum vining					0.30 %	28545C		222	0.27	0.001		
							→ 1.3cm gouge zone													
							→ 0.8cm gouge zone													
							→ 1cm qtz vult													
225																				

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-35
 CASING COLLAR ELEV. : GROUND ELEV. : DATE STARTED : PAGE No. 16 OF 41
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : LOGGED BY :

DEPTH (M)	ALTERATION				FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS	
	SILICA	SERICITE	CLAY	SEC. B.I.D.													Cu %	Mo %
225							→ 1.2cm qtz unit	BIDTITE FELDSPAR PORPHYRY cont								225		
							→ 1.5cm qtz unit	* Qtz s/w moderately developed						28546C			0.24	0.002
							→ 1cm qtz unit									228		
							→ 0.8cm qtz unit											
230							→ sharp @ 60°	229.4 - 230.2 - PMD - Trachytic Rhyodacite - pale yellow-green color. w qtz eyes.						28547C			0.17	0.001
							→ sharp @ 45°											
							→ 1cm qtz unit											
							→ 1.1cm qtz unit									231		
							→ 1.5cm - mod cemented gneiss zone	* Minor MoS ₂ on frts						28548C			0.32	0.002
							→ 2.5cm qtz unit											
							→ 1.3cm qtz unit									234		
235							→ 1.3cm qtz unit w opy	235 - Altn intensity increases to v. strong - phenos mostly obliterated - potassic phase						28549C			0.29	<0.001
								~1% hematite										
							→ 3x1.5cm qtz units									237		
														28550C			0.28	0.001
240																240		

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-35
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 18 OF 41
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : m LOGGED BY :

DEPTH (M)	ALTERATION				FRACTURING MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS	
	SILICA	SERICITE	CLAY	SEC. B/D												Cu %	Mo %
255							BIOTITE FELDSPAR PORPHYRY cont.										
							1.7cm gyp unit										
							1cm qtz unit										
							Alth intensity moderate -phenos clear w fuzzy outlines.										
							3cm gouge zone 1cm qtz unit										
							- weak potassic phase										
							2.3cm qtz unit										
							2cm qtz unit.										
260							qtz s/w mod developed.										
							moderate silicification & sericitization around the frts.										
							0.8cm qtz unit.										
							Chlorite present at contact.										
							1cm qtz unit										
265							264.9 m sharp contact @ 50° to CA QUARTZ FELDSPAR PORPHYRY (PMD)										
							2cm gouge zone.										
							- olive green aphanitic matrix - 10% phenos - 7% qtz "eyes" - 3% faser clay										
							1cm gouge zone.										
							- qtz phenos are rounded to sub-rounded - rock is weakly fractured - periodic disc py present.										
270																	

COMPOSITE DRILL LOG

CORE SIZE :	SCALE :	PROJECT : Poplar	HOLE No. : PC-35
CASING COLLAR ELEV. :	GROUND ELEV. :	DATE STARTED :	PAGE No. 21 OF 41
COORDINATES : N. E.		DATE FINISHED :	REF. TO CLAIM CORNER :
INCLINATION :	AZIMUTH :	TOTAL DEPTH : m	LOGGED BY :

DEPTH (m)	ALTERATION				FRACTURING MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (m)	ASSAYS			
	SILICA	SERICITE	CLAY	FEED BIO												chlorite	Cu %	Mo %	
300	← m →	← m-s →	← w →	← mod →	← str →		BIOTITE FELDSPAR PORPHYRY cont			2 1/2					300				
							0.9m qtz unit sharp contact @ 45° 301.5m FELDSPAR-QUARTZ-BIOTITE PORPHYRY PYRR LATE PHASE - porphyritic texture in a pale green to dark brown colored aphanitic matrix - comp - 25% phenos - 20% plag - clay - 3-4% bio → chlorite - 2% qtz → chl - matrix - aphanitic, siliceous - alt'n very weak - prophylic - fracturing very weak. - 1% diss hem. - present as stain in layers. - no sulphides present.				2 1/2	0.20%	28565C		303	0.14	0.001		
305	← mod →	← strong →	← v weak →	← mod →	← strong →		Featureless and structureless rock.			Nil		Nil							
310																			
							sharp contact @ 80° to C.A. 311.7m BIOTITE FELDSPAR PORPHYRY												
							as before Alt'n very strong.			2 1/2		0.3%	28566C		312	0.43	0.001		
315							0.8cm qtz unit.												

Not Sampled

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-35
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 22 OF 41
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : LOGGED BY :

DEPTH (M)	ALTERATION				FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS			
	SILICA	SERICITE	CLAY	SEC. BLD.													chlorite	Cu %	Mo %	
315	mod to str	strong	weak (phenos)	moderate	strong	py-ep-fer.	<p>BIOTITE - FELDSPAR PORPHYRY cont.</p> <p>irregular contact @ 80° PMD 315.7-316.5 PMD - QFP</p> <p>irregular contact @ 80°</p> <p>20cm gouge zone</p> <p>1cm qtz unit</p>				2%	0.15%	28567C		315	0.30	<0.001			
320							<p>sharp contact @ 55° to c.A 320.7m QUARTZ - FELDSPAR - BIOTITE PORPHYRY</p> <p>- texturally the only difference between this unit and the PMD-QFP is the presence of biotite books</p> <p>- olive green, aphanitic matrix</p> <p>- 15% phenos - 6% plag → clay + chl 7% qtz "eyes" 2% bio → chl.</p> <p>- qtz eyes are round to sub round</p>					0.15%	28568C		318	0.25	<0.001			
325	weak (phenos)				weak		<p>"Late Phase"</p>							321						
330																				

Not sampled

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-35
 CASING COLLAR ELEV. : GROUND ELEV. : DATE STARTED : PAGE No. 23 OF 41
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : m LOGGED BY :

DEPTH (M)	ALTERATION				FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE RECY/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED Cu	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS			
	SILICA	SERICITE	CLAY	SEC. B.D.													CHLORITE	Cu %	Mo %	
330								Q.F.B. Porph "late phase" cont.												
335			weak (phenos)		weak	sph.		1.5m sph. unit												
								332.9m irregular contact @ 80°												
								1.6m gouge zone QUARTZ-FELDSPAR PORPHYRY												
								-difference to unit above: -no bio phenos -paler green colored matrix -less porphyritic -5-8% phenos - 3-4% qtz 3-4% plag & clay				20.1%	Nil							
340			weak (phenos)		weak			1cm gouge zone												
								-this unit is later than the above unit.												
345																				

Not Sampled

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-35
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 24 OF 41
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : m LOGGED BY :

DEPTH (M)	ALTERATION				FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS					
	SILICA	SERICITE	CLAY	SEC. B.D.													CHLORITE	Cu %	Mo %			
345							QUARTZ - FELDSPAR PORPHYRY cont									3						
							→ 2cm gouge zone															
							→ 90° Andesite Dyke - sharp contacts	347.2-348.9 - Andesite Dyke														
							→ 55°															
350							→ 2cm gouge zone															
							→ 1.5cm gouge zone															
							→ 2cm gouge zone															
355																						
360																						

Not sampled

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-35
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 26 OF 41
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : LOGGED BY :

DEPTH (M)	ALTERATION				FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	SULPHIDES		SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS				
	SILICA	SERICITE	CLAY	SEC. BIO.								%	% ESTIMATED				Cu %	Mo %			
375								BIOTITE - FELDSPAR PORPHYRY cont.													
								str. hem uning 1cm hem unit 1.5cm qtz unit													
								str. hem uning 1.6cm qtz unit													
								2x1cm qtz unit hem + cpy. 0.7cm qtz unit													
380								* Qtz slw moderately developed													
								1.2cm qtz unit													
								1.2cm qtz unit													
								383.5 - Alt'n decreases to mod. - phenos distinct w fuzzy borders													
								1.3cm qtz unit 3 phos													
385								1.5cm qtz unit													
								2x1cm qtz unit													
								1cm qtz unit 1.5cm qtz unit													
390								1cm qtz unit													

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : *Poplar* HOLE No. : *PC-35*
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. *28* OF *41*
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : LOGGED BY :

DEPTH (m)	ALTERATION				FRACTURING	MINERALS	GEOLOGY	COMMENTS:	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	Q & ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (m)	ASSAYS	
	SILICA	SERICITE	CLAY	SEC. BID.													Cu %	Mo %
405								<u>BIOTITE - FELDSPAR PORPHYRY cont</u>										
							→ 1cm qtz unit											
							→ 2cm qtz unit											
								<i>Qtz s/w moderately developed</i>										
							→ 1cm qtz-carb unit											
							→ 1cm qtz unit											
410							→ 0.7cm qtz unit											
								<i>Altn intensity mod to str - potassic phase</i>										
							→ 1cm qtz unit											
							→ 1cm qtz unit											
							→ 1cm qtz unit											
							→ 2cm calcite unit											
415							→ 2x 1cm cal units - ext qtz units											
							→ 1cm qtz unit											
							→ 0.7cm qtz unit											
							→ 1cm qtz-carb unit											
							→ 1cm qtz unit											
420																		

2 1/2 - 3%

strong
moderate to strong
weak (phenus)
weak to moderate

strong
PX - CPY - hem

28588C

28585C

28584C

0.29

0.44

0.58

0.31

0.26

<0.001

<0.001

0.002

0.001

<0.001

COMPOSITE DRILL LOG

CORE SIZE : / : SCALE : PROJECT : Poplar HOLE No. : PC-35
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 29 OF 41
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : LOGGED BY :

DEPTH (M)	ALTERATION					FRACTURING MINERALS	GEOLOGY	COMMENTS	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS	
	SILICA	SERICITE	CLAY	JEC BIO.	SEC. KSPAR												Cu %	M ₀ %
420							DESCRIPTIVE GEOLOGY											
							BIOTITE FELDSPAR PORPHYRY cont											
							1.5cm gauge zone. 420 - Alt'n intensity increases to very strong - rock very hard - rings to the beat of the hammer											
							1cm qtz unit											
							* 1st sign of sec. Kspar											
							Qtz slw moderately developed											
425																		
							1cm qtz unit. 426.1 Alt'n intensity decreases to mod-strong.											
							428 - Distinct increase in H/L py units - sulphide content increases											
							2.6cm qtz unit.											
							* Qtz unit cuts py unit											
							1cm py unit.											
							1.0cm qtz unit											
							3x1.3cm qtz units											
							1.5cm gauge zone											
435																		

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-35
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 30 OF 41
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : m LOGGED BY :

DEPTH (M)	ALTERATION					FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS			
	SILICA	SERICITE	CLAY	SEC. BIO	SEC. KSPAR													Cu %	Mo %		
435									BIOTITE FELDSPAR PORPHYRY cont												
								→ 1cm qtz unit													
									Alot of sulphides				0.30%	28594C				0.26	0.001		
								→ 1.4cm qtz unit													
									Alot of clay on frts												
								→ 1cm qtz-carb unit													
40								→ 20cm gouge zone	Alt'n intensity mod to str.				0.30%	28595C				0.25	0.001		
								→ 1cm qtz unit	- weak potassic - phenos distinct												
								→ 25cm gouge zone	Discription - 60% phenos - 55% plaq → ser												
								→ 1.5cm qtz unit.	5% bio → ser → sec. bio - matrix - silica + sericite + sec. bio				0.30%	28596C				0.25	0.005		
								→ 1cm qtz unit	Qtz slw moderately developed												
								→ 1cm qtz unit													
15																					
								→ 1cm calcite unit													
								→ 0.7 qtz-carb unit													
									149.9 - Alt'n changes to v strong				0.25%	28598C				0.23	0.001		

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-35
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 31 OF 41
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : m LOGGED BY :

DEPTH (m)	ALTERATION						GEOLOGY	COMMENTS :	AVG. CORE RECY/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (m)	ASSAYS																								
	SILICA	SERICITE	CLAY	SEC BIO	SEC ASPAR	EPIDOTE											FRACTURING	MINERALS	Cu %	Mo %																					
450								BIOTITE - FELDSPAR PORPHYRY cont.																																	
								* Hemetite present - 1%																																	
								→ 2cm qtz-carb unit Alt'n intensity very strong																																	
								* Rock is very hard																																	
								→ 1.6cm qtz unit																																	
455								→ 1.1cm qtz unit																																	
								* sec bio present along frtz, in the matrix and replacing 1" bio phenos																																	
								→ 1cm qtz unit																																	
								* Qtz slw moderately developed																																	
								→ 0.8cm qtz unit																																	
								→ 3cm qtz unit																																	
460																																									
								→ 1.5cm qtz-hem unit																																	
								→ 1cm qtz unit																																	
465								→ 1cm qtz unit																																	

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : *Poplar* HOLE No. : *PC-35*
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. *32* OF *41*
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : LOGGED BY :

DEPTH (M)	ALTERATION					MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED CR	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS			
	SILICA	SERICITE	CLAY	SEC BIO	SEC ASPAR												EPIDOTE	FRACTURING	Cu %	Mn %
465								BIOTITE FELDSPAR PORPHYRY								465				
								1.5cm qtz-carb unit												
								465.2 - Alt'n decreases to moderate - pheno outlines clear & distinct.												
								1cm qtz unit												
								Alt'n contacts are sharp - often split phenos - not different rock types												
								1.2cm qtz-shl unit												
470								sec bio alt'n confined to 1" bio												
								20.2cm qtz unit.												
								1.2cm qtz unit												
								Qtz s/w moderately developed												
								471.7-473 - Rock is strongly altered - very patchy.												
475								475 - Reappearance of clay on fractures												
								40cm gouge zone w/ clay												
								1cm gouge zone												
								2cm clay-gouge zone												
								4cm clay gouge zone												
								20.2cm qtz unit.												
480																				

COMPOSITE DRILL LOG

CORE SIZE :
CASING COLLAR ELEV. :
COORDINATES :
INCLINATION :

SCALE :
GROUND ELEV. :
N. E.
AZIMUTH :

PROJECT : Poplar
DATE STARTED :
DATE FINISHED :
TOTAL DEPTH :

HOLE No. : PC-35
PAGE No. 33 OF 41
REF. TO CLAIM CORNER :
LOGGED BY :

DEPTH (M)	ALTERATION						COMMENTS	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED Cu	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS	
	SILICA	SERICITE	CLAY	SEC B/D	SEC. KSPAR	EPIDOTE										Cu %	Mo %
480							BIOTITE FELDSPAR PORPHYRY cont										
							→ 20cm gouge zone Altn intensity - moderate					0.30%	28609C		480	0.25	0.001
							→ 22.1cm Qtz-carb unit Qtz s/w moderate					0.30%	28610C		483	0.28	0.004
485							→ 2cm Qtz unit → 2.8cm carb unit 486.7-488.9 - Fault zone that has been moderately cemented - breccia units within										
							→ 3cm Qtz unit No Rock type difference across the fault					0.40%	28611C		486	0.41	0.002
							Fault zone breccia										
							→ 1cm Qtz unit										
							→ 1.5cm Qtz unit										
490							490.9 - Altn intensity - very strong - increase in silica, see bid & sec Kspar					0.45%	28612C		489	0.75	0.001
							→ 2cm Qtz unit										
							→ 0.5cm spy unit					0.50%	28613C		492	0.46	0.001
495																	

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-35
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 36 OF 41
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : m LOGGED BY :

DEPTH (M)	ALTERATION					FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS			
	SILICA	SERICITE	CLAY	SEC BIO	SEC ASPAR													EPIDOTE	Cu %	Mn %	
525									DESCRIPTIVE GEOLOGY												
									BIDTITE - FELDSPAR PORPHYRY cont												
									→ 2cm qtz unit					0.40%	28624C		525			0.32	0.003
									→ 1.5cm qtz-carb unit								528				
									Alt'n intensity mod to str. -phenos often quite fuzzy					0.35%	28625C					0.39	0.002
530									→ mass of qtz-carb → 1cm gyp. unit → 3x 1cm wuggy qtz-carb units → 1cm wuggy qtz-carb unit.					2-2 1/2%	28626C		531			0.36	0.005
									Qtz s/w mod to str developed					0.30%	28627C						
									→ 1.5cm qtz unit								534				
									→ 1.1cm qtz unit.					0.30%	28627C					0.35	0.003
535									→ 1cm qtz-carb unit												
									→ 10cm gouge zone								537				
														0.30%	28628C					0.35	0.006
540																	540				

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-35
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 37 OF 41
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : m LOGGED BY :

DEPTH (M)	ALTERATION						FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS			
	SILICA	SERICITE	CLAY	SET 8/10	SEC. KSPAR	EPIDOTE													Cu %	Mo %		
540	strong	strong	weak (phenos)	weak to mod	weak (salvage)	weak				BIOTITE FELDSPAR PORPHYRY cont Aith intensity mod to strong				0.35%	28629C		540	0.32	0.002			
									1cm qtz-carb vnit.	* Qtz s/w mod. developed							543	0.29	0.001			
545	very strong	moderate	mod to str	moderate	weak	strong				544.3 - Aith intensity increases to very strong - rock very hard - increase in the amount of hem ~2%				0.50%	28630C		546	0.27	0.002			
									0.9cm qtz vnit					2-2 1/2 %			549	0.17	0.002			
550	strong	strong	weak (phenos)	weak	weak (salvage)	strong				549.2 - Aith intensity decreases to strong - phenos present w fuzzy borders or obliterated				0.45%	28632C		552	0.29	0.003			
									1cm qtz-carb vnit								555					

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-35
 CASING COLLAR ELEV. : GROUND ELEV. : DATE STARTED : PAGE No. 39 OF 41
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : m LOGGED BY :

DEPTH (m)	ALTERATION					FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (m)	ASSAYS	
	SILICA	SERICITE	CLAY	SEC. B.I.D.	SEC. KSPAR													EPIDOTE	Cu %
570									BIOTITE FELDSPAR PORPHYRY cont.										
									Alt'n intensity very strong					0.40%	28639C		570	0.27	0.004
									Up to 2% hematite present					0.40%	28640C		573	0.24	0.008
575									20.8cm qtz unit					0.40%	28641C		576	0.24	0.003
									577.6 - Alt'n intensity decreases to mod - phenos distinct					0.40%	28641C		579	0.24	0.003
									15cm qtz unit.					0.30%	28642C		579	0.29	0.014
									1.8cm py-qtz unit					0.30%	28642C		579	0.29	0.014
									29cm gouge zone					0.30%	28642C		579	0.29	0.014
									Sulphides are fracture controlled					0.30%	28642C		579	0.29	0.014
									0.6cm cpy unit					0.35%	28643C		582	0.34	0.012
									1cm qtz unit					0.35%	28643C		582	0.34	0.012
									1cm py unit.					0.35%	28643C		582	0.34	0.012
580														0.35%	28643C		582	0.34	0.012
585														0.35%	28643C		585	0.34	0.012

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-35
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 40 OF 41
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : LOGGED BY :

DEPTH (M)	ALTERATION					FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE NO.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS	
	SILICA	SERICITE	CLAY	SEC. BIO	SEC. KSPAR													EPIDOTE	Cu %
585									BIOTITE FELDSPAR PORPHYRY cont.							585			
	strong	strong	strong	weak (phenos)	weak	weak			* sec. bio appears in f-fts & replaces 1° bio phenos				0.30%	28644C		588	0.23	0.006	
									1.5cm qtz vult.										
590	v. str	mod	mod	mod	mod	weak			589-591 - Altn increases to very strong				0.30%	28645C		591	0.22	0.008	
									Qtz s/w mod developed.										
									591 - Altn strong				0.30%	28646C		594	0.28	0.017	
									1cm qtz vult.										
									2x0.7cm cal. vults.										
595	strong	strong	weak (phenos)	weak	weak (patchy)	weak			strong envelopes developed around HL py vults and f-fts				0.25%	28647C		597	0.22	0.011	
600									40 cm gouge zone.				0.25%	28648C		600	0.23	0.04	

D.D.H. - PC-66

COMPOSITE DRILL LOG

CORE SIZE : NQ wireline SCALE : 1:100 PROJECT : Poplar HOLE No. : PC-66
 CASING COLLAR ELEV.: 931.0 m GROUND ELEV.: 931.0 m DATE STARTED : June 1, 1981 PAGE No. / OF 20
 COORDINATES : 6095.23 N. 12603.80 E. DATE FINISHED : June 3, 1981 REF. TO CLAIM CORNER : Poplar #13
 INCLINATION : -090° AZIMUTH : - TOTAL DEPTH : 294.8 m LOGGED BY : G.L. Holland

DEPTH (m)	ALTERATION				FRACTURING	MINERALS	GEOLOGY	COMMENTS:	AVG CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED Cu	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (m)	ASSAYS				
	SILICA	SERICITE	CLAY	SEC. BIO.													Cu %	Mo %			
0								0 - 0.31m stick-up													
								0.31 - 3.05m Overburden													
								3.05m BIOTITE - FELDSPAR PORPHYRY - crowded porphyry in a dk grey color matrix - composition - 80% phenos - 45% plag - sericite - clay - 5% bio. - sericite - 50% groundmass - silica + sericite - bio phenos are often totally destroyed in sections - fracturing moderate - often w siliceous + sericite salvage - rehealed - phenos range up to 4mm in size. - minor N/A py vults - gyp uning weakly developed. - gtz s/w weakly developed. - Up to 5% diss. sulphides - average 3-4% → 1cm gouge zone → 1cm gouge zone → 2cm gtz-py vult				0.20%	29080C		3.05	0.09	0.003				
								3.05-19.9m Rock badly broken up → 1cm gtz vult				3-4%	0.20%	29081C		6	0.09	0.003			
								* Alt'n intensity moderate - phenos usually distinct w slightly fuzzy borders - phyllic phase → 1cm gtz vult.				0.20%	29082C		9	0.07	0.002				
								* No limonite present at surface → 25cm gouge zone				0.15%	29083C		12	0.05	0.001				
								* cpy contained in the siliceous matrix; along fractures. → 1cm py vult → 1.2cm py vult							15						

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-66
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 3 OF 20
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : m LOGGED BY :

DEPTH (M)	ALTERATION				FRACTURING	MINERALS	GEOLOGIC	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES		SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS	
	SILICA	SERICITE	CLAY	SEC. BLD.								% Cu	% ESTIMATED				% Cu	% Mo
30							BIOTITE FELDSPAR PORPHYRY cont.											
							→ 1cm gyp unit						0.20%	29089C			0.07	0.002
							→ Bxx 32.6 - 33.0 - Breccia w a silicious, chlorite rich matrix.											
							* Qtz s/w weak.						0.25%	29090C			0.08	0.001
35							→ 1.3cm Qtz unit.											
							* Alt'n moderate - phyllic.											
							→ 1cm py unit											
							→ 2x 1.5cm py units											
							→ 2cm Qtz unit											
							→ 15° sharp contact 37.9 - 38.9 - Breccia - BFP frags in a silicious matrix.					3%	0.20%	29091C			0.09	0.003
							→ Bxx											
							→ contact sharp @ 15° to c.a.											
40							Gypsum vning weak to moderate											
							→ 5cm gouge zone											
							→ 1cm Qtz unit						0.20%	29092C			0.06	0.003
							→ Bxx											
							→ 1.6cm Qtz unit											
							→ Contact @ 40° to c.a. 43.1 - 44.0 - Breccia - same as above.											
							Bxx											
							→ contact @ 55° to c.a. 44.0 - 44.6 - Quartz-Feldspar Porph. Dyke						0.15%	29093C			0.07	0.002
							→ Pmb-QFP											
							→ contact @ 80° to c.a.											
45																		

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-66
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 4 OF 20
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : LOGGED BY :

DEPTH (M)	ALTERATION				FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	Cu % ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS			
	SILICA	SERICITE	CLAY	SEC. B.I.D.													Cu %	Mn %		
45								BIOTITE - FELDSPAR PORPHYRY cont.												
								Bxv 45.9-46.6 Breccia w BFP QFP frags in a silicious matrix.					0.20%	29094C		45	0.06	0.003		
								0.8cm qtz unit 47.1-47.4 - strong mottling texture - mottles are silica + sericite								48				
								* Alt'n moderate - phyllic												
50								Bxv Qtz s/w weakly developed ~ 3-4/metre.					0.20%	29095C		51	0.06	0.002		
								1cm py unit.												
								1cm gyp unit Gypsum vining mod. ~ 10-12/metre					0.20%	29096C		54	0.05	0.002		
								Mod cemented gouge zone												
								1cm gouge zone 54.0 - Alt'n becomes strong to very strong - phenos often totally destroyed.												
								1cm py unit.												
55													0.20%	29097C		57	0.03	0.002		
								2cm gyp unit.												
								0.8cm carb unit.												
								2cm gyp unit.					0.20%	29098C		60	0.05	0.001		

COMPOSITE DRILL LOG

CORE SIZE :	SCALE :	PROJECT : Poplar	HOLE No. : PC-66
CASING COLLAR ELEV.:	GROUND ELEV.:	DATE STARTED :	PAGE No. 5 OF 20
COORDINATES : N. E.		DATE FINISHED :	REF. TO CLAIM CORNER :
INCLINATION :	AZIMUTH :	TOTAL DEPTH : m	LOGGED BY :

DEPTH (m)	ALTERATION				FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (m)	ASSAYS			
	SILICA	SERICITE	CLAY	SEC. B/D.													Cu %	Mo %		
60	str	v. str	v. wk					<u>BIOTITE - FELDSPAR PORPHYRY cont</u>								60				
								→ 2cm py unit 6/1m - Altn decreases to moderate - strong - silica & sericite form weak mottled texture - phenos distinct, often w fuzzy borders.					0.15%	2909C			0.04	0.003		
								→ 0.8cm carb unit. - Altn envelopes around fnts is quite strong - often up to 1cm wide												
								→ 1cm qtz unit → 2cm gouge zone.												
65								→ 2cm py-qtz unit. * Qtz s/w weakly developed					0.20%	2910C			0.05	0.004		
								→ 1cm qtz-py unit → 1cm gyp. unit * Gypsum vning mod. developed - range in size from 0.2 to 1cm					0.15%	2910/C			0.05	0.003		
								→ str cemented gouge zone * Cpy mainly concentrated along or around the fnts & units												
70								→ 0.7cm py unit * Minor hematite staining of the fepar phenos → 2cm gouge zone @ cal					0.20%	29102C			0.06	0.002		
								→ Weak brk												
								→ 0.9cm qtz unit @ sph on outer part. → 0.9cm qtz unit					0.20%	29103C			0.06	0.002		
75																				

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-66
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 6 OF 20
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : m LOGGED BY :

DEPTH (M)	ALTERATION				FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS				
	SILICA	SERICITE	CLAY	SEC. BIO.													Cu %	Mo %			
75							BIOTITE - FELDSPAR PORPHYRY cont														
							→ 2x1.3cm py units → 2cm chl. units → 1.5cm qtz-py unit														
							* Alth moderate to strong -phenos distinct						0.15%	29104C							
							→ 2cm gouge zone → Bxx														
80							* Qtz s/w weak														
							→ 0.8cm py unit → 2cm qtz unit														
							→ 1cm gouge zone. → weak bxx														
							82.5-83.1 - Fault zone w Quartz-feld Porph. gouge.						0.15%	29106C							
							60cm fault w feld gouge														
							→ 1cm gouge zone. → 0.8cm py unit														
85							Minor hematite staining of the fspar phenos.														
							→ 0.9cm qtz unit														
							Gypsum vning moderate														
							→ 0.6cm gyp unit						0.20%	29107C							
							→ 1cm py unit → 1cm gyp unit														
							89.3-90.1 - Bxx w BFP + PMD frags in a silicious matrix														
90							→ 0.6cm gyp unit → 1cm py unit → 1cm gyp unit Bxx														

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-66
 CASING COLLAR ELEV. : GROUND ELEV. : DATE STARTED : PAGE No. 7 OF 20
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : LOGGED BY :

DEPTH (M)	ALTERATION			FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS			
	SILICA	SERICITE	CLAY													Cu %	Mo %		
90	strong	strong	very weak (phenos)				1cm gyp unit BIOTITE - FELDSPAR PORPHYRY cont VEINING - Numerous H/L py units cut qtz units - gypsum units cut qtz / py units					0.25%	29109C		90	0.08	0.003		
93							Alt's intensity strong - phenos present but not well defined - strong pervasive silicification and sericitization					0.25%	29110C		93	0.08	0.003		
95							1cm gtz unit 0.4cm py unit cuts gtz unit 1cm gtz unit Qtz s/w increases slightly weak to moderate - 5-6 per meter					0.25%	29111C		96	0.11	0.001		
96							1cm gauge - TP zone 1.5cm gtz-py unit w Hem Gypsum veining moderate ~ 10 per meter - mostly H/L				3%	0.25%	29111C		99	0.09	0.003		
100							1cm gtz unit 1cm gyp unit 1cm gtz-py unit 1.5cm py unit					0.25%	29112C		102	0.11	0.002		
105							5cm gauge zone					0.20%	29113C		105				

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-66
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 10 OF 20
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : m LOGGED BY :

DEPTH (M)	ALTERATION				FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS			
	SILICA	SERICITE	CLAY	SEC. B/D.													Cu %	Mo %		
135								DESCRIPTIVE GEOLOGY												
								PMD TRACHYTIC RHYODACITE cont												
								→ 1cm calcite unit												
140																				
145																				
150																				

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-66
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 11 OF 20
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : m LOGGED BY :

DEPTH (m)	ALTERATION				FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (m)	ASSAYS				
	SILICA	SERICITE	CLAY	SEC BID													Cu %	M. %			
150																					
								DESCRIPTIVE GEOLOGY													
								<u>PMD - TRACHYTIC RHYODACITE cont</u>													
155																					
160																					
165																					

ALTERATION

SILICA
 SERICITE
 CLAY
 SEC BID

very weak
 weak

FRACTURING

MINERALS

weak

GEOLOGY

COMMENTS :

DESCRIPTIVE GEOLOGY

PMD - TRACHYTIC RHYODACITE cont

0.8cm cal unit

AVG. CORE REC'Y/HOLE

DRILLING INTERVAL

% CORE RECOVERED

% SULPHIDES

40.1%

% ESTIMATED

Nil

SAMPLE No.

% SAMPLE RECOVERED

SAMPLE INTERVAL (m)

Not sampled

ASSAYS

Cu %
 M. %

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-66
 CASING COLLAR ELEV. : GROUND ELEV. : DATE STARTED : PAGE No. 13 OF 20
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : m LOGGED BY :

DEPTH (M)	ALTERATION			FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	ESTIMATED		SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS	
	SILICA	SERPENTINE	CLAY									Cu %	Mo %				Cu %	Mo %
180	strong	strong to v strong	v weak				<u>BIOTITE FELDSPAR PORPHYRY</u> → 0.70m py unit Altn intensity strong - phenos often totally destroyed - patches of mod altn present within				2 1/2 - 3%	0.15%	0.15%	29124C		180	0.06	0.002
							→ 10m qtz-carb unit									183		
185							→ 1.20m gyp unit Qtz. s/w weak → 10m py unit									186	0.08	0.001
							185.7 - Altn decrease to moderate - phenos distinct.									189	0.06	0.001
							→ 10m qtz unit.									192	0.08	0.001
190	moderate	strong	weak				→ 2x1.50m qtz unit. 191.0 - Increase in qtz s/w - moderate									192	0.09	0.001
							→ 10m gage zone											
							→ 4cm gage zone filled w chl py.											
195							194.8 - Altn increases to strong									195		

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-66
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 14 OF 20
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : m LOGGED BY :

DEPTH (M)	ALTERATION					FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS			
	SILICA	SERICITE	CLAY	SEC. BIO	SEC. KSPAR													Cu %	Mo %		
195	↑	↑	↑	↑	↑	↑			DESCRIPTIVE GEOLOGY												
									BIOTITE FELDSPAR PORPHYRY cont.												
									Alt'n intensity strong -weak potassic -up to 2% hematite present					0.25%	29129C		195	0.08	0.001		
									→ 3cm qtz unit or py								198				
									sec. bio confined to phenos -1% bio → sec. bio + sericite					0.20%	29130C			0.11	0.006		
200									→ 0.8cm gyp unit												
									weak gypsum vining												
									Qtz s/w weak to moderate												
												2 1/2 - 3%		0.30%	29131C		201	0.11	0.002		
									→ 1cm qtz unit												
									204.5-207.1 - Alt'n decreases to mod. -phyllitic phase					0.25%	29132C		204	0.08	0.001		
205									→ 0.5cm py unit → 1.5cm gouge zone												
									→ 1.8cm qtz unit → 1.5cm py-gyp unit → 1cm gyp unit												
									207.1 - Alt'n strong - weak potassic												
									→ 3.5cm gyp-py unit to Hem					0.15%	29133C		207	0.23	0.005		
210									Hem-py intergrowths present												

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : *Poplar* HOLE No. : *PC-66*
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. *15* OF *20*
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : m LOGGED BY :

DEPTH (M)	ALTERATION				FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES		SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS			
	SILICA	SERICITE	CLAY	SEC. BIO.								Cu %	Mo %							
210	↑	↑	↑	↑	↑		<i>gyp-py-Hem unit is full width of core</i>													
	↑	↑	↑	↑	↑		<i>BIOTITE - FELDSPAR PORPHYRY cont</i>													
	↑	↑	↑	↑	↑		<i>Alt'n strong - weak potassic</i>													
	↑	↑	↑	↑	↑		<i>15cm gyp unit</i>					0.35%		<i>29134C</i>						
	↑	↑	↑	↑	↑															
215	↑	↑	↑	↑	↑		<i>1.3cm gyp unit</i>					0.35%		<i>29135C</i>						
	↑	↑	↑	↑	↑		<i>Qtz s/w weak to moderate</i>													
	↑	↑	↑	↑	↑		<i>2.5cm Qtz-py unit</i>													
	↑	↑	↑	↑	↑		<i>1cm Qtz unit.</i>													
	↑	↑	↑	↑	↑		<i>1cm gouge zone.</i>													
	↑	↑	↑	↑	↑															
220	↑	↑	↑	↑	↑		<i>3cm Qtz unit</i>													
	↑	↑	↑	↑	↑		<i>4cm gyp unit.</i>													
	↑	↑	↑	↑	↑															
	↑	↑	↑	↑	↑		<i>0.6cm Qtz unit</i>					0.35%		<i>29137C</i>						
	↑	↑	↑	↑	↑		<i>1.3cm Qtz unit</i>													
225	↑	↑	↑	↑	↑															

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-66
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 16 OF 20
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : m LOGGED BY :

DEPTH (M)	ALTERATION				FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE RECY/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED Cu	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS			
	SILICA	SERICITE	CLAY	SEC. B/D.													Cu %	Mo %		
225	↑	↑	↑	↑	↑		→ 3cm gouge zone. <u>BIRTITE - FELDSPAR PORPHYRY cont</u>									225				
	↑	↑	↑	↑	↑		* Numerous H/L hem units						0.35%	29139C		228	0.10	0.002		
230	↑	↑	↑	↑	↑		→ 1cm qtz unit Alt'n intensity strong						0.35%	29140C		231	0.12	0.002		
	↑	↑	↑	↑	↑		qtz s/w weak to mod developed ~ 4 per meter					2 1/2 %	0.30%	29141C		234	0.15	0.003		
	↑	↑	↑	↑	↑		→ 1cm qtz unit Gypsum vining moderate - H/L.						0.40%	29142C		237	0.14	0.002		
235	↑	↑	↑	↑	↑		→ 0.7cm qtz-carb unit ~ 5-7 per meter						0.35%	29143C		240	0.14	0.003		
	↑	↑	↑	↑	↑		→ 1.3cm gyp unit													
	↑	↑	↑	↑	↑		→ 1cm qtz unit													
	↑	↑	↑	↑	↑		→ 1cm qtz unit													
240	↑	↑	↑	↑	↑															

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-66
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 18 OF 20
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : m LOGGED BY :

DEPTH (M)	ALTERATION				FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED Cu	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS			
	SILICA	SERICITE	CLAY	SEC. BIO.													Cu %	Mo %		
255	moderate to strong	strong	weak (phenos)	weak				1cm qtz unit w/epi BIOTITE - FELDSPAR PORPHYRY cont. 2cm qtz unit								255	0.15	0.012		
260	moderate to strong	strong	weak (phenos)	weak				1cm qtz unit Alt'n intensity moderate to strong - phenos distinct 10cm qtz unit					0.20%	29149C		258	0.13	0.002		
265	strong	str to v. str.	weak	mod				1cm qtz unit 2cm vuggy qtz unit 263 - Alt'n increases to strong - phenos indistinct - increase in hematite 0.2cm qtz unit str. Hem. var.					0.20%	29151C		261	0.13	0.004		
265	mod to str	strong	weak (phenos)	weak				1cm gauge zone 265.6 - Alt'n decreases to moderate - phenos distinct. 1.3cm gauge zone 2cm gauge zone					0.30%	29152C		264	0.09	0.003		
270	strong							1cm gauge zone 10cm fault zone					0.35%	29153C		267	0.12	0.007		

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-66
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 19 OF 20
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : m LOGGED BY :

DEPTH (M)	ALTERATION				FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED Cu	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS	
	SILICA	SERICITE	CLAY	SEC. B/D													Cu %	Mg %
270					strong		BIOTITE FELDSPAR PORPHYRY cont											
							→ 15cm gouge zone											
							→ 20m gouge zone	1700 - Alt'n increases to strong										
								- phenos present but outlines quite fuzzy										
							→ 25cm gouge zone.	- strong upper phyllic phase.										
								No gypsum units past the 1700 fault zone.										
							→ 1cm qtz unit											
								atz s/w weak to moderate										
275							→ 0.8m qtz-carb unit.											
								Rock description										
							→ 1.8cm qtz unit	- whitish to pale green color										
								- crowded porphyry										
							→ 1cm qtz unit.	- composition										
								- 88% phenos - 45% plag → sericite										
							→ 0.7cm py unit.	- 10% bio → sericite										
								- 45% matrix - sericite + silica										
								- very strong to intense sericitization										
								- hematite present around sulphides and in fnts.										
280							→ 1cm qtz-carb unit	* Possibly some movement										
								across the 270m fault zone										
							→ 1cm qtz unit	- different alt'n										
								- less sulphides.										
							→ 2cm qtz unit.											
							→ 3.5cm qtz unit											
285																		

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-66
 CASING COLLAR ELEV. : GROUND ELEV. : DATE STARTED : PAGE No. 20 OF 20
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : m LOGGED BY :

DEPTH (M)	ALTERATION				FRACTURING	MINERALS	GEOLOG	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS			
	SILICA	SERICITE	CLAY	SEC. BIO													Cu %	Mo %		
285							1.5cm qtz-carb unit	BIOTITE FELDSPAR PORPHYRY cont								285				
								Alt'n strong - upper phyllic					0.35%	29159C			0.17	0.007		
							1cm qtz unit	- very strong sericitization								288				
							2cm qtz-carb unit						0.35%	29160C			0.20	0.010		
290							1cm qtz unit													
								Qtz s/w moderate								291				
													0.20%	29161C			0.17	0.003		
295								294.8 m End of hole								294.8				

D.D.H. - PC-67

COMPOSITE DRILL LOG

CORE SIZE : NQ wireline. SCALE : 1:100 PROJECT : Poplar HOLE No. : PC-67
 CASING COLLAR ELEV.: 926.75 GROUND ELEV.: 926.6m DATE STARTED : June 3, 1981 PAGE No. 1 OF 21
 COORDINATES : G198.10 N. 12493.76 E. DATE FINISHED : June 5, 1981 REF. TO CLAIM CORNER : Poplar #13
 INCLINATION : -70° AZIMUTH : 090° TOTAL DEPTH : 303.8 m LOGGED BY : G.L. Holland

DEPTH (M)	ALTERATION				FRACTURING	MINERALS	GEOLOGY	COMMENTS:	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS				
	SILICA	SERICITE	CLAY	SEC. BIO.													Cu %	Mo %			
0								0-0.31 stick-up.													
								0.31 - 3.05 m overburden.													
								3.05 m													
								3.0-32.7m PMD - Rhyodacite Dyke.													
								- trachytic and porphyritic texture.													
								- dark grey color silicious, aphanitic matrix													
								- 15% phenos → 11% plag → weakly clay.													
								4% bio.													
								- 0-5% fsp lathes - range from 0 to 5%													
								- bio phenos fresh, plag phenos weakly													
								altered. bio up to 2mm, plag up to 6mm													
								- in size.													
								* Limonite present on frts to 30m.													
								* Minor hematite staining of the													
								fspar phenos.													
								→ 10cm gouge zone													
								→ 5cm gouge zone													
								→ 1cm qtz-carb vnt.													

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-67
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 4 OF 21
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : m LOGGED BY :

DEPTH (M)	ALTERATION			FRACTURING	MINERALS	GEOLOGY	COMMENTS:	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED Cu	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS			
	SILICA	SERICITE	CLAY													JEC. BIO.	Cu %	Mo %	
45	Strong	v. strong		strong	py-cpy		FELDSPAR PORPHYRY cont. qtz s/w moderately developed → 1cm gouge zone			3%		40.10%	29166C		45	0.04	0.003		
							→ 1.5cm gouge zone → 5cm py-rich zone 47.9m sharp contact @ 40° to C.A. PMD. TRACHYTIC RHYODACITE - tan to pale green color matrix - fspar lathes are very weak - 15% phenos - 10% plag → clay - 5% bio - fresh → ser				40.1%	Nil	29167C		48	<0.01	0.001		
	Traces	weak		weak			→ 2x2cm gouge zone w chl. - fracturing weak - phenos range up to 6mm in size						29168C		51	0.03	0.001		
							52.1m sharp contact @ 60° to C.A. BIOTITE FELDSPAR PORPHYRY - crowded porphyry, tan color matrix - comp - 60% phenos → 55% plag → sericite → 5% bio → sericite - 40% matrix - sericite & silica					40.10%	29169C		54	0.04	0.002		
	mod to strong	strong	weak	moderate	py-(cpy)		→ 0.7cm py unit - phenos distinct - up to 4mm in size - bio phenos completely altered - only relics - silica-sericite salvage present around H/L Arts. - Numerous H/L py units - alteration moderate to strong - phyllic - Qtz s/w weakly developed			3%		40.10%	29170C		57	0.04	0.001		
	strong	strong		strong	py-cpy		→ 2.5cm fault zone 58.2m fault contact FELDSPAR PORPHYRY As before			4%		0.10%			60	0.04	0.001		

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-67
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 5 OF 21
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : LOGGED BY :

DEPTH (m)	ALTERATION				FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (m)	ASSAYS			
	SILICA	SERICITE	CLAY	SEC. B/D.													Cu %	Mo %		
60	strong	very strong			strong	py-cpy	10cm gouge zone 1.8cm qtz vein 4cm bxw zone 1cm gouge zone 2cm gouge zone 2cm gouge zone 2cm gouge zone 30cm gouge zone 2cm gouge zone 3cm gouge zone	FELDSPAR PORPHYRY cont. Qtz s/w moderately developed 63.6m Gauge Contact @ 45° to SA PMD - QUARTZ - FELDSPAR PORPHYRY - olive green aphanitic matrix - porphyritic texture - samp - 15% phenos - 9% qtz - 6% plag + clay - qtz phenos are round to subround ? up to 4mm in size Bxx w gouge - minor hematitic staining - A lot of gouge zones but fracturing is generally weak. *Numerous brecciated sections throughout - contains fragments of feldspar porphy and argillite.			3 1/2 - 4%	0.10%	29171C		60	0.05	0.002			
65					weak	hem							20.18%	29172C		63	0.02	0.004		
70	weak (phenos)				weak								Nil			66				
75																				

Not sampled

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : *Poplar* HOLE No. : PC-67
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 6 OF 21
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : m LOGGED BY :

DEPTH (M)	ALTERATION				FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS			
	SILICA	SERICITE	CLAY	SEC. BIO													Cu %	Mo %		
75							<p>40cm gauge zone</p> <p><i>PMD - QUARTZ FELDSPAR PORPHYRY</i></p> <p>* breccia sections contain fragments of argillite and feldspar porphyry - some sections have 1 or 2 frags per meter. Others are strongly brecciated.</p>													
80							<p>str. bxx</p>													
85							<p>str. bxx</p> <p>str. bxx</p> <p>1cm gauge zone</p> <p>str. bxx</p> <p>str. bxx</p>													
90																				

20.01%
Nil

Not Sampled

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-67
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 7 OF 21
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : LOGGED BY :

DEPTH (m)	ALTERATION				FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (m)	ASSAYS			
	SILICA	SERICITE	CLAY	SEC. BIO													Cu %	Mo %		
90					weak		<p>PMD - QUARTZ - FELDSPAR PORPHYRY cont.</p> <p>strong bxx zone</p> <p>brecciated contact</p> <p>92.8m</p> <p>BIOTITE FELDSPAR PORPHYRY</p> <p>2cm qtz unit</p> <p>- Most sections are very strongly altered - destroying original text.</p> <p>- strong qtz s/w</p> <p>- strong w/ py vining</p> <p>- Mod gyp vining - 1st sign.</p>					< 1%	< 0.10%			90				
95	very strong	very strong	very weak		strong		<p>less altered sections</p> <p>- tan colored matrix</p> <p>- crowded porphyritic texture</p> <p>- Comp - 56% phenos - 50% plag + ser</p> <p>- 45% matrix - silica + sericite</p> <p>- less fractured than above - moderate</p> <p>- bio phenos are completely altered.</p> <p>1cm gouge zone</p> <p>1.5cm qtz unit</p> <p>0.5cm py unit.</p>					2%	0.20%	29173C		93	0.12	0.002		
100	strong	weak			strong		<p>Most of sulphides fracture controlled</p> <p>2cm qtz unit</p> <p>1cm qtz unit</p> <p>2x1cm gouge zones</p> <p>Gauge Contact @ 42° to C.A.</p> <p>102.7m</p> <p>ARGILLITE</p> <p>- tan color aphanitic to very fine grained</p> <p>- strong silicification</p> <p>- Numerous w/ py units</p> <p>- ote s/w moderately developed</p> <p>- sulphides all fracture controlled</p> <p>- No gypsum units</p> <p>1cm qtz unit.</p> <p>2cm gouge zone</p>					< 0.1%	< 0.10%	29174C		96	0.09	< 0.001		
105	strong	weak			strong							1 1/2 - 2%	< 0.1%	29175C		99	0.09	0.002		
														29176C		102	0.11	0.002		

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-G7
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 8 OF 21
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : m LOGGED BY :

DEPTH (m)	ALTERATION			FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (m)	ASSAYS						
	silica	sericite	clay													Cu %	Mo %					
105	moderate to strong weak	strong	PY - (CPY)	30 cm gouge zone	ARGILLITE cont.							40.10%	29177C		105	0.14	0.002					
				→ 1.5cm qtz unit																		
							→ 1 cm qtz unit															
110				→ 1.6cm qtz unit.	* Qtz slw moderately developed																	
				→ 1cm qtz unit																		
				→ 1cm py unit.	* Sulphides fracture controlled and fine grained.						1/2%											
				→ 0.8cm gouge zone.																		
				→ 1.7cm qtz unit																		
				Bx	113.7 - 114.8 Breccia - argillite frags in siliceous matrix.																	
				→ 1cm qtz unit.	115.5m sharp contact @ 50° to C.A																	
					PMD - Quartz-Feldspar Porphyry																	
				→ 1cm gouge zone	- olive green colored, aphanitic groundmass.																	
					- 20% phenos - 10% qtz "eyes"																	
					- 10% plag - fresh clay.																	
				→ 2.5cm gouge zone	- weakly fractured.																	
120																						

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-67
 CASING COLLAR ELEV. : GROUND ELEV. : DATE STARTED : PAGE No. 9 OF 21
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : LOGGED BY :

DEPTH (M)	ALTERATION			FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS	
	SILICA	SERICITE	CLAY													Cu %	Mo %
120				weak			PMD - QUARTZ - FELDSPAR PORPHYRY cont				< 0.10%						
				weak			122.6 m sharp contact @ 50° to c.a.					Nil					
				weak			<u>ARGILLITE</u>										
				weak			- tan color, aphanitic to fine grained										
				weak			- silicified.										
				weak			- numerous N/A py vnt.										
125				weak			- moderate Qtz s/w.										
				weak			1cm gouge zone.										
				weak			1cm gouge zone										
				weak			- Sulphides fracture controlled										
				weak			1.5cm gouge zone										
				weak			2cm gouge zone										
				weak			30cm fault zone										
				weak			60cm fault zone										
130				weak			20cm gouge zone										
				weak			0.8cm py vnt.										
				weak			30cm gouge zone.										
				weak			1cm Qtz vnt w py										
135				weak			0.5cm py vnt.										

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-67
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 10 OF 21
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : LOGGED BY :

DEPTH (M)	ALTERATION			FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED Cu	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS			
	SILICA	SERICITE	CLAY													Cu %	Mo %		
135							ARGILLITE cont												
							1cm qtz vnit												
							3cm gouge zone					0.15%	29185C				0.10	0.002	
							20cm gouge zone												
							15cm gouge zone												
							1cm qtz vnit. * Qtz s/w moderate					0.15%	29186C				0.11	0.002	
							0.8cm qtz vnit. * strong sericite-silica envelopes around H/L frts & vnits												
							50cm fault zone												
							30cm fault zone												
											1 1/2 - 2%	0.15%	29187C				0.11	0.002	
							1cm gouge zone												
							4cm gouge zone												
							0.8cm gouge zone					0.15%	29188C				0.09	0.002	
							6cm gouge zone												
							3cm gouge zone												
							1cm qtz vnit.												
							0.9cm gouge zone												
							60cm fault zone					0.20%	29189C				0.09	0.002	
150																			

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-67
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 12 OF 21
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : m LOGGED BY :

DEPTH (M)	ALTERATION			FRACTURING	MINERALS	GEOLOGY	COMMENTS:	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED Cu	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS			
	SILICA	SERICITE	CLAY													Cu %	Mo %		
165							ARGILLITE cont								165				
							→ 1.5cm qtz vnit												
							Rock is becoming more silicified and sericitized					0.15%	29195C				0.09	0.003	
							→ 0.9cm py vnit.												
170							Qtz s/w moderately developed					0.20%	29196C				0.05	0.002	
							→ 1cm qtz vnit.												
											1 1/2 - 2%								
												0.15%	29197C				0.04	0.003	
							→ 1.5cm gouge zone												
175							176.9-177.5 - fault zone @ 25° to C.A					0.20%	29198C				0.05	0.004	
							→ 60cm fault zone												
							→ 1cm qtz vnit.												
180												0.25%	29199C				0.06	0.004	

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-67
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 13 OF 21
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : m LOGGED BY :

DEPTH (m)	ALTERATION			FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	Cu % ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (m)	ASSAYS			
	SILICA	SERICITE	CLAY													Cu %	Mo %		
80							ARGILLITE cont.												
							* All the fractures have been rehealed					0.15%	29200C		180			0.07	0.002
							→ 1cm qtz unit → 2cm qtz unit					0.15%	29201C		183			0.09	0.003
185							↓ Sulphides confined to fracture and sil-ser. patches												
							→ 0.5cm py unit.					0.10%	29202C		186			0.12	0.001
							Qtz s/w moderately developed				2-2 1/2								
							→ 1cm qtz unit.					0.10%	29203C		189			0.11	0.002
190																			
							→ 0.2cm qtz unit. → 1cm py unit. → 2cm qtz unit					0.15%	29204C		192			0.13	0.001
195																			

COMPOSITE DRILL LOG

CORE SIZE :
CASING COLLAR ELEV. :
COORDINATES : N. E.
INCLINATION :

SCALE :
GROUND ELEV. :
AZIMUTH :

PROJECT : Poplar
DATE STARTED :
DATE FINISHED :
TOTAL DEPTH :

HOLE No. : PC-67
PAGE No. 14 OF 21
REF. TO CLAIM CORNER :
LOGGED BY :

DEPTH (m)	ALTERATION			FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (m)	ASSAYS	
	SILICA	SERICITE	CLAY													Cu %	Mo %
195							<p>→ 10m qtz vnit.</p> <p><u>ARGILLITE cont.</u></p> <p>Alteration intensity increases to very strong - patches of siliceous - phyllic phase.</p>					0.10%	29205C		195	0.09	0.003
							<p>→ 20m qtz vnit cuts 10m py vnit</p>					0.10%	29206C		198	0.11	0.003
200							<p>→ 10m qtz vnit.</p> <p>Qtz s/w weakly developed</p>					0.10%	29207C		201	0.08	0.002
							<p>Fracturing strong - healed</p>				1/2 - 2%	0.10%	29208C		204	0.08	0.003
205							<p>→ 10m qtz vnit. Sulphides contained in frtz and silica-sericite alt'n patches.</p> <p>→ 0.8m py vnit.</p> <p>→ str. py vnit.</p>					0.10%	29209C		207	0.05	0.002
210							<p>→ 10m qtz vnit</p>								210		

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-67
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 15 OF 21
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : m LOGGED BY :

DEPTH (m)	ALTERATION			FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (m)	ASSAYS			
	SILICA	SERICITE	CLAY													Cu %	Mo %		
210							ARGILLITE cont.												
							→ 23cm qtz vult.												
							→ 2cm gouge zone												
							→ 1cm py vult in gouge												
215	strong	very strong		strong	py-clay		→ 1cm gouge zone				1 1/2 - 2%	0.10%	29211C					0.03	0.002
							→ 1cm gouge zone												
							Sharp irregular contact												
							217.8m												
							BIOTITE-FELDSPAR PORPHYRY												
							→ 35cm fault zone												
							- Alteration intensity very strong Only small patches of rock remain that contain the original porphyritic texture												
							- upper phyllic phase												
220							→ 1cm qtz vult.												
							→ 4cm gouge zone												
							→ 2cm gouge zone												
							→ 2.12cm gouge zone												
							- Qtz s/w weak to moderate												
							- chlorite present along frtz.												
							- Numerous w/L py vnits												
							→ 1cm gouge zone												
							→ 2cm gouge zone												
							→ 2cm py vult.												
225																			

COMPOSITE DRILL LOG

CORE SIZE :	SCALE :	PROJECT : <i>Poplar</i>	HOLE No. : <i>PC-67</i>
CASING COLLAR ELEV.:	GROUND ELEV.:	DATE STARTED :	PAGE No. <i>17</i> OF <i>21</i>
COORDINATES : N. E.		DATE FINISHED :	REF. TO CLAIM CORNER :
INCLINATION :	AZIMUTH :	TOTAL DEPTH : <i>m</i>	LOGGED BY :

DEPTH (M)	ALTERATION SILICA SERICITE CLAY SEC. B/D. SEC. KSPAR	FRACTURING MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES		SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS						
								%	Cu				Cu %	Mo %					
240				1cm qtz unit. <u>BIOTITE-FELDSPAR PORPHYRY cont</u>								240							
				241.4 - A gradual decrease in alteration - moderate					0.15%	29220C			0.20	0.002					
				1cm qtz unit. 242 - 1st appearance of gypsum - weak 1st appearance of hem in fractures								243							
				1.5cm qtz unit.					0.30%	29221C			0.22	0.002					
245				1cm qtz unit.															
				Qtz s/w moderately developed.															
				1cm qtz unit.															
				2cm calcite unit.															
				248 - Alteration increases sharply - very strong - phenos destroyed. leaving a silicious rock - 1st sign of good potassic alt'n. - possible sec kspar present as salvage															
				1cm qtz unit.															
				2cm qtz unit.															
250				2cm qtz unit. Gypsum s/w - moderate * H/L (< 0mm)															
				1.7cm qtz unit.															
255																			

D.D.H. - PC-68

COMPOSITE DRILL LOG

CORE SIZE : NQ wireline SCALE : 1:100 PROJECT : Poplar HOLE No. : PC-68
 CASING COLLAR ELEV. : 918.7m GROUND ELEV. : 918.7m DATE STARTED : June 5, 1981 PAGE No. 1 OF 21
 COORDINATES : 6194.91 N. 12316.18 E. DATE FINISHED : June 7, 1981 REF. TO CLAIM CORNER : Poplar 13
 INCLINATION : -090° AZIMUTH : — TOTAL DEPTH : 310.0 m LOGGED BY : G.L. Holland

DEPTH (m)	ALTERATION				FRACTURING	MINERALS	GEOLOGY	COMMENTS:	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (m)	ASSAYS	
	SILICA	SERICITE	CLAY	SEC. BIO.													Cu %	Mo %
0								0-0.31m Stick-Up										
5								0.31 - 10.1 m Overburden										
10								10.1 - 10.7m Casing in bedrock										
10.7								10.7m BIOTITE-FELDSPAR PORPHYRY										
								- crowded porphyry, tan color matrix - comp - 40% phenos - 35% plag → sericite - 5% bio → ser - 60% matrix - silica + sericite - phenos range up to 4mm in size - Qtz 3/4 moderate - Numerous N/A py units - Alteration moderate - phenos distinct - potassic phase			2 1/2 - 3%	0.15%	28652c	10.7			0.10	0.003
								10.7-27.7 Rock badly broken up										
15																		

COMPOSITE DRILL LOG

CORE SIZE :
CASING COLLAR ELEV. :
COORDINATES :
INCLINATION :

SCALE :
GROUND ELEV. :
N. E.
AZIMUTH :

PROJECT : Poplar
DATE STARTED :
DATE FINISHED :
TOTAL DEPTH : m

HOLE No. : PC-68
PAGE No. 3 OF 21
REF. TO CLAIM CORNER :
LOGGED BY :

DEPTH (m)	ALTERATION				FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE RECY/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (m)	ASSAYS			
	SILICA	SERICITE	CLAY	5% B.I.D.													Cu %	Mo %		
30								<u>BIOTITE-FELDSPAR PORPHYRY cont</u>												
								occupy unit 0.8cm gouge zone.					0.25 %	28659C		30	0.14	40.00		
								1cm qtz unit. * Qtz s/w moderately developed.												
								2.5cm gouge zone. 1cm gouge zone. * Moderate gypsum units					0.15 %	28660C		33	0.16	0.001		
35								* Minor hematite staining of phenos												
								Alt'n moderate to strong phenos usually distinct				2 1/2 - 3 %	0.15 %	28661C		36	0.16	0.002		
								1cm qtz unit 0.7cm py unit. * Ftzs have developed sil-ser rich selvages - up to 0.6cm wide.					0.15 %	28661C		36	0.16	0.002		
								1.8cm qtz unit 0.8cm qtz unit					0.20 %	28662C		39	0.17	40.00		
40								10cm gouge zone 3cm gouge zone 1cm gouge zone												
								0.7cm py unit.												
								0.7cm qtz unit					0.25 %	28663C		42	0.21	40.00		
45																45				

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-68
 CASING COLLAR ELEV. : GROUND ELEV. : DATE STARTED : PAGE No. 7 OF 21
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : LOGGED BY :

DEPTH (M)	ALTERATION				FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS				
	SILICA	SERICITE	CLAY	SEC. BIO.													Cu %	Mo %			
90	mod to str	moderate	strong	strong	mod-str		BIOTITE - FELDSPAR PORPHYRY cont														
							90-93.0 - strong sec bio														
							0.0cm py unit Qtz s/w strong														
							1cm gouge zone														
							3cm gouge zone Alt'n strong - potassic phase														
95							1.5cm gouge zone														
							97-98.1 - Breccia - PMD frags in BMP														
							irregular contact @ 80° to c.a														
							98.1 m														
							QUARTZ - FELDSPAR PORPHYRY (PMD)														
							- porphyritic texture.														
							- olive green color aphanitic matrix														
							- composition - 15% phenos - 8% qtz "eyes" - 2% plag & clay														
							2x2cm gouge zones - fracturing weak														
							10cm gouge zones														
							1cm gouge zone														
							10cm gouge zones														
105																					

Not sampled

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-68
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 8 OF 21
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : m LOGGED BY :

DEPTH (m)	ALTERATION				FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (m)	ASSAYS	
	SILICA	SERICITE	CLAY	SEC. B/D.													Cu %	Mo %
105																		
								DESCRIPTIVE GEOLOGY										
								QUARTZ-FELDSPAR PORPHYRY (PMD)										
								2cm gouge zone.										
								1cm gouge zone.										
110																		
								1cm gouge zone.										
								2cm gouge zone. 112.7 m Gouge Contact @ 70° to C.A.										
								BIOTITE-FELDSPAR PORPHYRY										
								- as before.										
115								- Alt'n moderate										
								- potassic phase										
								3cm gouge-chl zone.										
								116.6 m Sharp Contact @ 80° to C.A.										
								PMD - Quartz-Feldspar Porphyry										
								2cm gouge zone.										
								as before										
								1cm gouge zone.										
120																		

Not Sampled

Not Sampled

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-68
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 9 OF 21
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : m LOGGED BY :

DEPTH (M)	ALTERATION				FRACTURING MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	Cu % ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS		
	SILICA	SERICITE	CLAY	SEC. BIO												Cu %	Mo %	
120							PMD - QUARTZ FELDSPAR PORPHYRY cont				40.1%	Nil					Not sampled	
			weak		weak		Favt contact @ 21.5 Gouge contact @ 25° to CA								121.5			
							BIOTITE - FELDSPAR PORPHYRY					0.40%	28684C		123	0.22	0.001	
							→ 10cm gyp. unit - crowded porphyry → 4cm gouge zone - tan color matrix → 1.5 cm gouge zone - comp - 55% phenos - 50% plag → ser. clay → 1cm qtz unit - 45% matrix - sil + ser + sec. bio → 1cm gyp unit. - phenos range up to 5mm in size					0.50%	28675C		126	0.40	0.001	
125							- Qtz s/w strongly developed - Numerous H/L py units - up to 1 1/2% hem - diss. in fts - Moderate H/L gypsum units. - fractures often has salvages of silica + sericite - up to 0.8cm wide											
							→ 1cm qtz unit				3%	0.45%	28686C		129	0.36	0.001	
							→ 1cm qtz unit * Minor hematite staining of the fspar phenos → 1.2cm qtz unit → 1.5 cm qtz unit											
							Alt'n is moderate - phenos distinct - weak potassic phase					0.30%	28687C		132	0.35	0.001	
							→ 0.8cm cal unit out 1cm qtz unit											
							→ 2.5cm gouge zone					0.30%	28688C		135	0.35	0.002	
135							→ 1.5cm qtz unit											

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-68
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 10 OF 21
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : LOGGED BY :

DEPTH (M)	ALTERATION				FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS			
	SILICA	SERICITE	CLAY	SEC. B.I.D.													Cu %	Mo %		
135	moderate	strong	mod	mod			BIOTITE - FELDSPAR PORPHYRY cont. Alt'n is moderate - phenos distinct						0.40%	0.001						
							1cm qtz vnit. * Qtz s/w strongly developed						0.40%	28689C						
							1cm qtz-py vnit. 1cm gouge zone.						0.30%	28690C						
140							1.2cm qtz vnit. 139.0 Alt'n increases to strong - phenos present but indistinct - potassic phase						0.30%	28690C						
							1.3cm qtz-hem vnit.					3%	0.40%	28691C						
							1cm qtz vnit.						0.40%	28691C						
													0.50%	28692C						
145							1.5cm qtz vnit.						0.50%	28692C						
							1cm qtz vnit.						0.15%	28693C						
							1cm qtz-gyp vnit.						1%							
							4cm gouge zone						0.15%	28693C						
							2cm gouge zone 1cm gyp vnit.	147.6-152.2 - section of very weak alt'n					0.15%	28693C						
							1cm gouge zone	- bio phenos are mostly fresh with some gone to sericite - plag phenos often only partially altered.					0.15%	28693C						
150								- phenos very distinct					0.15%	28693C						

COMPOSITE DRILL LOG

CORE SIZE :
 CASING COLLAR ELEV. :
 COORDINATES : N. E.
 INCLINATION :

SCALE :
 GROUND ELEV. :
 AZIMUTH :

PROJECT : Poplar
 DATE STARTED :
 DATE FINISHED :
 TOTAL DEPTH : m

HOLE No. : PC-68
 PAGE No. 12 OF 21
 REF. TO CLAIM CORNER :
 LOGGED BY :

DEPTH (M)	ALTERATION				FRACTURING	MINERALS	GEOLOGO	COMMENTS :	AVG. CORE RECY/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS	
	SILICA	SERICITE	CLAY	SEC. BIO.													SEC. KSPAR	Cu %
165							BIOTITE - FELDSPAR PORPHYRY cont											
							1cm gyp unit.											
							1.5cm gyp unit											
							1.5cm qtz-carb unit											
							Alt'n moderate to strong - potassic phase											
170							1cm cal. unit.											
							1.6cm gyp unit.											
							3cm gyp unit											
							1cm qtz unit											
							1cm qtz unit											
							2cm qtz unit											
							* Qtz s/w strongly developed.											
							1cm qtz unit.											
							1.7cm qtz unit.											
175							0.7cm gyp unit.											
							1.5cm qtz unit											
							1cm qtz-Hem unit											
							178.B Alt'n becomes very strong - no phenos, glassy texture											
							1cm qtz unit											
180																		

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-68
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 13 OF 21
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : m LOGGED BY :

DEPTH (M)	ALTERATION		FRACTURING	MINERALS	GEOLOGY	COMMENTS:	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS			
	SILICA	SERICITE													Cu %	Mo %		
180	v. strong	moderate	mod.			BIOTITE FELDSPAR PORPHYRY cont. strong hematite					0.40%	29254C		180	0.22	40.00		
						0.8cm qtz unit w hem 182.4 End of very strong alt'n												
						0.8x - BFP + PMD frags in a sil. matrix Alt'n moderate to strong								183	0.25	40.00		
185	strong	moderate to strong	mod	weak		2cm qtz unit w py 1/5cm gouge zone 0.8x - BFP frags in ZEP								186	0.25	40.00		
						* Qtz s/w strong				2 1/2 %				189	0.28	0.00		
190	moderate to strong	mod	weak			1cm gouge zone 2cm qtz unit 7cm gouge zone 1cm qtz unit								192	0.27	40.00		
						192.1-194.1 - Alt'n very strong - phenos not present - glassy texture. - strong hematite								195				
195	v. str.	m-s	wk	mod		2.5cm qtz unit												

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-68
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 16 OF 21
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : m LOGGED BY :

DEPTH (M)	ALTERATION					FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS			
	SILICA	SERICITE	CLAY	SEC. BIO	SEC. ASPAR													Cu %	Mo %		
225	moderate	moderate	moderate	weak	SEC. ASPAR				BIOTITE FELDSPAR PORPHYRY cont.							225					
								→ 5cm gouge zone	- tan color matrix												
								→ 1cm qtz unit	- comp - 40% phenos - 35% plag + sericite												
								→ 1.6cm qtz unit	- 5% bio → sericite												
									- 60% matrix - silica, sericite, sec. bio												
									- Qtz s/w moderately developed												
									- Alt'n moderate												
									2282 Alt'n becomes very strong - no phenos, glassy.												
									- patches of mod alt'n within												
									- potassic phase												
230								→ 0.6cm py unit													
								→ 2cm qtz unit													
								→ 0.5cm py unit													
									Qtz s/w moderate to strong												
									Minor gypsum units.												
235								→ 1cm qtz unit													
								→ 2x1cm qtz unit													
								→ 1cm gyp unit													
								→ 1.5cm qtz unit	sulphides all contained in frts and the matrix.												
								→ 1cm qtz-carb unit													
								→ 0.8cm hem unit													
240																					

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-68
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 17 OF 21
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : m LOGGED BY :

DEPTH (m)	ALTERATION					FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (m)	ASSAYS				
	silica	sericite	clay	sec. bio	sec. Kspgr													Cu %	Mo %			
240	moderate	moderate	weak (phenos)	weak to mod	sec. Kspgr			1.5cm qtz unit	BIOTITE FELDSPAR PORPHYRY cont							240						
								0.9cm qtz unit	239.5-244 Alt'n decreases to mod - str phenos distinct					0.40%	29269C		243	0.26	40.001			
								1cm gouge zone														
245	v. str.	wk-mod	weak	weak to mod					244-245.5 - Alt'n very strong - no phenos					0.35%	29270C		246	0.29	40.001			
	mod	mod	weak	weak to mod				1cm qtz unit	Qtz s/w strongly developed													
								1.5cm qtz-carb unit	245.5-247.7 - Alt'n moderate					0.40%	29271C		249	0.38	0.001			
									247.7 - Alt'n increases to very strong													
250	v. strong	wk to mod	weak	weak to mod				1.9cm qtz unit						0.40%	29272C		252	0.53	0.001			
								1.3cm qtz unit														
								1cm wuggy qtz unit						0.45%	29273		253.3	0.46	40.001			
									253.3m sharp contact @ 70° to c.A													
255									TRACHYTIC RHYODACITE (PMD)				20.1%	N/I								
									- tan to reddish brown color													
									- aphanitic groundmass - porphyritic texture													
									- trachytic texture - small fsp lathes													

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-68
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 18 OF 21
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : m LOGGED BY :

DEPTH (M)	ALTERATION					FRACTURING MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE NO.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS		
	SILICA	SERICITE	CLAY	SEC. BIO.	SEC. KSPAR												Cu %	Mo %	
255								<u>PMD TRACHYTIC RHYODACITE cont</u> -10% phenos -plag → fresh or clay -traces of diss hematite -fracturing weak → 1cm gouge zone											
260								260.5m Sharp contact @ 30° to CA. <u>BIOTITE FELDSPAR PORPHYRY</u> -crowded porphyry -comp - 60% phenos - 55% plag → ser - 5% bio → ser - matrix - silica, sericite, sec. bio. → 10cm qtz vnit → 3cm qtz vnit → 1cm qtz unit → 1.8cm qtz vnit → 1.2cm qtz vnit - Qtz s/w strong - gypsum moderate and also contains Fluorite → 1cm gyp - Fl qtz vnit → 0.9cm qtz vnit											
265											2 1/2 - 3%	0.40%	29274C				0.54	0.001	
												0.40%	29275C				0.44	0.001	
													29276C				0.34	0.002	
270								→ 1.7cm gouge zone											

Not sampled

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-68
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 19 OF 21
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : LOGGED BY :

DEPTH (M)	ALTERATION				FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS			
	SILICA	SERICITE	CLAY	SEC. B.I.D.													Cu %	Mo %		
270								BIOTITE FELDSPAR PORPHYRY cont								270				
								1cm gouge zone 2cm qtz unit 10cm gouge zone												
								10cm qtz unit	Alt'n moderate - phenos distinct - potassic phase				0.40%	29277C			0.34	0.001		
								10cm qtz units					0.40%	29278C			0.36	0.001		
275								qtz s/w mod developed					0.40%	29279C			0.28	0.001		
								ph-carb unit.					0.40%	29279C			0.28	0.001		
								2cm qtz unit					0.40%	29279C			0.28	0.001		
								1cm qtz unit	278.1 - Alt'n becomes very strong - no phenos.				0.40%	29279C			0.28	0.001		
								0.8cm qtz unit					0.35%	29280C			0.26	0.001		
280								1.5cm qtz unit	281 - Alt'n decreases to moderate to strong - phenos often indistinct.				0.35%	29280C			0.26	0.001		
								1.5cm qtz unit					0.45%	29281C			0.25	0.001		
								2cm qtz unit					0.45%	29281C			0.25	0.001		
285								8cm gouge zone					0.45%	29281C			0.25	0.001		

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-68
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 21 of 21
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : AZIMUTH : TOTAL DEPTH : LOGGED BY :

DEPTH (M)	ALTERATION				FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'Y/MOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS	
	SILICA	SERICITE	CLAY	SEC BIO													Cu %	Mo %
300	mod	str	wk	wk	strong	py-cpx	BIOTITE FELDSPAR PORPHYRY cont											
							301.3m Gauge Contact @ 70° to C.A.											
							35cm fault zone											
							(PMD) TRACHYTIC RHYODACITE										0.14	40.001
							4cm gouge zone											
							1cm gouge zone											
							303.3m Gauge contact @ 90°											
							BIOTITE FELDSPAR PORPHYRY											
305	strong	strong			strong	py-cpx-hem	10cm gouge zone											
							strongly altered											
							1cm gouge zone											
							strong qtz s/w.											
							1cm gouge zone											
							306.1m Gauge contact @ 70° to C.A.											
							(PMD) TRACHYTIC RHYODACITE											
							15cm qtz unit.											
							307.5m Gauge contact @ 70° to C.A.											
							BIOTITE-FELDSPAR PORPHYRY											
							- same as before											
							13cm qtz unit.											
							310.0 END OF HOLE											
310																		